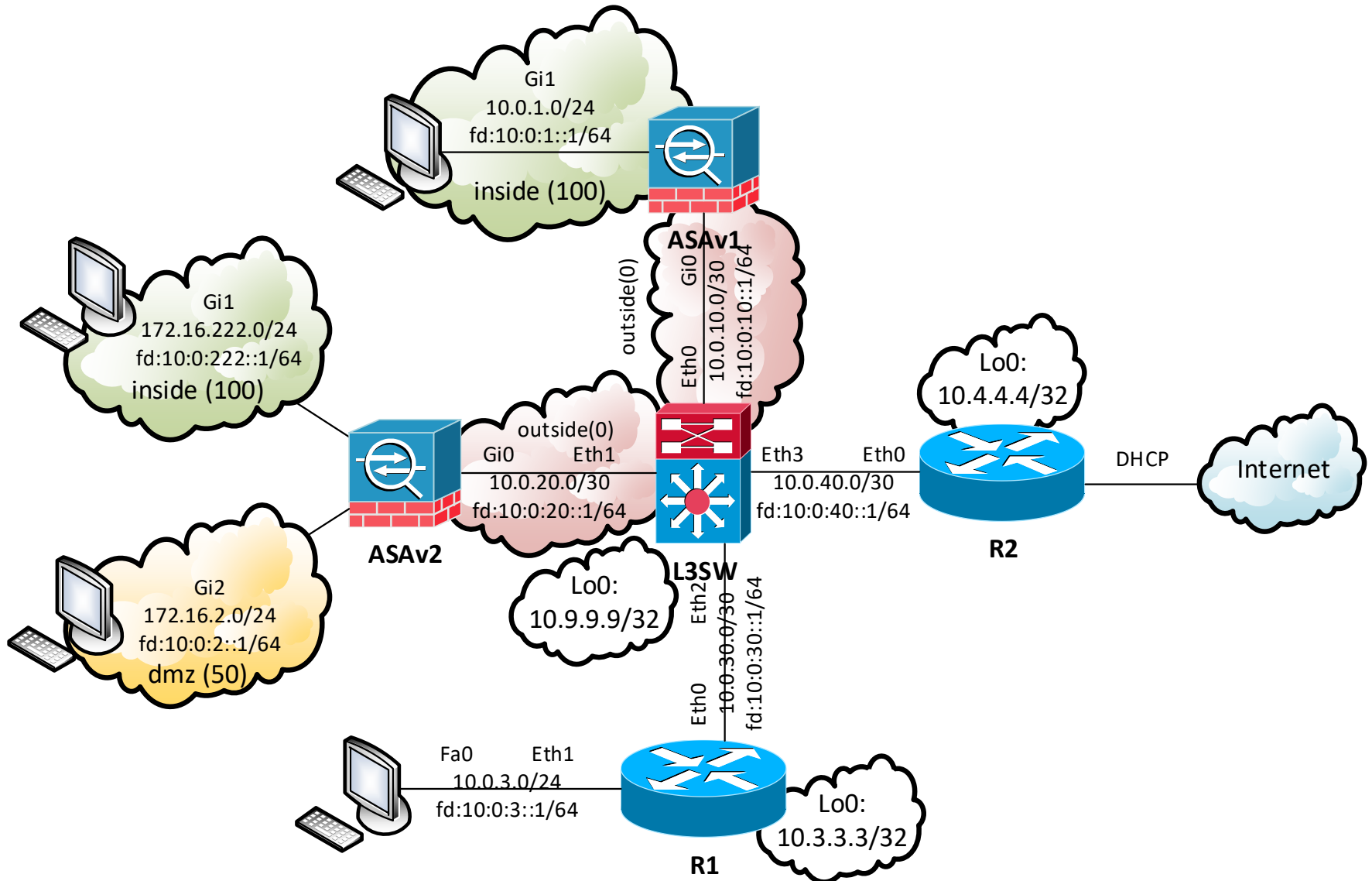


Adaptive Security Appliance

CCNA Security Labs 9

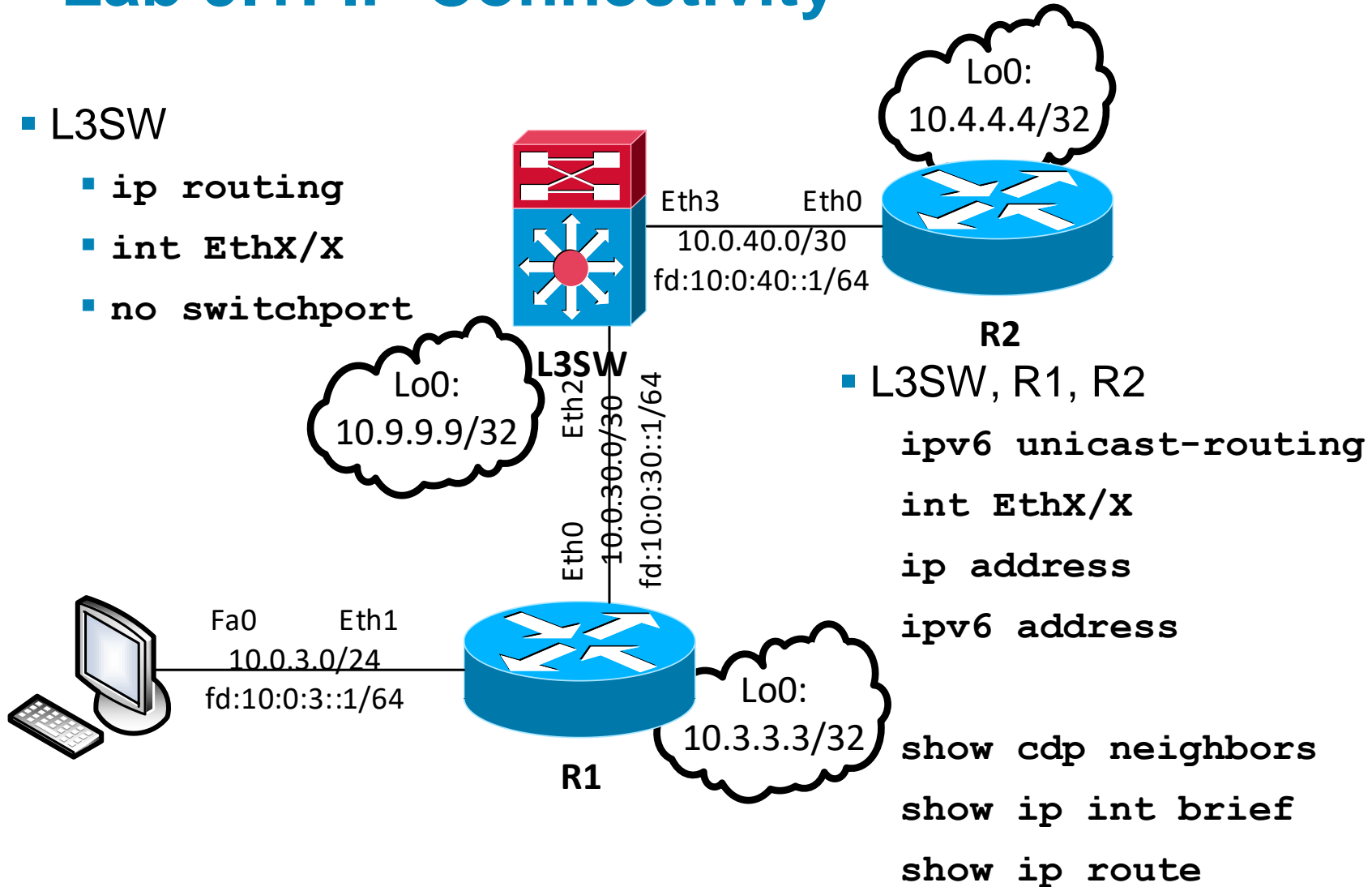
Lab 9.0: Topology



Lab 9.1: IP Connectivity

- L3SW

- ip routing
- int EthX/X
- no switchport



- L3SW, R1, R2

`ipv6 unicast-routing`

`int EthX/X`

