



Endian Certification Programs

	Endian Certified Security Administrator	Endian Certified Security Expert
Description	<p>The ECSA certification validates a network security professional's ability to maintain day-to-day operations of Endian solutions.</p> <p>Proficiencies acquired during this course include setting up network zones and internet uplinks, implementing network policies at the IP level and at the application proxy level, managing users and groups, managing VPN access to protected networks, analysing logs and reports, as well as administrating the Endian hotspot solution. Basic troubleshooting skills using the command line are also taught.</p>	<p>The ECSE is Endian's highest level of professional certification. It is meant for Endian experts capable of planning, implementing, managing and troubleshooting complex network architectures using Endian products.</p> <p>Building upon proficiencies taught at the ECSA level, this course teaches handling various network scenarios by example and best practices and adds deeper knowledge about troubleshooting using built in and external tools to the curriculum.</p> <p>Special focus is put on the candidate's ability to diagnose and repair Endian UTM installations via the command line as well as knowledge about the single components of the software.</p>
Prerequisites	Knowledge of TCP/IP and routing fundamentals	ECSA
Location	Endian Headquarters Milan, Italy	Endian Headquarters Milan, Italy
Duration	2 days	3 days
Target groups	<ul style="list-style-type: none"> System administrators Security consultants Network engineers System integrators 	<ul style="list-style-type: none"> Network engineers System integrators
Exam	Web-based exam included in the course; if failed, exam can be retaken (30 days retake policy)	Hands-on assignment in the afternoon of the 3rd day of the course; if failed, third day of the course can be retaken
Application	<p>Online at:</p> <p>www.endian.com/en/partner/certificationprograms/</p>	<p>Online at:</p> <p>www.endian.com/en/partner/certificationprograms/</p>

Detailed Course Programs



Introduction

- General Information on Endian UTM
- Endian UTM feature list; versions; appliances
- The Endian Training Environment

Basic Installation and Configuration Setup

- Installation of Endian UTM software appliance
- GUI access from a browser; SSH access from command line interface
- GUI interface
- A Network configuration

Simple configurations

- ISO/OSI model and TCP/IP model
- Zone concept: green zone/red zone
- DHCP server
- Traffic routing and firewall rules experiments (outgoing firewall)
- DNS, POP3 and HTTP proxy

Complex configurations

- Using the training environment with different Endian UTM and other hosts
- Backup uplinks
- Servers network (DMZ): orange zone
- Routing; zone firewall; port forwarding/DNAT
- SMTP proxy: virus filter, anti-spam, Commtouch and Sophos
- VPN Connections using OpenVPN

Endian Hotspot

- Wireless zone: blue zone
- Endian Hotspot

Endian Network

- System information
- Remote support
- Software update and Early Adopters

Troubleshooting

- Basics of Linux CLI
- TCP/IP tools on Windows and Linux
- ICMP diagnostic
- Logs on Endian UTM
- Backup and restore settings

Exam



Introduction

- Overview of ECSE material

Advanced layer 3 configuration

- Static routing and policy routing
- Handling multiple uplinks and automatic uplink failover
- Handling multiple interfaces per zone and filtering at the interface level; VLANs

Advanced Virtual Private Networks

- Setting up OpenVPN; routing issues with OpenVPN setups; gateway setups and road warrior setups
- Setting up IPsec; IPsec interoperability

Hands-on proxy setups

- Anatomy of the HTTP proxy: the squid, havp and dansguardian components and their configuration
- HTTP authentication backends: local, ldap, AD, radius
- Anatomy of the SMTP proxy: the postfix, amavisd, spamassassin and clam components

Complex Endian Hotspot setups

- Hotspot best practice, tips & tricks

High Availability

- Setting up high availability
- Recovering from fail overs

Command line skills and troubleshooting

- Brush up: basic commands and TCP/IP commands
- Monitoring traffic using tcpdump and iptraf
- The nmap portscanner
- Overview of Endian configuration files and service configuration templates
- Rpm and smart package managers

Exam

Information and Registration

To get information about the available dates and prices, or to register for a course please visit

<http://www.endian.com/en/partner/certificationprograms/>