

ASA Firewall Course Outline

1. ASA Initial configuration

- Interface configuration: IP addressing and security levels
- Interface types: Redundant, Ether channel, VNI, VTI, Bridge group

2. ASA objects

- Network objects and object groups
- Service objects and object groups

3. Internal resource access through ASA

- Public servers
- NAT exception and inbound access rules

4. ASA licensing

- Subscription licensing
- Perpetual licensing

5. Configuring Routing on The ASA

- Static Routes
- RIPV2
- EIGRP
- OSPF
- BGP



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6. Traffic Flow

- Controlling Traffic using Access Control List
- Control Traffic to Firewall itself (Control-plane)

7. Remote Management

- Remote Management Access to the Firewall
- Configuring Management Access Using TELNET/SSH
- Configuring Management Access Using HTTP using ASDM

8. Network Address Translation (NAT)

- Concept of NAT and Dynamic NAT
- Static NAT
- Destination NAT
- Dynamic PAT
- Static PAT
- Policy NAT

Transparent Firewall - Layer 2 Firewall

- Overview and Basic Initialization of Transparent Firewall
- Routing through a Transparent Firewall
- Ether type ACLs on a Transparent Firewall



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9. Virtualization & Redundancy

- Security Contexts
- Redundant Interfaces
- Port Channels
- Active / Standby Failover
- Active / Active Failover
- ASA Clustering Overview
- ASA Clustering Spanned Mode

10. Deep Packet Inspection

- Modular Policy Framework
- Overview
- Manipulation

11. Virtual Private Networks

- IPSec Overview & LAN - To - LAN VPN using Crypto Maps
- LAN - To -LAN VPN between a Router and an ASA
- LAN - To - LAN VPN - NAT-Traversal
- Configuring ASDM for Management
- Web VPN
- Remote Access VPN using AnyConnect

