

HP ExpertOne

HP2-T21: Administering HP Server Solutions

Industry Standard Servers

Exam preparation guide



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Overview

Requirements for successful completion

This guide helps you to study for the Administering HP Server Solutions (HP2-T21) exam. You can benefit from this guide whether you are attempting to expand your existing HP certifications or you have another vendor certification background and want to get certified with HP.

To pass the exam, you will need to demonstrate your in-depth understanding of the deployment and management technologies and processes to deploy and manage HP Server Solutions based on HP ProLiant ML/DL/SL Server and HP BladeSystem Solutions including the new HP ProLiant Generation 8 (Gen8) Servers.

Why take the exam?

Based on your current achievements, passing this test gives you the necessary component toward achieving:

HP ATP – Server Administrator V8 certification

This certification attests that you can:

- demonstrate your in-depth understanding of the deployment and management technologies and processes to deploy and manage HP Server Solutions based on HP ProLiant ML/DL/SL Server and HP BladeSystem Solutions including the new HP ProLiant Generation 8 (Gen8) Servers.
- describe and configure the HP Systems Insight Manager (HP SIM) home page, create and assign user rights, setup discovery, navigate the system pages for managed systems, describe how to customize status polling and configure event notification.
- develop, test and document an appropriate deployment and management solution for the customer.

Table 1 summarizes the requirements to achieve this certification.

Table 1: HP certification name requirements based on current achievement

		Current achievements
Requirements for HP ATP – Server Administrator V8	Web-based exam – Administering HP Server Solutions (HP2-T21)	Any candidate, this is open to all candidates wishing to achieve this certification X

Who should take this exam?

All candidates for HP ATP – Server Administrator V8 certification must take the Administering HP Server Solutions (HP2-T21) exam.

Although anyone can take the exam, most successful candidates have a minimum of six months experience administering HP server solutions. It is also expected that you will have Industry-standard server technology knowledge from training, hands-on experience or participation in other technical events. This guide describes some of these ways and provides references to materials for further preparation.

How to study for the exam

The Administering HP Server Solutions (HP2-T21) exam tests you on topics that are covered in an HP web-based training (WBT) course (5 days total) and two ILT courses totaling 4 days. This training is recommended for all candidates no matter what their current achievements.

While it is recommended that you complete this training, the training is neither required nor does it guarantee that you will pass the exam. It is expected that you will study on your own and draw on your real-world experience. Also remember that the exam tests you on administration and management concepts, which are covered in a document-based course and real life experiences.

Read the sections below to assess your options. Even if you do not intend to complete the recommended WBTs and document-based course, you should examine the topics that are listed for them in the sections below; the exam will test you on your mastery of these topics.

Table 2: Recommended training based on current achievement

		Current achievements	
		All new candidates	
Courses for the Exam number exam	Insight Control, Foundations of Management & Monitoring with SIM Rev 12.22, WBT, 40 hours		X
	Essentials for HP ProLiant, ILT, 2 days		X
	HP ProLiant Gen8 Capabilities and Technologies, ILT, 2 days		X
	Total recommended training time, 72 hours		

“While it is recommended that you complete this training, the training is neither required nor does it guarantee that you will pass the exam. It is expected that you will study on your own and draw on your real-world experience.

Attend recommended ILTs

- Essentials for HP ProLiant, 2 days
 - This 2-day course provides essential pre-Gen8 ProLiant training to System Administrators responsible for ProLiant servers. Students will be presented with an overview of HP products, tools, agents and utilities that will help them setup, deploy, monitor and maintain their ProLiant servers. Many practical hands-on lab exercises are presented on an HP ProLiant G7 server.
- HP ProLiant Gen8 Capabilities and Technologies, 2 days
 - The core objective of this course is to provide participants with an overview of HP ProLiant Gen8 capabilities, enabling technologies and changes in administration. Key tasks and tools are identified for deployment of ProLiant Gen8 servers from bare-metal. Core administrative tools and differences from previous HP ProLiant generations along with firmware management and intelligent provisioning are among the new capabilities discussed. Finally, this course will show how key new features of the Integrated Management Console will streamline server and infrastructure administration.

“Register for the course in The Learning Center of your HP Partner Portal, which is the HP Learning Management System for HP customers and partners. You will require an HP Learner ID to register for a class. Please obtain this ID and then register for classes at least one week in advance. Costs and scheduling vary according to region.”

Complete recommended WBTs

- Insight Control, Foundations of Management & Monitoring with SIM Rev 12.22, 40 hours

“These WBTs are freely available through the Learning Center of your HP Partner Portal. You will need to register for the WBT, which requires an HP Learner ID. Note that, while it only takes a few minutes to request the ID, the process of activating it up may take several days. Please do not wait until the last minute.”

Exam details

Table 3 provides details about the exam. Please note that this is a web-based exam.

Table 3: Exam number exam details

Parameter	Description
Number of items	55
Item types	Specify the types of items. Commonly used types include: <ul style="list-style-type: none"> • Multiple choice (single response) • Multiple choice (multiple responses) • Point and Click • Matching • Pull-down menu selection
Exam time	90
Passing score	70%
Additional guidelines	As this is an online exam taken from your own computer you are open to use all reference materials.

