

Oracle Solaris 11 Fault Analysis and Troubleshooting

Duration: 5 Days

What you will learn

no hands-on lab environment for TOD course mediumThe Oracle Solaris 11 Fault Analysis and Troubleshooting course is designed to teach intermediate-level system administrators how to troubleshoot problems.

Learn To:

Use various troubleshooting techniques and tools to analyze and resolve system faults

Troubleshoot problems with booting a SPARC-based system

Troubleshoot problems with IPS and AI

Troubleshoot physical and virtual network issues

Troubleshoot problems with zones

Benefits To You

System administrators will benefit from this course because they are exposed to the types of problems they encounter on the job and given the opportunity to resolve these problems with little to no guidance using the techniques and tools they are presented with in the class. Given a "safe" training environment in which to work through a multitude of system faults, system administrators will leave the course confident in their ability to troubleshoot all areas of the Oracle Solaris 11 operating system.

Hands On Experience

The Oracle Solaris 11 Fault Analysis and Troubleshooting course is designed to teach intermediate-level system administrators how to troubleshoot problems. With extensive hands-on labs taught on SPARC hardware, this course provides system administrators the in-depth experience they need to quickly and expertly troubleshoot a wide-range of system faults.

Note: This course does not address performance management issues. These issues are addressed in the Oracle Solaris 11 Performance Management course. This course does not go deeply into ZFS, DTrace, or Core and Crash dump analysis. These issues are addressed in other Oracle Solaris course offerings.

Audience

Support Engineer

System Administrator

Technical Administrator

Technical Consultant

Related Training

Required Prerequisites

Intermediate-level system administration skills in Oracle Solaris 11

Suggested Prerequisites

Oracle Solaris 11 Advanced System Administration

Oracle Solaris 11 Advanced System Administration Ed 5

Oracle Solaris 11 Advanced System Administration Ed 6

Course Objectives

Troubleshoot issues with booting a SPARC-based system

Troubleshoot Image Packaging System (IPS) issues

Troubleshoot problems with zones

Troubleshoot physical and virtual network issues

Use various troubleshooting techniques and tools to analyze and resolve system faults

Troubleshoot issues using the System Management Facility (SMF)

Course Topics

Analyzing System Failures and Troubleshooting Techniques

Overview of Oracle Solaris System Fault Types

Using Assumptive Troubleshooting Techniques

Mitigate the impact of system faults

Utilizing Useful Troubleshooting Tools in Oracle Solaris 11

Hardware Components

Method for troubleshooting hardware faults

Server Processor (SP)

OpenBoot PROM

Hardware Diagnostics

Troubleshooting Solaris Startup Faults

Oracle Solaris OS Startup

Troubleshooting the System for Booting Problems

Service Management Facility (SMF)

Troubleshooting Image Packaging System (IPS) Problems

Reviewing IPS Features and Functionality

Checking the Basics

Installing and Updating Packages

Fixing Package Problems

Troubleshooting Automated Installer (AI) Problems

Reviewing AI Features and Functionality
Troubleshooting Client Installation Failures
Manually Installing After Booting

Troubleshooting Problems with Zones

Reviewing Zones Features and Functionality
Checking the Basics
Using Zones-related SMF Services
Monitoring Non-Global Zones
Fixing IPS Problems with Non-Global Zones

Troubleshooting Physical and Virtual Network Problems

Reviewing Physical and Virtual Network Features and Functionality
Checking the Basics
Observing the Network

Troubleshooting Workshop

Reviewing the Requirements for the Troubleshooting Workshop