Objective & Audience

Objective
Help you prepare to take the SPARC T4-Based Server Installation Essentials (1Z1-597) exam by providing pointers to resources that you can use in your preparation.

Targeted Audience
- Hardware services/installation engineers
- Solid expertise in Oracle Solaris
- Experience with server installations
Exam Topics & Objectives

Exam Topics
The SPARC T4-Based Server Installation Essentials exam consists of five topics:

1. SPARC T4 Server Overview
2. Oracle Enterprise Installation Standards (EIS)
3. SPARC T4 Server Installation
4. Oracle VM Server for SPARC
5. SPARC T4 Server Maintenance and Diagnostics

Exam Objectives
The exam objectives are defined by learner or practitioner level of knowledge:

- **Learner-level**: questions require the candidate to recall information to determine the correct answer.

  Example: Define the term network.

- **Practitioner-level**: questions require the candidate to derive the correct answer from the application of their knowledge, which can only be attained by extensive experience with the product.

  Example: The client requests xyz functionality, would you recommend a, b or c?
Training Options

For each exam topic, there are multiple training options that are available from Oracle. The training options are divided into three categories:

- **Boot Camps**
  The Boot Camps are designed as a "jump start" or "capstone" training to enhance your skills by providing role-based training on specific Oracle solutions and services. The boot camps are built as concise, intensive, and real-time training to give partners a competitive advantage as they prepare to build powerful solutions for their own customer base. Partners can choose to attend these boot camps in class or in a live virtual class format to maximize the effectiveness and the time allocated to training.

- **Instructor-Led Training (delivered by Oracle University)**
  Partners can take any publicly-scheduled Oracle University courses at steep discounts. Benefit from hands on experience to gain real working skill and work toward Oracle certifications.

- **Online Training**
  Oracle Partners are entitled free access to the Oracle Knowledge Center (OUKC), a vast library of recorded product courses. New courses are regularly added to the library, providing partners with the latest information and training to master new products or to increase proficiency on new releases.
Topic 1: SPARC T4 Server Overview

Objectives

- Describe the target workloads for the SPARC T4 servers
- Describe the SPARC T4 processor architecture
- Describe the SPARC T4 server architecture
- Explain the SPARC T4 cryptographic algorithms
- Explain the SPARC T4 virtualization options

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Training Options

- Boot Camp
  - SPARC T4-Based Server Installation Boot Camp
- Online Training
  - SPARC T4 Systems - Product Essentials For Sales Consultants
  - SPARC T3/T4-Based Servers Architecture and Features
  - SPARC T4 vs. SPARC T3 Server Differences

Sample Question

For the SPARC T4 processor, which feature allows each core to dynamically allocate resources to active strands?

A. Critical Thread Optimization
B. Dynamic Threading
C. Stream Optimization
D. Out-of-Order Execution
Topic 2: Oracle Enterprise Installation Standards (EIS)

Objectives

- Describe the Enterprise Installation Service methodology
- Setup and generate self-contained installation documentation
- Create an installation configuration plan
- Create a test procedures plan
- Explain the hardware acclimatization process
- Describe the cable labeling and routing process
- Describe the electrical grounding requirements
- Describe Oracle Solaris requirements
- Determine boot disk layout and mirroring
- Use Live Upgrade, Boot environment, and Image Packaging System

Level

- Learner
- Practitioner

Training Options

- Boot Camp
  - SPARC T4-Based Server Installation Boot Camp
- Online Training
  - Oracle Enterprise Installation Standards (EIS) Overview
  - Enterprise Installation Standards (EIS): Creating Installation Plans and Documentation
  - Enterprise Installation Standards: Acclimatization of Oracle Hardware
  - Enterprise Installation Standards: Cabling of Oracle Hardware
  - Enterprise Installation Standards: Electrical Grounding of Oracle Hardware
  - Enterprise Installation Standards: Boot Disk Layout & Mirroring
  - Enterprise Installation Standards: Basic Solaris
  - Enterprise Installation Standards: Using Live Upgrade

Sample Question

- Which two are required when migrating from a UFS root file system to a ZFS root pool?
  - A. The ZFS storage pool must be created with whole disks
  - B. The ZFS storage pool must be created with slices
  - C. The ZFS pool must have an SMI label
  - D. The ZFS pool must have an EFI label
Topic 3: SPARC T4 Server Installation

