

Oracle Solaris 11 Performance Management

Duration : 5 Days

What you will learn

This Oracle Solaris 11 Performance Management course introduces you to performance tuning principles. Learn to monitor utilities and use tuning tools for the Oracle Solaris 11 Operating System.

Learn to:

Use the Oracle Solaris 11 OS and third-party tools to analyze performance.

View and set tunable parameters for the global or a non-global zone.

Monitor and report on process and thread activity.

Modify CPU scheduling and virtual memory operations.

Describe system caches and system buses.

Tune I/O, the ZFS File System and network subsystems.

Evaluate system workloads. Assess system performance.

Determine the cause of system performance issues.

Configure system resource for best performance.

Optimize software running on UltraSPARC CMT technology.

Tune the Solaris 11 OS.

Monitor System Efficiency

You'll also review Solaris subsystems and utilities to monitor system efficiency, including: kstat, sar, vmstat, iostat, netstat, mpstat, nfsstat, ps, prstat, pmap, the proc tools, truss, dtrace, the DTrace Toolkit, cputat, cputrack, swap, lockstat and mdb.

Optimize Performance

This course also includes a section about optimizing system resources and tuning Solaris virtualization. You'll also review content related to key Cloud performance technologies, like Solaris Integrated Load Balancer and data flows control.

Hands-On Practice

The Oracle Solaris 11 Performance Management course includes robust hands-on practices. These labs will help you apply best practices and techniques to reinforce critical thinking and skills.

Audience

Data Center Manager

Support Engineer

System Administrator

Related Training

Required Prerequisites

Configure and administer Oracle Solaris 11 networking

Create and manage Oracle Solaris 11 storage

Employ advanced systems administration skills in a networked Oracle Solaris 11 OS server environment Oracle Solaris 11 Advanced System Administration

TRUST-SYSTEMS CONSULTING SARL

N°A6.4, Résidence J, 210 Rue FOCH, AKWA, Douala

BP: 1184 Douala, Cameroun – Tel +237 233 430 911 / +241 03130331

Email : contact@trust-systems.net – site web : www.trust-systems.net

Suggested Prerequisites

Oracle Solaris 11 ZFS Administration
Oracle Solaris 11 Zones Administration

Course Objectives

Identify ways to measure or load subsystems
Configure resource management with zones and pools
Use system monitoring tools including DTrace
Determine the cause of system performance issues
Use system configuration tool.

Course Topics

Introducing Performance Management

Introduction to Performance Management
Performance Analysis Concepts
Monitoring tools in Oracle Solaris 11
System Configuration Assessment

kstat Monitoring Tools

The kstat Monitoring Tools

procfs Monitoring Tools

Introduction to procfs-based tools

DTrace

Introduction to DTrace
DTrace Architecture
DTrace Toolkit
DTrace Virtualization Tool
Other Significant Tools
The swap Utility The cpustat Utility
The mdb Utility
The Solaris Studio dbx Utility

Processes and Threads

Operating System Theory
Process Concepts
Threads and Locking
Process-Related Tunable Parameters
CPU Scheduling Classes
Managing Scheduling Classes

System Caches and Buses

Cache Concepts
CMT architecture
System Buses
Assessing System Buses

System Memory

System Memory Concepts
Virtual Memory 2
Monitoring Memory utilization

ZFS File System

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The ZFS File System
Tuning the ZFS file system

Network Performance Management

Network Performance Concepts
Oracle Solaris 11 Networking
Configuring networks for best performance
Network Resource management
TCP

Network Monitoring

Resource Management

Resource Management

Projects and Tasks

Resource Controls

Resource Pools

Resource Capping

Oracle Solaris Virtualization Performance Management

Oracle Solaris Zones

Oracle Solaris Zones Resource Management

Network Virtualization

Oracle VM Server for SPARC

Applying the Performance Analysis Approach

Performance Testing and Benchmarks

Performance Testing Tools

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