

# Security Fundamentals

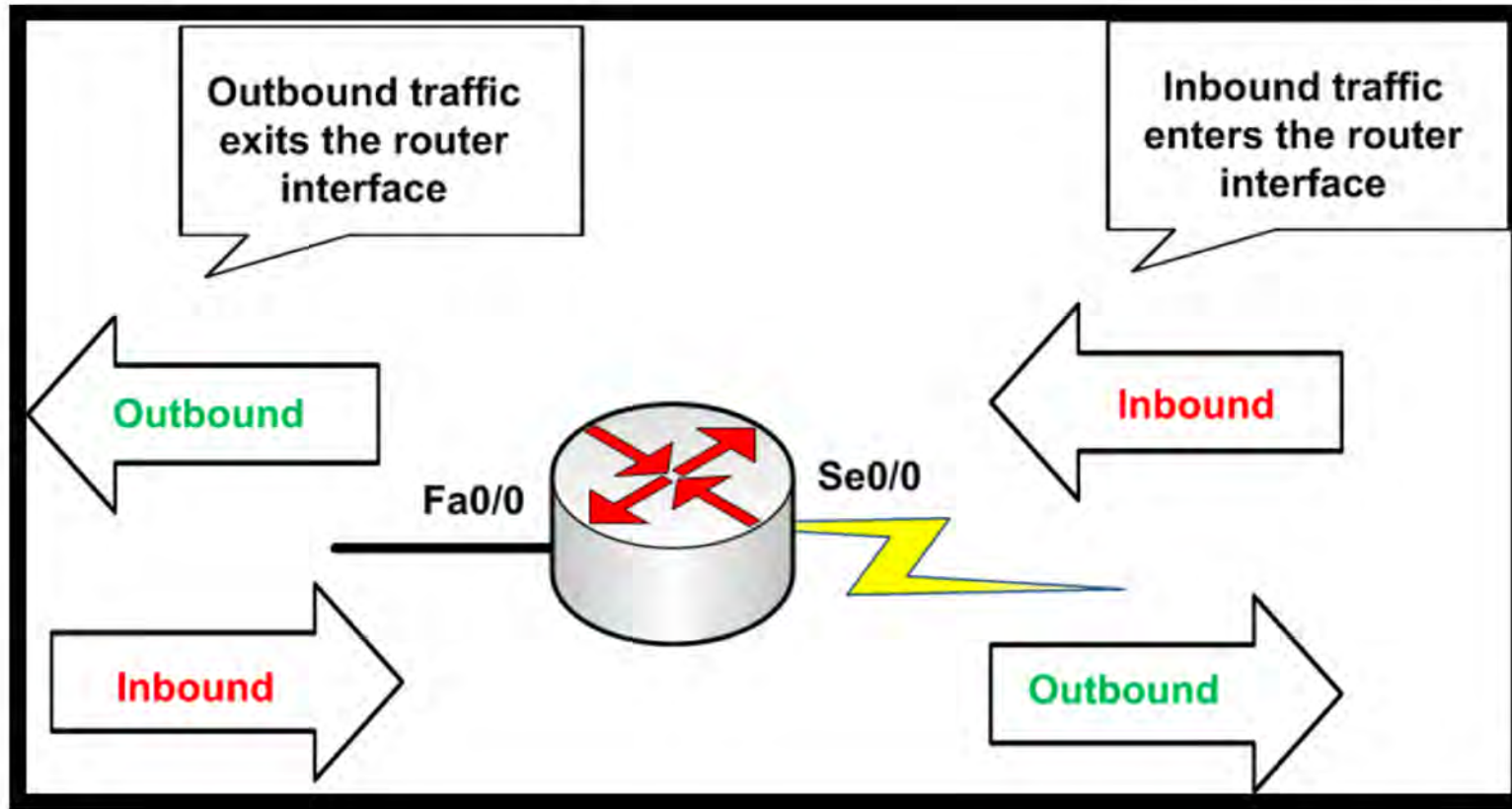
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# Access Control Lists (ACL)

- ACL is a set of rules which will allow or deny the specific traffic moving through the router
- It is a Layer 3 and Layer 4 security which controls the flow of traffic from one router to another.
- It is also called as Packet Filtering Firewall.

