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Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
2. There are 15 tasks, you need to do 12 of them correctly in order to pass this exam.
3. Questions marked with * are more difficult, make sure you don’t spend too much time on them before doing the rest.
4. When you are ready, call a teacher. He will check your work, and if there are problems, you will have an extra 5 minutes (as long as you still fit within your 1 hour!) to fix them before the final grading.
5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `_copy` suffix.
3. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
4. Stop the `apache` service.
5. *Create a bash script in `/tmp/scripts`. Call this script `every.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
6. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
7. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`

8. Remove directory `/var/trash` and all its contents.
9. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `s` or `t`. The file you create should be named `letters_sbin_st.txt`.
10. Copy the file `/etc/mime.types` to `~/backup`. The user `ide` must own the copied file.
11. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
12. Create a new user `lut` with password `lut`.
13. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
14. Run the command `lspci -vv` and store the output in a file called `output.lst` in `/tmp/res`.
15. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.

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3. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
4. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
5. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
6. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
7. Create a new user `hum` with password `hum`.
8. In the home directory of the user `hum`, create a file named `test.txt` owned by user `hum`.
9. Remove directory `/etc/trash` and all it’s contents.

10. Stop the `apache` service.
11. *Create a bash script in the home directory of user `ide`. Call this script `all.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
12. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/usr/bin` that end with `e` or `k`. The file you create should be named `list_usr_ek.cmd`.
13. Copy the file `/etc/mime.types` to `~/backup`. The user `ide` must own the copied file.
14. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
15. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `list_sbin_ek.cmd`.
3. Stop the `sshd` service.
4. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
5. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
7. Copy the file `/etc/services` to `~/backup`. The user `ide` must own the copied file.
8. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

9. Create a new user `lut` with password `lut`.
10. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
11. *Create a bash script in `/tmp/scripts`. Call this script `all.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
12. Remove directory `/etc/trash` and all its contents.
13. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
14. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
15. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in the home directory of user `ide`.

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3. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
4. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
5. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `s` or `t`. The file you create should be named `cmd_bin_st.list`.
6. Create a new user `set` with password `set`.
7. In the home directory of the user `set`, create a file named `file` owned by user `set`.
8. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`

9. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
10. *Create a bash script in `/tmp/scripts`. Call this script `filename.sh`. This script should check if it's first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
11. Copy the file `/etc/wgetrc` to the home directory of user `ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Remove directory `/var/trash` and all it's contents.
14. Run the command `dpkg -l` and store the output in a file called `result1` in `~/output`.
15. Stop the `sshd` service.

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4. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `cmd_sbin_ek.list`.
5. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
6. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in the home directory of user `ide`.
7. Remove directory `/var/trash` and all it’s contents.
8. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.

9. Copy the file `/etc/nanorc` to `/tmp/ide`. The user `ide` must own the copied file.
10. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
11. Create a new user `hum` with password `hum`.
12. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.
13. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
14. Stop the `apache` service.
15. *Create a bash script in `~/scripts`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

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2. Copy the file `/etc/services` to the home directory of user `ide`. The user `ide` must own the copied file.
3. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
4. Remove directory `/etc/trash` and all it’s contents.
5. Create a file in `~/scripts` that contains a list of all filenames in the directory `/bin` that end with e or k. The file you create should be named `list_bin_ek.cmd`.
6. *Create a bash script in `~/scripts`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
7. Stop the `vsftpd` service.
8. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.

9. Create a new user `set` with password `set`.
10. In the home directory of the user `set`, create a file named `test.txt` owned by user `set`.
11. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `.bak` suffix.
12. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
13. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
14. Change permissions of the `.bashrc` file to `rwrxwrx--`
15. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.

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3. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.
4. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
5. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
6. *Create a bash script in `~/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
7. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.

8. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `d` or `f`. The file you create should be named `letters_sbin_df.txt`.
9. Stop the `vsftpd` service.
10. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
11. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
12. Remove directory `/var/trash` and all its contents.
13. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
14. Copy the file `/etc/wgetrc` to `~/backup`. The user `ide` must own the copied file.
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4. *Create a bash script in `/tmp/scripts`. Call this script `all.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
5. Copy the file `/etc/nanorc` to `~/backup`. The user `ide` must own the copied file.
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7. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `d` or `f`. The file you create should be named `cmd_bin_df.list`.

8. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
9. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
10. Create a new user `hum` with password `hum`.
11. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.
12. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
13. Remove directory `/etc/trash` and all it's contents.
14. Run the command `dpkg -l` and store the output in a file called `result1` in the home directory of user `ide`.
15. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.

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7. Create a new user `hum` with password `hum`.
8. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.

9. *Create a bash script in the home directory of user `ide`. Call this script `nr.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
10. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.
11. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
12. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
13. Stop the `apache` service.
14. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in the home directory of user `ide`.
15. Change permissions of the `.bashrc` file to `rwrxwrx--`

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4. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
5. *Create a bash script in the home directory of user `ide`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
6. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `-backup` suffix.

7. *Open up the original file in a text editor. You need to change the port number to 9999. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
8. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
9. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `do2003`.
10. Remove directory `/etc/trash` and all it's contents.
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12. Stop the `sshd` service.
13. Change permissions of the `.bashrc` file to `rw-rw-r--`
14. *Create a bash script in `/tmp/scripts`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
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Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
2. There are 15 tasks, you need to do 12 of them correctly in order to pass this exam.
3. Questions marked with * are more difficult, make sure you don’t spend too much time on them before doing the rest.
4. When you are ready, call a teacher. He will check your work, and if there are problems, you will have an extra 5 minutes (as long as you still fit within your 1 hour!) to fix them before the final grading.
5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.
3. Copy the file `/etc/mime.types` to `/tmp/ide`. The user `ide` must own the copied file.
4. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
5. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
6. Change permissions of the `.bashrc` file to `rwrxwrx--`
7. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
8. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/sbin` that end with `s` or `t`. The file you create should be named `list_sbin_st.cmd`.
9. Create a new user `hum` with password `hum`.

10. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.
11. *Create a bash script in the home directory of user `ide`. Call this script `filename.sh`. This script should check if it's first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
12. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `.bak` suffix.
13. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
14. Remove directory `/var/trash` and all it's contents.
15. Stop the `sshd` service.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. *Create a bash script in `/tmp/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
3. Create a file in `~/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `s` or `t`. The file you create should be named `cmd_usr_st.list`.
4. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `do2003`.
5. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `_copy` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.

7. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
8. Create a new user `set` with password `set`.
9. In the home directory of the user `set`, create a file named `info` owned by user `set`.
10. Stop the `apache` service.
11. Copy the file `/etc/mime.types` to the home directory of user `ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
14. Remove directory `/var/trash` and all its contents.
15. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
3. Create a new user `lut` with password `lut`.
4. In the home directory of the user `lut`, create a file named `file` owned by user `lut`.
5. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
6. Copy the file `/etc/services` to the home directory of user `ide`. The user `ide` must own the copied file.
7. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
8. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `letters_usr_df.txt`.
9. Remove directory `/etc/trash` and all it’s contents.

10. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `.bak` suffix.
11. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
12. *Create a bash script in the home directory of user `ide`. Call this script `fname.sh`. This script should check if it's first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
13. Stop the `vsftpd` service.
14. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
15. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. *Create a bash script in `/tmp/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
3. Copy the file `/etc/nanorc` to `~/backup`. The user `ide` must own the copied file.
4. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
5. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
6. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
7. Stop the `vsftpd` service.

8. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `.bak` suffix.
9. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
10. Remove directory `/var/trash` and all it's contents.
11. Create a new user `lut` with password `lut`.
12. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
13. Run the command `lspci -vv` and store the output in a file called `output.lst` in the home directory of user `ide`.
14. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `cmd_sbin_ek.list`.
15. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `-backup` suffix.
3. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
4. Remove directory `/var/trash` and all it's contents.
5. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `letters_sbin_ek.txt`.
6. Create a new user `hum` with password `hum`.
7. In the home directory of the user `hum`, create a file named `test.txt` owned by user `hum`.
8. Copy the file `/etc/services` to `/tmp/ide`. The user `ide` must own the copied file.

9. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
10. Stop the `sshd` service.
11. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
12. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
13. *Create a bash script in `/tmp/scripts`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
14. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
15. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
3. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `e` or `k`. The file you create should be named `letters_bin_ek.txt`.
4. *Create a bash script in `~/scripts`. Call this script `all.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
5. Change permissions of the `.bashrc` file to `rwrxwrx--`
6. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.
7. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.

8. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
9. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
10. Stop the `sshd` service.
11. Remove directory `/etc/trash` and all its contents.
12. Copy the file `/etc/wgetrc` to `~/backup`. The user `ide` must own the copied file.
13. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
14. Create a new user `set` with password `set`.
15. In the home directory of the user `set`, create a file named `info` owned by user `set`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. *Create a bash script in `~/scripts`. Call this script `nr.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
3. Copy the file `/etc/wgetrc` to `/tmp/ide`. The user `ide` must own the copied file.
4. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
5. Remove directory `/var/trash` and all it’s contents.
6. Run the command `dpkg -l` and store the output in a file called `result1` in the home directory of user `ide`.
7. Create a file in `~/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `cmd_usr_df.list`.
8. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.

9. Create a new user `set` with password `set`.
10. In the home directory of the user `set`, create a file named `info` owned by user `set`.
11. Stop the `vsftpd` service.
12. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
13. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
14. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
15. Change permissions of the `.bashrc` file to `rwrxwrxr--`

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8. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/sbin` that end with `s` or `t`. The file you create should be named `letters_sbin_st.txt`.
9. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.
10. Stop the `sshd` service.
11. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
12. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
13. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
14. Create a new user `hum` with password `hum`.
15. In the home directory of the user `hum`, create a file named `test.txt` owned by user `hum`.

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9. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`

10. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.
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12. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
13. Remove directory `/var/trash` and all it's contents.
14. Run the command `dpkg -l` and store the output in a file called `result1` in `~/output`.
15. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `exam`.

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6. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
7. Stop the `vsftpd` service.
8. Remove directory `/etc/trash` and all it’s contents.

9. *Create a bash script in `/tmp/scripts`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
10. Copy the file `/etc/services` to the home directory of user `ide`. The user `ide` must own the copied file.
11. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
12. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `cmd_sbin_ek.list`.
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5. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
6. Copy the file `/etc/mime.types` to `/tmp/ide`. The user `ide` must own the copied file.
7. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

8. Create a new user `set` with password `set`.
9. In the home directory of the user `set`, create a file named `info` owned by user `set`.
10. Remove directory `/etc/trash` and all its contents.
11. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
12. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
13. Stop the `apache` service.
14. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
15. *Create a bash script in the home directory of user `ide`. Call this script `nr.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

Good luck!

NAME:

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Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Stop the `apache` service.
3. Remove directory `/var/trash` and all it’s contents.
4. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/bin` that end with `d` or `f`. The file you create should be named `letters.bin.df.txt`.
5. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `.bak` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
7. Create a new user `hum` with password `hum`.
8. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.

9. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
10. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.
11. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
12. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
13. Copy the file `/etc/wgetrc` to the home directory of user `ide`. The user `ide` must own the copied file.
14. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
15. *Create a bash script in `/tmp/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Remove directory `/etc/trash` and all its contents.
3. Create a new user `lut` with password `lut`.
4. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.
5. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
6. Stop the `apache` service.
7. Copy the file `/etc/wgetrc` to `~/backup`. The user `ide` must own the copied file.
8. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
9. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `-backup` suffix.

10. *Open up the original file in a text editor. You need to change the port number to 9999. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
11. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
12. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
13. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/sbin` that end with `d` or `f`. The file you create should be named `list_sbin_df.cmd`.
14. *Create a bash script in `~/scripts`. Call this script `filename.sh`. This script should check if it's first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
15. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Remove directory `/etc/trash` and all its contents.
3. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
4. Run the command `dpkg -l` and store the output in a file called `result1` in the home directory of user `ide`.
5. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
6. Copy the file `/etc/nanorc` to `~/backup`. The user `ide` must own the copied file.
7. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
8. Create a new user `set` with password `set`.
9. In the home directory of the user `set`, create a file named `info` owned by user `set`.

10. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
11. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `-backup` suffix.
12. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
13. Stop the `vsftpd` service.
14. Create a file in `~/scripts` that contains a list of all filenames in the directory `/bin` that end with `d` or `f`. The file you create should be named `cmd_bin_df.list`.
15. *Create a bash script in `~/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. *Create a bash script in `/tmp/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
3. Remove directory `/etc/trash` and all it’s contents.
4. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
5. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `.bak` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.

7. Run the command `lspci -vv` and store the output in a file called `output.lst` in the home directory of user `ide`.
8. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
9. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
10. Create a file in `~/scripts` that contains a list of all filenames in the directory `/bin` that end with `e` or `k`. The file you create should be named `list_bin_ek.cmd`.
11. Copy the file `/etc/wgetrc` to `/tmp/ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Stop the `apache` service.
14. Create a new user `set` with password `set`.
15. In the home directory of the user `set`, create a file named `test.txt` owned by user `set`.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
3. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
4. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/bin` that end with `s` or `t`. The file you create should be named `letters_bin_st.txt`.
5. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
6. Remove directory `/etc/trash` and all it’s contents.
7. Create a new user `lut` with password `lut`.
8. In the home directory of the user `lut`, create a file named `file` owned by user `lut`.

9. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
10. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
11. Copy the file `/etc/nanorc` to the home directory of user `ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
14. *Create a bash script in `/tmp/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
15. Stop the `vsftpd` service.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
3. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `_copy` suffix.
4. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
5. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
6. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
7. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
8. Copy the file `/etc/services` to `/tmp/ide`. The user `ide` must own the copied file.

9. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
10. Stop the `sshd` service.
11. *Create a bash script in the home directory of user `ide`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
12. Remove directory `/var/trash` and all it's contents.
13. Create a new user `lut` with password `lut`.
14. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
15. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/sbin` that end with `s` or `t`. The file you create should be named `list_sbin_st.cmd`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.
3. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
4. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `s` or `t`. The file you create should be named `list_usr_st.cmd`.
5. Create a new user `hum` with password `hum`.
6. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.
7. *Create a bash script in `/tmp/scripts`. Call this script `nr.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

8. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
9. Remove directory `/var/trash` and all its contents.
10. Copy the file `/etc/nanorc` to `~/backup`. The user `ide` must own the copied file.
11. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
12. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
13. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
14. Stop the `apache` service.
15. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.

