SASAC - Implementing Core Cisco ASA Security v1.0

1. Cisco ASA Essentials

• Firewall Technologies

• Cisco ASA Features

• Cisco ASA Hardware

• Cisco ASA Licensing Options

• Cisco ASA Licensing Requirements

2. Basic Connectivity and Device Management

• Managing the Cisco ASA Boot Process

• Managing the Cisco ASA Using the CLI

• Managing the Cisco ASA Using Cisco ASDM

• Navigating Basic Cisco ASDM Features

• Managing the Cisco ASA Basic Upgrade

• Managing Cisco ASA Security Levels

• Configuring and Verifying Basic Connectivity Parameters

• Configuring and Verifying Interface VLANs

• Configuring a Default Route

• Configuring and Verifying the Cisco ASA Security Appliance DHCP Server

• Troubleshooting Basic Connectivity

3. Network Integration

• NAT on Cisco ASA Security Appliances

• Configuring Object (Auto) NAT

• Configuring Manual NAT

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- Tuning and Troubleshooting NAT on the Cisco ASA

- Connection Table and Local Host Table

- Configuring and Verifying Interface ACLs

- Configuring and Verifying Global ACLs

- Configuring and Verifying Object Groups

- Configuring and Verifying Public Servers

- Configuring and Verifying Other Basic Access Controls

- Static Routing

- Dynamic Routing

- EIGRP Configuration and Verification

- Multicast Support

4. Cisco ASA Policy Control

- Cisco MPF Overview

- Configuring and Verifying Layer 3 and Layer 4 Policies

- Configuring and Verifying a Policy for Management Traffic

- Layer 5 to Layer 7 Policy Control Overview

- Configuring and Verifying HTTP Inspection

- Configuring and Verifying FTP Inspection

- Supporting Other Layer 5 to Layer 7 Applications

5. Cisco ASA VPN Common Components

- VPN Definition

- VPN Types

- VPN Components

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- Cisco ASA VPN Policy Configuration

- Cisco ASA Connection Profiles

- Cisco ASA Group Policies

- Cisco ASA VPN AAA and External Policy Storage

- Cisco ASA User Attributes

- Access Control Methods

- VPN Accounting Using External Servers

- Dynamic Access Policy for SSL VPN

- Using PKI

- Provisioning Server-Side Certificates on the Cisco ASA Adaptive Security Appliance

- CA Servers

- Deploying Client-Based Certificate Authentication

- Enable Certificate Authentication in Connection Profile

- Configuring Certificate-to-Connection Profile Mappings

6. Cisco Clientless VPN Solution

- Cisco Clientless SSL VPN

- Cisco Clientless SSL VPN Use Cases

- Cisco Clientless SSL VPN Resource Access Methods

- Secure Sockets Layer and Transport Layer Security

- SSL Session Setup and Key Management

- SSL Server Authentication

- SSL Client Authentication

- SSL Transmission Protection

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- Basic Cisco Clientless SSL VPN

- Server Authentication in Basic Clientless SSL VPN

- Client-side Authentication in Basic Clientless SSL VPN

- Clientless SSL VPN URL Entry and Bookmarks• Basic Access Control for Clientless SSL VPN

- Disabling Content Rewriting

- Basic Clientless SSL VPN Configuration Tasks

- Basic Clientless SSL VPN Configuration Scenario

- Configuring Basic Cisco Clientless SSL VPN

- Cisco Clientless SSL VPN Application Access Overview

- Application Plug-Ins

- Configuring Application Plug-ins

- Troubleshooting Clientless SSL VPN Application Plug-Ins

- Smart Tunnels

- Client-side Authentication Options

- Client-side Authentication and Authorization Using AAA Server

- Double Client-side Authentication Using AAA Servers

7. Cisco AnyConnect Full Tunnel VPN Solution

- Basic Cisco AnyConnect SSL VPN

- SSL VPN Clients Authentication

- SSL VPN Clients IP Address Assignment

- SSL VPN Split Tunneling

- Enable AnyConnect SSL VPN

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- Define IP Address Pool

- Configure Identity NAT

- Configure Group Policy

- Configure Group Policy: Split Tunneling

- Configure Connection Profile

- Monitor AnyConnect VPN on Client

- Monitor AnyConnect VPN on Server

- Cisco AnyConnect SSL VPN Solution Components

- DTLS Overview

- Parallel DTLS and TLS Tunnels

- Configure DTLS

- Verify DTLS

- Cisco AnyConnect Client Configuration Management

- Managing Cisco AnyConnect Software from Cisco ASA

- Cisco AnyConnect Client Operating System Integration Options

- Deploying Cisco AnyConnect Trusted Network Detection

- Cisco AnyConnect Start Before Logon

- Deploying Cisco AnyConnect Start Before Logon

- Cisco AnyConnect Advanced Authentication Scenarios

- Certificate-Based Server Authentication

- Client Enrollment Methods

8. Cisco ASA High Availability and Virtualization

- Configuring and Verifying EtherChannel

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- Configuring and Verifying Redundant Interfaces

- Configuring Cisco ASA Active / Standby Failover High Availability

- Tuning and Managing Active / Standby Failover

- Remote Command Execution

- Multiple-Context Mode

- Configuring Security Contexts

- Configuring and Verifying Resource Management

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