

# Course : Cisco Firewall ASA, installation and configuration

*Practical course - 2d - 14h00 - Ref. CSC*

*Price : 1560 € E.T.*

★★★★★ 5 / 5

With this training course, you'll learn how to install and configure a security solution based on Cisco ASA. You'll discover the essential functions using a Web interface with ASDM (Cisco Adaptive Security Device Manager) and CLI command line.

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Cisco ASA firewall features
- ✓ Installing and configuring an ASA firewall
- ✓ Configure essential functions using ASDM and CLI
- ✓ Configure access strategy based on ACLs (Access Control Lists)

## Intended audience

Network or security technicians/administrators.

## Prerequisites

Good knowledge of network administration with Cisco equipment and IT security.

## Practical details

### Hands-on work

Alternating practice and theory

## Course schedule

### PARTICIPANTS

Network or security technicians/administrators.

### PREREQUISITES

Good knowledge of network administration with Cisco equipment and IT security.

### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

## 1 Introduction

- Firewall technologies and features.
- Introduction to firewalls. What are the terminologies used and the different functionalities.
- Architecture examples. The ASA (Adaptive Security Appliance) range.
- Starting up with an ASA. Discovering the user interface. Initial firewall configuration.
- NTP (Network Time Protocol) settings. What are the different ASA security levels?
- How do I configure syslog?

### Hands-on work

Basic ASA configuration.

## 2 ACL and Content Filtering

- ACL (Access Control List) overview.
- What can ACLs do for you? How do I configure them?
- Learn how to filter out malicious active code.
- Why implement URL filtering?
- What are object groups?
- Introducing object groups. How to use them
- Object group configuration methods.

### Hands-on work

HTTP and FTP network traffic filtering. Create and use object groups in ACLs.

## 3 AAA configuration

- Introducing Cisco Secure ACS (Access Control Server).
- How do I install Cisco Secure ACS?
- Learn how to configure authentication and authorization on an ACS.
- How to download ACLs.
- AAA reminder. How to troubleshoot AAA?

### Hands-on work

CSACS installation. AAA ASA configuration.

## 4 Failover

- What is failover? Why do we need to automatically switch to an alternative network or system?
- Overview of the different failover modes. How to configure failover and Lan Failover?
- The two main switching modes: active/active and active/passive. How do you know which one to use?
- Set up failover in active/active mode.

### Hands-on work

Set up failover in Active/Standby mode, as well as in Active/Active mode.

### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.