`ip address`

`ipv6 address`

`show cdp neighbors`

`show ip int brief`

`show ip route`

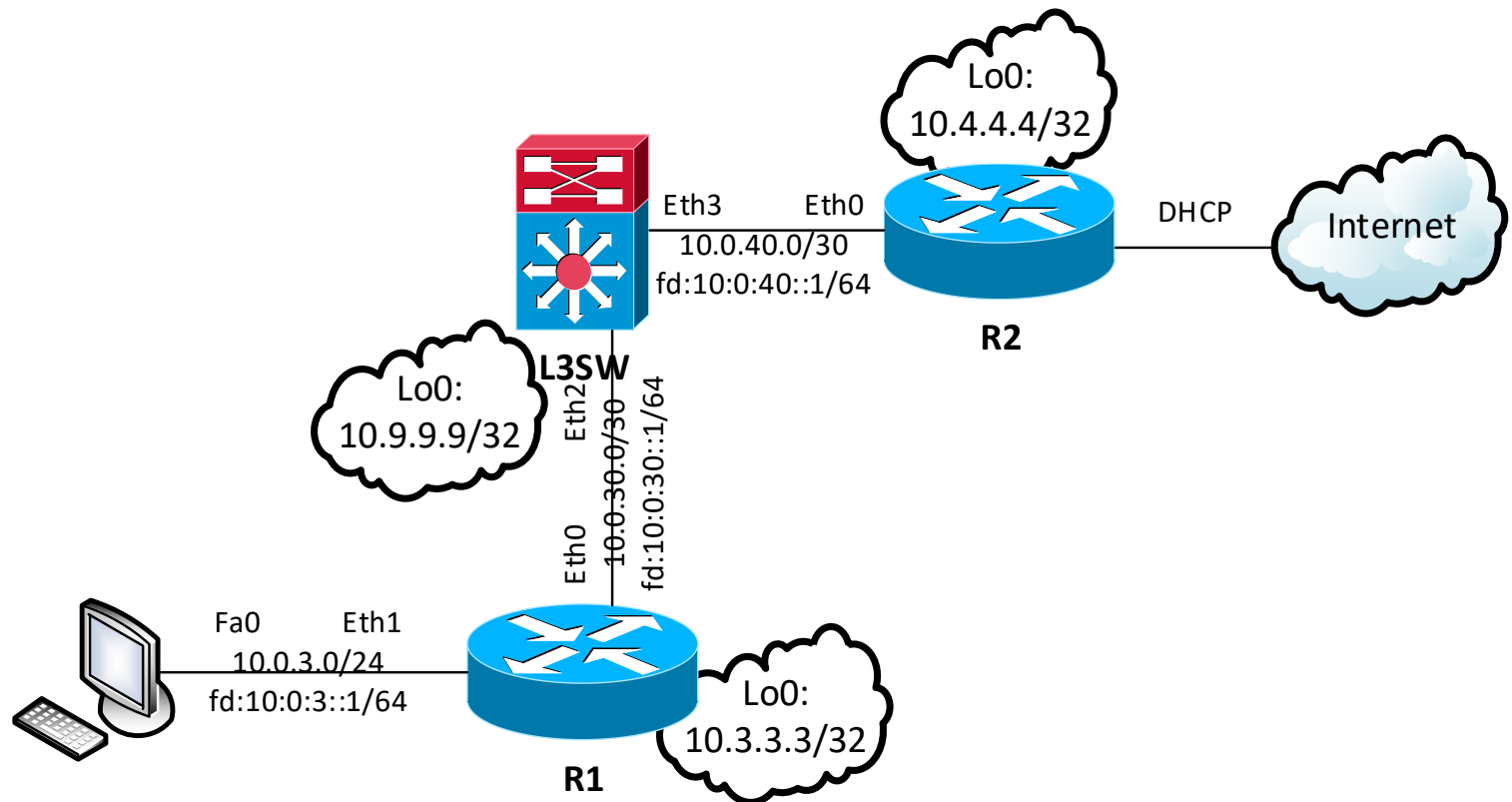
Lab 9.2: Static Routing

- L3SW, R1, R2

```
ip route 0.0.0.0 0.0.0.0 <L3SW_IP>
```

```
ipv6 route ::/0 <L3SW_IP>
```

ping



Lab 9.3: Management Access

- L3SW, R1, R2

```
no ip domain lookup
```

```
username admin privilege 15 password admin
```

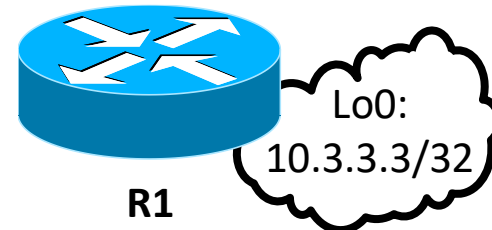
```
line vty 0 4
```

```
    logging synchronous
```

```
    login local
```

```
    transport input telnet
```

```
telnet <Lo0>
```



