Purpose of the Exam Prep Guide

The intent of this guide is to set expectations about the content and the context of the exam and to help candidates prepare for the exam. In this guide, you will find recommended HP training courses, reference and study material to help you achieve a successful passing score.

Studies conducted by HP and Prometric show that a combination of course attendance and self-study maximizes the likelihood of passing the exam on the first attempt.

Audience

This exam is for advanced HP-UX professionals with at least 2-3 years of hands-on experience with HP-UX. Examples of job roles:

- System and network administrators, system integrators, support engineers, and technical consultants.

Certification Requirements

The HP-UX High Availability exam # HP0-914 is an elective requirement to be certified as Certified Systems Engineer (CSE). The HP-UX Advanced Administration (HP0-092) exam plus one of either HP-UX High Availability (HP0-914) or HP-UX Networking and Security (HP0-094) fulfill the requirements for HP-UX CSE. Visit the HP Certified Professional website for additional information, www.hp.com/go/certification.

Prerequisites

The prerequisite for taking this exam is successful achievement of HP-UX Certified System Administrator (CSA). Advanced-level knowledge of HP-UX and at 2-3 years of hands-on experience is expected. Attendance at the HP training courses listed below is highly recommended.
Exam Details

At the beginning of the exam, you will be asked to answer several survey questions. The survey questions are designed to assist the exam development team in accurately profiling test results and to improve future exams.

The following are details about the exam:

- Number of items: 75
- Item types: multiple choice, drag and drop, complex graphical
- Exam time: 120 minutes
- Passing Score: 74%
- Reference Material: No on-line or hard copy reference material will be allowed at the testing site.

Comments on the Exam

During the exam, participants can make specific comments about the items (i.e., accuracy, appropriateness to audience, etc). HP welcomes these comments as part of our continuous improvement process.

Exam Content

The following testing objectives represent the specific areas of content covered in the exam. Use this outline to guide your study and to check your readiness for the exam. The exam measures your understanding of these areas.

<table>
<thead>
<tr>
<th>Objective</th>
<th>HA Concepts and Architecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Describe the purpose, benefit, and implementation choices provided by high availability solutions.</td>
</tr>
<tr>
<td></td>
<td>Describe the various clustering types; including their benefits, strengths and weaknesses, and primary applications.</td>
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<tr>
<td></td>
<td>Identify OLAR components and describe their benefit in a highly available architecture.</td>
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<tr>
<td></td>
<td>Describe the features and benefits of Virtual Server Environment with respect to high availability.</td>
</tr>
<tr>
<td></td>
<td>Identify the single points of failure in an HP-UX environment.</td>
</tr>
</tbody>
</table>

| Objective | Serviceguard Concepts and Architecture |
- Describe where Serviceguard fits into a high availability configuration.
- Describe how operating system and network security affect your Serviceguard configuration.
- Describe how operating system and application performance affect your Serviceguard configuration.
- Identify the SAN architecture and volume management choices in a Serviceguard environment.
- Identify additional Serviceguard cluster technologies to assist in HA designs for disaster tolerant solutions.
- Identify the single points of failure that can be addressed by Serviceguard.
- Describe the components/concepts and key functions of Serviceguard.
- Understand Serviceguard terminology.
- Identify the components of HP Serviceguard Storage Management Suite (SMS) and Cluster File System (CFS) bundles.

### 3.0 Install, Configure and Test a Serviceguard Cluster
- Validate a Serviceguard cluster implementation plan.
- Setup and configure a basic Serviceguard cluster.
- Describe how Serviceguard affects managing LAN interfaces.
- Configure cluster arbitration.
- Configure a basic package to run in a Serviceguard environment.
- Describe and implement rolling upgrades in a Serviceguard environment.
- Verify a Serviceguard cluster operation and failover.
- Identify special tasks necessary when installing a Serviceguard CFS cluster.

