

# HPE Digital Learner Azure Stack Content Pack

<b>HPE Content Pack number</b>	CP007
<b>Content Pack length</b>	22 Hours
<b>Content Pack category</b>	Category 1
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## Why HPE Education Services?

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This 22-hour self-paced eLearning Content Pack provides a high value, high quality and interactive experience for multiple technical and operational roles, such as administrators, architects, engineers and developers who need to install, configure and manage a typical Microsoft Azure Stack private cloud infrastructure environment. The Content Pack includes enhanced on-demand capabilities, such as simulated labs, bookmarking, reference videos, blogs and other relevant information needed to set up and operate a typical Microsoft Azure Stack deployment. Videos and simulations provide hands-on demonstrations, configuration and operational experiences within major aspects of the Azure Stack environment.

## Audience

Anyone involved in the implementation process of Azure Stack – from determining if Azure Stack is a viable solution through implementation—will benefit from the training in this Content Pack.

## Content Pack objectives

- Align your terminology and base concepts of cloud technologies with those used in the course
- Explain how Azure relates to Azure Stack
- Discuss the primary features and functions of Azure Stack
- Describe the HPE Azure Stack Integrated System solution
- Examine the primary concepts around software-defined data center and identify how they are implemented in Azure Stack
- Explain the purpose of the primary software architectural layers of Azure Stack and the components that exist in those layers
- Conceptualize how the Azure Stack resources are used by Azure Stack to provide services
- Access and use the primary methods for interfacing with Azure Stack
- Create plans, offers, and subscribe to them
- Complete some of the more common Azure Stack administrative tasks

## Detailed Content Pack outline

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### Module 0: Course Overview

This module provides an overview of the course content. It also includes an interactive sample of the WBT GUI used in this course to help navigate the UI, learning tools available for interacting with concepts and additional content related to concepts.

#### Outline

- Welcome
  - Course objectives
  - Introduction to WBT GUI
  - Course labs
  - Course reference resources
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### Module 1: Microsoft Cloud Technologies

This module presents an overview of cloud computing technology and Microsoft cloud products. It also presents an overview of the Microsoft Azure product, including its services, marketplace, and infrastructure. In addition, the module presents an introduction and the key concepts of Microsoft Azure Stack. It covers several Azure Stack deployment scenarios, the Azure Stack Integrated Systems solution, and a comparison of Azure and Azure Stack. Finally, it reviews other key cloud technologies.

#### Outline

- Cloud computing
  - Microsoft cloud products
  - Microsoft Azure
  - Microsoft Azure Stack
  - Other cloud technologies
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### Module 2: Azure Stack Architecture

This module provides a review of the architecture and major components of Microsoft Azure Stack. It explains the advantages of the concept of a software-defined data center and describes the use of the Azure Stack Developers Kit and an Azure Stack Integrated System to deploy Azure Stack. The module also explains how to scale an Azure Stack installation. It also covers Azure Stack fault domains. In addition, it presents detailed coverage of the Azure Resource Manager including its architecture and various resource providers.

#### Outline

- Software-defined data center technologies
  - Azure Stack Developers Kit (ASDK)
  - Azure Stack Integrated System
  - Windows Server 2016 Technologies in Azure Stack
  - Scaling Azure Stack installations
  - Azure Stack fault domains
  - Azure Resource Manager (ARM)
- 

### Module 3: Planning and Deploying Azure Stack

This module presents an overview of planning for an Azure Stack deployment. It includes information about capacity planning, the Azure Stack connection model, the identity store, the licensing model, connecting to DNS, working with security certificates, and issues related to network settings. It also covers the HPE planning and installation services that are available.

#### Outline

- Planning to deploy Azure Stack
  - Capacity planning
  - Connection models
  - Identity store
  - Licensing models
  - Domain name services (DNS)
  - Security certificates
  - Network settings
  - Information required for ASIS deployment
  - HPE planning and installation services
-

**Module 4: Managing Azure Stack**

This module presents an overview on managing an Azure Stack deployment, including interfacing with Azure Stack, performing common administration tasks, offering Azure Stack services to tenants, and managing Azure Stack security in the Azure Stack environment. The module also includes several interactive lab simulations to give you hands-on practice with performing some of the tasks that are covered in the course.

**Outline**

- Interfacing with Azure Stack
- Common administration tasks
- Offering Azure Stack services
- Azure Stack security

**Module 5: Using Azure Stack**

This module presents an overview of several aspects of Microsoft Azure Stack, including Azure Stack networking, Azure Stack storage, Azure Stack computing, deploying PaaS app services, and working with the Azure Resource Manager (ARM) templates. The module also includes several interactive lab simulations to give you hands-on practice with performing some of the tasks that are covered in the course.

**Outline**

- Azure Stack networking
- Azure Stack storage
- Azure Stack compute
- ARM templates
- PaaS

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