

## Astaro Security Hands-On Training

### Course Overview and Intended Audience

The Astaro Hands-On training is intended for users who already have some experience with Astaro Security Linux and want to broaden their knowledge systematically. In this course special emphasis is placed on the application whereas the product itself has a secondary role.

Typical as well as more complex practical scenarios are analysed, solved and set-up and tested for participants afterwards. Thereby participants establish both product knowledge and solution competence on test systems considering a variety of practical exercises.

Having finished the course participants will possess the following knowledge and expertise.

- Practical use of ASL in the context of typical application scenarios
- Independent configuration, test, log analysis and debugging
- Detailed knowledge on architecture and the configuration of important services
- Configuration and trouble shooting of complex VPN scenarios and IPSec
- Analysing and solving typical network problems in the firewall environment

### Previous Knowledge

Participants should have a basic knowledge of networks and IT security as well as some practical experience and familiarisation with Astaro Security Linux

### Teaching Methods

- Hands-On-Training in test environments provided with the latest technical equipment and a multitude of practical exercises on test systems with slide presentation and practical focus on test systems
- Adaptive adjustment of detail level, subject matter, and course tempo to meet the skill level of participants
- Focus on specific subject if required by participants

### Course Materials

Each Participant will receive:

- Course Materials
- ASL User's Guide
- ASL Product CD
- Certificate of Participation
- Coupon for Certification Exam

## Content Overview

### Brief Overview Astaro Security Linux

- Functions
- Access possibilities
- Basic configuration
- System architecture
- Internal architecture
- Fundamental processes and services
- File system and structure
- Configuration files

### Set up of a Test Net (Lab 1)

- Basic network and interface configuration
- Network Address Translation (NAT)

### Configuration of Packet Filter Rules (Lab 2)

- Definition of hosts, networks, services, groups
- Set-up of packet filter rules for typical protocols and services

### Detection of Attack and Prevention (Lab 3)

- Detection of different stealth scans
- Logging of firewalking-packages
- Detection of actual exploits

### Authentication (Lab 4)

- Authentication with RADIUS
- Authentication with LDAP-Server
- Application for HTTP, SMTP and SOCKS

### Use of Proxy and Tuning (Lab 5)

#### DNS

- Extended DNS basics
- Typical DNS configurations
- Configuration files
- Troubleshooting

#### HTTP

- Typical application scenarios
- Surf Protection profiles
- Configuration files

#### SMTP

- Mail System architecture
- Typical application scenarios
- Configuration files
- Anti-SPAM configuration
- Trouble shooting

### Data Encryption and VPN (Lab 6)

- IPSec in detail
- Typical Topologies and scenarios
- Authentication with X509 certificates
- PKI-hierarchy and cross certification
- Configuration of Astaro IPSec client
- Routing with IPSec
- Dynamic filtering
- Dynamic switching of proxy
- Log analysis and troubleshooting

### System Management (Lab 7)

- Remote administration via IPSec
- Syslog: Concepts and configuration
- Application of monitoring systems
- Log file evaluation with reporting tool

## Exam Certification

The course effectively prepares for receiving the certificate "Astaro Certified Engineer". All exams are web based and held in English. Registration taking scoring are also web based, and can be performed at any time. Exams are multiple-choice. Participants must answer 70 questions within 90 minutes. To pass the exam a score of 70% or higher must be achieved.

## Pricing / Enrolment

The three-day intensive training (ACE-HT) is available in the UK for €1595.00 per participant. The course fee includes all course materials, morning and afternoon refreshments, lunch, course completion certificate and the ACE certification exam.

To book a course or enquire about training dates and venues, please call your account representative or email us at [sales@netsecgroup.com](mailto:sales@netsecgroup.com).