

# Securing Email with Cisco Email Security Appliance (SESA)

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Lisboa
- **Data:** 18 Out. 2021 a 20 Out. 2021
- **Preço:** 2595€
- **Horário:** Laboral - das 9h00 às 17h00
- **Duração:** 21 horas

The **Securing Email with Cisco Email Security Appliance (SESA)** course shows you how to deploy and use Cisco® Email Security Appliance to establish protection for your email systems against phishing, business email compromise, and ransomware, and to help streamline email security policy management. This hands-on course provides you with the knowledge and skills to implement, troubleshoot, and administer Cisco Email Security Appliance, including key capabilities such as advanced malware protection, spam blocking, anti-virus protection, outbreak filtering, encryption, quarantines, and data loss prevention.

This course helps you prepare to take the exam, **Securing Email with Cisco Email Security Appliance** (300-720 SESA), which leads to **CCNP® Security** and the **Certified Specialist - Email Content Security** certifications.

This course will help you:

- Deploy high-availability email protection against the dynamic, rapidly changing threats affecting your organization
- Gain leading-edge career skills focused on enterprise security

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## Destinatários

Individuals responsible for the deployment, administration and troubleshooting of a Cisco Email Security Appliance:

- Security engineers
- Security administrators
- Security architects
- Operations engineers

- Network engineers
  - Network administrators
  - Network or security technicians
  - Network managers
  - System designers
  - Cisco integrators and partners
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## Pré-requisitos

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

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

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+)
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## Objetivos

**After completing 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

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## Metodologia

- Instructor-led training: 3 days in the classroom with hands-on lab practice
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## Programa

### **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
- 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
- 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
- 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

## **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

## **Labs**

- 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
- DomainKeys Identified Mail (DKIM)
- Sender Policy Framework (SPF)
- Forged Email Detection
- Configure the Cisco SMA for Tracking and Reporting