

## Practical 5

Configure IPv6 ACL's

Part 1 - Configure, apply and verify an IPv6 ACL

Step 1 - Configure an ACL that will block HTTP (HTTPS) access

R1 (config) # ipv6 access-list BLOCK HTTP

R1 (config-ipv6-acl) # deny tcp any host 2001:088:1:30::3  
eg www.

R1 (config-ipv6-acl) # deny tcp any host 2001:088:1:30::3  
eg 443.

Step 2 - Allow the other IPv6 traffic to pass.

R1 (config-ipv6-acl) # permit ipv6 any any

Step 3 - Apply ACL to an interface

R1 (config) # interface g0/1

R1 (config-if) # ipv6 traffic-filter BLOCK HTTP in

Step 4 - Verify the ACL's implementation.

a) Open web browser of PC1 to HTTP://2001:088:1:30::3  
or

https://2001:088:1:30::3  
the website should appear

b) open the web browser of PC2 to  
https://2001:088:1:30::30 or  
http://2001:088:1:30::30  
the website should be blocked

c) Ping from PC2 to 2001:088:1:30::30  
the ping should succeed..

Part 2 - Configure, apply, verify a second IPv6 ACL

Step 1 - create an ACL to block ICMP.

R3(Config) # ipv6 access-list BLOCK-ICMP

R3(Config-ipv6-acl) # deny icmp any any

R3(Config-ipv6-acl) # permit ip any any

Step 2 - Apply ACL to an interface

R3(Config) # interface g0/0

R3(Config-if) # ipv6 traffic-filter BLOCK-ICMP out

Step 3 - verify the ACL is working

- a) Ping from PC1 to 2001:088:1:30::30 should fail
- b) Ping from PC2 to 2001:088:1:30::30 should fail
- c) Web browser from PC2 to 2001:088:1:30::30. the website should display