

HPE AI Solutions

Exam description

This exam tests your advanced knowledge of designing and implementing AI solutions, including data preparation, rapid model development, tuning, and deployment practices.

Ideal candidate for this exam

Typical candidates for this exam are data professionals, including data scientists, data analysts, AI architects, ML engineers, DevOps practitioners, and others.

Exam contents

This exam has 50 questions.

Advice to help you take this exam

- Complete the training and review all course materials and documents before you take the exam.
- Exam items are based on expected knowledge acquired from job experience, an expected level of industry standard knowledge, or other prerequisites (events, supplemental materials, etc.).
- Successful completion of the course or study materials alone, does not ensure you will pass the exam.

Exam preparation resources

- HPE ASE - AI solutions modular curriculum (HPE Tech Pro)

Objectives

This exam validates that you can:

Exam ID	HPE0-V31
Exam type	Proctored
Exam duration	1 hour 30 minutes
Exam length	50 questions
Passing score	65%
Delivery languages	English

Register for this Exam

First-time users: Learn how to access, schedule, and take an exam through the HPE credential management platform.

No reference material is allowed at the testing site. This exam may contain beta test items for experimental purposes.

During the exam, you can make comments about the exam items. We welcome these comments as part of our continuous improvement process.

Percentage of Exam	Sections/Objectives
20%	<ul style="list-style-type: none"> • Understand fundamental AI concepts. • Assess customers' AI maturity, workloads, and use cases. • Position HPE AI solutions based on customers' AI maturity, workloads, and use. • Describe the infrastructure components of HPE Private Cloud AI with NVIDIA. • Explain the benefits of HPE and NVIDIA infrastructure.
20%	<ul style="list-style-type: none"> • Explain how this infrastructure meets AI workload requirements. • Describe the software components of HPE Private Cloud AI with NVIDIA. • Explain the benefits of HPE and NVIDIA software components. • Size HPE Private Cloud AI with NVIDIA solutions using appropriate customer information and HPE tools. • Configure and quote HPE Private Cloud AI solutions using appropriate HPE tools.
25%	<ul style="list-style-type: none"> • Determine which services to attach to HPE Private Cloud AI. • Understand the delineation of responsibilities for HPE Private Cloud AI between HPE and the customer (or partner). • Prepare HPE Private Cloud AI for use including tasks such as installing a trusted certificate, establishing projects, and setting up data sources. • Navigate the HPE AI Essentials interface and demonstrate how to access built-in tools. • Demonstrate how to serve models using HPE Private Cloud AI with NVIDIA.
15%	<ul style="list-style-type: none"> • Describe the benefits of NVIDIA software, such as NIMs. • Use HPE Private Cloud AI and HPE AI Essentials to demo a simple AI use case. • Use NVIDIA blueprints. • Describe the benefits of data engineering and data analytics tools included in HPE AI Essentials. • Use data engineering and data analytics tools included in HPE AI Essentials to support AI needs.
20%	<ul style="list-style-type: none"> • Meet changing customer requirements (such as for software updates and expansions) for HPE Private Cloud AI. • Monitor, troubleshoot, and investigate performance issues on HPE Private Cloud AI solutions, including air-gapped systems. • Given a scenario, design an edge inferencing solution, including selecting the correct servers, GPUs, and networking. • Explain the benefits of HPE AI optimized solutions. • Identify and describe solutions in HPE's HPC compute portfolio, including their benefits. • Describe HPE management tools for HPE's HPC solutions.

Sample questions

Sample questions are provided only as examples of question style, format and complexity/difficulty. They do not represent all question types and do not reflect all topic areas. These sample questions do not represent a practice test.

1. You want to demonstrate to users how to deploy model endpoints using the Model Catalog on a new HPE Private Cloud AI system. You have the Private Cloud AI Administrator role. This is the first time that someone has accessed and used HPE AI Essentials on this system, and this software is at v1.11. What is one prerequisite that you must complete before deploying the model endpoint?
 - a. Adding a valid NGC API key to the built-in AI Essentials NGC Catalog
 - b. Downloading a NIM for the NGC catalog on your local machine and uploading it as a packaged model to HPE Machine Learning Inference Software
 - c. Defining an autoscaling policy in Model Catalog settings
 - d. Settings GPUs to "true" in the HPE Machine Learning Inference Software settings

Answers

This section provides answers to and references for the sample questions.

1. You want to demonstrate to users how to deploy model endpoints using the Model Catalog on a new HPE Private Cloud AI system. You have the Private Cloud AI Administrator role. This is the first time that someone has accessed and used HPE AI Essentials on this system, and this software is at v1.11. What is one prerequisite that you must complete before deploying the model endpoint?
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 - c. Defining an autoscaling policy in Model Catalog settings

d. Settings GPUs to "true" in the HPE Machine Learning Inference Software settings

References

HPE AI Solution Student Guide: Module 7, "Add the key to the NVIDIA NGC Catalog"

For more information

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