# Configuring IP Access List

This chapter describes how to configure IPv4 and IPv6 ACL.



# Configure IP Accesss List

To configure the ACL, use the following configuration at the IPv4 or IPv6 interface:

**configure**

**interface** *interface-type Rack/Slot/Instance/Port*

**ipv4 | ipv6 access-group** *access-list-name* **{ingress | egress}**

**commit**

**Example**

```
interface MgmtEth0/RP0/CPU0/0
ipv4 address 10.1.1.1 255.255.255.0
ipv6 address 1000::1/64
ipv4 access-group IPV4_ICMP_DENY ingress
ipv4 access-group IPV4_ROUTER_FWD_TELNET_TRAFFIC_DENY egress
ipv6 access-group IPV6_SSH_DENY ingress
ipv6 access-group IPV6_ROUTER_FWD_TELNET_TRAFFIC_DENY egress
```

### Sample Configuration for IPv4 Access Lists

```
ipv4 access-list IPV4_ICMP_DENY
10 deny icmp any any
20 permit ipv4 any any
!
ipv4 access-list IPV4_ROUTER_FWD_TELNET_TRAFFIC_DENY
10 deny tcp any any eq telnet
20 permit ipv4 any any
!
```

### Sample Configuration for IPv6 Access Lists

```
ipv6 access-list IPV6_SSH_DENY
10 deny tcp any any eq ssh
20 permit ipv6 any any
!
ipv6 access-list IPV6_ROUTER_FWD_TELNET_TRAFFIC_DENY
10 deny tcp any any eq telnet
```

```
20 permit ipv6 any any
!
```

# Verify IPv6 ACL

The following examples verify the number of packets filter by respecitve ACLs:

**Examples to check statistics**

RP/0/RP0/CPU0:ios#**show access-lists ipv4**

```
Wed Jan 17 09:52:12.448 IST
ipv4 access-list IPV4_ICMP_DENY
10 deny icmp any any (8 matches)
20 permit ipv4 any any (106 matches)
ipv4 access-list IPV4_ROUTER_FWD_TELNET_TRAFFIC_DENY
10 deny tcp any any eq telnet (3 matches)
20 permit ipv4 any any (6 matches)
```

RP/0/RP0/CPU0:ios#**show access-lists ipv6**

```
Wed Jan 17 09:52:14.591 IST
ipv6 access-list IPV6_ROUTER_FWD_TELNET_TRAFFIC_DENY
10 deny tcp any any eq telnet (3 matches)
20 permit ipv6 any any (5 matches)
ipv6 access-list IPV6_SSH_DENY
10 deny tcp any any eq ssh (9 matches)
20 permit ipv6 any any (100 matches)
RP/0/RP0/CPU0:PROD_20#
```