Oracle Solaris 11 Network Administration Ed 4

Duration: 5 Days

What you will learn

The Oracle Solaris 11 Network Administration course provides students with the knowledge and skills necessary to configure and administer a reliable, scalable, highly available, resource-optimized, and secure enterprise-grade network infrastructure, both physical and virtual, by using the various networking features and technologies in Oracle Solaris 11. Some of the key features of Software Defined Networking (SDN) covered in this course include VNICs, etherstub, VLAN, PVLAN, VXLAN, EVS, and reflective relay.

Learn To:

Explain the fundamentals of networking.
Configure a virtual network.
Configure network high availability.
Configure network services.
Configure network resources.
Implement network security.
Diagnose networking issues.

 Benefits To You

This course uses extensive hands-on approach to explain the networking capabilities introduced, enhanced, or modified in Oracle Solaris 11. Through scenarios and illustrations, the course explains how the network virtualization features and technologies in Oracle Solaris 11 make a good case for network consolidation, geographies notwithstanding. The course also covers some of the observability tools used for diagnosing and troubleshooting networking issues.

Audience
Network Administrator
System Administrator

Related Training

Required Prerequisites

Experience with administering users, packages, SMF services, and applications on Oracle Solaris 11 systems

Experience with installing, configuring, and maintaining Oracle Solaris Zones and Oracle Solaris 11 OS

Transition to Oracle Solaris 11 Ed 5

Suggested Prerequisites
Oracle Solaris 11 Advanced System Administration

Oracle Solaris 11 Advanced System Administration Ed 5

Oracle Solaris 11 Advanced System Administration Ed 6 NEW

Oracle Solaris 11 System Administration Ed 5

Oracle Solaris 11 System Administration Ed 6

Course Objectives
Explain the fundamentals of networking

Configure a virtual network

Configure network high availability

Manage network services

Configure network resources

Implement network security

Diagnose networking issues

Course Topics

Introduction to the course
Overview
Course Goals
Course Agenda
Introductions
Your Learning Center

Networking Fundamentals
Explain the fundamentals of networking
Describe the network stack and the key networking features in Oracle Solaris 11
Explain the role of profile-based configuration in configuring networks in Oracle Solaris 11
Describe the commands to configure and administer networks in Oracle Solaris 11

Configuring a Virtual Network
Explain network virtualization
Configure a virtual network
Configure a virtual network using Virtual LAN (VLAN) and Private VLAN (PVLAN)
Configure a virtual network using Virtual eXtensible LAN (VXLAN)
Configure Elastic Virtual Switch (EVS)

Configuring Network High Availability
Describe high availability (HA)
Configure IP Multipathing (IPMP) for IP failover
Configure link aggregations for high availability
Configure Virtual Router Redundancy Protocol (VRRP) for router failover
Configure Integrated Load Balancer (ILB) to implement load balancing

Configuring Network Services
Configure DHCP for dynamic allocation of IP addresses
Configure DNS for forward and reverse name resolution
Configure LDAP for directory name resolution
Configure SMB for cross-platform resource sharing

Managing Network Resources
Manage network resources using datalink properties
Manage network resources using flows
Monitor network traffic by using observability tools

Implementing Network Security
Administer link protection to prevent threats to the virtual network
Configure the IP Filter firewall to control network access
Configure the OpenBSD Packet Filter (PF) firewall to control network access

Diagnosing Networking Issues
Identify the diagnostic tools and utilities for troubleshooting networking issues
Describe the role of DTrace network providers in observing network behavior