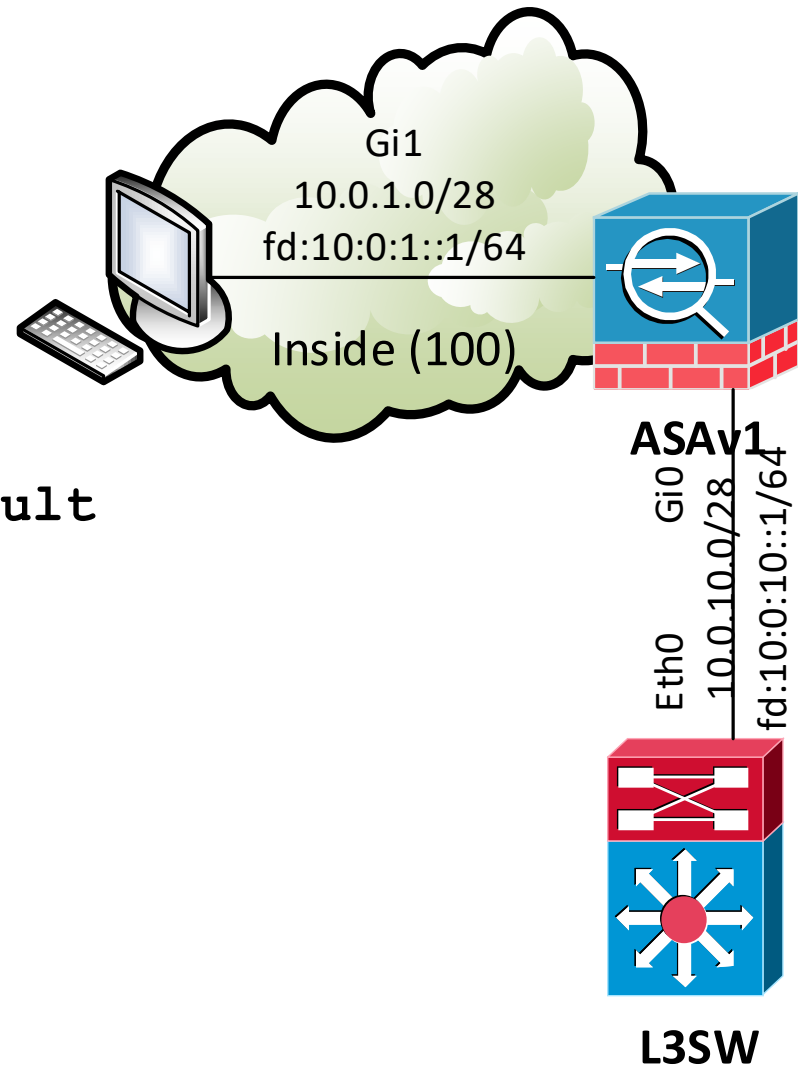
Lab 9.4: Initial Setup

■ ASA v1

- 1] configure factory-default
- 2] write erase
reload

```
hostname ASA v1
```

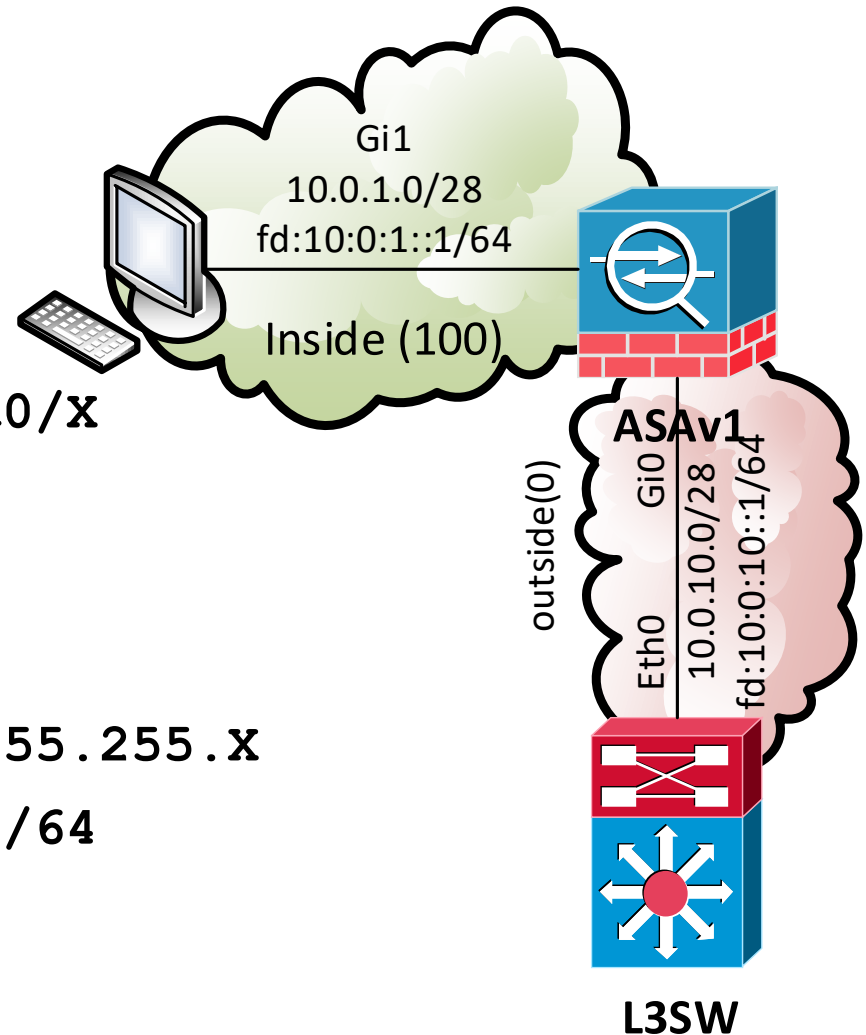
```
domain-name local.lab
```



