



# PC4(Configure IP ACLs to Mitigate Attacks and Configuring IPv6 ACLs (Part 1,2))

**(Part 1 - Verify connectivity among devices before firewall configuration-RIP and ping pc-server,server -pc to check )**

**(Part 2 – Secure Access to Routers**

**Set up the SSH protocol)**

**Enter the following commands in CLI mode of Router0:**

```
Router>enable
Router#configure terminal
Router(config)#ip domain-name ismail.com
Router(config)#hostname Router0
Router0(config)#
Router0(config)#crypto key generate rsa
Router0(config)#line vty 0 4
Router0(config-line)#transport input ssh
Router0(config-line)#login local
Router0(config-line)#exit
Router0(config)#username SSHadmin privilege 15 password ismail
Router0(config)#exit
Router0#
```

**Enter the following commands in CLI mode of Router1**

```
Router>enable
Router#configure terminal
Router(config)#ip domain-name ismail.com
Router(config)#hostname Router1
Router1(config)#
Router1(config)#crypto key generate rsa
Router1(config)#line vty 0 4
Router1(config-line)#transport input ssh
Router1(config-line)#login local
Router1(config-line)#exit
Router1(config)#username SSHadmin privilege 15 password ismail
Router1(config)#exit
```

### **Enter the following commands in CLI mode of Router2**

```
Router>enable
Router#configure terminal
Router(config)#ip domain-name ismail.com
Router(config)#hostname Router2
Router2(config)#
Router2(config)#crypto key generate rsa
Router2(config)#line vty 0 4
Router2(config-line)#transport input ssh
Router2(config-line)#login local
Router2(config-line)#exit
Router2(config)#username SSHadmin privilege 15 password ismail
Router2(config)#exit
```

### **(Create an ACL 10 to permit remote access to PC only**

### **Enter the following commands in CLI mode of all Routers)**

```
Router>enable
Router#configure terminal
Router(config)#access-list 10 permit host 192.168.4.2
Router(config)#line vty 0 4
Router(config-line)#access-class 10 in
```

**(Now we verify the remote access from PC using the following and find it to be successful)**

### **OUTPUT:**

Go to **PC0** AND Go to **command prompt** c:>\ssh -l SSHadmin 192.168.4.1 (Router2 ka IP address likhna hai)

**Password:cisco**

Go to **Server0** AND Go to **command prompt** c:>\ssh -l SSHadmin 192.168.1.1 (Router0 GE0/0 ka IP address likhna hai)

Go to **Server0** AND Go to **command prompt** c:>\ssh -l SSHadmin 192.168.2.2 (Router1 S0/1/0 ka IP address likhna hai)

Go to **Server0** AND Go to **command prompt** c:>\ssh -l SSHadmin 192.168.3.1 (Router1 S0/1/1 ka IP address likhna hai)

Go to **Server0** AND Go to **command prompt** c:>\ssh -l SSHadmin 192.168.4.1 (Router2 GE0/0 ka IP address likhna hai)