# ACL Apply



# Types of ACL

- **Standard Access Control List**
  - 1-99 or 1300-1999
- **Extended Access Control List**
  - 100-199 or 2000-2699

# Standard Access List

- Filtering is done based on only source IP address
- The access-list number range is 1 to 99, 1300 to 1999

**access-list <ID> <Action> <Source IP> <Source Wildcard Mask>**

**access-list 10 permit 192.168.2.0 0.0.0.255**

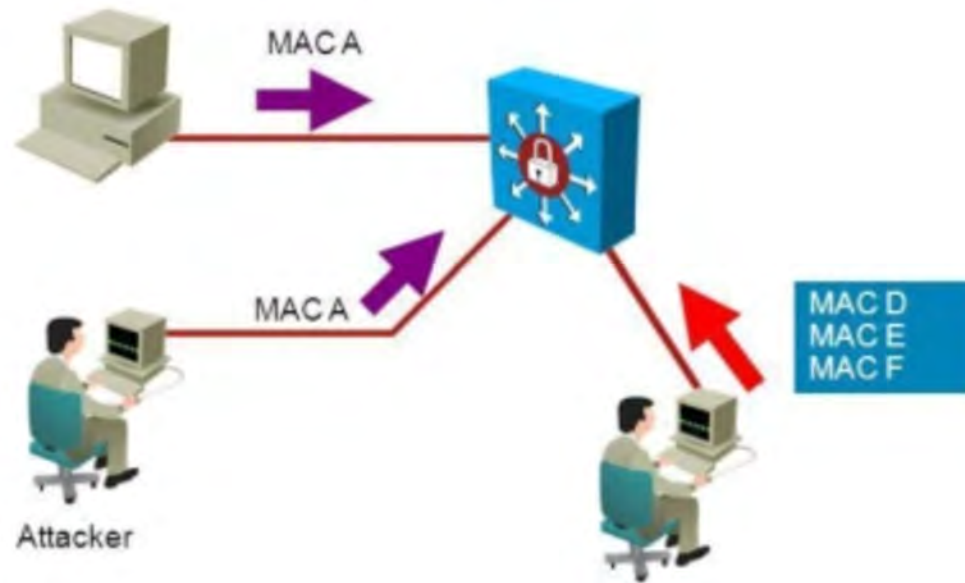
# Extended Access List

- Checks source, destination, protocol, port no
- The access-list number range is 100 – 199, 2000-2699

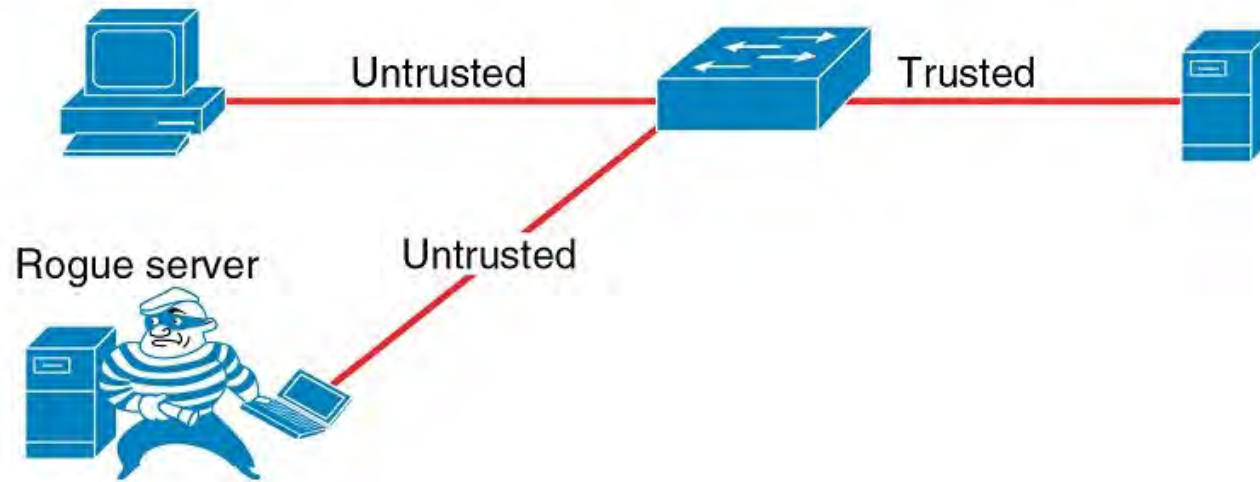
**access-list <ID> <Action> <Protocol> <Source IP> <Source Wildcard Mask>  
[Source Port] <Destination IP> <Destination Mask> [Destination Port]**

