

# ***Packet Tracer command list 2012***

## ***Radius Authentication default login setup***

```
aaa new-model
aaa authentication login default group radius
radius-server host <IP> auth-port 1645 key Cisco
```

## ***SSH***

```
<set hostname>
ip domain-name cisco.com
crypto key generate rsa
ip ssh version 2
line vty 0 4
transport input ssh
SSH from host command line: ssh -l <username> <IP address>
```

## ***Site-to-site VPN***

```
crypto isakmp enable
crypto isakmp policy 10
encryption aes 256
authentication pre-share
group 5
lifetime 3600
```

```
crypto isakmp key VPNKEY address <outside public IP of remote site>
```

```
crypto ipsec transform-set MYTRANS esp-aes 256 esp-sha-hmac
```

```
crypto map MYMAP 1 ipsec-isakmp
set peer <outside public IP of remote site>
set transform-set MYTRANS
match address AAA
```

```
ip access-list extended AAA
permit ip <source network> <source wildcard mask> <destination network> <destination wildcard mask>
```

## ***troubleshoot:***

```
show crypto isakmp sa
show crypto ipsec sa
```

### ***CBAC (inspect) ICMP example***

Create block for incoming traffic

```
ip access-list extended lockout  
deny icmp any any
```

Apply to outer interface, inbound

```
interface fa0/x  
ip access-group lockout in
```

Create inspection rule to allow ICMP requests from the inside

```
ip inspect name ICMP icmp
```

Apply to inner interface, inbound or outbound depending on situation

```
interface fa0/x  
ip inspect ICMP in
```

Debug inspected ICMP traffic

```
debug ip inspect protocol icmp
```

### ***NTP***

```
ntp server <NTP Server IP>  
ntp authentication-key <x> md5 <password>  
ntp update-calendar  
ntp authenticate  
ntp trusted-key
```

### ***Syslog***

```
logging <Syslog Server IP>  
logging trap <trap type>  
logging on  
logging userinfo  
logging console  
logging buffered
```

### ***Passwords***

```
enable password cisco  
enable secret cisco (encrypted)  
service password-encryption (global)  
line con 0 (console)  
password cisco  
line vty 0 4 (vty connections)  
password cisco
```

***Local authentication***

```
username user password cisco  
line vty 0 4  
login local
```

***Layer 2 security***

```
storm-control  
switchport port-security  
switchport port-security mac-address  
switchport port-security maximum  
switchport port-security violation  
switchport nonegotiate  
  
switchport mode access  
switchport mode trunk
```