

### Installing a web server on Ubuntu Server

Copy the folder "Ubuntu 10.10 Server (pass ide)" from the folder D:\VMW\_Template to D:\VMW

Start the virtual machine by double clicking on the VMware virtual machine configuration file named Ubuntu. When asked if you moved or copied the folder, select **I moved it** and continue

Use the username **ide** and the password **ide** to logon to the machine

Type in **sudo apt-get update** and press enter.

### Installing apache

Type **sudo apt-get install apache2** in the terminal and type in j when asked if you wish to proceed

Now the apache webserver should be installed without a problem. Type in **ifconfig** in the terminal to find your ip adress, **write down this adress.**

Open a web browser (from the local machine, not in the virtual one) and enter the ip adress, you should be greeted with a page that says "It works".

### Installing PHP

Type in **sudo apt-get install php5 libapache2-mod-php5**

Once it is installed type in **sudo /etc/init.d/apache2 restart** in order for PHP to work and be compatible with apache.

To try it out we'll create simple php page. Type in in **sudo nano /var/www/index.php**

Enter in this line in the program that opens : **<?php phpinfo(); ?>** and press **ctrl + o** and then press enter to save the file. Exit the program with **ctrl + x**.

Go back to the web browser window and type **http://<youripadresshere>/index.php**

If everything works as it should you should be met with information about the webserver and the php installation.

### *Installing MySQL and phpMyAdmin*

Type in **sudo apt-get install mysql-server** to start the installation.

An installation window will appear and ask you to select a password, type in **ide** as root password and **ide** once more to confirm.

Install phpMyAdmin by typing in the following :

**sudo apt-get install libapache2-mod-auth-mysql php5-mysql phpmyadmin**

Press **space** to select **apache2** in the program that appears, then press tab to select OK and press enter.

Select <Ja> on the next page that comes up and then type in ide in all the following dialogs.

Restart apache once again with the command **sudo /etc/init.d/apache2 restart** , then open the web browser and navigate to <http://<youripadresshere>/phpmyadmin/>  
You should be able to login with the username **root** and the password **ide**.  
Once this is complete show your work to the lab assistant, then close down and remove the virtual machine.

### **Installing a web server on Windows Server 2008**

Copy the folder “Websystem(pwd=ide)” from D:\VMW\_Template to D:\VMW. Open the Websystem folder and **remove** all the files with the filetype **.lck**.

Start the virtual machine by double clicking on the Vmware virtual machine configuration file, select **I copied it** when asked.

The machine should logon automatically, if it doesn't, login as **Administrator** with the password **ide**.

### **Installing and configuring IIS with ASP.NET**

The initial configuration tasks window should appear when you've logged on.

Under bulletpoint 3 select **Add roles**, click next on the window that appears and then select **Web Server (IIS)**. Click on **Add Required Features** in the popup window and then click next.

The Web Server (IIS) configuration appears, click next, and the role services configuration comes up. Click and **mark ASP.NET under Application Development**, click **Add Required Role Services** in the popup, then click next and after that **Install**.

**Open a web browser** in the virtual machine and go to **http://localhost/** , you should see a page that says IIS7.

### **Adding content and testing**

Open up notepad and copy paste the supplied code on page X of this laboration into the document, go to **File>Save as** and save it as **index.aspx** on the desktop. Don't forget to change the the Save as type list to All files before clicking save.

**(Optional)** If you have and ASP.NET file of your own you can use this instead.

Open the folder **C:\inetpub\wwwroot\** and move the file from the desktop to this folder.

Open up the browser again and go to <http://localhost/index.aspx> , it should work.

Show your work to the lab assistant, then close down and remove the virtual machine.

**Code for index.aspx**

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html>
<head>
<title>Web System Fundamentals</title>
<script runat="server" language="VB">
  Sub Page_Load(sender As Object, e As EventArgs)
    timeLabel.Text = DateTime.Now.ToString()
  End Sub
</script>
</head>
<body>
<p>Web system fundamentals</p>
<p>The current time is :
  <asp:Label runat="server" id="timeLabel" /></p>
</body>
</html>
```