



Designing & Implementing Secure Cloud Access for Users & Endpoints (SCAZT)

COURSE OVERVIEW

The Designing and Implementing Secure Cloud Access for Users and Endpoints training teaches you the skills for designing and implementing cloud security architecture, user and device security, network and cloud security, cloud application and data security, cloud visibility and assurance, and responding to cloud threats.

This training prepares you for the 300-740 SCAZT v1.0 exam. If passed, you earn the Cisco Certified Specialist – Security Secure Cloud Access certification and satisfy the concentration exam requirement for the Cisco Certified Network Professional (CCNP) Security certification.

WHO WILL BENEFIT FROM THIS COURSE?

- Network Engineers
- Network Security Engineers
- Network Architects
- Sales/Presales Engineers

PREREQUISITES

The knowledge and skills you are expected to have before attending this training are:

- Basic understanding of enterprise routing
- Basic understanding of WAN networking
- Basic understanding of Cisco SD-WAN
- Basic understanding of Public Cloud services

These skills can be found in the following Cisco Learning Offerings:

- Implementing and Administering Cisco Solutions 1.0
- Implementing Cisco SD-WAN Solutions 2.0
- Cisco SD-WAN Operation and Deployment 1.0

COURSE OBJECTIVES

- Compare and contrast the National Institute of Standards and Technology (NIST), Cybersecurity and Infrastructure Security Agency (CISA), and Defense Information Systems Agency (DISA) security frameworks, and understand the importance of adopting standardized frameworks for cybersecurity in enhancing an organization's security posture
- Describe the Cisco Security Reference Architecture and its five main components
- Describe commonly deployed use cases and recommend the necessary capabilities within an integrated security architecture to address them effectively
- Describe the Cisco Secure Architecture for Everyone (SAFE) architecture



- Review the benefits, components, and process of certificate-based authentication for both users and devices
- Enable Duo multi-factor authentication (MFA) to protect an application from the Duo Administration Portal, and then configure the application to use Duo MFA for user login authentication
- Install Cisco Duo and implement its multifactor authentication on remote access virtual private network (VPN)
- Configure endpoint compliance
- Review and demonstrate the ability to understand Stateful Switchover (SSO) using security assertion markup language (SAML) or OpenID Connect together with Cisco Duo
- Describe Cisco software-defined wide-area network (SD-WAN) on-box and integrated threat prevention security services
- Describe SD-WAN on-box and integrated content filtering security services
- Describe the features and capabilities of Cisco Umbrella Secure Internet Gateway (SIG), such as DNS Security, Cloud-Delivered Firewall (CDFW), intrusion prevention systems (IPS), and interaction with Cisco SD-WAN
- Introduce the reverse proxy for internet-facing applications protections
- Explore the Cisco Umbrella SIG use case to secure cloud application access, the limitations and benefits of the solution, and the features available to discover and control access to cloud delivered applications
- Explore the Cisco ThousandEyes capabilities for monitoring the Cisco SD-WAN deployment
- Describe the challenges of accessing SaaS applications in modern business environments and explore the Cisco SD-WAN Cloud OnRamp for SaaS solution with direct or centralized internet access
- Introduce the Cisco Secure Firewall platforms, use cases, and security capabilities
- Demonstrate a comprehensive understanding of web application firewalls
- Demonstrate a comprehensive understanding of Cisco Secure Workload capabilities, deployment options, agents, and connectors
- Demonstrate a comprehensive understanding of Cisco Secure Workload application dependency mapping and policy discovery
- Demonstrate a comprehensive understanding of common cloud attack tactics and mitigation strategies
- Demonstrate a comprehensive understanding of multicloud security requirements and policy capabilities
- Introduce the security issues with the adoption of public clouds and common capabilities of cloud visibility and assurance tools to mitigate these issues
- Introduce Cisco Secure Network Analytics and Cisco Security Analytics and Logging
- Describe Cisco Attack Surface Management
- Describe how Application Program Interfaces (APIs) and automation can help in troubleshooting cloud policy, especially in the context of misconfigurations
- Demonstrate a comprehensive knowledge of the appropriate responses to cloud threats in specific scenarios



- Demonstrate the comprehensive knowledge required to use automation for cloud threat detection and response

COURSE OUTLINE

- Industry Security Frameworks
- Cisco Security Reference Architecture Fundamentals
- Cisco Security Reference Architecture Common Use Cases
- Cisco SAFE Architecture
- Certificate-Based User and Device Authentication
- Cisco Duo Multifactor Authentication for Application Protection
- Cisco Duo with AnyConnect VPN for Remote Access
- Introducing Cisco ISE Endpoint Compliance Services
- SSO using SAML or OpenID Connect
- Deploying On-Premises Threat Prevention
- Examining Content Filtering
- Exploring Cisco Umbrella SIG
- Reverse Proxy
- Securing Cloud Application with Cisco Umbrella SIG
- Exploring Cisco SD-WAN ThousandEyes
- Optimizing SaaS Applications
- Security Policies for Remote Access VPN
- Cisco Secure Access
- Cisco Secure Firewall
- Web Application Firewall
- Cisco Secure Workload Deployments, Agents, and Connectors
- Cisco Secure Workload Structure and Policy
- Cloud Security Attacks and Mitigations
- Multicloud Security Policies
- Cloud Visibility and Assurance
- Cisco Secure Network Analytics and Cisco Secure Analytics and Logging
- Cisco XDR
- Cisco Attack Surface Management
- Cloud Applications and Data Access Verifications
- Automation of Cloud Policy
- Response to Cloud Threats
- Automation of Cloud Threat Detection and Response

Lab Outline

- Explore Cisco SecureX
- Windows Client BYOD Onboarding Interactive Activity
- Use Cisco Duo MFA to Protect the Splunk Application
- Integrate the Cisco Duo Authentication Proxy to Implement MFA for Cisco Security Secure Firewall AnyConnect Remote Access VPN



- Configure Cisco ISE Compliance Services
- Configure Threat Prevention
- Implement Web Security
- Deploy DIA Security with Unified Security Policy
- Configure Cisco Umbrella DNS Policies
- Deploy Cisco Umbrella Secure Internet Gateway
- Implement CASB Security
- Microsoft 365 SaaS Testing by Using Cisco ThousandEyes
- Configure Remote Access VPN on the Cisco Secure Firewall Threat Defense
- Configure Cisco Secure Firewall Policies
- Explore Cisco Secure Workload
- Explore the ATT&CK Matrix Cloud-Based Techniques
- Explore Cisco Secure Network Analytics
- Explore Cisco XDR Incident Response Tasks

WHY TRAIN WITH SUNSET LEARNING INSTITUTE?

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their technology investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

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Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience

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- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!



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- You will work with a dedicated account manager to suggest the optimal learning path for you and/or your team
- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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