

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

Course Topics

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

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