FSNOT COURSE OUTLINE

Fundamentals Stormshield Network Operational Technology (NT-FSNOT)

STORMSHIELD SAS training organization

Business registration no.: 11922154792

Introduction

This course is an introduction to the range of Stormshield Network Security appliances and the standard features that enable their deployment in an OT environment. This is a complementary course that must be taken together with the CSNOT course.

Target audience

Automation engineers, IT managers, network administrators and IT technicians involved in the process of deploying network security in OT environments.

Learning methods

This course can be conducted in two ways: in-person with other trainees in a classroom, or online, in which the instructor uses a combination of videoconferencing tools and the Airbus CyberRange platform. The structure of the course includes both theory and practical exercises.

Courseware is provided to trainees and consists of course content, practical exercises (labs) and their corrections. Trainees are given access to a full-scale technical environment so that they can put into practice what they learn during the course.

In order for trainees to keep their knowledge up to date, all updated versions of courseware will be available in PDF on our platform **https://institute.stormshield.eu** for three years.

Aims of this course

At the end of the course, trainees are expected to know how to:
- operate an SNS firewall and understand how it works,
- configure a firewall within a network,
- define and implement filter and routing policies,
- configure network application control on PLCs,
- configure authentication policies,
- set up IPSec virtual private networks.
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Venue, duration and registration

Stormshield conducts training sessions, either onsite at its offices in Paris, Lille and Lyon, or online.

Our instructors are also equipped to conduct in-company training (onsite or online) for groups of at least five trainees.

The duration of the FSNOT course is 14 hours over two consecutive 7-hour days for in-person sessions, or one 7-hour day and two half-days lasting 3.5 hours for the online version.

All registration requests must be sent to Stormshield's training department (training@stormshield.eu). Each session is open to a maximum of eight trainees.

Within the framework of our training courses, it is possible to welcome people with disabilities after evaluation of the nature of the disability. In order to anticipate the needs and study the necessary compensations, it is requested to inform the training department about it before booking a seat.

Cost

This course is part of a package consisting of a 2-day FSNOT course and a 1-day CSNOT course. A description of the CSNOT course is given in its own course outline.

The public price of this course is €2550 before tax for 21 hours of course time and two online attempts at the CSNOT certification.

Requirements and hardware specifications

Sound knowledge of TCP/IP, prior knowledge of networking is a bonus.
- Web browser: Chrome 50 (or higher) or Firefox 50 (or higher) with Javascript installed to enable access to the CyberRange platform for practical exercises (only these browsers are supported). Trainees must also hold permissions to install plugins that support video calls
- PC with 6 GB of RAM and an i3 processor without hard disk limits

Additional requirements for the online version of the course:
- Internet access of at least 2 Mbps
- A second monitor of at least 22 inches is recommended

Detailed training program

- Individual introduction of trainees
- Training and certification program
- Stormshield: introduction to the company and products
- Handling the firewall
    o Registering the firewall in the client area and accessing technical resources
    o Resetting the firewall and introduction to the administration interface
    o System configuration and administration privileges
    o Installing licenses and updating the system version
    o Backing up and restoring configurations
- Logs and monitoring
    o Log categories
- Objects
    o Concept of objects and types of objects

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- o Network objects
- Network configuration
    - o Configuration modes on networked appliances
    - o Types of interfaces: Ethernet, bridge, VLAN and GRETAP
    - o Routing types and priorities
- Address translation (NAT)
    - o Translation of outgoing traffic (masquerading)
    - o Translation of incoming traffic (redirection)
- Filtering
    - o Overview of filtering and stateful tracking
    - o Detailed presentation of settings in a filter rule
    - o Sequencing of filter and translation rules
- Industrial application protection
    - o Protocol analysis
    - o Standard application protection
    - o Custom application protection
- Users & authentication
    - o Directory configuration
    - o Introduction to the various authentication methods: LDAP, Kerberos, Radius, SSL certificate, SPNEGO and SSO
    - o Setting up explicit authentication via a captive portal
- Virtual private networks
    - o IPSec VPN (IKEv1 and IKEv2): concepts and overview
    - o Site-to-site tunnels with pre-shared keys