



TECHNET srl

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PROMETRIC - PEARSON VUE - KRYTERION
Cisco, Juniper and Microsoft authorized Trainers



CI-SNRS

Securing Networks with Cisco Routers and Switches

Il corso ha l'obiettivo di permettere agli specialisti delle reti di ottenere la conoscenza e le competenze necessarie per rendere sicuri router e switch Cisco IOS. I partecipanti saranno in grado di garantire la sicurezza della rete utilizzando le funzionalità di sicurezza Cisco IOS e CatOS, configurare i 3 componenti principali di Cisco IOS Firewall Feature [context-based access control (CBAC), intrusion prevention, and authentication proxy], implementare secure tunnels (VPNs) utilizzando la tecnologia IPSec e implementare switch di sicurezza. In aggiunta lo studente completerà un audit della sicurezza usando funzionalità incluse in Cisco Security Device Manager.

Cosa si impara

- Configurare Cisco Secure ACS (versione per Windows)
- Configurare Cisco IOS Security Feature Set incluso IOS Firewall CBAC (Context-Based Access Control), Authentication Proxy, e IPS (Intrusion Prevention System)
- Concetti ed applicazioni della Layer 2 Security, incluso Cisco IBNS (Identity Based Network Services), e 802.1x Port-Based Authentication
- Costruire Cisco IOS-based VPNs utilizzando Cisco Routers e Pre-Shared Keys
- Costruire Cisco IOS-based VPNs utilizzando Cisco Routers e Certificate Authorities
- Configurare Cisco IOS Remote Access utilizzando Cisco Easy VPN
- L'utilizzo di Cisco Security Device Manager (SDM)

Chi dovrebbe partecipare

Professionisti delle reti impegnati nella progettazione e nel rilascio di Cisco security features in un internetwork IOS-based. Il corso è raccomandato anche a coloro che desiderano ottenere le certificazioni Cisco Certified Security Professional (CCSP), Cisco Security Specialist certifications (Firewall, VPN, e IDS), o Information Systems Security (INFOSEC) Professionali.

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Contenuto dettagliato

Implement Cisco Layer 2 security

- Utilize Cisco IOS commands to mitigate Layer 2 attacks
- Implement Cisco Identity-Based Networking Services on Cisco Catalyst Switches
- Implement Identity Management using ACS as the Authentication Server

Configure Cisco IOS Firewalls to mitigate network threats

- Identify and describe the advanced capabilities of the IOS firewall feature set
- Configure Classic IOS Firewall (CBAC) and NAT to dynamically mitigate identified threats to the network
- Verify Classic IOS Firewall (CBAC) configuration and operation
- Configure IOS Zone-Based Firewalls including advanced application inspections and URL filtering
- Verify Zone-Based Firewall operations

Configure Cisco IOS-IPS to identify and mitigate threats to network resources

- Identify and describe the advanced capabilities of the Cisco IOS-IPS feature set including Signature Event Action Processing
- Configure Cisco IOS-IPS features to identify threats and dynamically block them from entering the network
- Verify Cisco IOS-IPS operations
- Maintain, update and tune Cisco IOS-IPS signatures

Configure Cisco VPNs to provide secure connectivity for site-to-site and remote access communications

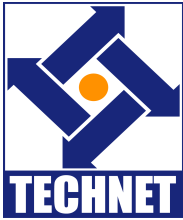
- Describe IPsec features and functionality
- Describe GRE/IPsec features and functionality
- Configure secure connectivity for site-to-site VPN using certificate authorities
- Describe DMVPN features and functionality
- Configure secure connectivity for site-to-site VPN using DMVPN
- Verify secure site-to-site VPN operations
- Implement IOS SSL VPN
- Configure Cisco IOS Easy VPN Server with Dynamic Virtual Tunnel Interface (DVTI)
- Configure Cisco IOS Easy VPN remote using both router and VPN software clients

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- Verify Cisco IOS Easy VPN implementations
 - Implement IOS GET VPN operations
 - Describe High Availability IPsec VPNs

Implement Network Foundation Protection using the CLI

- Describe NFP features and functionality
- Secure the management plane using Cisco IOS security features
- Secure the data plane using Cisco IOS security features
- Secure the control plane using Cisco IOS security features

Prerequisiti

- (CI-ICND1) Interconnecting Cisco Network Devices 1
- (CI-ICND2) Interconnecting Cisco Network Devices 2
- (CI-IINS) Implementing Cisco IOS Network Security

Oppure:

- (CI-CCNA) Cisco Certified Network Associate
- (CI-IINS) Implementing Cisco IOS Network Security

Corsi successivi

- (CI-SNAF) Securing Networks with ASA Fundamentals
- (CI-IPS) Implementing Cisco Intrusion Prevention System v6.0
- (CI-MARS) Cisco Security Monitoring, Analysis, and Response System v3.0

Oppure:

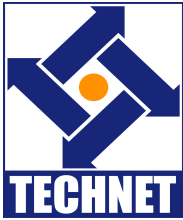
- (CI-SNAA) Securing Network with ASA Advanced

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Esami / Certificazioni

Il corso è raccomandato per la preparazione dell'esame SNRS.
Questo corso fa parte della certificazione Cisco Certified Security Professional (CCSP).

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