Network Administration for the Oracle Solaris 10 Operating System

Duration: 5 Days

What you will learn

The Network Administration for the Oracle Solaris 10 Operating System course provides students with the knowledge and skills necessary to perform network administration tasks, such as configuration and troubleshooting of a local area network (LAN). This course also provides hands-on experience with topics, such as Internet Protocol (IP) routing, Domain Name System (DNS), Dynamic Host Configuration Protocol (DHCP), IP version 6 (IPv6) and the Solaris IP Filter firewall.

Learn To:

Configure and manage network applications
Configure the Data Link layer
Configure the Internet and Transport layers

Audience

Administrator
Network Administrator
System Administrator

Related Training

Required Prerequisites

Install, configure, and maintain an Oracle Solaris server

Change system run levels

Read and edit system resource files

System Administration for the Oracle Solaris 10 OS Part 1

System Administration for the Oracle Solaris 10 OS, Part 2

Course Objectives

Configure the Network Interface layer

Configure the network (Internet and Transport layers)

Configure and manage network applications

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Introduction
Overview
Course Goals
Course Agenda
Introduction
Your Learning Center

Introducing the TCP/IP Model
Introducing Network Model Fundamentals
Introducing the Layers of the TCP/IP Model
Describing Basic Peer-to-Peer Communication
TCP/IP Protocols

Introducing LANs and Their Components
Introducing Network Topologies
Introducing LAN Media
Introducing Network Devices

Describing Ethernet Interfaces
Introducing Ethernet Concepts
Using Network Utilities

Describing ARP and RARP
Introducing ARP
Introducing RARP

Configuring Internet Protocol
Introducing Internet Layer Protocols
Introducing the IP Datagram
Introducing the IP Address Types
Introducing Subnetting and VLSM
Exploring Interface Configuration Files
Administering Logical Interfaces

Configuring IP Network Multipathing
Increasing Network Availability
Configuring IP Network Multipathing

Configuring Routing
Identifying the Fundamentals of Routing
Introducing the Routing Table
Introducing Routing Protocol Types
Working With the Routing Table
Configuring Static Routes
Configuring Dynamic Routing
Introducing Classless Inter-Domain Routing (CIDR)
Configuring Routing at Boot Time

Configuring IPv6
Describing IPv6

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Describing IPv6 Addressing
Describing IPv6 Autoconfiguration
Describing the IPv6 Unicast Address Types
Describing IPv6 Multicast Address Types
Enabling IPv6
Configuring IPv6 6to4 Router
Managing IPv6

Describing the Transport Layer
Introducing Transport Layer Fundamentals
Introducing UDP
Introducing SCTP
Introducing TCP
Introducing TCP Flow Control
Introducing Secure by Default

Configuring DNS
Introducing DNS Basics
Configuring a DNS Server
Troubleshooting a DNS Server by Using Basic Utilities

Configuring DHCP
Fundamentals of DHCP
Configuring a DHCP Server
Configuring and Managing DHCP Clients
Troubleshooting a DHCP Server
Troubleshooting a DHCP Client

Configuring NTP
Identifying the Fundamentals of NTP
Configuring an NTP Server
Configuring an NTP Client
Troubleshooting NTP

Configuring the Solaris IP Filter Firewall
Identifying the Solaris IP Filter Firewall Basics
Configuring the Behavior of the Solaris IP Filter Firewall

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