20 Days

Cisco CCNP Security

The Cisco CCNP Security training program is a level ahead of CCNA which provides requisite knowledge to individuals for as choosing, deploying, supporting and troubleshooting Firewalls, VPNS, and IDS/IPS solutions to bring effectiveness to their networking environments.

In addition, The National Security Agency (NSA) and the Committee on National Security Systems (CNSS) recognize that Cisco CCNP Security courseware meets the CNSS 4013 training standard.

The CCNP Security Certification is achieved through the following exams & training:

- 300-208 SISAS : Implementing Cisco Secure Access Solutions (SISAS)
- 300-206 SENSS : Implementing Cisco Edge Network Security Solutions (SENSS)
- 300-209 SIMOS: Implementing Cisco Secure Mobility Solutions (SIMOS)
- 300-207 SITCS v1.0: Implementing Cisco Threat Control Solutions (SITCS)
- 300-210 SITCS v1.5: Implementing Cisco Threat Control Solutions (SITCS)

Course Details

Course Outline

1. Implementing Cisco Secure Access Solutions (SISAS)

- Understanding Cisco Identity Services Engine architecture and access control capabilities.
- Understanding 802.1X architecture, implementation and operation.
- Understanding commonly implemented Extensible Authentication Protocols (EAP).
- Implementing Public-Key Infrastructure with ISE.
- Understanding the implementing Internal and External authentication databases.
- Implementing MAC Authentication Bypass.
- Implementing identity based authorization policies.
- Understanding Cisco TrustSec features.
- Implementing Web Authentication and Guest Access.
- Implementing ISE Posture service.
- Implementing ISE Profiling.
- Understanding Bring Your Own Device (BYOD) with ISE.

- Troubleshooting ISE

2. Implementing Cisco Edge Network Security Solutions (SENSS)

- Deploy Cisco Infrastructure management and control plane security controls.
- Configuring Cisco layer 2 and layer 3 data plane security controls.
- Implementing and maintain Cisco ASA Network Address Translations (NAT).
- Implementing and maintain Cisco IOS Software Network Address Translations (NAT).
- Designing and deploying threat defense solutions on a Cisco ASA utilizing access policy and application and identity based inspection.
- Understanding and implementing Cisco modular Network Security Architectures such as SecureX and TrustSec.
- Implementing Botnet Traffic Filters.
- Deploying Cisco IOS Zone-Based Policy Firewalls (ZBFW).
- Configure and verify Cisco IOS ZBFW Application Inspection Policy.

3. Implementing Cisco Secure Mobility Solutions (SIMOS)

- Implementing and maintain Cisco site-to-site VPN solutions.
- Implementing and maintain Cisco FlexVPN in point-to-point, hub-and-spoke, and spoke-to-spoke IPsec VPNs.
- Describe the various VPN technologies and deployments as well as the cryptographic algorithms and protocols that provide VPN security.
- Implementing and maintain Cisco clientless SSL VPNs.
- Implementing and maintain Cisco AnyConnect SSL and IPsec VPNs.
- Implementing and maintain endpoint security and dynamic access policies (DAP).

4. Implementing Cisco Threat Control Solutions (SITCS) v1.0

- Understand Cisco ASA Next-Generation Firewall (NGFW)
- Deploy Cisco Web Security appliance to mitigate malware
- Configure Cisco Cloud Web Security Connectors
- Configure Web Security appliance for acceptable use controls
- Describe Cisco Email Security Solution
- Describe IPS Threat Controls
- Configure Cisco Email Appliance Incoming and Outgoing Policies
- Configure and Implement Cisco IPS Sensor into a Network.

5. Implementing Cisco Threat Control Solutions (SITCS) v1.5

- Deploy Cisco Web Security appliance to mitigate malware
- Understanding Cisco ASA Next-Generation Firewall (NGFW)
- Configure Web Security appliance for acceptable use controls
- Configure Cisco Cloud Web Security Connectors
- Configure Cisco Email Appliance Incoming and Outgoing Policies

- Describe Cisco Email Security Solution
- Describe IPS Threat Controls
- Configure and Implementing Cisco IPS Sensor into a Network.

Who Should Attend

The CCNP Security training course is ideal for those working with the profiles of:

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- Employee
- Customer
- Channel Partner / Reseller

Pre Requisite

A Valid CCNA Security Certification or any CCIE Certification can act as a prerequisite.

Exams

300-208 SISAS Implementing Cisco Secure Access Solutions (SISAS) 300-206 SENSS Implementing Cisco E []

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