

Implementing Cisco Unified Communications Security

Duration: 5 Days Course Code: UCSEC

Overview:

Cisco Unified Communications support several features and mechanisms to secure voice signaling and communications and to mitigate attacks against Cisco Unified Communications networks. The Implementing Cisco Unified Communications Security (UCSEC) v1.0 course introduces security mechanisms and describes different implementation scenarios that increase the security level of Cisco Unified Communications networks. The course is designed to provide students with the necessary knowledge and skills to implement security features in a Cisco Unified Communications environment.

Target Audience:

This course is designed for experienced Cisco Unified Communications engineers who will be deploying or managing secure Cisco Unified Communications networks

Objectives:

- **After completing this course you will be able to:**
- Identify vulnerabilities in Cisco Unified Communications networks and describe security strategies, cryptographic services, PKI, and VPN technologies
- Implement network infrastructure security features
- Implement Cisco Unified Communications Manager and Cisco Unified Communications endpoint security features
- Implement network infrastructure security features

Prerequisites:

Attendees should meet the following prerequisites:

- Working knowledge of converged voice and data networks and network Security fundamentals.
- Working knowledge of Cisco IOS gateways, Cisco Unified SRST gateways, and Cisco Unified Border Element
- Working knowledge of Cisco Unified Communications Manager and Cisco Unified Communications Manager Express
- Working knowledge of Cisco IOS Firewall and Cisco ASA Firewalls
- Working knowledge of IPsec and SSL VPNs
- CCNP® Voice certification and CCNA Security Certification is recommended.

Testing and Certification

Recommended preparation for exam(s)

- There is no exam associated to this course at present

Follow-on-Courses:

The following courses are recommended for further study:

- There are currently no follow on courses recommended.

Content:

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

Network Infrastructure Security

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

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

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

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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