

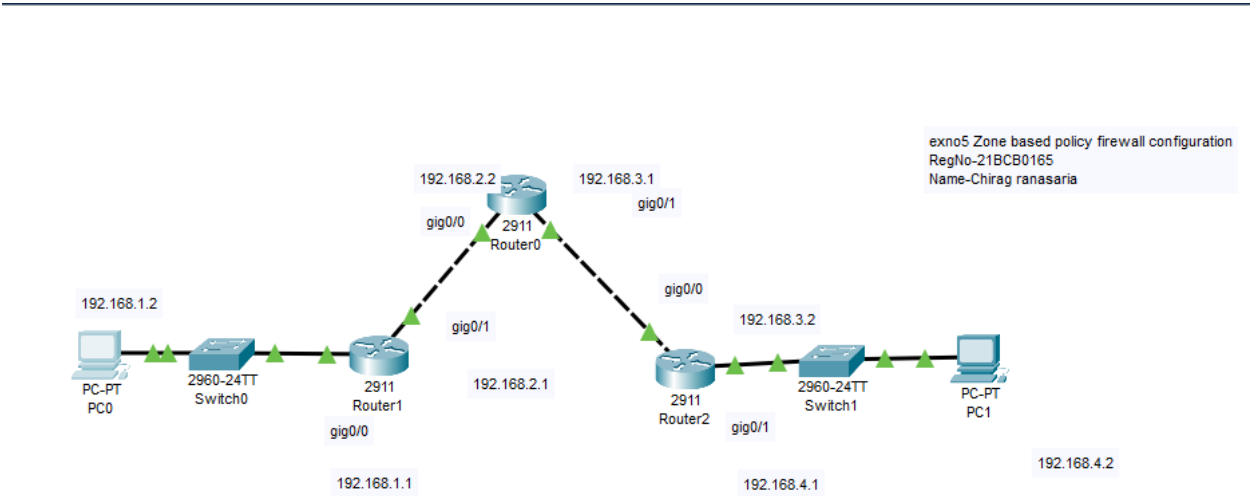
LAB DA-5

Zone Based Policy Firewall Configuration

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CIRCUIT DIAGRAM



Step 1:Enable Security

```
Router#
Router#show version
Cisco IOS Software, C2

Technology Package License Information for Module:'c2900'
```

Technology	Technology-package Current	Technology-package Type	Technology-package Next reboot
ipbase	ipbasek9	Permanent	ipbasek9
security	None	None	None
uc	None	None	None
data	None	None	None

```

securityk9 security technology
uck9 unified communication technology
Router(config)#license boot module c2900 technology-package securityk9
PLEASE READ THE FOLLOWING TERMS CAREFULLY. INSTALLING THE LICENSE OR

```

Technology Package License Information for Module:'c2900'

Technology	Technology-package Current	Technology-package Type	Technology-package Next reboot
ipbase	ipbasek9	Permanent	ipbasek9
security	None	None	securityk9
uc	None	None	None
data	None	None	None

## STEP2-Configure the zones

```

Router(config)#zone ?
    security Security zone
Router(config)#zone security chirag
Router(config-sec-zone)#exit
Router(config)#zone security mukesh
Router(config-sec-zone)#exit

```

## Step3-create an access-list

```

Router(config-if)#exit
Router(config)#access-list 101 permit ip 192.168.4.0 0.0.0.255 any

```

## Step4-create class map

```

Router(config)#access-list 101 permit ip 192.168.4.0 0.0.0.255 any
Router(config)#class-map type inspect match-all mamta
Router(config-cmap)#

```

```

Router(config)#class-map type inspect match-all m
Router(config-cmap)#match access-group 101

```

## Step5-specify firewall policies

```
Router(config-cmap)#exit
Router(config)#policy-map type inspect dilkush
Router(config-rman)#
```

```
Router(config)#policy-map type inspect dilkush
Router(config-pmap)#class type inspect mamta
```

```
Router(config)#zone-pair security in-to-out-zpair source chirag destination mukesh
```

```
Router(config-sec-zone-pair)#service-policy type inspect dilkush
```

STEP6-assign interfaces to the correct zones

```
Router#
Router#config t
Enter configuration commands, one per line. End with CNTL,
Router(config)#interface gigabitethernet0/01
Router(config-if)#exit
Router(config)#interface gigabitethernet0/1
Router(config-if)#zone-member security chirag
Router(config-if)#exit
Router(config)#interface gigabitethernet0/0
Router(config-if)#zone-member security mukesh
Router(config-if)#
```

BEFORE CONFIGURATION OF FIREWALL

```
Control-C
^C
C:\>ping 192.168.4.2

Pinging 192.168.4.2 with 32 bytes of data:

Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.4.2: bytes=32 time=7ms TTL=125
Reply from 192.168.4.2: bytes=32 time<1ms TTL=125
Reply from 192.168.4.2: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.4.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 7ms, Average = 2ms
```

AFTER CONFIGURATION OF FIREWALL

```
C:\>ping 192.168.4.2
```

```
Pinging 192.168.4.2 with 32 bytes of data:
```

```
Request timed out.
```

```
Request timed out.
```

```
Request timed out.
```

```
Request timed out.
```