Objectives

- Describe the benefits of electrostatic discharge prevention
- Rackmount the server, cable, and install peripherals
- Configure the service processor
- Secure the service processor
- Update firmware
- Perform host power on and Power On Self Test (POST)
- Verify and/or upgrade RAID controllers
- Install Oracle Solaris
- Test CPU and memory with Oracle Validation Test Suite (OracleVTS)
- Setup and configure Auto Service Request (ASR)
- Run Explorer and register products
- Troubleshoot common installation issues

Level

Learner
Practitioner
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Training Options

- Boot Camp
  - SPARC T4-Based Server Installation Boot Camp
- Online Training
  - Electrostatic Discharge (ESD) Prevention Training
  - SPARC T3/T4-Based Servers Installation and Replacement
  - SPARC T4-Based Servers: Configuring and Updating the Service Processor
  - ILOM 3.0 Interactive Tasks
  - Introduction to Power-On Self-Test (POST) on the SPARC T4-Based Servers
  - Configuring Hardware RAID on SPARC T4-Based Servers
  - Introduction to OracleVTS
  - Introduction to Automatic Service Recovery (ASR)
  - Introduction to Auto Service Request (ASR)
  - Introduction to Oracle Explorer Data Collector

Sample Questions

- You identify a hardware fault, and the fault message begins with “SUN4V”. What detected the fault?
  A. POST
  B. ILOM
  C. PSH
  D. OracleVTS
Topic 4: Oracle VM Server for SPARC

Objectives

- Verify patch and firmware levels
- Install Logical Domains (LDoms) manager
- Harden the control domain
- Configure the control domain
- Install and configure guest domains

Level
Practitioner

Training Options

- Boot Camp
  - SPARC T4-Based Server Installation Boot Camp
- Online Training
  - Oracle VM Server for SPARC Technical Overview
  - Oracle VM Server for SPARC 2.1 Support Readiness TOI
  - Oracle VM Server for SPARC 2.1 Installation and Configuration

Sample Questions

- Which two must be performed in order to gain access to the virtual console of each logical domain?
  A. Create a virtual disk server
  B. Create a virtual switch service
  C. Create a virtual console concentrator service
  D. Enable the virtual network terminal server daemon
Topic 5: SPARC T4 Server Maintenance and Diagnostics

Objectives

- Describe customer and field replaceable components
- Verify system serial number
- Replace the motherboard
- Perform PCIe card and riser removal and installation
- Perform disk, power supply, and fan removal and installation
- Describe memory configuration guidelines
- Describe disk backplane configuration rules
- Describe server management tools
- Collect system error and state information

Level

- Learner
- Practitioner

Training Options

- Boot Camp
  - SPARC T4-Based Server Installation Boot Camp
- Online Training
  - SPARC T3/T4-Based Servers Installation and Replacement
  - SPARC T3/T4-Based Servers Troubleshooting

Sample Questions

- You removed a DIMM filler panel on a SPARC T4-2 server, and did not replace it with another filler panel or a DIMM. What is the potential impact?
  A. Nothing, since DIMM filler panels are optional
  B. The server will fail to boot
  C. The server might overheat due to improper airflow
  D. Memory performance will be reduced
Exam Registration

- **How to register for the exam?**
  You can register for all Oracle certification exams with Pearson VUE. Before a registration can be submitted, a Pearson VUE profile must be created using your Company ID. Your Company ID can be obtained by contacting your local Oracle Partner Business Center or by signing in to your OPN account. Your Company ID is located in the section on the right under "Company information".

  Please follow these instructions in order to properly set-up your Pearson VUE account for the first time.

- **Have you completed an Oracle Certification Exam in the past?**
  Due to systems enhancements, each partner who has completed an Oracle Certification Exam will need to update their Pearson VUE profile in order to receive credit and for those records to appear in the OPN Competency Center.

- **How to get full recognition as Certified Implementation Specialist?**
  To get full recognition as a Certified Implementation Specialist you need to:
  A. Update your Pearson VUE profile with your Company ID
  B. Activate your Certview Account

  Please follow these instructions and your records will be properly recorded.
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