

Oracle Linux 9 Advanced Administration

Duration: 4 Days Course Code: OLAA

Overview:

Oracle Linux 9 Advanced Administration Course Overview

English - Please note this course is only available in English.

Nederlands - Let op: deze training is alleen in het Engels beschikbaar.

Français - Veuillez noter que ce cours est uniquement disponible en anglais.

This highly practical instructor led Oracle Linux 9 Advanced Administration training course is designed to give delegates practical

Target Audience:

Who will the Course Benefit?

This Oracle Linux 9 Advanced Administration course is suitable for Linux System Administrators and DevOps teams to administer, deploy, configure and maintain Oracle Linux and other Red Hat-based Linux distributions.

The course would benefit Administrators who have acquired Unix/Linux System Administration skills to the level covered on the Oracle Linux 9 Administration course.

Objectives:

- Course Objectives
 - On completion of this Oracle Linux 9 Advanced Administration course, the delegate will have gained practical experience of the advanced skills required to configure, run and maintain Oracle Linux systems and other Red Hat-based Linux distributions within an enterprise environment.
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Prerequisites:

- Experience of administering Oracle Linux in an Enterprise environment to the level covered in the Oracle Linux 9 Administration course.
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Follow-on-Courses:

Further Learning

- Linux System Security
 - Apache Web Server
 - Oracle SQL
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Content:

Oracle Linux 9 Advanced Administration
Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: ADVANCED NETWORKING

- Host discovery
- Ethernet bonding
- Channel bonding
- Virtual LANs
- Exercise

Session 2: LINUX AUDITING

- Auditing overview
- Security related log files
- The last and lastb commands
- Understanding Audit records
- Generating Audit queries
- Configuring Auditing and defining rules
- Exercise

Session 3: SYSTEMD UNITS

- Systemd unit overview
- Controlling units
- Creating Service, Timer and Mount units
- Exercise

Session 4: CONFIGURING SUDO

- Sudo overview
- Basic examples
- Command line options
- Sudo aliases, tags and groups
- Sudo password options
- Sudo logging and replay
- Exercise Oracle Linux 9 Advanced Administration Training Course Course Contents - DAY 2

Session 5: MANAGING AND CONFIGURING SELINUX

- SELinux overview
- Viewing and analysing SELinux denials
- Executing SELinux commands
- Configuring temporary and permanent policy changes
- Managing SELinux contexts, ports and Booleans
- Configuring SELinux users
- Relabelling files on boot
- Creating policy modules
- Exercise

Session 6: FILE SHARING WITH NFS AND SAMBA

- NFS overview
- Configuring an NFS server and client
- Configuring AutoFS - The Automounter
- Samba overview
- Configuring a Samba server and client
- Configuring SELinux for Samba
- Exercise

Session 7: CONFIGURING AN FTP SERVER

- FTP services overview
- Configuring Pure-FTP and ProFTPD
- Configuring a VSFTPD server
- Configuring SELinux for FTP
- Creating a Socket unit
- Exercise

Session 8: RAID DEVICES

- RAID overview
- Creating a RAID device
- Viewing RAID arrays
- Hot swapping failed drives
- Exercise Oracle Linux 9 Advanced Administration Training Course Course Contents - DAY 3

Session 9: LOGICAL VOLUMES

- LVM overview
- Creating Physical Volumes, Volume Groups and Logical Volumes
- Creating a striped Logical Volume
- Extending a Volume Group
- Resizing filesystems
- Removing Logical Volumes, Volume Groups and Physical Volumes
- Exercise

Session 10: CONFIGURING FIREWALLD

- Firewalld overview
- Basic firewall-cmd commands
- Managing firewalld services, ports and zones
- Creating firewalld zones and services
- Geolocation blocking with IP Sets
- Configuring Rich Rules
- Installing and configuring fail2ban
- Viewing the fail2ban jail and unbanning IP addresses
- Exercise

Session 11: INTRUSION DETECTION

- Intrusion detection overview
- Installing and configuring AIDE
- Detecting filesystem changes
- Creating a chroot jail
- Exercise

Session 13: SYSTEM MONITORING AND PERFORMANCE

- Performance monitoring overview
- Monitoring processes and collecting system information
- Measuring virtual memory
- Measuring IO performance
- Exercise

Session 14: KUBERNETES

- Kubernetes overview
- Installing and configuring Kubernetes
- Creating a Kubernetes cluster
- Pod overview
- Creating a basic Pod
- Pod namespaces and lifecycles

APPENDIX A: DISK ENCRYPTION

- Creating LUKS partitions
- Creating the filesystem
- Adding mappings

APPENDIX B: AUDIT RECORDS

- The Audit record fields

APPENDIX C: THE UDEV DEVICE MANAGER

- The Udev subsystem
- Configuring Udev and creating rules

APPENDIX D: NFTABLES

- NFTables Overview
- Converting IPTables rules to NFTables
- Using NFTables
- Displaying NFTables rule sets
- Creating an NFTables chain

Session 12: PLUGGABLE
AUTHENTICATION MODULES

- PAM overview
- PAM configuration files
- Restricting access to SSH
- Enforcing password complexity
- Controlling access by time
- Controlling user limits
- Exercise Oracle Linux 9 Advanced
Administration Training Course Course
Contents - DAY 4

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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www.globalknowledge.com/en-be/