Purpose of this guide

This guide provides information to help you prepare for the Planning and Designing HP Superdome Server Solutions exam (#HP0—302). This guide is not a tutorial, but rather a listing of what you need to know to pass the exam. You need to reference other sources for the actual material to study. If you do not have a strong background and sufficient experience in the areas being tested, then enroll in the training that is recommended in this guide. The training is not mandatory, but it is strongly recommended.

In this guide you will find:

- The certification credential that this exam supports, and prerequisites for the credential
- A description of the certification candidates (target audience) for which this exam is designed
- Exam details, such as its length and the passing score
- A list of the topics covered by the exam
- The training course that is recommended for preparation
- Sample test questions (The questions are not a practice exam, but show the types and complexity of questions contained on the actual exam.)

Certification Requirement

The Planning and Designing HP Superdome Server Solutions exam (#HP0—302) is the core requirement to be certified as an Accredited Presales Consultant – HP Superdome Server Solutions (formerly HP Superdome Configuration Services / Multi-OS.) This credential addresses the Superdome Solution Life Cycle (SLC) and high-level configuration of HP Superdome solutions. The technical skills needed to deploy HP Superdome solutions are not addressed by this credential.
Prerequisite

The following credential is a prerequisite requirement for the Accredited Presales Consultant – HP Superdome Server Solutions certification.

- Accredited Presales Professional: HP Enterprise Solutions

Visit the HP Certified Professional website for additional information about this prerequisite certification (www.hp.com/go/certification).

Audience

This exam is for presales professionals providing technical support to sales account teams within HP, HP channel partner, or HP customer organizations. These individuals provide or will provide HP 9000 Superdome and HP Integrity Superdome high-level system designs during the Superdome Solution Life Cycle (SLC).

The presales professionals most likely to pass this exam have about 2-3 years of experience supporting the sale of HP business-class and enterprise-class solutions (mid-range to high-end servers) within SMB and enterprise environments. Their job tasks are now or are beginning to focus on complex enterprise environments, although they are not responsible for Superdome detailed designs, nor are they expected to implement or deploy solutions.

Candidates for this exam can:

- Articulate HP business class and enterprise class products at a specialist level, and HP solutions and services at a generalist level.
- Position HP mid-range and Superdome server technologies, products, solutions & services against competitors in target markets.
- Recognize HP Superdome opportunities and opportunities for additional products and services.
- Plan and design HP 9000 server and HP Integrity server solutions (mid-range through high-end) that satisfy specific customer requirements. A solution includes application, platform, operating system, storage, network and option components. These professionals may require support from other presales professionals for non-server components in complex configurations.
  - Use design/configuration tools (Visio and Sales Builder for Windows) to configure Superdome high-level designs per SLC.
  - Correctly complete the required parts of a Solution Implementation Plan.
  - Use sizing tools to perform sizing and capacity planning.
  - Describe and implement migration and upgrade strategies.
Presales professionals for whom this exam is targeted are NOT expected to:
- Use design and configuration tools to produce a Superdome detailed solution design.
- Perform a Superdome readiness assessment.
- Facilitate Transition to Operation tasks.
- Serve as the design lead for complex configurations such as Multi-OS installations, upgrades, and complex configurations.

Exam details

Registration

This exam is available at Thompson Prometric Test Centers.

Exam survey

At the beginning of the HP0—302 exam you answer several survey questions about your job role and experience in the areas covered by the exam. Your responses will not impact whether you pass or fail this exam, but they will help the exam development team improve future versions of this exam.

Comments on the exam

During the exam, you can make specific comments about the questions on the exam, such as the technical accuracy of answer choices, the appropriateness of a question for the audience, and so on. HP welcomes your comments and considers them an integral part of our continuous improvement process. Please be aware that comment time is included in the overall time for taking the exam. We suggest you mark the questions you want to comment on as you take the exam, and then when done with the exam revisit the marked items and make comments. This way, if time runs out, you will not be compromising your score.

Details

The following are details about the HP0-302 exam:
- Number of items: 69
- Item types: multiple choice, multiple response, drag and drop
- Time commitment: 90 minutes
- Passing Score: 72% (at least 50 questions correct)
- Reference Material: No online or hard copy reference material will be allowed at the testing site.

