

OS11-ASA: Oracle Solaris 11 Advanced System Administration

Course Code: OS11-ASA

Duration: 5 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

This is an advanced-level course that offers in-depth hands-on experience to candidates. The training provides exposure to high-level system administration tasks. In other words, it primarily polishes the skills learnt in the Oracle Solaris 11 System Administration course.

SKILLS COVERED

- Manage Services and Service Properties Using SMF
- Manage Software Packages by Using IPS
- Manage Data Back Up and Restore by Using ZFS
- Configure Network and Network High Availability
- Administer the Zones
- Securing the Oracle Solaris 11 OS
- Manage Processes and Priorities
- Install Oracle Solaris 11 OS on Multiple Hosts
- Implement System Messaging and Diagnostic Facilities
- Introduce Oracle Solaris 11 on the Cloud

WHO SHOULD ATTEND?

- Data Center Manager
- Network Administrator
- Storage Administrator
- Support Engineer
- System Administrator

PREREQUISITES

Required Prerequisites

- One year experience as an associate Oracle Solaris 11 system administrator
- Oracle Solaris 11 System Administration Ed 6

Suggested Prerequisites

- Basic knowledge of Oracle Solaris 11 system administration

MODULES

Module 1: Introduction

- Course Goals
- Course Agenda
- Introductions
- Your Learning Center
- Your Lab Environment

Module 2: Managing Services and Service Properties Using SMF

- Describe the advanced features of SMF
- Configure SMF services
- Troubleshoot SMF services

Module 3: Managing Software Packages by Using IPS

- Describe Image Packaging System (IPS)
- Configure a local IPS package repository

Module 4: Managing Data Back Up and Restore by Using ZFS

- Plan for data storage configuration and backup
- Manage data redundancy with mirrored storage pools
- Back up and restore data with ZFS snapshots

- Manage data storage space with ZFS file system properties
- Troubleshoot ZFS failures

Module 5: Configure the Network

- Configuring virtual switches
- Configure link aggregation for high performance
- Configure IPMP for IP high availability
- Configure Packet Filter to control network access

Module 6: Administering Network Services

- Configure Network File System (NFS)
- Configure a Domain Name System (DNS) Client
- Configure a Lightweight Directory Access Protocol (LDAP) Client

Module 7: Advanced Administration of Zones

- Explaining the fundamentals of Oracle Solaris 11 zones
- Manage system resources in a zone
- Migrating Oracle Solaris 10 systems
- Configure kernel Zones
- Administer unified archives

Module 8: Securing the Oracle Solaris 11 OS

- Implement user privileges and roles
- Manage privileges
- Manage user rights
- Verify file integrity by using BART
- Monitor the audit service
- Assess the compliance of an Oracle Solaris system

Module 9: Managing Processes and Priorities

- Implement process execution in an appropriate scheduling class
- Manage process scheduling priority

- Configure Fair Share Scheduler (FSS)
- Manage the scheduling class of zones

Module 10: Installing Oracle Solaris 11 on Multiple hosts

- Introduce the Automated Installer
- Configure the AI install server
- Configure the AI client
- Build an Oracle Solaris image

Module 11: Implementing System Messaging And Diagnostic Facilities

- Monitor system logs
- Identify a crash dump file
- Identify a core dump file
- Troubleshoot a script execution issue
- Troubleshoot a software update failure
- Troubleshoot a network connectivity issue
- Troubleshoot a directory access issue
- Troubleshoot a default shell issue

Module 12: Introduce Oracle Solaris 11 on the Cloud

- Explain Oracle Compute Cloud service
- Subscribe to Oracle Compute Cloud service
- Create an Oracle Solaris Instance on the cloud
- Create an SSH-enabled user on an Oracle Solaris instance
- Create a virtualized topology using Orchestration JSONs

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