

Architecting Advanced HPE Server Solutions Rev. 16.21

Course Summary

Description

This course teaches advanced level HPE Servers technologies with topics that include: HPE Apollo Servers, HPE Moonshot Servers, HPE Integrity SuperDomeX Servers, Management Tools, and Customer Engagement Skills.

Objectives

At the end of this course, students will be able to meet the following objectives:

- Recognize industry trends.
- Gather customer requirements.
- Advanced Architecture for Server Solutions.
- HPE Apollo Solutions for HPC.
- HPE Apollo 4000 for Data-Driven Organizations.
- HPE Moonshot Solutions
- HPE Integrity SuperDomeX Solutions
- Monitoring and Managing HPE Solutions
- Working with Customer Business Financials

Topics

- Recognize Industry Trends
- Gather Customer Requirements
- Advanced Architecture for Server Solutions
- HPE Apollo Solutions for HPC
- HPE Apollo 4000 for Data-Driven Organizations
- HPE Moonshot Solutions
- HPE Moonshot Workloads
- HPE Integrity SuperDomeX Solutions
- Monitoring and Managing HPE Solutions
- Working with Customer Business Financials

Audience

This course is ideal for consultants, Pre-sales engineers, Sales engineers, Systems Engineers, Solutions Architects.

Prerequisites

For complete prerequisites and requirements to achieve any of the related certifications or upgrade paths, see the certification description on the HPE Certification and Learning website.

Duration

24 hours

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Course Outline

- I. *Recognize Industry Trends*
 - A. Describe trends affecting enterprises and explain how these trends lead to the four Transformation Areas.
 - B. Describe key business challenges enterprises are facing.
 - C. Review the role of a server architect, emphasizing how the architect helps companies.
 - D. Provide an overview of the HPE enterprise server solutions covered in this course:
 - E. Apollo solutions
 - F. Moonshot
 - G. Integrity Superdome X
- II. *Gather Customer Requirements*
 - A. Identify key decision makers and explain how to engage them in a discussion about the company's business requirements and challenges
 - B. Obtain data and documentation required to understand the company's business requirements
 - C. Explain best practices for creating requirements statements and documents
- III. *Advanced Architecture for Server Solutions*
 - A. Analyze the special needs of data, High Performance Computing (HPC), and mission-critical workloads
 - B. Given a customer's specific requirements, architect a solution for a data, HPC, and mission critical workloads
- IV. *HPE Apollo Solutions for HPC*
 - A. Explain the features and benefits of HPE Apollo 2000, 6000, and 8000 solutions
 - B. Position HPE Apollo 2000 and 6000 solutions for the right use cases and workloads
 - C. Create an implementation plan for an HPE Apollo 2000 or 6000 solution, including plans for the proper performance, scalability, high availability, and management
- V. *HPE Apollo 4000 for Data-Driven Organizations*
 - A. Briefly describe the HPE Apollo 4000 portfolio
 - B. Position HPE Apollo 4000 solutions for the right use cases
 - C. Create an implementation plan for an HPE Apollo 4000 solution, including plans for the proper performance, scalability, and high availability
- VI. *HPE Moonshot Solutions*
 - A. Briefly describe the HPE Moonshot portfolio
 - B. Position HPE Moonshot solutions for the right use cases
 - C. Explain options and best practices for designing the networking component of an HPE Moonshot solution
- VII. *HPE Moonshot Workloads*
 - A. Position HPE Moonshot cartridges for the right use cases and workloads
 - B. Create an implementation plan for the following solutions, including plans for the proper performance, scalability, and high availability:
 - C. Big data and analytics solution
 - D. Video processing solution
 - E. Mobile workspace solution
 - F. Web infrastructure solution
- VIII. *HPE Integrity Superdome X Solutions*
 - A. Explain the benefits of the HPE Integrity Superdome X and describe its available options
 - B. Explain the benefits of nPar and RAS features for HPE Integrity X solutions
 - C. Position HPE Integrity Superdome X solutions for the right use cases
 - D. Create an implementation plan for HPE Integrity X solutions, including plans for the proper performance, scalability, and fault tolerance, high availability, and manageability
- IX. *Monitoring and Managing HPE Solutions*
 - A. Recommend and substantiate the HPE management tools that optimize administrative operations for various customer environments
 - B. Explain the benefits of the HPE Representational State Transfer (REST) application program interface (API)

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Course Outline (con't)

- X. *Working with Customer Business Financials*
 - A. Demonstrate business acumen through an ability to analyze financial statements
 - B. Define basic financial terms used when talking with a customer's executive officers
 - C. Calculate key performance indicators (KPIs) to analyze a customer's financial health and understand industry and company trends
 - D. Use HPE tools analyze a company's financial position