

## Oracle Solaris 11 Fault Analysis and Troubleshooting

**Duration:** 5 Days

### What you will learn

The 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 4

### **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