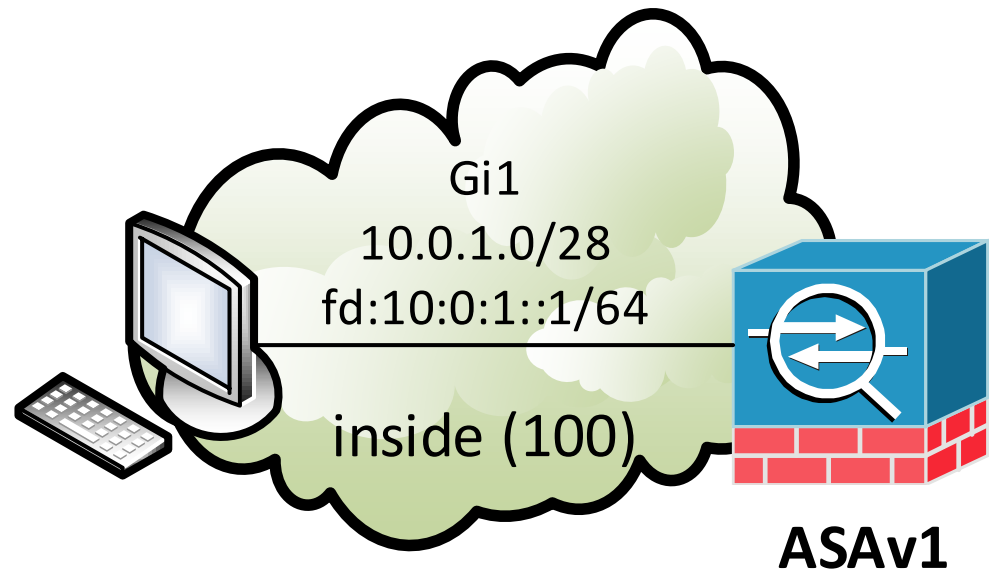
Lab 9.5: Interface

■ ASA v1

```
(conf)# interface gigabit0/X
(conf-if)#
nameif {inside|outside}
security-level {100|0}
ip address 10.X.X.X 255.255.255.X
ipv6 address fd:10:0:X::1/64
```