Exam content

This section lists the major topics and their supporting objectives covered by the exam. The exam measures your understanding of these topics. The numbers indicate the approximate percentage of exam questions that address the topic or objective. Use this outline to guide your study and to check your readiness for the exam.

<table>
<thead>
<tr>
<th>Topic/Supporting Objective</th>
<th>Approximate % of Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP Superdome Server Architecture and Technologies</td>
<td>32</td>
</tr>
<tr>
<td>Describe HP Superdome server architectures. (PA-RISC, IA64, PA 8800 dual core CPU, bus, crossbar, I/O cards, peripherals, partition manager, system management station, …)</td>
<td>7</td>
</tr>
<tr>
<td>Describe the Multi-OS strategy and Superdome operating environments. (Windows, Linux, HP-UX, OpenVMS, tools, licensing, functionality, …)</td>
<td>7</td>
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<tr>
<td>Compare and contrast the different types of partitioning within the partitioning continuum. (NPAR, vPAR, PRM/WLM, HyperPlex, …)</td>
<td>6</td>
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<tr>
<td>Describe, compare and contrast the HP utility pricing solution offerings. (iCAP, PPU, TiCAP)</td>
<td>6</td>
</tr>
<tr>
<td>Describe, compare and contrast HP Superdome server configurations. (CPUs, I/O, memory, partitioning, …)</td>
<td>6</td>
</tr>
<tr>
<td>Product Features and Benefits</td>
<td>15</td>
</tr>
<tr>
<td>Describe and position the HP9000 Superdome server and identify its target markets.</td>
<td>1</td>
</tr>
<tr>
<td>Describe and position the HP Integrity Superdome server and identify its target markets.</td>
<td>1</td>
</tr>
<tr>
<td>Describe performance benchmarks and Itanium 2 performance features.</td>
<td>1</td>
</tr>
<tr>
<td>Describe HA features of HP Superdome servers. (dynamic processor/memory resilience, Chip kill, hot</td>
<td>3</td>
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</tbody>
</table>
plug PCI, partitioning, clustering, …)

- Describe HP Superdome operating environments and advantages of multi-OS support.
- Describe features and characteristics of partitioning options.
- Overview the HP Superdome Solution Life Cycle (SLC). (phases, tasks, deliverables, responsibilities, …)
- Describe support service offerings and relate to customer needs. (features, target markets, …)

Solution Planning and Design

- Qualifying a HP Superdome server opportunity
- Assessing the customer's need and planning/designing the system configuration. (application, disaster recovery, management, service and support, budget, configuration tools and resources, licenses…)
- Creating a HP Superdome server solution high-level design (tools, procedure, deliverables, SLC process…)
- Engage the SLC team to complete the sales process per defined region procedures. (SLC activities, responsible individuals, SIP, …)
- Planning and designing HP Superdome server add-ons and upgrades (processes, procedures, services, upgrade paths, …)

Marketplace, Competitive Positioning, and Competitive Resources

- Identify competitive resources and competitively position HP Superdome server solutions.
- Describe the competitive strengths and advantages of HP Superdome servers, and describe Superdome marketing strategies.
Recommended Training Course

You are not required to take the instructor-led course listed in this section. However, HP strongly recommends that you attend the class and participate in class activities. It is recommended that you thoroughly review all course material and documents before taking the exam, even if you believe you have sufficient on-the-job experience. You may want to check your local HP certification or training website to see if the course materials are available for purchase separately.

<table>
<thead>
<tr>
<th>Instructor-Led Course</th>
<th>Course Number</th>
<th>How to Enroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning and Designing HP Superdome Solutions V5.21</td>
<td>22873</td>
<td>Please visit your local HP certification website or HP training site to enroll in this 3-day instructor-led course.</td>
</tr>
</tbody>
</table>

Sample Exam Questions

The sample exam questions in this section are similar in format to the questions on the actual exam; however none are on the exam. These questions, like those on the actual exam, vary somewhat in complexity and difficulty. The actual exam may contain a greater percentage of complex (more difficult) questions than the questions in this section. Do not use this set of questions as a practice exam, since they do not cover the full scope of topics on the exam.

