Discover the key features and functionality of Microsoft Azure Stack.

This course provides you with the knowledge required to deploy and configure Microsoft Azure Stack. You will discuss the differences between Microsoft Azure Stack, Microsoft Azure, and Windows Azure Pack. You will then review Software Defined Networking and configuring resource providers within Microsoft Azure Stack as well as establishing best practices for monitoring and troubleshooting.

What You’ll Learn

- Describe the components and architecture of Microsoft Azure Stack
- Deploy Microsoft Azure Stack
- Understand the Windows Server 2016 features used in Microsoft Azure Stack
- Understand how DevOps use Microsoft Azure Stack
- Offer resources in Microsoft Azure Stack
- Manage IaaS in Microsoft Azure Stack
- Manage PaaS in Microsoft Azure Stack
- Manage updates in Microsoft Azure Stack
- Perform monitoring and troubleshooting in Microsoft Azure Stack
- Understand how licensing and billing works in Microsoft Azure Stack

Who Needs to Attend

This course is intended for service administrators, DevOps, and cloud architects who are interested in using Microsoft Azure Stack to provide cloud services to their end users or customers from within their own datacenter.

Prerequisites

Before attending this course, students must have:

- Working knowledge of Windows Server 2016
- Working knowledge of SQL Server 2014
- Working knowledge of Microsoft Azure
CONFIGURING AND OPERATING A HYBRID CLOUD WITH MICROSOFT AZURE STACK (M20537)
Course Code: 6214

CLASSROOM LIVE $2,995 USD 5 days

Classroom Live Outline

Overview of Azure Stack
- What is Azure Stack?
- Comparing Azure Stack with Microsoft Azure
- Comparing Azure Stack to Windows Azure Pack

Foundational Components of Microsoft Azure Stack
- Windows Server 2016 and System Center 2016
- Identity and Authentication

Deploying Microsoft Azure Stack
- Microsoft Azure Stack Architecture
- Azure Stack Prerequisites
- Installing Azure Stack

Offering Microsoft Azure Stack Resources
- Working with Plans and Offers
- Microsoft Azure Stack Marketplace
- Enabling Multi-Tenancy in Azure Stack
- Integrating Azure Stack with Windows Azure Pack

Microsoft Azure Stack and DevOps
- Technologies used in Microsoft Azure Stack for DevOps
- Azure Resource Manager Templates
- Third-party Resource Providers

Infrastructure as a Service and Microsoft Azure Stack
- Software Defined Networking improvements with Microsoft Azure Stack and Windows Server 2016
• Azure Stack Storage
• Virtual Machines in Microsoft Azure Stack

Platform as a Service and Microsoft Azure Stack
• Understanding the Platform as a Service
• SQL Server and MySQL Server Providers in Microsoft Azure Stack
• App Service Resource Provider
• Azure Key Vault
• Azure Functions

Monitoring in Microsoft Azure Stack
• Field Replaceable Unit
• Azure Stack Control Plane Monitoring
• Patching the Azure Stack Infrastructure
• Monitoring Guest Workloads in Microsoft Azure Stack
• Troubleshooting Azure Stack
• Protecting Azure Stack and Tenant Workloads

License Microsoft Azure Stack and Billing Tenants
• How to license and pay for Azure Stack
• Azure Consistent Usage API
• Business Costs and Models with Azure Stack

Classroom Live Labs

Reviewing the Azure Stack Infrastructure
• Reviewing the Azure Stack Infrastructure Components

Confirming prerequisites and installing Microsoft Azure Stack
• Confirming the prerequisites
• Confirming the installation was successful

Managing Offers and Plans in Microsoft Azure Stack
• Configuring Plans
• Configuring Offers
• Subscribing to an Offer
• Creating a new Marketplace Item

Debugging and Deploying ARM Templates
• Using Windows PowerShell to obtain API versions
• Debug an ARM Template with Visual Studio

Provisioning Storage and Virtual Machines in Microsoft Azure Stack
• Creating a Subscription and Resource Groups
• Creating Storage Accounts
• Creating a Virtual Network
• Creating Virtual Machines

Configuring Platform as a Service in Azure Stack
• Adding hosting servers
• Configuring a Plan and Offer
• Creating SQL Server databases
• Configuring a Plan and Offer for App Service

Troubleshooting and Monitoring Microsoft Azure Stack and Guest Operating Systems
• Monitoring Azure Stack
• Monitoring Guest Operating Systems
• Troubleshooting Azure Stack using the Audit Logs and Alerts

Obtaining Usage Information
• Obtaining tenant and Azure Stack usage information
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VIRTUAL CLASSROOM LIVE $2,995 USD 5 days

Virtual Classroom Live Outline

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Virtual Classroom Live Labs

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  - Monitoring Guest Operating Systems
  - Troubleshooting Azure Stack using the Audit Logs and Alerts

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  - Obtaining tenant and Azure Stack usage information
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Course Code: 6214

PRIVATE GROUP TRAINING 5 days

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