### 4.0 Manage and Customize Serviceguard
- Create application monitoring scripts.
- Add a package utilizing application monitoring scripts to an existing cluster configuration.
- Utilize EMS resources within a package.
- Perform package and cluster customization and optimization.
• Use the Enterprise Cluster Master Toolkit (ECMT), HA-NFS Toolkit, and Developer’s Toolbox for integrating an application.

• Understand and implement change management in a Serviceguard environment.

• Use DSAU (Distributed System Administration Utilities) on a Serviceguard cluster.

• Describe the functionality and use of Serviceguard Manager.

• Identify special tasks necessary for Serviceguard CFS cluster management.

5.0 Troubleshooting Serviceguard Clusters

• Identify and resolve common Serviceguard cluster configuration problems.

• Identify and resolve package, failover, and errors on a Serviceguard cluster.

6.0 Serviceguard Extension for RAC (SGeRAC)

• Identify concepts, architecture and operation of Serviceguard Extension for RAC (SGeRAC).

• Determine the appropriate choices for volume and storage management in an SGeRAC environment.

• Describe networking considerations in an SGeRAC configuration.

Recommended Training and Study References

This section lists training courses and documents that can help you acquire a majority of the knowledge and skills needed to pass the exam. You must also gain the practical experience outlined in this guide.

You are not required to take the courses listed in this section. However, HP strongly recommends that you attend the classes, participate in class labs, and thoroughly review all course material and documents before taking the exam, even if you believe you have sufficient on-the-job experience.

Instructor-Led Training

Use the information in this guide and the practical experience you have gained to determine your need for the instructor-led training.
<table>
<thead>
<tr>
<th>Title</th>
<th>Course Number</th>
<th>How to Enroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP Serviceguard I</td>
<td>H6487S</td>
<td>Refer to your regional websites for local training information</td>
</tr>
<tr>
<td>POSIX Shell Programming</td>
<td>H4322S</td>
<td></td>
</tr>
<tr>
<td>Disaster tolerant architectures with Serviceguard, Oracle 9i, and Oracle 10g RAC</td>
<td>U8601S</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

<table>
<thead>
<tr>
<th>Title</th>
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<th>Source/Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP-UX v11 system administration manuals</td>
<td></td>
<td><a href="http://docs.hp.com/hpux/os/11.0/index.html#System%20Administration">http://docs.hp.com/hpux/os/11.0/index.html#System%20Administration</a></td>
</tr>
<tr>
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<td><a href="http://docs.hp.com/hpux/os/11.0/index.html#User%20Guides">http://docs.hp.com/hpux/os/11.0/index.html#User%20Guides</a></td>
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<td><a href="http://docs.hp.com/hpux/os/11.0/index.html#Installing%20and%20Updating">http://docs.hp.com/hpux/os/11.0/index.html#Installing%20and%20Updating</a></td>
</tr>
</tbody>
</table>

**Exam Registration**
For information about exam registration, [click here](http://docs.hp.com/hpux/os/11.0/index.html#).
Sample Test Items

The following examples represent the types of items and question formats that you could see on the exam. These are generic samples and do not reflect the content being tested.

1. Which planet is closest to the Earth?
   A. Mars
   B. Pluto
   C. Venus
   D. Saturn

2. Which planets are “inner planets” — planets found within the asteroid belt? Select TWO.
   A. Pluto
   B. Earth
   C. Neptune
   D. Mercury
   E. Venus

3. Click the Exhibit button.
   What is this constellation called?
   A. Leo
   B. Aries
   C. Orion
   D. Taurus
   E. Gemini
   F. Pleiades
   G. Ursa Minor
H. Ursa Major
I. Andromeda

4. Click the Task button.

Place the planets in order of closest to farthest from the planet Earth.
5. Click the Task button.

Review the picture of the planets and click on Saturn.

Conclusion

HP wishes you success in the HP Certified Professional Program and in passing
the exam for which you are preparing.