



Securing Email with Cisco Email Security Appliance (SESA) v3.1

Objetivos

After taking this course, you should be able to:

- Describe and administer the Cisco Email Security Appliance (ESA)
- Control sender and recipient domains
- Control spam with Talos SenderBase and anti-spam
- Use anti-virus and outbreak filters
- Use mail policies
- Use content filters
- Use message filters to enforce email policies
- Prevent data loss
- Perform LDAP queries
- Authenticate Simple Mail Transfer Protocol (SMTP) sessions
- Authenticate email
- Encrypt email
- Use system quarantines and delivery methods
- Perform centralized management using clusters
- Test and troubleshoot

Pre-requisitos

To fully benefit from this course, you should have one or more of the following basic technical competencies:

- Cisco certification (Cisco CCENT® certification or higher)
- Relevant industry certification, such as (ISC)2, CompTIA Security+, EC-Council, Global Information Assurance Certification (GIAC), and ISACA
- Cisco Networking Academy letter of completion (CCNA® 1 and CCNA 2)
- Windows expertise: Microsoft [Microsoft Specialist, Microsoft Certified Solutions Associate (MCSA), Microsoft Certified Systems Engineer (MCSE)], CompTIA (A+, Network+, Server+)

The knowledge and skills that a student must have before attending this course are:

Securing Email with Cisco Email Security Appliance (SESA) v3.1

- TCP/IP services, including Domain Name System (DNS), Secure Shell (SSH), FTP, Simple Network Management Protocol (SNMP), HTTP, and HTTPS
- Experience with IP routing

Contenido

- Describing the Cisco Email Security Appliance
 - Cisco Email Security Appliance Overview
 - Technology Use Case
 - Cisco Email Security Appliance Data Sheet
 - SMTP Overview
 - Email Pipeline Overview
 - Installation Scenarios
 - Initial Cisco Email Security Appliance Configuration
 - Centralizing Services on a Cisco Content Security Management Appliance (SMA)
 - Release Notes for AsyncOS 11.x
- Administering the Cisco Email Security Appliance
 - Distributing Administrative Tasks
 - System Administration
 - Managing and Monitoring Using the Command Line Interface (CLI)
 - Other Tasks in the GUI
 - Advanced Network Configuration
 - Using Email Security Monitor
 - Tracking Messages
 - Logging
- Controlling Sender and Recipient Domains
 - Public and Private Listeners
 - Configuring the Gateway to Receive Email
 - Host Access Table Overview
 - Recipient Access Table Overview
 - Configuring Routing and Delivery Features
- Controlling Spam with Talos SenderBase and Anti-Spam
 - SenderBase Overview

Securing Email with Cisco Email Security Appliance (SESA) v3.1

- Anti-Spam
- Managing Graymail
- Protecting Against Malicious or Undesirable URLs
- File Reputation Filtering and File Analysis
- Bounce Verification
- Using Anti-Virus and Outbreak Filters
 - Anti-Virus Scanning Overview
 - Sophos Anti-Virus Filtering
 - McAfee Anti-Virus Filtering
 - Configuring the Appliance to Scan for Viruses
 - Outbreak Filters
 - How the Outbreak Filters Feature Works
 - Managing Outbreak Filters
- Using Mail Policies
 - Email Security Manager Overview
 - Mail Policies Overview
 - Handling Incoming and Outgoing Messages Differently
 - Matching Users to a Mail Policy
 - Message Splintering
 - Configuring Mail Policies
- Using Content Filters
 - Content Filters Overview
 - Content Filter Conditions
 - Content Filter Actions
 - Filter Messages Based on Content
 - Text Resources Overview
 - Using and Testing the Content Dictionaries Filter Rules
 - Understanding Text Resources
 - Text Resource Management
 - Using Text Resources
- Using Message Filters to Enforce Email Policies
 - Message Filters Overview
 - Components of a Message Filter
 - Message Filter Processing

