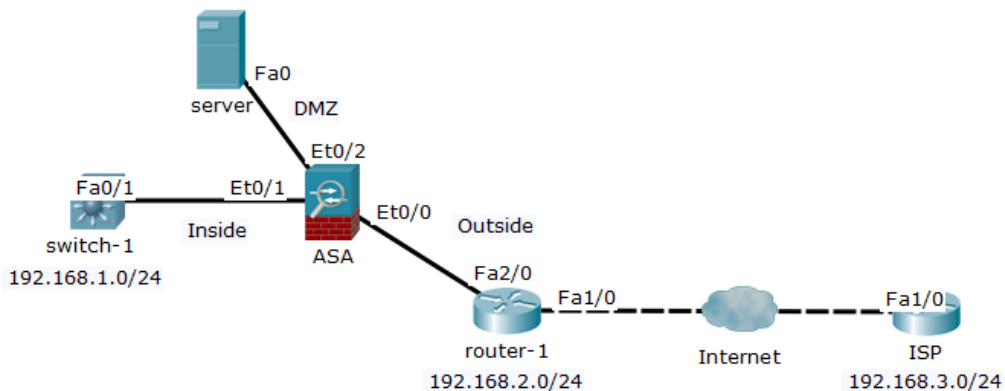


ASA 5505 Firewall

Lab Summary

Configure ASA 5505 Firewall with initial network connectivity.

Figure 1 Lab Topology



Lab Configuration

Start Packet Tracer File: **ASA Firewall**

ASA

Click on the ASA icon and select the *CLI* folder. Hit the <enter> key for user mode.

Step 1: Enter global configuration mode

```
ciscoasa> enable  
Password: hit <enter>  
ciscoasa# config t
```

Step 2: Configure a hostname for the firewall and enable local account authentication.

```
ciscoasa(config)# hostname ASA-5505  
ASA-5505(config)# enable password cisco  
ASA-5505(config)# username admin password ccnaexam
```

Step 3: Configure the inside private VLAN 1 interface.

```
ASA-5505(config)# interface Vlan 1  
ASA-5505(config-if)# nameif inside  
ASA-5505(config-if)# security-level 100
```

```
ASA-5505(config-if)# ip address 192.168.1.1 255.255.255.0  
ASA-5505(config-if)# no shut
```

Step 4: Configure the outside public VLAN 2 interface.

```
ASA-5505(config)# interface Vlan 2  
ASA-5505(config-if)# nameif outside  
ASA-5505(config-if)# security-level 0  
ASA-5505(config-if)# ip address 192.168.2.1 255.255.255.0  
ASA-5505(config-if)# no shut
```

Step 5: Configure the DMZ VLAN 100 interface.

```
ASA-5505(config)# interface Vlan 100  
ASA-5505(config-if)# no forward interface vlan 1  
ASA-5505(config-if)# nameif dmz  
ASA-5505(config-if)# security-level 50  
ASA-5505(config-if)# ip address 192.168.100.1 255.255.255.0  
ASA-5505(config-if)# no shut  
ASA-5505(config-if)# exit
```

Step 6: Assign Ethernet0/0 (outside) to VLAN 2 and enable.

```
ASA-5505(config)# interface Ethernet0/0  
ASA-5505(config-if)# switchport access vlan 2  
ASA-5505(config-if)# no shut
```

Step 7: Assign Ethernet0/1 (inside) to VLAN 1 and enable.

```
ASA-5505(config)# interface Ethernet0/1  
ASA-5505(config-if)# switchport access vlan 1  
ASA-5505(config-if)# no shut
```

Step 8: Assign Ethernet0/2 (DMZ) to VLAN 100 and enable.

```
ASA-5505(config-if)# interface Ethernet0/2  
ASA-5505(config-if)# switchport access vlan 100  
ASA-5505(config-if)# no shut
```

Step 9: Assign other Ethernet inside interfaces to a VLAN and enable for firewall redundancy and additional DMZ interconnects. (Optional).

```
ASA-5505(config-if)# interface Ethernet0/3  
ASA-5505(config-if)# switchport access vlan 1  
ASA-5505(config-if)# no shut
```

```
ASA-5505(config-if)# interface Ethernet0/4  
ASA-5505(config-if)# switchport access vlan 1  
ASA-5505(config-if)# no shut
```

```
ASA-5505(config-if)# interface Ethernet0/5  
ASA-5505(config-if)# switchport access vlan 1  
ASA-5505(config-if)# no shut
```

```
ASA-5505(config-if)# interface Ethernet0/6  
ASA-5505(config-if)# switchport access vlan 1  
ASA-5505(config-if)# no shut
```

```
ASA-5505(config-if)# interface Ethernet0/7  
ASA-5505(config-if)# switchport access vlan 1  
ASA-5505(config-if)# no shut
```

Step 10: Configure a default route to ISP router.

```
ASA-5505(config)# route outside 0.0.0.0 0.0.0.0 192.168.2.2
```

Verify Lab:

Verify there is network connectivity from L3-Switch to ASA firewall inside interface.

```
L3-Switch# ping 192.168.1.1 (yes)
```

Verify there is network connectivity from ASA firewall outside interface to ISP.

```
ASA-5505# ping 192.168.3.2 (yes)
```