Cisco ASA Firewall, configuration and administration

Hands-on course of 4 days - 28h
Ref.: CPF - Price 2025: €2 750 (excl. taxes)

THE PROGRAMME
last updated: 05/2024

1) Introduction
- Firewall technologies and characteristics.
- Introduction to firewalls. Terminology and features.
- Examples of architectures. The ASA product line.
- Setting up an ASA. The user interface. Configuring the firewall.
- NTP settings. ASA security levels.
- Syslog configuration.
Hands-on work : Basic configuration of an ASA.

2) Address translation and connections
- Dynamic NAT, static PAT and NAT.
- The TCP Intercept function.
- Connections, port redirects.
- DMZ configuration.
Hands-on work : Configuring an ASA for PAT with two and three interfaces. Publishing a Web server.

3) ACL and Content Filtering
- Overview of the ACLs.
- Configuration of the ACLs.
- Filtering malicious active code.
- URL filtering.
- Groups of objects.
- Overview of object groups. Usages.
- Configuring object groups.
Hands-on work : Filtering HTTP and FTP network traffic. Creating and using object groups in the ACL.

4) AAA configuration
- Overview of Cisco Secure ACS.
- Installing Cisco Secure ACS.
- Configuring authentication and authorization.
- Downloading ACLs.
- Troubleshooting AAA.
Hands-on work : Installing CSACS. Configuring ASA for AAA.

5) Routing and switching
- Reminders about VLANs.
- Features supported.
- Static and dynamic routing.
- Multicasting.
Hands-on work : Configuring ASA for multi-VLAN, RIPv2, and OSPF.

6) VPN
- Setting up VPNs.
- Configuring IPSec.
- The Cisco VPN client.
- Configuring remote access with Easy VPN.
- Configuring the Easy VPN server.
- Characteristics of remote Easy VPN.
- Overview and configuration of the client.
- Overview and configuration of WebVPN.
Hands-on work : Setting up site-to-site VPN, VPN remote access, and WebVPN.

7) Transparent firewall
- Transparent vs. Routed firewall.
- Unsupported features.
- Configuring IP addresses, ACLs, and ARP.
- Maintenance and troubleshooting.
Hands-on work : Setting up a transparent firewall.

8) Failover
- Overview of Failover modes. Configuring Failover and LAN Failover. Setting up Failover.
- Configuring Failover.
- Configuring LAN Failover.
- Setting up Failover in Active/Active mode.
Hands-on work : Setting up failover in Active/Standby mode, as well as in Active/Active mode.

9) Cisco Security Appliance Device Manager
- Using ASDM to configure ASA.
- Creating a site-to-site VPN and VPN remote access.
Hands-on work : Installing ASDM. VPN configuration.

10) Maintenance
- Access configuration.
- Levels of privileges.
- Password Recovery.
- Managing the iOS.
- Configuration management.
- License management.
Hands-on work : Updating the iOS. Backing up the configuration. Password Recovery.

DATES

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