Good luck!

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Questions

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2. *Create a bash script in the home directory of user `ide`. Call this script `filename.sh`. This script should check if it’s first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
3. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
4. Create a new user `lut` with password `lut`.
5. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.
6. Run the command `dpkg -l` and store the output in a file called `result1` in `~/output`.
7. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `.bak` suffix.

8. *Open up the original file in a text editor. You need to change the port number to 7777. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
9. Copy the file `/etc/mime.types` to the home directory of user `ide`. The user `ide` must own the copied file.
10. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
11. Create a file in `~/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `letters_usr_df.txt`.
12. Remove directory `/var/trash` and all its contents.
13. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `exam`.
14. Stop the `apache` service.
15. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.

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Questions

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2. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in the home directory of user `ide`.
3. Stop the `vsftpd` service.
4. Copy the file `/etc/wgetrc` to `~/backup`. The user `ide` must own the copied file.
5. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
6. Change permissions of the `.bashrc` file to `rwrxwrx--`
7. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
8. Remove directory `/var/trash` and all its contents.
9. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `exam`.

10. *Create a bash script in the home directory of user `ide`. Call this script `every.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
11. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `_copy` suffix.
12. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
13. Create a file in `~/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `e` or `k`. The file you create should be named `letters_usr_ek.txt`.
14. Create a new user `hum` with password `hum`.
15. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.

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3. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
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7. Stop the `sshd` service.
8. Create a new user `lut` with password `lut`.
9. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.

10. Copy the file `/etc/mime.types` to `~/backup`. The user `ide` must own the copied file.
11. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
12. *Create a bash script in `~/scripts`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
13. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `-backup` suffix.
14. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
15. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.

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5. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.

7. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `list_sbin_ek.cmd`.
8. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in the home directory of user `ide`.
9. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
10. Stop the `vsftpd` service.
11. Copy the file `/etc/nanorc` to the home directory of user `ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Create a new user `set` with password `set`.
14. In the home directory of the user `set`, create a file named `test.txt` owned by user `set`.
15. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.

Good luck!

NAME:

PERSONAL NUMBER: -

Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
2. There are 15 tasks, you need to do 12 of them correctly in order to pass this exam.
3. Questions marked with * are more difficult, make sure you don’t spend too much time on them before doing the rest.
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5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Stop the `sshd` service.
3. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
4. Change permissions of the `.bashrc` file to `rw-rw-r--`
5. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
6. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `cmd_usr_df.list`.
7. Create a new user `hum` with password `hum`.
8. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.
9. Copy the file `/etc/mime.types` to the home directory of user `ide`. The user `ide` must own the copied file.

10. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
11. *Create a bash script in `/tmp/scripts`. Call this script `every.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
12. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
13. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
14. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
15. Remove directory `/etc/trash` and all it's contents.

Good luck!

NAME:

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Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
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5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. *Create a bash script in `/tmp/scripts`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
3. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `cmd_sbin_ek.list`.
4. Run the command `dpkg -l` and store the output in a file called `result1` in `~/output`.
5. Remove directory `/etc/trash` and all its contents.
6. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
7. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.

8. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `.bak` suffix.
9. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
10. Create a new user `hum` with password `hum`.
11. In the home directory of the user `hum`, create a file named `test.txt` owned by user `hum`.
12. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
13. Copy the file `/etc/services` to `/tmp/ide`. The user `ide` must own the copied file.
14. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
15. Stop the `vsftpd` service.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `d` or `f`. The file you create should be named `list_bin_df.cmd`.
3. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `.bak` suffix.
4. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
5. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
6. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `do2003`.
7. Copy the file `/etc/services` to `/tmp/ide`. The user `ide` must own the copied file.
8. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

9. Stop the `vsftpd` service.
10. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
11. *Create a bash script in `~/scripts`. Call this script `fname.sh`. This script should check if it's first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
12. Remove directory `/etc/trash` and all it's contents.
13. Create a new user `hum` with password `hum`.
14. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.
15. Run the command `lspci -vv` and store the output in a file called `output.lst` in `/tmp/res`.

Good luck!

NAME:

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Basic Rules

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Copy the file `/etc/services` to the home directory of user `ide`. The user `ide` must own the copied file.
3. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
4. Stop the `apache` service.
5. Create a new user `set` with password `set`.
6. In the home directory of the user `set`, create a file named `test.txt` owned by user `set`.
7. Run the command `lspci -vv` and store the output in a file called `output.lst` in `/tmp/res`.
8. *Create a bash script in `/tmp/scripts`. Call this script `every.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
9. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`

10. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
11. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.
12. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
13. Remove directory `/var/trash` and all it's contents.
14. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
15. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `e` or `k`. The file you create should be named `cmd_usr_ek.list`.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a new user `hum` with password `hum`.
3. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.
4. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
5. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
6. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `_copy` suffix.
7. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
8. Remove directory `/etc/trash` and all it’s contents.

9. *Create a bash script in `~/scripts`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
10. Stop the `vsftpd` service.
11. Copy the file `/etc/nanorc` to `/tmp/ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.
14. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
15. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/usr/bin` that end with `s` or `t`. The file you create should be named `list_usr_st.cmd`.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `lspci -vv` and store the output in a file called `output.lst` in `/tmp/res`.
3. Stop the `sshd` service.
4. *Create a bash script in `/tmp/scripts`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
5. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
6. Create a file in `~/scripts` that contains a list of all filenames in the directory `/bin` that end with `d` or `f`. The file you create should be named `letters_bin_df.txt`.
7. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `.bak` suffix.

8. *Open up the original file in a text editor. You need to change the port number to 8888. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
9. Create a new user `hum` with password `hum`.
10. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.
11. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
12. Copy the file `/etc/services` to `~/backup`. The user `ide` must own the copied file.
13. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
14. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
15. Remove directory `/var/trash` and all its contents.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
3. Create a new user `hum` with password `hum`.
4. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.
5. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
6. Stop the `vsftpd` service.
7. *Create a bash script in the home directory of user `ide`. Call this script `all.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
8. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
9. Copy the file `/etc/mime.types` to `/tmp/ide`. The user `ide` must own the copied file.

10. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
11. Remove directory `/etc/trash` and all its contents.
12. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `_copy` suffix.
13. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
14. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
15. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `d` or `f`. The file you create should be named `cmd_sbin_df.list`.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.
3. *Create a bash script in `/tmp/scripts`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
4. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
5. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
6. Create a new user `set` with password `set`.
7. In the home directory of the user `set`, create a file named `info` owned by user `set`.

8. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
9. Change permissions of the `.bashrc` file to `rwrxrwxr--`
10. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
11. Copy the file `/etc/nanorc` to `/tmp/ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Stop the `apache` service.
14. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `list_sbin_ek.cmd`.
15. Remove directory `/etc/trash` and all its contents.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
3. Run the command `lspci -vv` and store the output in a file called `output.lst` in the home directory of user `ide`.
4. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/usr/bin` that end with `e` or `k`. The file you create should be named `letters_usr_ek.txt`.
5. Create a new user `lut` with password `lut`.
6. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.
7. *Create a bash script in `~/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

8. Stop the `sshd` service.
9. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.
10. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
11. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
12. Copy the file `/etc/wgetrc` to the home directory of user `ide`. The user `ide` must own the copied file.
13. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
14. Remove directory `/var/trash` and all it's contents.
15. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Remove directory `/var/trash` and all its contents.
3. Run the command `dpkg -l` and store the output in a file called `result1` in the home directory of user `ide`.
4. Stop the `apache` service.
5. Copy the file `/etc/mime.types` to `/tmp/ide`. The user `ide` must own the copied file.
6. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
7. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
8. *Create a bash script in the home directory of user `ide`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

9. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `_copy` suffix.
10. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
11. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
12. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `s` or `t`. The file you create should be named `letters_bin_st.txt`.
13. Create a new user `set` with password `set`.
14. In the home directory of the user `set`, create a file named `info` owned by user `set`.
15. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/bin` that end with `e` or `k`. The file you create should be named `cmd_bin_ek.list`.
3. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `-backup` suffix.
4. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
5. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
6. Stop the `sshd` service.
7. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.

8. *Create a bash script in `~/scripts`. Call this script `nr.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
9. Copy the file `/etc/wgetrc` to `~/backup`. The user `ide` must own the copied file.
10. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
11. Create a new user `hum` with password `hum`.
12. In the home directory of the user `hum`, create a file named `test.txt` owned by user `hum`.
13. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
14. Remove directory `/etc/trash` and all it's contents.
15. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.

Good luck!

NAME:

PERSONAL NUMBER: -

Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
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5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.
3. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
4. Create a new user `lut` with password `lut`.
5. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.
6. *Create a bash script in the home directory of user `ide`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

7. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
8. Copy the file `/etc/wgetrc` to `~/backup`. The user `ide` must own the copied file.
9. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
10. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `do2003`.
11. Change permissions of the `.bashrc` file to `rwrxwrx--`
12. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `~/output`.
13. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `s` or `t`. The file you create should be named `list_sbin_st.cmd`.
14. Remove directory `/var/trash` and all its contents.
15. Stop the `sshd` service.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. *Create a bash script in `/tmp/scripts`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
3. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `do2003`.
4. Create a new user `lut` with password `lut`.
5. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
6. Remove directory `/etc/trash` and all it’s contents.
7. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
8. Copy the file `/etc/mime.types` to the home directory of user `ide`. The user `ide` must own the copied file.

9. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
10. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
11. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
12. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `letters_usr_df.txt`.
13. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
14. Stop the `vsftpd` service.
15. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
3. Create a file in `~/scripts` that contains a list of all filenames in the directory `/bin` that end with `d` or `f`. The file you create should be named `cmd_bin_df.list`.
4. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `.bak` suffix.
5. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
6. Stop the `apache` service.
7. *Create a bash script in `~/scripts`. Call this script `filename.sh`. This script should check if it’s first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.

8. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `~/output`.
9. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
10. Create a new user `set` with password `set`.
11. In the home directory of the user `set`, create a file named `file` owned by user `set`.
12. Remove directory `/etc/trash` and all its contents.
13. Copy the file `/etc/wgetrc` to `/tmp/ide`. The user `ide` must own the copied file.
14. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
15. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. *Create a bash script in `/tmp/scripts`. Call this script `fname.sh`. This script should check if it’s first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
3. Copy the file `/etc/mime.types` to `~/backup`. The user `ide` must own the copied file.
4. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
5. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `s` or `t`. The file you create should be named `list_sbin_st.cmd`.
6. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.

7. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
8. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
9. Create a new user `lut` with password `lut`.
10. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.
11. Remove directory `/etc/trash` and all its contents.
12. Stop the `apache` service.
13. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
14. Run the command `dpkg -l` and store the output in a file called `result1` in the home directory of user `ide`.
15. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
3. Remove directory `/etc/trash` and all it’s contents.
4. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
5. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
7. Stop the `sshd` service.
8. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.

9. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
10. Create a file in `~/scripts` that contains a list of all filenames in the directory `/bin` that end with `d` or `f`. The file you create should be named `list_bin_df.cmd`.
11. Copy the file `/etc/wgetrc` to `~/backup`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Create a new user `lut` with password `lut`.
14. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
15. *Create a bash script in `~/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
3. *Create a bash script in `~/scripts`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
4. Stop the `apache` service.
5. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/bin` that end with `s` or `t`. The file you create should be named `letters_bin_st.txt`.
6. Remove directory `/var/trash` and all it’s contents.
7. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
8. Copy the file `/etc/nanorc` to the home directory of user `ide`. The user `ide` must own the copied file.

9. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
10. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
11. Change permissions of the `.bashrc` file to `rwrxwrx--`
12. Create a new user `set` with password `set`.
13. In the home directory of the user `set`, create a file named `info` owned by user `set`.
14. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.
15. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. *Create a bash script in the home directory of user `ide`. Call this script `fname.sh`. This script should check if it’s first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
3. Remove directory `/var/trash` and all it’s contents.
4. Stop the `vsftpd` service.
5. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
7. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `exam`.

8. Create a new user `set` with password `set`.
9. In the home directory of the user `set`, create a file named `test.txt` owned by user `set`.
10. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
11. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `~/output`.
12. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
13. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/bin` that end with `e` or `k`. The file you create should be named `cmd_bin_ek.list`.
14. Copy the file `/etc/wgetrc` to `/tmp/ide`. The user `ide` must own the copied file.
15. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

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Questions

1. Log on to the system using the user `ide` and password `ide`.
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3. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
4. Stop the `apache` service.
5. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
6. Copy the file `/etc/services` to `~/backup`. The user `ide` must own the copied file.
7. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

8. *Create a bash script in `~/scripts`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
9. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
10. Remove directory `/etc/trash` and all its contents.
11. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `s` or `t`. The file you create should be named `cmd_sbin_st.list`.
12. Create a new user `lut` with password `lut`.
13. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.
14. Run the command `lspci -vv` and store the output in a file called `output.lst` in the home directory of user `ide`.
15. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in the home directory of user `ide`.
3. *Create a bash script in `/tmp/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
4. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `_copy` suffix.
5. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
6. Change permissions of the `.bashrc` file to `rwrxwrx--`
7. Stop the `vsftpd` service.

8. Copy the file `/etc/mime.types` to the home directory of user `ide`. The user `ide` must own the copied file.
9. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
10. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
11. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
12. Remove directory `/etc/trash` and all it's contents.
13. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `e` or `k`. The file you create should be named `list_bin_ek.cmd`.
14. Create a new user `lut` with password `lut`.
15. In the home directory of the user `lut`, create a file named `file` owned by user `lut`.

Good luck!

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3. Remove directory `/etc/trash` and all it’s contents.
4. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/usr/bin` that end with `e` or `k`. The file you create should be named `list_usr_ek.cmd`.
5. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
7. Stop the `sshd` service.

8. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.
9. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
10. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
11. Copy the file `/etc/nanorc` to `/tmp/ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Create a new user `set` with password `set`.
14. In the home directory of the user `set`, create a file named `file` owned by user `set`.
15. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`

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4. When you are ready, call a teacher. He will check your work, and if there are problems, you will have an extra 5 minutes (as long as you still fit within your 1 hour!) to fix them before the final grading.
5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `_copy` suffix.
3. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
4. Stop the `sshd` service.
5. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
6. Run the command `dpkg -l` and store the output in a file called `result1` in the home directory of user `ide`.
7. Copy the file `/etc/mime.types` to `~/backup`. The user `ide` must own the copied file.
8. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

9. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
10. Create a file in `~/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `e` or `k`. The file you create should be named `letters_usr_ek.txt`.
11. Remove directory `/var/trash` and all its contents.
12. Create a new user `set` with password `set`.
13. In the home directory of the user `set`, create a file named `file` owned by user `set`.
14. *Create a bash script in the home directory of user `ide`. Call this script `all.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
15. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.

Good luck!

NAME:

PERSONAL NUMBER: -

Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
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5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
3. Copy the file `/etc/wgetrc` to the home directory of user `ide`. The user `ide` must own the copied file.
4. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
5. *Create a bash script in `~/scripts`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
6. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `s` or `t`. The file you create should be named `letters_usr_st.txt`.
7. Create a new user `set` with password `set`.

8. In the home directory of the user `set`, create a file named `file` owned by user `set`.
9. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
10. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.
11. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
12. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
13. Stop the `apache` service.
14. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
15. Remove directory `/var/trash` and all it's contents.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
3. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
4. Stop the `vsftpd` service.
5. *Create a bash script in the home directory of user `ide`. Call this script `fname.sh`. This script should check if it’s first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
6. Remove directory `/etc/trash` and all it’s contents.
7. Create a new user `hum` with password `hum`.
8. In the home directory of the user `hum`, create a file named `test.txt` owned by user `hum`.

9. Copy the file `/etc/services` to `~/backup`. The user `ide` must own the copied file.
10. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
11. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
12. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.
13. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
14. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in the home directory of user `ide`.
15. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `d` or `f`. The file you create should be named `letters_sbin_df.txt`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
3. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
4. Stop the `apache` service.
5. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
6. Create a new user `hum` with password `hum`.
7. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.
8. Remove directory `/etc/trash` and all it's contents.
9. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `d` or `f`. The file you create should be named `cmd_sbin_df.list`.

10. *Create a bash script in the home directory of user `ide`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
11. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
12. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
13. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
14. Copy the file `/etc/nanorc` to `/tmp/ide`. The user `ide` must own the copied file.
15. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
3. Remove directory `/var/trash` and all it’s contents.
4. Copy the file `/etc/services` to `/tmp/ide`. The user `ide` must own the copied file.
5. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
6. Create a file in `~/scripts` that contains a list of all filenames in the directory `/bin` that end with `d` or `f`. The file you create should be named `letters_bin_df.txt`.
7. Change permissions of the `.bashrc` file to `rw-rw-r--`
8. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.

9. *Open up the original file in a text editor. You need to change the port number to 9999. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
10. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
11. Stop the `sshd` service.
12. Create a new user `set` with password `set`.
13. In the home directory of the user `set`, create a file named `info` owned by user `set`.
14. *Create a bash script in `/tmp/scripts`. Call this script `filename.sh`. This script should check if it's first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
15. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
3. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `letters_sbin_ek.txt`.
4. Stop the `apache` service.
5. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `exam`.
6. Remove directory `/var/trash` and all it’s contents.
7. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
8. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.

9. *Open up the original file in a text editor. You need to change the port number to 9999. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
10. *Create a bash script in `/tmp/scripts`. Call this script `every.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
11. Create a new user `hum` with password `hum`.
12. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.
13. Copy the file `/etc/mime.types` to the home directory of user `ide`. The user `ide` must own the copied file.
14. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
15. Run the command `lspci -vv` and store the output in a file called `output.lst` in `/tmp/res`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Copy the file `/etc/wgetrc` to `~/backup`. The user `ide` must own the copied file.
3. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
4. Stop the `sshd` service.
5. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `_copy` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
7. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/bin` that end with `e` or `k`. The file you create should be named `list_bin_ek.cmd`.
8. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.

9. Create a new user `set` with password `set`.
10. In the home directory of the user `set`, create a file named `test.txt` owned by user `set`.
11. *Create a bash script in `/tmp/scripts`. Call this script `all.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
12. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
13. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
14. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
15. Remove directory `/etc/trash` and all its contents.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a new user `lut` with password `lut`.
3. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
4. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
5. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
6. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
7. Copy the file `/etc/nanorc` to the home directory of user `ide`. The user `ide` must own the copied file.
8. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
9. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.

10. *Open up the original file in a text editor. You need to change the port number to 9999. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
11. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `s` or `t`. The file you create should be named `cmd_bin_st.list`.
12. *Create a bash script in `/tmp/scripts`. Call this script `nr.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
13. Remove directory `/var/trash` and all its contents.
14. Stop the `sshd` service.
15. Run the command `dpkg -l` and store the output in a file called `result1` in the home directory of user `ide`.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Stop the `sshd` service.
3. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `e` or `k`. The file you create should be named `letters_usr_ek.txt`.
4. Remove directory `/etc/trash` and all it’s contents.
5. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
6. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
7. *Create a bash script in the home directory of user `ide`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
8. Copy the file `/etc/services` to the home directory of user `ide`. The user `ide` must own the copied file.

9. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
10. Create a new user `hum` with password `hum`.
11. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.
12. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `.bak` suffix.
13. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
14. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
15. Change permissions of the `.bashrc` file to `rwrxwrxr--`

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Stop the `vsftpd` service.
3. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `do2003`.
4. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
5. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `d` or `f`. The file you create should be named `list_sbin_df.cmd`.
6. Run the command `lspci -vv` and store the output in a file called `output.lst` in the home directory of user `ide`.
7. Copy the file `/etc/mime.types` to the home directory of user `ide`. The user `ide` must own the copied file.
8. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

9. *Create a bash script in the home directory of user `ide`. Call this script `every.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
10. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
11. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `_copy` suffix.
12. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
13. Remove directory `/var/trash` and all it's contents.
14. Create a new user `set` with password `set`.
15. In the home directory of the user `set`, create a file named `info` owned by user `set`.

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4. Run the command `lspci -vv` and store the output in a file called `output.lst` in the home directory of user `ide`.
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6. Remove directory `/var/trash` and all it’s contents.
7. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `_copy` suffix.
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12. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
13. Stop the `apache` service.
14. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `s` or `t`. The file you create should be named `cmd_sbin_st.list`.
15. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `exam`.

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Basic Rules

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2. There are 15 tasks, you need to do 12 of them correctly in order to pass this exam.
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5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.
3. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
4. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
5. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
6. Create a new user `lut` with password `lut`.
7. In the home directory of the user `lut`, create a file named `file` owned by user `lut`.
8. Stop the `vsftpd` service.

9. Copy the file `/etc/services` to the home directory of user `ide`. The user `ide` must own the copied file.
10. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
11. Remove directory `/etc/trash` and all its contents.
12. *Create a bash script in `~/scripts`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
13. Create a file in `~/scripts` that contains a list of all filenames in the directory `/bin` that end with `e` or `k`. The file you create should be named `list_bin_ek.cmd`.
14. Run the command `dpkg -l` and store the output in a file called `result1` in `~/output`.
15. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
3. *Create a bash script in the home directory of user `ide`. Call this script `every.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
4. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.
5. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
6. Remove directory `/etc/trash` and all it’s contents.
7. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.

8. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
9. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `list_usr_df.cmd`.
10. Stop the `apache` service.
11. Copy the file `/etc/mime.types` to `/tmp/ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Create a new user `lut` with password `lut`.
14. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
15. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
3. Change permissions of the `.bashrc` file to `rw-rw-r--`
4. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
5. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
6. Remove directory `/var/trash` and all it’s contents.
7. Stop the `apache` service.
8. *Create a bash script in `/tmp/scripts`. Call this script `filename.sh`. This script should check if it’s first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
9. Create a new user `set` with password `set`.

10. In the home directory of the user `set`, create a file named `file` owned by user `set`.
11. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/usr/bin` that end with `s` or `t`. The file you create should be named `letters_usr_st.txt`.
12. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
13. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
14. Copy the file `/etc/mime.types` to `~/backup`. The user `ide` must own the copied file.
15. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a new user `lut` with password `lut`.
3. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.
4. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
5. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/sbin` that end with `s` or `t`. The file you create should be named `letters_sbin_st.txt`.
6. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
7. Remove directory `/etc/trash` and all it’s contents.
8. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.

9. *Open up the original file in a text editor. You need to change the port number to 8888. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
10. *Create a bash script in `~/scripts`. Call this script `every.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
11. Stop the `vsftpd` service.
12. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in the home directory of user `ide`.
13. Copy the file `/etc/nanorc` to `/tmp/ide`. The user `ide` must own the copied file.
14. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
15. Change permissions of the `.bashrc` file to `rw-rw-r--`

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
3. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
4. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
5. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
6. *Create a bash script in `~/scripts`. Call this script `all.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
7. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in the home directory of user `ide`.

8. Copy the file `/etc/wgetrc` to the home directory of user `ide`. The user `ide` must own the copied file.
9. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
10. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
11. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `cmd_usr_df.list`.
12. Stop the `sshd` service.
13. Create a new user `set` with password `set`.
14. In the home directory of the user `set`, create a file named `file` owned by user `set`.
15. Remove directory `/etc/trash` and all its contents.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
3. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
4. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
5. Create a new user `hum` with password `hum`.
6. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.
7. Copy the file `/etc/services` to `~/backup`. The user `ide` must own the copied file.
8. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

9. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `list_sbin_ek.cmd`.
10. Remove directory `/var/trash` and all its contents.
11. *Create a bash script in `~/scripts`. Call this script `filename.sh`. This script should check if its first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
12. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
13. Stop the `vsftpd` service.
14. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
15. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory

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4. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.
5. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `s` or `t`. The file you create should be named `letters_sbin_st.txt`.
6. *Create a bash script in `~/scripts`. Call this script `filename.sh`. This script should check if it’s first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
7. Remove directory `/etc/trash` and all it’s contents.
8. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`

9. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
10. Run the command `lspci -vv` and store the output in a file called `output.lst` in the home directory of user `ide`.
11. Stop the `apache` service.
12. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.
13. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
14. Copy the file `/etc/wgetrc` to `/tmp/ide`. The user `ide` must own the copied file.
15. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a file in `~/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `list_usr_df.cmd`.
3. Remove directory `/var/trash` and all it's contents.
4. Change permissions of the `.bashrc` file to `rwrxwrx--`
5. Stop the `vsftpd` service.
6. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
7. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
8. Copy the file `/etc/nanorc` to `/tmp/ide`. The user `ide` must own the copied file.
9. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

10. *Create a bash script in `/tmp/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
11. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in the home directory of user `ide`.
12. Create a new user `lut` with password `lut`.
13. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.
14. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `_copy` suffix.
15. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Copy the file `/etc/nanorc` to `~/backup`. The user `ide` must own the copied file.
3. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
4. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
5. Create a new user `hum` with password `hum`.
6. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.
7. Remove directory `/etc/trash` and all it’s contents.
8. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
9. *Create a bash script in the home directory of user `ide`. Call this script `all.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.

10. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with e or k. The file you create should be named `letters_sbin_ek.txt`.
11. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
12. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `.bak` suffix.
13. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
14. Stop the `sshd` service.
15. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Stop the `apache` service.
3. Copy the file `/etc/mime.types` to the home directory of user `ide`. The user `ide` must own the copied file.
4. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
5. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `do2003`.
6. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
7. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
8. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.

9. *Create a bash script in `~/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
10. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
11. Remove directory `/var/trash` and all its contents.
12. Create a new user `hum` with password `hum`.
13. In the home directory of the user `hum`, create a file named `test.txt` owned by user `hum`.
14. Create a file in `~/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `e` or `k`. The file you create should be named `list_usr_ek.cmd`.
15. Run the command `dpkg -l` and store the output in a file called `result1` in `~/output`.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Copy the file `/etc/nanorc` to `/tmp/ide`. The user `ide` must own the copied file.
3. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
4. Stop the `sshd` service.
5. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
6. Remove directory `/etc/trash` and all it’s contents.
7. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.
8. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `do2003`.
9. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `s` or `t`. The file you create should be named `cmd_bin_st.list`.

10. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
11. Create a new user `hum` with password `hum`.
12. In the home directory of the user `hum`, create a file named `file` owned by user `hum`.
13. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
14. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
15. *Create a bash script in `/tmp/scripts`. Call this script `every.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.

Good luck!

NAME:

PERSONAL NUMBER: -

Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
2. There are 15 tasks, you need to do 12 of them correctly in order to pass this exam.
3. Questions marked with * are more difficult, make sure you don’t spend too much time on them before doing the rest.
4. When you are ready, call a teacher. He will check your work, and if there are problems, you will have an extra 5 minutes (as long as you still fit within your 1 hour!) to fix them before the final grading.
5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Copy the file `/etc/wgetrc` to `~/backup`. The user `ide` must own the copied file.
3. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
4. Remove directory `/var/trash` and all it’s contents.
5. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
7. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
8. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `e` or `k`. The file you create should be named `cmd_bin_ek.list`.

9. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
10. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
11. *Create a bash script in `~/scripts`. Call this script `filename.sh`. This script should check if it's first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
12. Create a new user `set` with password `set`.
13. In the home directory of the user `set`, create a file named `test.txt` owned by user `set`.
14. Stop the `sshd` service.
15. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Remove directory `/etc/trash` and all it’s contents.
3. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `exam`.
4. Create a new user `hum` with password `hum`.
5. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.
6. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
7. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
8. Copy the file `/etc/wgetrc` to the home directory of user `ide`. The user `ide` must own the copied file.
9. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

10. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.
11. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
12. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
13. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `list_usr_df.cmd`.
14. Stop the `vsftpd` service.
15. *Create a bash script in the home directory of user `ide`. Call this script `nr.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `lspci -vv` and store the output in a file called `output.lst` in `/tmp/res`.
3. Remove directory `/etc/trash` and all it’s contents.
4. Change permissions of the `.bashrc` file to `rwrxwrx--`
5. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `s` or `t`. The file you create should be named `list_bin_st.cmd`.
6. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.
7. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
8. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.

