Device Administration with Cisco ISE

Use Cases, Configuration and Troubleshooting

Administrative access to network devices such as routers, switches or firewalls, e. g. via console or SSH, can be authenticated locally on these devices. However, control via the Cisco ISE is much more flexible, secure and scalable. As part of device administration, users can be managed centrally by the ISE itself or via a connected user database. In addition to authentication, the assignment of rights to administrators (authorization) plays an important role here. The behavior of the shell can be centrally controlled with RADIUS, and even individual commands with TACACS+. Meaningful audit logs are available via centralized reporting and accounting, as may be required in ISO-certified environments. This course highlights the advantages and disadvantages of TACACS+ and RADIUS in device administration and explains the configuration options on the ISE. A basic configuration of a distributed deployment with the various ISE nodes is described, and maintenance measures and the setup of Role Based Access Control (RBAC) are explained. Based on this, the authentication and, in particular, the authorization policy with its various conditions and results are addressed. The necessary peripherals, such as an Active Directory and a Microsoft PKI, are also included.

Course Contents

- Device administration, components and processes
- RADIUS vs. TACACS+
- Overview of the Identity Service Engine
- Licensing and Smart Licensing
- Installation and basic configuration of an ISE
- Node types in ISE deployments
- Device administration - configuration of network devices
- Authentication variants
- Use of external databases
- Policy-based control on the ISE
- Authentication and authorization rules,
- Conditions and results
- Possibilities of shell profiles
- Wildcards and regular expressions in command sets

E-Book The detailed digital documentation package, consisting of an e-book and PDF, is included in the price of the course.

Target Group

The course is intended for those who want to use Cisco ISE for centralized device administration control and/or require centralized audit logs.

Prerequisites

In addition to basic network and IP knowledge, you should have a basic understanding of operating a Cisco network.

This Course in the Web

You can find the up-to-date information and options for ordering under the following link: www.experteach-training.com/go/**ISED**

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On our Website, you can reserve a course seat for 7 days free of charge and in an non-committal manner. This can also be done by phone under +49 6074/4868-0.

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14/07-16/07/25	Frankfurt	24/11-26/11/25 Frankfurt
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Security

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Table of Contents

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ExperTeach Benelux B.V.
Ceresstraat 1· 4811 CA Breda· Phone: +49 6074 4868-0 · Fax: +49 6074 4868-109 · info@experteach.de · www.experteach-training.com