Exam objectives

In a brief paragraph, introduce the table below, which indicates the specific topics tested by the exam.

Table 4: Exam number objectives

HP2-T21	Sections/Objectives
9%	Fundamental server architectures & technologies <ul style="list-style-type: none"> • Define features/performance/usage of server mgmt technologies • Identify current server OS & virtualization solutions
11%	HP Server products, solutions, & warranty/service offerings <ul style="list-style-type: none"> • Identify HP management tools & solutions
16%	Solution implementation (install, configure, setup) <ul style="list-style-type: none"> • Install/configure HP management software • Validate/test/document the solution
7%	Solution enhancement (performance-tune, optimization, upgrade) <ul style="list-style-type: none"> • Identify the performance management process • Check for known performance issues
13%	Solution troubleshooting, repair, & replacement <ul style="list-style-type: none"> • Gather troubleshooting information & data
44%	Solution management (administrative & operational tasks) <ul style="list-style-type: none"> • Configure HP Systems Insight Manager • Use HP Server Management • Manage/maintain components using appropriate tools

- | | |
|--|---|
| | <ul style="list-style-type: none">• Manage/maintain firmware & drivers• Manage/maintain operating system• Implement service essentials (Insight Remote Support) |
|--|---|

Tips for taking HP exams

Rather than emphasize simple memorization, HP exams attempt to assess whether you have the knowledge and skills that an IT professional requires on the job. Therefore, many test items present a scenario, which outlines a particular environment or problem. Some test items also include exhibits that need to be used to answer the test item correctly. Exhibits might show:

- iLO interface screenshot
- HP Insight Diagnostics choice selection screenshot
- Screenshot showing the results of executing a command
- SIM Web browser interface screenshot

The test may include:

- Multiple choice questions that have a single correct answer
- Multiple response questions that have two or more correct answers
- Pull-down or Matching items
- Point-and-click questions that require you to click on the correct answer

Before you answer a question, take the time to read the entire question and all of the options carefully. If the question indicates that it features an exhibit, study the exhibit and reread the question. Make sure to select the answer that correctly responds to the question that is asked — not simply an answer that includes some correct information.

If the question asks for more than one answer, remember to select each correct answer. You do not receive partial credit for a partially correct answer.

ExpertONE exams will be presented in blocks, also known as sections. You can move from question to question within the block, and/or skip questions and/or change your answers. However, once you submit your answers for each block, you cannot return to a previous block to review these questions or change your answers.

Register


To register for this exam, visit the PearsonVUE website at: <http://www.PearsonVUE.com/hp>

You will need an HP Learner ID and a PearsonVUE ID. Visit <http://www.hp.com/certification> to obtain access to The Learning Center.”

Sample questions

Use the following questions to help to assess whether you are ready to take the exam.

1. Which HP Power Regulator mode will result in the most power consumption?
 - (a) OS Control Mode
 - (b) HP Static Low Power Mode
 - (c) HP Dynamic Power Savings Mode
 - (d) HP Static High Performance Mode

2. What does the  icon indicate in the Display column for Insight Control performance management?
- (a) The system has performance issues.
 - (b) The system is not licensed properly.
 - (c) There is no ping response from the server.
 - (d) Performance management is not installed on the CMS.
3. Which secure communication method does HP Systems Insight Manager (HP SIM) use to communicate with the Version Control Agent (VCA)?
- (a) STE
 - (b) SSO
 - (c) HTTP
 - (d) SSH
4. You are creating a new repository in HP SUM. Which update options are available? (Select two.)
- (a) Software Only
 - (b) Use Local Server Only
 - (c) Allow Automated Updates
 - (d) Full Updates Only
 - (e) Firmware Only
5. You need to find out whether there are any issues related to SAS hard drives on ProLiant BL460c Gen8 servers. What are two ways to finding that information on HP Support Center? (Select two.)
- (a) From the left pane, click the **Advisories** link.
 - (b) Select the **Knowledge Base** tab and go to **Most Viewed Solutions**.
 - (c) Select the **Forums** tab and enter the blade and drive in the search field.
 - (d) Enter the product number of the BL460c server and search.
 - (e) Follow a product selection tree until you reach the model.
6. Which tab in HP Insight Diagnostics provides detailed system configuration information?
- (a) Diagnose
 - (b) Survey
 - (c) Status
 - (d) Logs
7. In the Intelligent Provisioning interface, what is the correct setting for ensuring maximum processor performance at all times?
- (a) C6 State
 - (b) Auto
 - (c) No C-states
 - (d) Full Interleaving

8. What information can be read from the Active Health System log file (.ahs) using Notepad?

- (a) warranty or service contract number
- (b) last error logged
- (c) system name, OS version
- (d) customer information

Conclusion

“HP wishes you success in passing the exam and joining the HP ExpertOne program.”

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Exam Preparation Guide / [Month 20XX]