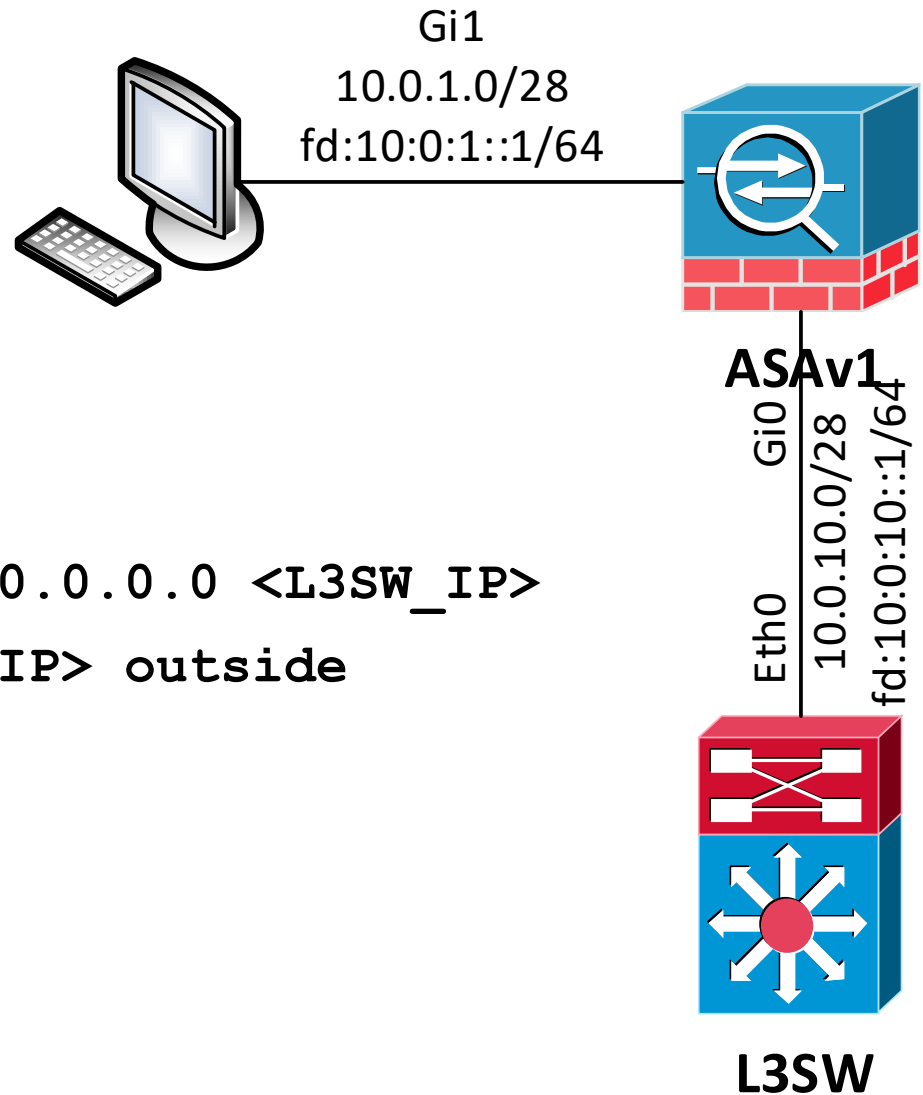
Lab 9.6: DHCP



■ ASA v1

```
(conf) #  
dhcpd address 10.0.1.100-10.0.1.199 inside  
dhcpd enable inside
```


Lab 9.5: Static Routing



■ ASA v1

```
(conf) #
```

```
route outside 0.0.0.0 0.0.0.0 <L3SW_IP>
```

```
ipv6 route ::/0 <L3SW_IP> outside
```

Lab 9.6a: Dynamic Routing

- L3SW, R1, R2

no ip route

no ipv6 route

```
router ospf 1
```

```
router-id <Lo0>
```

```
network 10.X.X.X Y.Y.Y.Y area 0
```

```
ipv6 router ospf 1
```

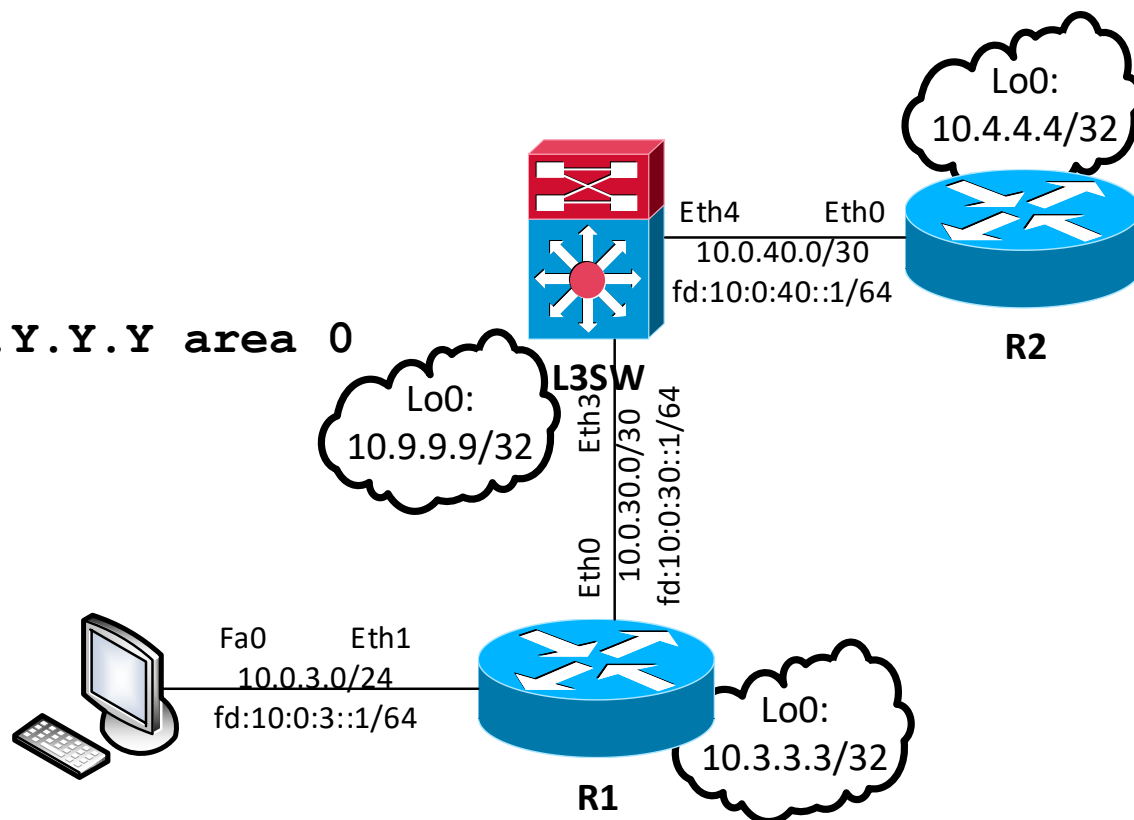
```
router-id <Lo0>
```

```
int EthX/X
```

```
ipv6 ospf 1 area 0
```

```
show ospf neighbors
```

```
show ip ospf int brief
```



