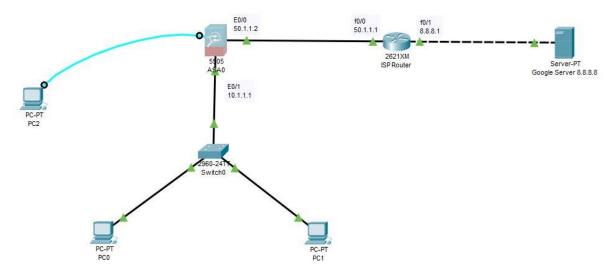
**Scenario 13: Configuring Organisational Hardware Firewall** 



# **ASA Firewall Configurations:**

• Go to the console of PC2 to access ASA Server using Terminal application.

en show running-config

By default DHCP is enabled we need to remove it

conf t
no dhcpd address 192.168.1.5-192.168.1.36 inside
exit
show running-config (Now there is no dhcp configuration).

Now we need to remove default VLAN IP address and set it to our environment

conf t
int vlan 1
ip add 10.1.1.1 255.0.0.0
no shut
nameif inside
security-level 100 (inside)
exit
int e0/1
switchport access vlan 1
no shut
exit
int vlan 2

```
ip add 50.1.1.2 255.0.0.0
no shut
nameif outside
security-level 0 (outside)
exit
int e0/0
switchport access vlan 2
exit
```

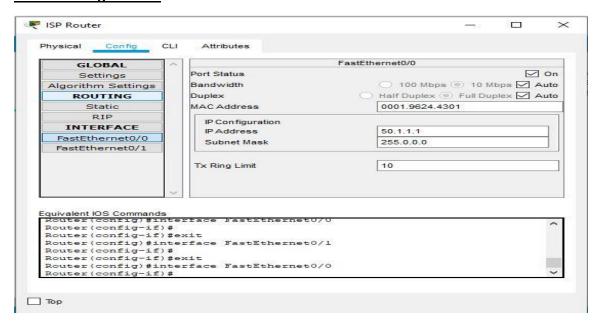
- Configuring DHCP and DNS ASA Server so that PC inside network go IP Adddress dynamically:
- Go to the console of PC2 to access ASA Server terminal using Terminal.

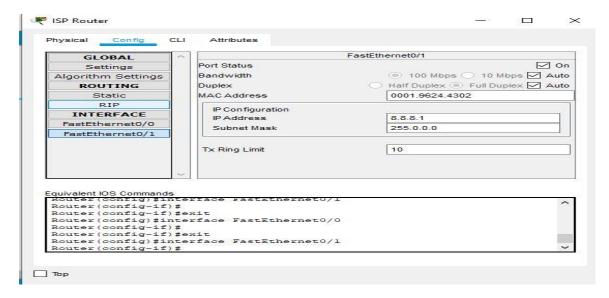
conf t
dhcpd address 10.1.1.10-10.1.1.30 inside
dhcpd dns 8.8.8.8 interface inside

• Configuring Default Route on ASA:

route outside 0.0.0.0 0.0.0.0 50.1.1.1

#### **Router Configurations:**





- Configuring OSPF Routeing Protocol:
- Go to CLI of router:

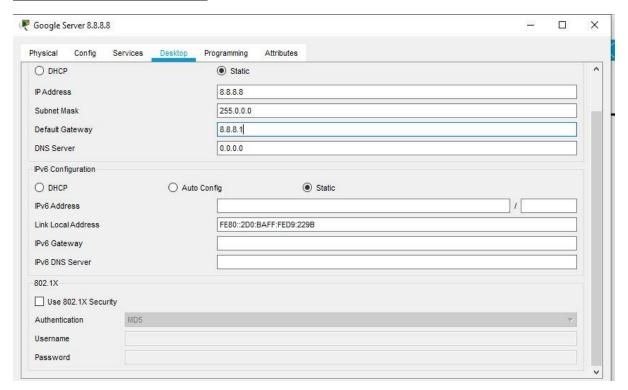
Conf t

router ospf 1

net 50.0.0.0 0.255.255.255 area 0

net 8.0.0.0 0.255.255.255 area 0

# **Google Server Configurations:**



## **Assigning IP address to PC0 and PC1:**

Enable DHCP on PC1 and PC2

#### **Create object Network & Enable NAT on ASA:**

- Before do this pass a packet from PCO to Google Server it should fail
- Go to the console of PC2 to access ASA Server using Terminal application.

```
object network ?
object network LAN (any Name)
subnet 10.0.0.0 255.0.0.0
nat ?
nat (inside, outside) dynamic interface
```

- Now pass a packet from PCO to Google Server it should fail
- Open CLI of BOTh PCS and ping -t 8.8.8.8 it should fail and minimize

#### **Create ACL on ASA:**

• Go to the console of PC2 to access ASA Server using Terminal application.

```
Conf t
access-list maherules (general name) ?
access-list maherules (general name) extended permit tcp
any any
access-list maherules (general name) extended permit icmp
any any
access-group maherules ?
access-group maherules in interface outside
```

(now check the CLI of both PCs we will see ping responses)

# On ASA terminal:

```
show nat
show xlate
```

• You should be able to see the NAP/PAT translations