9. Create a new user `lut` with password `lut`.
10. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
11. Copy the file `/etc/mime.types` to the home directory of user `ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
14. *Create a bash script in `/tmp/scripts`. Call this script `every.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
15. Stop the `apache` service.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
3. Create a new user `set` with password `set`.
4. In the home directory of the user `set`, create a file named `file` owned by user `set`.
5. Stop the `apache` service.
6. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
7. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
8. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
9. Run the command `dpkg -l` and store the output in a file called `result1` in the home directory of user `ide`.

10. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/bin` that end with `s` or `t`. The file you create should be named `letters_bin_st.txt`.
11. Copy the file `/etc/services` to the home directory of user `ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. *Create a bash script in the home directory of user `ide`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
14. Remove directory `/etc/trash` and all its contents.
15. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Stop the `apache` service.
3. Copy the file `/etc/mime.types` to `/tmp/ide`. The user `ide` must own the copied file.
4. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
5. Run the command `lspci -vv` and store the output in a file called `output.lst` in the home directory of user `ide`.
6. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
7. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
8. Create a new user `set` with password `set`.
9. In the home directory of the user `set`, create a file named `test.txt` owned by user `set`.

10. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.
11. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
12. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `d` or `f`. The file you create should be named `list_sbin_df.cmd`.
13. Remove directory `/etc/trash` and all its contents.
14. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
15. *Create a bash script in `~/scripts`. Call this script `filename.sh`. This script should check if its first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.

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4. Create a new user `set` with password `set`.
5. In the home directory of the user `set`, create a file named `file` owned by user `set`.
6. Remove directory `/var/trash` and all it’s contents.
7. Stop the `apache` service.
8. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
9. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.

10. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
11. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
12. *Create a bash script in `/tmp/scripts`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
13. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `~/output`.
14. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `cmd_usr_df.list`.
15. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.

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Questions

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2. Create a new user `hum` with password `hum`.
3. In the home directory of the user `hum`, create a file named `test.txt` owned by user `hum`.
4. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `-backup` suffix.
5. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
6. Copy the file `/etc/services` to `~/backup`. The user `ide` must own the copied file.
7. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`

8. *Create a bash script in `~/scripts`. Call this script `filename.sh`. This script should check if it's first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
9. Remove directory `/etc/trash` and all it's contents.
10. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.
11. Create a file in `~/scripts` that contains a list of all filenames in the directory `/bin` that end with `e` or `k`. The file you create should be named `letters_bin_ek.txt`.
12. Stop the `vsftpd` service.
13. Run the command `lspci -vv` and store the output in a file called `output.lst` in `/tmp/res`.
14. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
15. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`

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Questions

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2. *Create a bash script in `~/scripts`. Call this script `filename.sh`. This script should check if it’s first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
3. Stop the `apache` service.
4. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
5. Remove directory `/var/trash` and all it’s contents.
6. Change permissions of the `.bashrc` file to `rwrxwrx--`
7. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.

8. *Open up the original file in a text editor. You need to change the port number to 9999. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
9. Copy the file `/etc/mime.types` to `~/backup`. The user `ide` must own the copied file.
10. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
11. Run the command `dpkg -l` and store the output in a file called `result1` in the home directory of user `ide`.
12. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
13. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/sbin` that end with `d` or `f`. The file you create should be named `cmd_sbin_df.list`.
14. Create a new user `lut` with password `lut`.
15. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
3. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
4. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
5. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
7. Stop the `sshd` service.
8. Create a new user `lut` with password `lut`.
9. In the home directory of the user `lut`, create a file named `test.txt` owned by user `lut`.

10. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
11. Copy the file `/etc/wgetrc` to `/tmp/ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Remove directory `/etc/trash` and all its contents.
14. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/bin` that end with `s` or `t`. The file you create should be named `cmd_bin_st.list`.
15. *Create a bash script in the home directory of user `ide`. Call this script `filename.sh`. This script should check if its first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a new user `lut` with password `lut`.
3. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
4. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.
5. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
7. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
8. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.

9. Remove directory `/var/trash` and all its contents.
10. Stop the `sshd` service.
11. *Create a bash script in `/tmp/scripts`. Call this script `one.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
12. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.
13. Copy the file `/etc/mime.types` to the home directory of user `ide`. The user `ide` must own the copied file.
14. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
15. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/bin` that end with `d` or `f`. The file you create should be named `list_bin_df.cmd`.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Copy the file `/etc/nanorc` to `~/backup`. The user `ide` must own the copied file.
3. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
4. Create a new user `hum` with password `hum`.
5. In the home directory of the user `hum`, create a file named `test.txt` owned by user `hum`.
6. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `-backup` suffix.
7. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
8. Rename the `Merry$Christmas` file that exists in your home directory to `Merry Christmas`.

9. *Create a bash script in `/tmp/scripts`. Call this script `all.sh`. For each command line argument, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is that command line argument. Run the script as a background task, giving `/usr` as an argument.
10. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
11. Create a file in the home directory of user `ide` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `cmd_sbin_ek.list`.
12. Stop the `vsftpd` service.
13. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
14. Remove directory `/var/trash` and all its contents.
15. Run the command `dpkg -l` and store the output in a file called `result1` in `~/output`.

Good luck!

NAME:

PERSONAL NUMBER: -

Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
2. There are 15 tasks, you need to do 12 of them correctly in order to pass this exam.
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4. When you are ready, call a teacher. He will check your work, and if there are problems, you will have an extra 5 minutes (as long as you still fit within your 1 hour!) to fix them before the final grading.
5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Change permissions of the `.bashrc` file to `rwrxwrx--`
3. *Create a bash script in `~/scripts`. Call this script `fname.sh`. This script should check if it’s first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
4. Remove directory `/var/trash` and all it’s contents.
5. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `letters_sbin_ek.txt`.
6. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `_copy` suffix.
7. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.

8. Run the command `lspci -vv` and store the output in a file called `output.lst` in `/tmp/res`.
9. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
10. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
11. Copy the file `/etc/nanorc` to `~/backup`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. Create a new user `lut` with password `lut`.
14. In the home directory of the user `lut`, create a file named `info` owned by user `lut`.
15. Stop the `vsftpd` service.

Good luck!

NAME:

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Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
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5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `exam`.
3. Create a new user `hum` with password `hum`.
4. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.
5. Stop the `sshd` service.
6. Copy the file `/etc/nanorc` to the home directory of user `ide`. The user `ide` must own the copied file.
7. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
8. Run the command `ls -la /etc/` and store the output in a file called `list.txt` in `/tmp/res`.
9. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`

10. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
11. *Create a bash script in `~/scripts`. Call this script `filename.sh`. This script should check if it's first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.
12. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `.bak` suffix.
13. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
14. Create a file in `~/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `e` or `k`. The file you create should be named `list_usr_ek.cmd`.
15. Remove directory `/var/trash` and all it's contents.

Good luck!

NAME:

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Basic Rules

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5. Computers are pedantic, so make sure you pay attention to details: a spelling error *can* be the difference between passing and failing!

Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Copy the file `/etc/services` to `/tmp/ide`. The user `ide` must own the copied file.
3. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
4. Run the command `lspci -vv` and store the output in a file called `output.lst` in the home directory of user `ide`.
5. *Create a bash script in `~/scripts`. Call this script `cmd.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
6. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/tmp/backup`. The name of the backup must be the original name plus the `_copy` suffix.

