



CSNA TRAINING – COURSE OUTLINE

Certified Stormshield Network Administrator (NT-CSNA)

STORMSHIELD SAS training organisation

Introduction

The purpose of this training is to introduce the Next Generation Firewall / UTM product range and its basic functions.

Audience

IT managers, Network administrators, all IT technicians.

Teaching methods and training objectives



The training is conducted as face-to-face teaching in the classroom, alternating theoretical courses and practical work.



Trainees receive course support consisting of the lessons, practical work (Labs) and marking. To make practical use of the course information, trainees have a full technical environment at their disposal.



To maintain the trainees' expertise, all updates to the course materials are accessible for three years in PDF format on our website: <https://institute.stormshield.eu>. Here, trainees will also find a virtual teaching environment enabling them to operate the product and repeat the Labs work at their leisure.

Upon completion of the training, trainees will have acquired the following skills:

- handling an SNS firewall and understanding how it works
- configuring a firewall in a network
- defining and implementing filtering and routing policies
- configuring access control for websites in http and https (proxy) modes
- configuring authentication policies
- implementing different types of virtual private network (IPsec VPN and SSL VPN)

Location, duration and sign-up

Stormshield offers training sessions at its Paris, Lille and Lyon premises.

Our trainers can also make on-site visits (minimum 5 trainees) to provide training.

Stormshield also delivers training via its distribution network and training partners.

The Administrator training takes place over three days (must be consecutive), giving a total of 21 hours. Trainees arrive at 9:30am on the first day and 9:00 on subsequent days (unless informed otherwise by the trainer or Stormshield). All registration requests must be sent to a Stormshield Training Centre (STC) distributor, or to Stormshield's training department (training@stormshield.eu). There is a maximum of 8 trainees per session.



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Rate

The public price is €2,250 ex. VAT for three days' training in the classroom and two online certification sessions.

Prerequisites and equipment

Good knowledge of TCP/IP; previous network training is an advantage.

To carry out the exercises, trainees will need to bring a laptop PC, ideally with a Windows operating system (physical or virtual with network access via bridge) with administrator rights, and access to the following software: Firefox, PuTTY (or any other SSH client), WinSCP (or equivalent SCP client), Wireshark, VirtualBox or VMWare equivalent (VMWare Workstation Player or Pro).

Detailed description

Day 1

- Introduction of trainees (round table)
- Training curriculum and certifications
- Introduction to Stormshield and its products
- Getting started with the firewall
 - o Registering with the customer area and access to technical resources
 - o Initialising the box and introduction to the administration interface
 - o System configuration and administration rights
 - o Installing the licence and updating the system version
 - o Backing up and restoring a configuration
- Logging and monitoring
 - o Introduction to logging categories
 - o History graphs and monitoring
- Objects
 - o Concept of an object and types of usable objects
 - o Network objects and router
- Network configuration
 - o Methods of configuring a box on a network
 - o Interface types (Ethernet, modem, bridge, VLAN, GRE/TAP)
 - o Routing types and priorities

Day 2

- Network address translation (NAT)
 - o Translation of outbound data streams (masquerading)
 - o Translation of inbound data streams (redirection)
 - o Bidirectional translation (one-to-one translation)
- Filtering
 - o General information on filtering and concept of connection tracking (stateful)



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- Detailed introduction to the parameters of a filter rule
- Ordering of filtering and translation rules
- Application protection
 - Implementing http and https URL filtering
 - Configuring antivirus scanning and Breach Fighter detonation scanning
 - Intrusion prevention module and security inspection profiles

Day 3

- Users and authentication
 - Directory configuration
 - Introduction to the various authentication methods (LDAP, Kerberos, Radius, SSL Certificate, SPNEGO, SSO)
 - User enrolment
 - Implementing explicit authentication via captive portal
- Virtual private networks
 - IPsec VPN concepts and general information (IKEv1 and IKEv2)
 - Site-to-site with pre-shared key
 - Virtual Tunnelling Interface
- SSL VPN
 - Operating principle
 - Configuration

Certification exam



Certification consists of an online exam (1hr 30 mins, 70 questions).

Certification requires a score of at least 70%.

The exam is automatically available on the day following the end of training, for a duration of three weeks, on the <https://institute.stormshield.eu> website. In the event of failure, or inability to take the exam within this time slot, a second and last exam opportunity automatically opens immediately afterwards for a duration of one additional week.