Securing Email with Cisco Email Security Appliance (SESA) v3.1

- Message Filter Rules
- Message Filter Actions
- Attachment Scanning
- Examples of Attachment Scanning Message Filters
- Using the CLI to Manage Message Filters
- Message Filter Examples
- Configuring Scan Behavior
- Preventing Data Loss
 - Overview of the Data Loss Prevention (DLP) Scanning Process
 - Setting Up Data Loss Prevention
 - Policies for Data Loss Prevention
 - Message Actions
 - Updating the DLP Engine and Content Matching Classifiers
- Using LDAP
 - Overview of LDAP
 - Working with LDAP
 - Using LDAP Queries
 - Authenticating End-Users of the Spam Quarantine
 - Configuring External LDAP Authentication for Users
 - Testing Servers and Queries
 - Using LDAP for Directory Harvest Attack Prevention
 - Spam Quarantine Alias Consolidation Queries
 - Validating Recipients Using an SMTP Server
- SMTP Session Authentication
 - Configuring AsyncOS for SMTP Authentication
 - Authenticating SMTP Sessions Using Client Certificates
 - Checking the Validity of a Client Certificate
 - Authenticating User Using LDAP Directory
 - Authenticating SMTP Connection Over Transport Layer Security (TLS) Using a Client Certificate
 - Establishing a TLS Connection from the Appliance
 - Updating a List of Revoked Certificates
- Email Authentication
 - Email Authentication Overview
 - Configuring DomainKeys and DomainKeys Identified Mail (DKIM) Signing

Securing Email with Cisco Email Security Appliance (SESA) v3.1

- Verifying Incoming Messages Using DKIM
- Overview of Sender Policy Framework (SPF) and SIDF Verification
- Domain-based Message Authentication Reporting and Conformance (DMARC) Verification
- Forged Email Detection
- Email Encryption
 - Overview of Cisco Email Encryption
 - Encrypting Messages
 - Determining Which Messages to Encrypt
 - Inserting Encryption Headers into Messages
 - Encrypting Communication with Other Message Transfer Agents (MTAs)
 - Working with Certificates
 - Managing Lists of Certificate Authorities
 - Enabling TLS on a Listener's Host Access Table (HAT)
 - Enabling TLS and Certificate Verification on Delivery
 - Secure/Multipurpose Internet Mail Extensions (S/MIME) Security Services
- Using System Quarantines and Delivery Methods
 - Describing Quarantines
 - Spam Quarantine
 - Setting Up the Centralized Spam Quarantine
 - Using Safelists and Blocklists to Control Email Delivery Based on Sender
 - Configuring Spam Management Features for End Users
 - Managing Messages in the Spam Quarantine
 - Policy, Virus, and Outbreak Quarantines
 - Managing Policy, Virus, and Outbreak Quarantines
 - Working with Messages in Policy, Virus, or Outbreak Quarantines
 - Delivery Methods
- Centralized Management Using Clusters
 - Overview of Centralized Management Using Clusters
 - Cluster Organization
 - Creating and Joining a Cluster
 - Managing Clusters
 - Cluster Communication
 - Loading a Configuration in Clustered Appliances
 - Best Practices

Securing Email with Cisco Email Security Appliance (SESA) v3.1

- Testing and Troubleshooting
 - Debugging Mail Flow Using Test Messages: Trace
 - Using the Listener to Test the Appliance
 - Troubleshooting the Network
 - Troubleshooting the Listener
 - Troubleshooting Email Delivery
 - Troubleshooting Performance
 - Web Interface Appearance and Rendering Issues
 - Responding to Alerts
 - Troubleshooting Hardware Issues
 - Working with Technical Support
- References
 - Model Specifications for Large Enterprises
 - Model Specifications for Midsize Enterprises and Small-to-Midsize Enterprises or Branch Offices
 - Cisco Email Security Appliance Model Specifications for Virtual Appliances
 - Packages and Licenses

Laboratorio

- Verify and Test Cisco ESA Configuration
- Perform Basic Administration
- Advanced Malware in Attachments (Macro Detection)
- Protect Against Malicious or Undesirable URLs Beneath Shortened URLs
- Protect Against Malicious or Undesirable URLs Inside Attachments
- Intelligently Handle Unscannable Messages
- Leverage AMP Cloud Intelligence Via Pre-Classification Enhancement
- Integrate Cisco ESA with AMP Console
- Prevent Threats with Anti-Virus Protection
- Applying Content and Outbreak Filters
- Configure Attachment Scanning
- Configure Outbound Data Loss Prevention
- Integrate Cisco ESA with LDAP and Enable the LDAP Accept Query
- Domain Keys Identified Mail (DKIM)
- Sender Policy Framework (SPF)

Securing Email with Cisco Email Security Appliance (SESA) v3.1

- Forged Email Detection
 - Configure the Cisco SMA for Tracking and Reporting
-

