



P5(Configuring a Zone-Based Policy Firewall (ZPF) part 3,4 5)

Part 3: Create the Firewall Zones on Router1

Type the following commands in the CLI mode of Router1

```
Router>enable
Router#configure terminal
Router(config)#show version
Router#configure terminal
Router (config)#license boot module c1900 technology-package securityk9
ACCEPT? [yes/no]: y
Router(config)#exit
Router>enable
Router#reload
Router>enable
Router#show version
Router#
Router#configure terminal
Router(config)#zone security in-zone
Router(config-sec-zone)#exit
Router(config)#zone security out-zone
Router(config-sec-zone)#exit
Router(config)#access-list 101 permit ip
192.168.4.0 0.0.0.255 any Router(config)#classmap type inspect match-all in-map
Router(config-cmap)#match access-group 101
Router(config-cmap)#exit
Router(config)#policy-map type
inspect in-out Router(config-cmap)#class type inspect in
map Router(config-pmap-c)#inspect
Router(config-pmap-c)#exit
Router(config-pmap)#exit
Router(config)#
Router(config)#zone-pair security in-out-zone source in-zone destination out-zone
Router(config-sec-zone-pair)#service-policy type inspect in-out
```

```
Router(config-sec-zone-pair)#exit
Router(config)#
Router(config)#interface GigabitEthernet0/0
Router(config-if)#zone-member security in-zone
Router(config-if)#exit
Router(config)#
Router(config)#interface Serial0/1/1
Router(config-if)#zone-member security out-zone
Router(config-if)#exit
Router(config)#exit
Router#copy running-config startup-config
```

Part 4: Testing the Firewall Functionality (from in-zone to out-zone) by the following steps

Step 1: Pinging SERVER from PC (it will succeed)

PC0 me jaa kar **Command Prompt** per jaa kar type karna hai `c:\>ssh -l ismail 192.168.3.1`
(Router2 S0/1/1 ka IP Address likhna hai)

Password:cisco

PC0 me jaa kar **Command Prompt** per jaa kar type karna hai `c:\>ssh -l ismail 192.168.1.2`
(Server0 ka IP Address likhna hai)

Step 2: Start an SSH session from PC0 to Router2 S0/1/1/ IP Address likhna hai (192.168.3.1)

ON to the **PC0** GO to the **Commend Prompt** AND type to the `c:\>ssh -l ismail 192.168.3.1`
(Router2 S0/1/1/ IP Address likhna hai)

Password:cisco

Step 3: Type the following command in the CLI mode of Router1

`Router#show policy-map type inspect zone-pair sessions`

Step 4: We close the SSH connection and open the web browser and access the server address (192.168.1.2) and get the following

GO to the **PC0** ON to the **Web Browser** and write to the **URL** me jaa kar likhna hai
<http://192.168.1.2>
(Server ka IP Address likhna hai)

Part 5: Testing the Firewall Functionality (from out-zone to in-zone) by the following steps

Step 1: Ping PC0 from the SERVER (ip 192.168.4.2) (it will result in Failure)

(on karna hai Server0 ko or ping karna hai PC0 se 192.168.4.2)