



STORMSHIELD

CSNE TRAINING – COURSE OUTLINE

Certified Stormshield Network Expert (NT-CSNE)

STORMSHIELD SAS training organisation

Introduction

The purpose of this training is to introduce the advanced features of Stormshield Network Security's Next Generation Firewall / UTM.

Audience

IT managers, network administrators, all IT technicians who have obtained CSNA certification.

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, and following a recap of basic knowledge, trainees will have acquired the following skills:

- advanced use of the GUI,
- precisely configuring the intrusion prevention engine,
- implementing a PKI and transparent authentication,
- implementing a certificate-based IPsec VPN,
- configuring a high-availability cluster.

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 Expert training takes place over three days (must be consecutive), giving a total of 21 hours. Trainees arrive at 9:30am on the first day of training 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

Access to this training is restricted to trainees who have passed the CSNA exam within the 3 years prior to CSNE training.

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)
- Detailed introduction to the Stormshield Network intrusion prevention engine
 - o Differences between intrusion prevention and detection
 - o The intrusion prevention engine
 - o Different types of scanning
 - o Protocol-based and application-based profiles
- Public key infrastructure
 - o Basics of symmetric and asymmetric cryptography
 - o Encryption types
 - o Stormshield Network PKI
 - o Creating a certification authority, a server identity and a user identity

Day 2

- SSL proxy
 - o Operating principle
 - o Configuring the SSL proxy
 - o Advanced IPsec VPN
 - o Detailed operation and NAT traversal mechanism
 - o Support for Dead Peer Detection (DPD)
 - o Star and chained VPN architecture
 - o NAT in IPsec
 - o IPsec VPN architecture with backup tunnel
 - o Configuring a site-to-site VPN using certificates
 - o Configuring a mobile VPN



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Day 3

- GRE and GRE-TAP
 - o Operating principle
 - o Configuring and installing
- Transparent authentication
 - o Operating principle
 - o SPNEGO authentication method
 - o SSL certificate authentication method
- High availability
 - o Operating principle
 - o Wizard for creating and configuring an HA cluster
 - o Network interface configuration
 - o Advanced configuration

Certification exam



Certification consists of an online exam (2 hrs, 90 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.