1. What is the maximum number of DIMM slots that a single HP Superdome cabinet can contain?
   A. 32
   B. 64
   C. 128
   D. 256
2. What is the maximum number of processor modules and memory in a hardware partition installed in a single HP Superdome cabinet?
   A. 32 single-core or dual-core processor modules and up to 256 DIMMS
   B. 64 single-core or dual-core processor modules and up to 256 DIMMS
   C. 32 single-core or dual-core processor modules and up to 128 DIMMS
   D. 16 single-core or dual-core processor modules and up to 128 DIMMS

3. What is the maximum number of HP Superdome cell boards that can be installed in a single cabinet?
   A. 4
   B. 6
   C. 8
   D. 10

4. Which HP Superdome servers support the PCI-X I/O chassis? Select TWO.
   A. PA-8700
   B. PA-8600
   C. PA-8800
   D. Itanium 2
   E. PA-9000

5. Using 8GB memory modules, what is the maximum amount of memory that can be placed in each cell of an sx1000-based version of Superdome?
   A. 32GB
   B. 64GB
   C. 96GB
   D. 128GB
6. Which category of HP partitions provides isolation of OS and also provides CPU flexibility?
   A. PRM
   B. nPar
   C. vPar
   D. HyperPlex

7. Which type of HP partition supports both CPU granularity and dynamic CPU migration?
   A. PRM
   B. vPar
   C. nPar
   D. floating

8. HP 9000 Superdome servers are best suited for which type of application?
   A. internet services
   B. visualization display
   C. print and file services
   D. enterprise resource planning

9. Which is an appropriate application type for an HP Integrity Superdome server running HP-UX?
   A. cache servers
   B. firewall and proxy
   C. financial processing
   D. load balancing servers
10. What is a good reason for existing HP 9000 Superdome customers to migrate to HP Integrity Superdome?
   A. heterogeneous operating system support
   B. lower power consumption than PA-RISC
   C. no new PA-RISC processors beyond PA-8800
   D. HP-UX 11v1.5 and HP-UX 11v2 are incompatible

11. An HP Integrity Superdome server provides a unique value proposition to customers by supplying __________.
   A. multiple partitioning capability
   B. high availability features
   C. HP-UX, Windows, Linux, and OpenVMS server consolidation
   D. high TPC-C benchmark

12. Which feature of an HP Superdome server allows multiple operating systems in a single complex?
   A. vPar
   B. nPar
   C. SMP feature
   D. crossbar switches

13. Which approach should be used to sell Critical Service (CS)?
   A. target CEOs and CIOs
   B. provide details about every feature
   C. negotiate exclusively with the purchasing agent
   D. allow the customer to limit the discussion to hardware only
14. Which service is most appropriate for customers requiring continuous high availability?
   A. Foundation
   B. Proactive 24
   C. Critical Service
   D. Support Plus 24

15. What is the minimum support service offering that must be sold with HP Superdome servers?
   A. Care Pack
   B. Foundation
   C. Proactive 24
   D. Critical Service Support

16. Who is responsible for managing the customer relationship?
   A. TCE Manager
   B. Deployment Manager
   C. Mission Critical Manager
   D. Accredited Sales Consultant

17. After which activity should you engage a Total Customer Experience (TCE) Manager?
   A. detailed design
   B. budgetary quote
   C. customer Solution Implementation Plan (SIP) sign-off
   D. Site Environmental Readiness Review (SERR) is completed
18. A customer wants to move from a PA-8700 Superdome to a PA-8800 Superdome. Which option is available to lower the customer's costs?

A. in-box upgrade
B. trade-in program
C. modular upgrade
D. swap-out program

Conclusion

HP wishes you success in the HP Certified Professional Program, and in passing this exam for the Accredited Presales Consultant: HP Superdome Server Solutions credential.
### APPENDIX A: Answers to Sample exam Questions

<table>
<thead>
<tr>
<th>Sample Item</th>
<th>Answer</th>
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<tbody>
<tr>
<td>1.</td>
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<td>2.</td>
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<td>3.</td>
<td>C.</td>
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<td>9.</td>
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<td>10.</td>
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<td>16.</td>
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<td>18.</td>
<td>A.</td>
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