**access-list 101 deny tcp 192.168.10.10 0.0.0.0 192.168.30.21 0.0.0.0 eq 21**

# Port-security

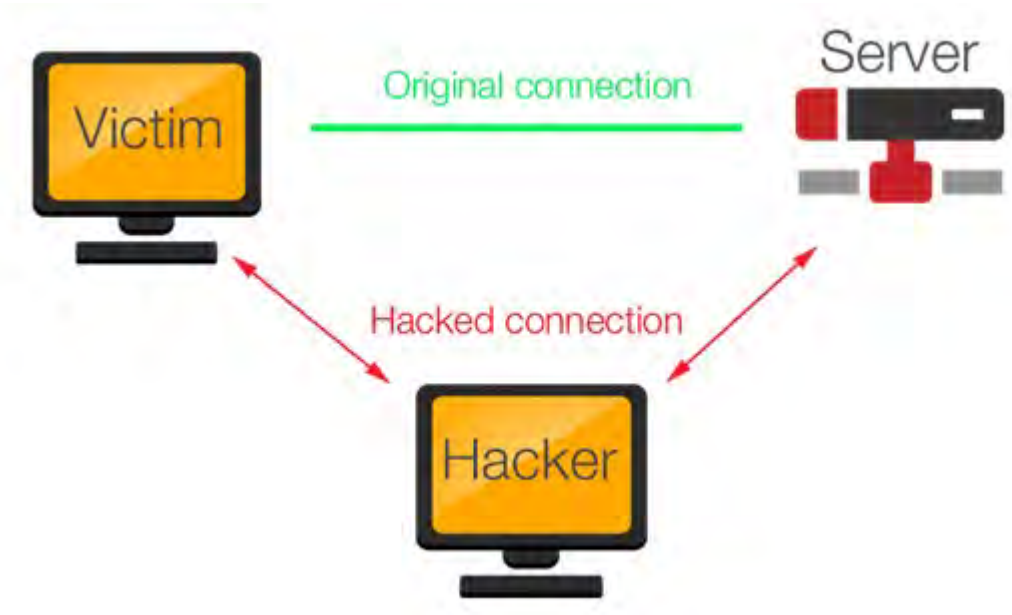


# DHCP Snooping

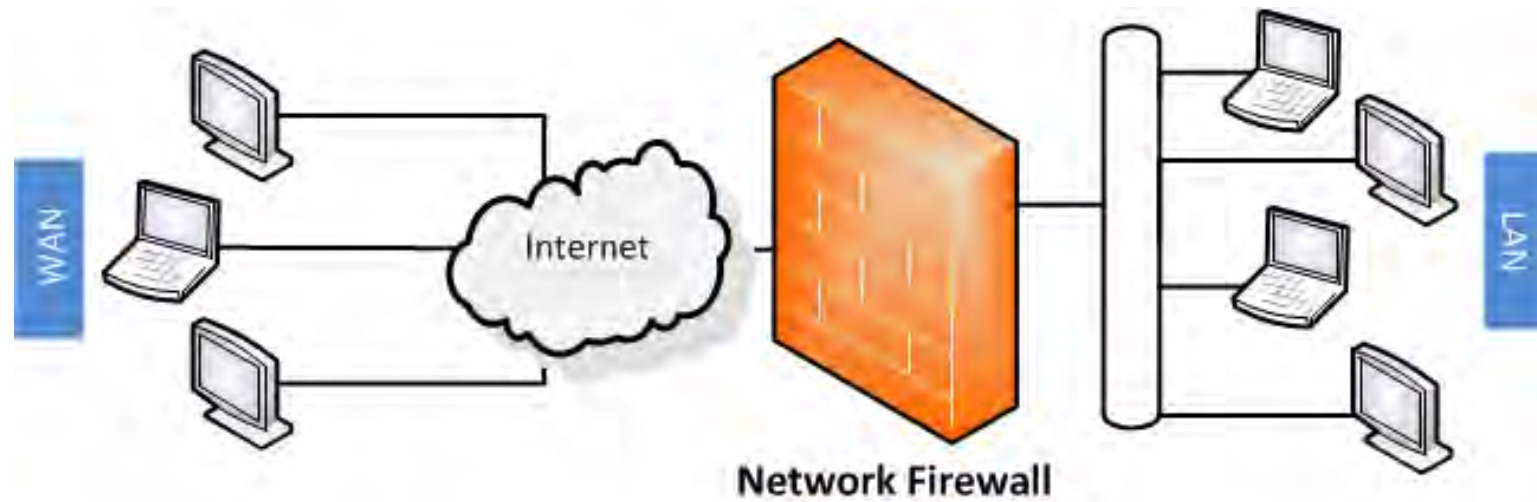




# ARP Poisoning



# Firewall Intro



# VPN intro