7. *Open up the original file in a text editor. You need to change the port number to 8888. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
8. Stop the `sshd` service.
9. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
10. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
11. Remove directory `/etc/trash` and all its contents.
12. Create a new user `set` with password `set`.
13. In the home directory of the user `set`, create a file named `info` owned by user `set`.
14. Create a file in `~/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `e` or `k`. The file you create should be named `cmd_usr_ek.list`.
15. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `myalias`.

Good luck!

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Basic Rules

1. You have 1 hour, including preparation (log in, start the virtual machine, etc.) and “post-paration” (grading and log out).
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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a new user `hum` with password `hum`.
3. In the home directory of the user `hum`, create a file named `test.txt` owned by user `hum`.
4. Copy the file `/etc/services` to the home directory of user `ide`. The user `ide` must own the copied file.
5. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
6. Remove directory `/etc/trash` and all it’s contents.
7. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
8. There is POP3 server called `dovecot` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `_copy` suffix.

9. *Open up the original file in a text editor. You need to change the port number to 8888. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
10. Rename the Merry\$Christmas file that exists in your home directory to Merry Christmas.
11. *Create a bash script in the home directory of user ide. Call this script all.sh. For each command line argument, this script should execute the command tar -czf /tmp/bak.tgz X, where X is that command line argument. Run the script as a background task, giving /usr as an argument.
12. Change permissions of the .bashrc file to rwxrwxr--
13. Run the command ls -la /etc/ and store the output in a file called list.txt in the home directory of user ide.
14. Stop the sshd service.
15. Create a file in the home directory of user ide that contains a list of all filenames in the directory /bin that end with e or k. The file you create should be named letters_bin_ek.txt.

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a new user `set` with password `set`.
3. In the home directory of the user `set`, create a file named `file` owned by user `set`.
4. Run the command `dpkg -l` and store the output in a file called `result1` in `/tmp/res`.
5. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
6. Copy the file `/etc/services` to `/tmp/ide`. The user `ide` must own the copied file.
7. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
8. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory

9. *Create a bash script in `~/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
10. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
11. Create a file in `~/scripts` that contains a list of all filenames in the directory `/sbin` that end with `d` or `f`. The file you create should be named `list_sbin_df.cmd`.
12. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `-backup` suffix.
13. *Open up the original file in a text editor. You need to change the port number to `9999`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
14. Stop the `vsftpd` service.
15. Remove directory `/var/trash` and all its contents.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
3. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `-backup` suffix.
4. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
5. Create a new user `set` with password `set`.
6. In the home directory of the user `set`, create a file named `file` owned by user `set`.
7. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
8. Remove directory `/etc/trash` and all it's contents.

9. Copy the file `/etc/nanorc` to the home directory of user `ide`. The user `ide` must own the copied file.
10. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
11. *Create a bash script in `/tmp/scripts`. Call this script `gui.sh`. This script should check whether the value of first command line argument is `gui`. If it is, the script should exit with a message *command line is better!* Otherwise, this script should execute the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
12. Create an alias that will display list of mounted filesystems sorted alphabetically (use the `mount` command). Call this alias `do2003`.
13. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `d` or `f`. The file you create should be named `letters_usr_df.txt`.
14. Run the command `dpkg -l` and store the output in a file called `result1` in the home directory of user `ide`.
15. Stop the `apache` service.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Change permissions of the `/etc/ssh/sshd_config` file to `r-xrwx---`
3. Create a new user `set` with password `set`.
4. In the home directory of the user `set`, create a file named `test.txt` owned by user `set`.
5. Rename the `Merry*Christmas` file that exists in your home directory to `Merry Christmas`.
6. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `myalias`.
7. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/sbin` that end with `e` or `k`. The file you create should be named `list_sbin_ek.cmd`.
8. *Create a bash script in `~/scripts`. Call this script `nr.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.

9. Stop the `apache` service.
10. Remove directory `/etc/trash` and all its contents.
11. Copy the file `/etc/nanorc` to `/tmp/ide`. The user `ide` must own the copied file.
12. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
13. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in the same folder. The name of the backup must be the original name plus the `.bak` suffix.
14. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
15. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Run the command `lspci -vv` and store the output in a file called `output.lst` in the home directory of user `ide`.
3. Remove directory `/etc/trash` and all it’s contents.
4. Copy the file `/etc/mime.types` to `~/backup`. The user `ide` must own the copied file.
5. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
6. There is dictionary server called `dictd` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `-backup` suffix.
7. *Open up the original file in a text editor. You need to change the port number to `7777`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
8. Stop the `apache` service.

9. Create, in your home directory, a symbolic link called `symlink` pointing to `/tmp`
10. Create a new user `hum` with password `hum`.
11. In the home directory of the user `hum`, create a file named `info` owned by user `hum`.
12. Create an alias that will display the first 5 mounted filesystems (use the `mount` command). Call this alias `do2003`.
13. Create a file in `~/scripts` that contains a list of all filenames in the directory `/bin` that end with `d` or `f`. The file you create should be named `cmd_bin_df.list`.
14. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
15. *Create a bash script in the home directory of user `ide`. Call this script `fname.sh`. This script should check if it's first command line argument is a name of an existing file. If it is, the script should exit with an error message. Otherwise, it should start the command `tar -czf X /usr`, where `X` is the first command line argument. Run the script as a background task, giving `/tmp/bak.tgz` as an argument.

Good luck!

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Questions

1. Log on to the system using the user `ide` and password `ide`.
2. Create a file in `/tmp/scripts` that contains a list of all filenames in the directory `/usr/bin` that end with `s` or `t`. The file you create should be named `letters_usr_st.txt`.
3. Remove directory `/var/trash` and all it’s contents.
4. Create an alias that will display the last 5 mounted filesystems (use the `mount` command). Call this alias `exam`.
5. There is irc server called `irc-hybrid` installed on the virtual machine. Find the main configuration file for this server (hint: it contains the name of the server) and create a backup of that file in `/backup`. The name of the backup must be the original name plus the `.bak` suffix.
6. *Open up the original file in a text editor. You need to change the port number to `8888`. Find the appropriate place and perform the modification. You must not change ownership of the file. Restart the server.
7. Run the command `lspci -vv` and store the output in a file called `output.lst` in `~/output`.

8. *Create a bash script in the home directory of user `ide`. Call this script `nr.sh`. If this script was called with more than one argument, it should exit with an error message. Otherwise, it should start the command `tar -czf /tmp/bak.tgz X`, where `X` is the first command line argument. Run the script as a background task, giving `/usr` as an argument.
9. Create, in directory `/tmp`, a symbolic link called `symlink`, pointing to your home directory
10. Copy the file `/etc/wgetrc` to `/tmp/ide`. The user `ide` must own the copied file.
11. Open up the copy in a text editor and add the following line at the very bottom: `# THIS IS A COPY #`
12. Create a new user `lut` with password `lut`.
13. In the home directory of the user `lut`, create a file named `file` owned by user `lut`.
14. Rename the `Merry&Christmas` file that exists in your home directory to `Merry Christmas`.
15. Stop the `vsftpd` service.

Good luck!