Lab 9.6b: Dynamic Routing

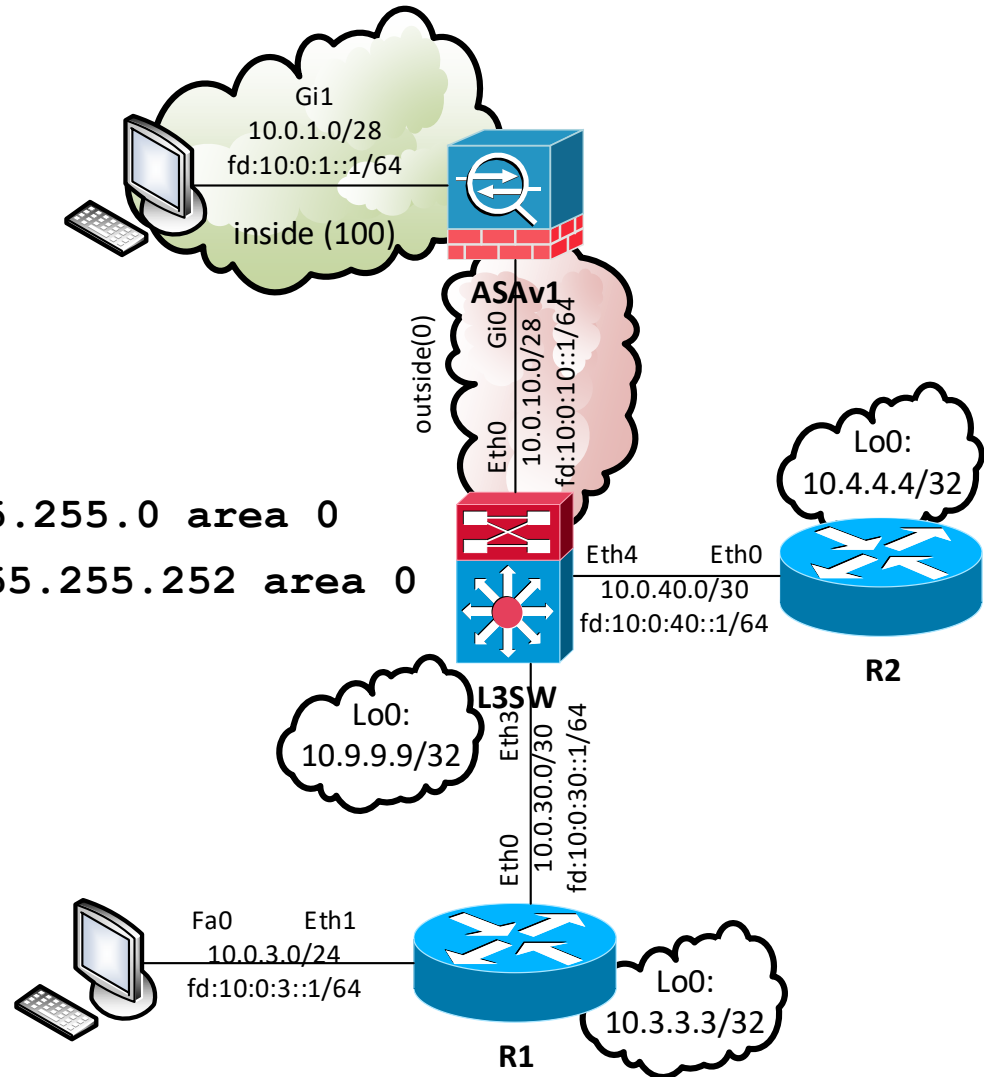
■ ASA v1

```
ipv6 router ospf 1
  router-id 10.1.1.1
int g0/0
ipv6 ospf 1 area 0
router ospf 1
  router-id 10.1.1.1
  network 10.0.1.0 255.255.255.0 area 0
  network 10.0.10.0 255.255.255.252 area 0
```

```
show route
```

```
show ipv6 route
```

```
ping
```



