

## Oracle Linux 9 Advanced Administration

Cursusduur: 4 Dagen    Cursuscode: OLAA    Trainingsmethode: Virtual Learning

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### Beschrijving:

#### 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

Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor) of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

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### Doelgroep:

#### 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.

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### Doelstelling:

- 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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### Vereiste kennis en vaardigheden:

- Experience of administering Oracle Linux in an Enterprise environment to the level covered in the Oracle Linux 9 Administration course.
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### Vervolg cursussen:

Further Learning

- Linux System Security
  - Apache Web Server
  - Oracle SQL
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## Cursusinhoud:

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

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**Nadere informatie:**

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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