



UCSEC - Implementing Cisco Unified Communications Security v1.0

Code: 5389

5 days

Course Overview

This course is designed to provide you with the necessary knowledge and skills to implement security features in a Cisco Unified Communications environment.

Who Needs To Attend

Network security specialists, VoIP and network engineers, administrators, and technicians

Course Details

Topics Include

- Identify vulnerabilities in Cisco Unified Communications networks, describe security implementation strategies, cryptographic services, PKI, and VPN technologies
- Implement network infrastructure security features such as network separation and firewalling, 802.1X in phone VLANs, and the IP Phone VPN Client
- Harden Cisco Unified Communications endpoints and implement toll-fraud prevention features and Cisco Unified Communications Manager cryptographic security features
- Implement secure Cisco Unified Communications Manager integration with external devices, such as gateways, firewalls, and application proxies

Course Outline

1. Vulnerabilities of Cisco Unified Communications Networks and Security Fundamentals

- Assessing Vulnerabilities of Cisco Unified Communications Networks
- Describing Security Implementation Strategies
- Describing Cryptographic Services and Functions
- Describing Key Management and PKI
- Describing IPsec and Cisco AnyConnect SSL VPN

2. Network Infrastructure Security

- Implementing Network Separation and Packet Filtering
- Implementing Switch Security Features
- Implementing Cisco AnyConnect SSL VPNs in Cisco Unified Communications Networks

3. Cisco Unified Communications Manager and Endpoint Security Features

- Hardening Cisco Unified Communications Endpoints
- Implementing Toll-Fraud Prevention
- Implementing Native Cisco Unified Communications Manager Security Features
- Implementing Cisco Unified Communications Manager Security Features Based on Security Tokens

4. Secure Cisco Unified Communications Integration and Features

- Implementing SRTP to Gateways and Signaling Protection by IPsec
- Implementing Secure Signaling and SRTP in SRST and Cisco Unified Communications Manager Express
- Implementing Trusted Relay Points
- Implementing Proxies for Secure Signaling and SRTP

Prerequisites

- Working knowledge of converged voice and data networks
- Working knowledge of Cisco IOS gateways, Cisco Unified SRST gateways, and Cisco Unified Border Element
- Working knowledge of Cisco Unified Communications Manager and Cisco Un