Oracle Solaris 11 Advanced System Administration

This Oracle Solaris 11 Advanced System Administration training provides an intensive hands-on experience. Expert Oracle University instructors will teach you complex and integrated administration concepts through a combination of lessons and hands-on exercises to reinforce your learning.

Learn To:

- Install Oracle Solaris 11 using the Automated Installer (AI).
- Use the Image Packaging System (IPS) for package management.
- Configure zones and virtual networks.
- Configure IP multipathing.
- Secure the system through the use of privileges and auditing.
- Manage processes and evaluate system resources.
- Discover tools needed to effectively and efficiently troubleshoot software failures.

Benefits to You

Better understand the latest information on security, performance and scalability enhancements which allow customers to run their most demanding enterprise applications in private, hybrid or public clouds. This course builds on the system administration skills taught in the Oracle Solaris 11 System Administration course. You'll work with expert Oracle University instructors to develop a deep understanding of Oracle Solaris 11 that you can leverage in your day-to-day job

Please Note: This is an Advanced Course

This is an advanced course that dives into the details of configuring and administering an Oracle Solaris 11 system. If you don't have Oracle Solaris 11 system administration experience, we recommend that you take the Oracle Solaris 11 System Administration course first. If you have Oracle Solaris 10 experience, we recommend that you take the Transition to Oracle Solaris 11 course first, as it builds on your Oracle Solaris 10 knowledge and provides training that's more tailored to your background.

Prerequisites

Suggested Prerequisite

- Erfahrung mit Oracle Solaris-Zonen
- Kenntnisse des ZFS-Dateisystems

Required Prerequisite

- Oracle Solaris 11 System Administration Ed 3 (DE)
- Kurs „Oracle Solaris 11 System Administration“ oder ein Jahr Erfahrung als stellvertretender Systemadministrator

Audience

- Administrator
- Manager
- Network Administrator
- Systems Administrator

Objectives

- Installing Oracle Solaris 11 OS on Multiple Hosts
- Managing the Image Packaging System (IPS) and Packages
- Managing the Business Application Data
- Configuring Network and Traffic Failover
- Configuring Zones and the Virtual Network
- Managing Services and Service Properties
- Configuring Privileges and Role-Based Access Control
- Securing System Resources using Solaris Auditing
- Managing Processes and Priorities
- Evaluating the System Resources
- Monitoring and Troubleshooting Software Failures

Topics

- Managing the Image Packaging System (IPS) and Packages
  - Implement a plan for Image Packaging System and packages management
  - Configure a local IPS package repository
  - Configure network client access to a local IPS server
  - Manage signed packages and package properties
  - Manage package publishers
  - Manage multiple boot environments
- Installing Oracle Solaris 11 OS on Multiple Hosts
  - Implement a plan a for an Oracle Solaris 11 operating system installation using the Automated Installer
  - Install the Oracle Solaris 11 operating system using the Automated Installer
  - Verify an Oracle Solaris 11 operating system installation
  - Build an Oracle Solaris image using the distribution constructor
- Managing the Business Application Data
  - Implement a plan for data storage configuration and backup
  - Manage data redundancy with a mirrored storage pool
  - Configure data backup and restore by using ZFS snapshots
  - Managing data storage space by using ZFS file system properties

    - Troubleshoot ZFS issues
- Configuring Network and Traffic Failover
    - Implement a plan for network and traffic failover configuration
    - Configure systems on a local network
    - Configure reactive network
    - Configure Network File System (NFS)
    - Configure link aggregation
    - Configure an IPMP group
    - Maintain an IPMP group
    - Implement link failover using IPMP
- Configuring Zones and the Virtual Network
    - Implement a plan to configure Oracle Solaris zones with a virtual network
    - Create a virtual network
    - Configure Oracle Solaris zones to use VNICs
    - Allocate resources to an Oracle Solaris zone
    - Manage virtual network resources
- Managing Services and Service Properties
    - Implement a plan to configure services
    - Configure SMF services
    - Recover a service from a snapshot
    - Troubleshoot SMF services
- Configuring Privileges and Role Based Access Control
    - Implement a plan to configure privileges
    - Implement a plan to configure Role-Based Access Control
    - Examine the process privileges
    - Manage privileges
    - Configure Role-Based Access Control
    - Use Role-Based Access Control
- Securing System Resources using Solaris Auditing
    - Implement a plan for Oracle Solaris auditing
    - Configure Oracle Solaris auditing
    - Administer the audit service
    - Manage audit records
- Managing Processes and Priorities
    - Implement a plan for executing a process in an appropriate scheduling class
    - Manage process scheduling priority
    - Manage the scheduling class of zones
    - Configure the Fair Share Scheduler
    - Monitor the Fair Share Scheduler
- Evaluating the System Resources
    - Implement a plan to evaluate resource allocation and system performance
    - Configure system resources
    - Monitor system performance
- Monitoring and Troubleshooting System Failures
    - Implement a plan for system messaging and diagnostic facilities implementation
    - Configure system messaging
    - Configure system crash facilities
    - Configure dump facilities for business application failure