Lab 9.7a: Management Access

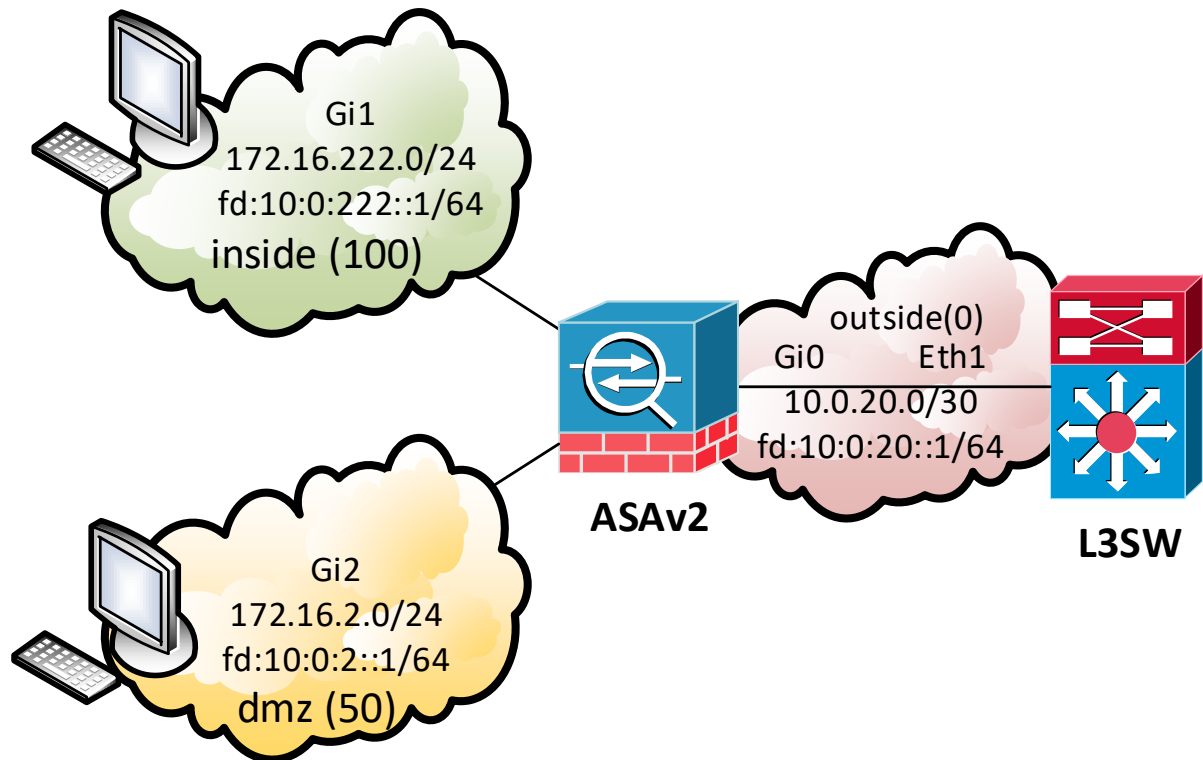
- ASA v1, ASA v2

```
username admin password admin privil 15
enable password cisco
crypto key generate rsa modulus 4096
aaa authentication ssh console LOCAL
ssh 0.0.0.0 0.0.0.0 outside
ssh version 2
ssh timeout 10
```

```
show ssh
```

```
# ssh -l <username> <IP>
```

Lab 9.7b: Enable ASDM



■ ASAv2

```
(conf) #
```

```
username admin password admin privil 15
```

```
enable password cisco
```

```
http server enable
```

```
http X.X.X.X 255.255.255.0 dmz
```