

Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

Duration: 4 Days **Course Code: M-AZ600**

Overview:

This course teaches Azure administrators and Azure Stack Hub operators how to plan, deploy, package, update, and maintain the Azure Stack Hub infrastructure. Lessons include deploying Azure Stack Hub, managing the Azure Stack Hub Marketplace, offering App Services and Event Hub resource providers, managing Azure Stack Hub registration, and maintaining system health.

Target Audience:

Students for AZ-600: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub are interested in becoming Azure Stack Hub operators who provide cloud services to end users or customers from within their own datacenter using Azure Stack Hub. Azure Stack Hub operators responsibilities include planning, deploying, packaging, updating, and maintaining the Azure Stack Hub infrastructure. They also offer hybrid cloud resources and requested services and manage infrastructure as a service (IaaS) and platform as a service (PaaS).

Job role: Administrator

Preparation for exam: AZ-600

Features: none

Objectives:

- Prepare for Azure Stack Hub deployment
- Manage infrastructure certificates for Azure Stack Hub
- Manage Azure Stack Hub registration
- Configure an Azure Stack Hub home directory
- Provision a service principal for Azure Stack Hub
- Recommend a business continuity disaster recovery (BCDR) strategy
- Manage Azure Stack Hub by using privileged endpoints
- Manage Azure Stack Hub Marketplace
- Offer App Services and Event Hub resource providers
- Manage usage and billing

Prerequisites:

Successful Azure Stack Hub students have prior experience with operating systems, virtualization, cloud infrastructure, storage structures, and networking:

- Understanding of on-premises virtualization technologies, including VMs and virtual networking
 - Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies
 - Understanding of Active Directory concepts, including domains, forests, and domain controllers
- M-AZ104 - Microsoft Azure Administrator

Content:

Module 1: Overview of Azure Stack Hub

In this module, you will learn how Azure Stack Hub is an extension of Azure that provides a way to run apps in an on-premises environment and deliver Azure services in your datacenter.

Lessons for module 1

- Why use Azure Stack Hub?
- Azure Stack Hub architecture
- How Azure Stack Hub is managed
- About Resource providers
- Differences between global Azure, Azure Stack Hub, and Azure Stack HCI

Lab : Connecting to Azure Stack using Azure PowerShell

After completing this module, students will be able to:

- Describe edge and disconnected solutions
- Describe Azure Stack Hub integrated systems architecture
- Explain Azure Stack Hub deployment options
- Define differences between Azure Stack Hub, Azure Stack HCI, and global Azure
- Create a custom Azure Stack Hub Marketplace item
- Deploy and update an App Services resource provider
- Plan an Event Hubs resource provider deployment
- Create and manage user subscriptions
- Manage usage and billing in multi-tenant and CSP scenarios
- View and retrieve usage data by using the Usage API
- Recommend a name resolution strategy
- Validate identity provider integration
- Validate certificates
- Recommend a registration mode
- Stack Hub
- Create a custom rol
- Register the guest tenant directory with Azure Stack Hub
- Update the guest tenant directory
- Configure access in Azure e
- Include resource providers such as Event Hubs
- Manage field replacement or repair
- Configure storage targets for infrastructure backups
- Update Azure Stack Hub
- Unlock a support session
- Connect to a privileged endpoint
- Perform system diagnostics by using Test-AzureStack

Lab : Create custom Marketplace Items

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- Manage partitioned GPUs

Module 3: Implement Data Center Integration

In this module, you will learn how prepare an Stack Hub deployment, recommend and validate certificates, and register in a connected and disconnected environment.

Lessons for module 3

- Prepare for Azure Stack Hub deployment
- Manage infrastructure certificates for Azure Stack Hub
- Manage Azure Stack Hub registration

Module 4: Manage Identity and Access for Azure Stack Hub

In this module, you will learn how to configure the Azure Stack Hub home directory, register the guest tenant directory with Azure Stack Hub, and identify an appropriate method for access (service principal, users, groups).

Lessons for module 4

- Manage multi-tenancy
- Manage access

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- Manage partitioned GPUs

Module 5: Manage the Azure Stack Hub Infrastructure

■ Manage partitioned GPUs

Module 2: Provide Services for Azure Stack Hub

In this module, you will learn how to populate Azure Stack Hub Marketplace in a disconnected environment, deploy an App Services resource provider, deploy Event Hubs resource providers, create and manage quotas, plans, offers, and subscriptions, and manage usage and billing.

Lessons for module 2

- Manage Azure Stack Hub Marketplace
- Offer an App Services resource provider
- Offer an Event Hubs resource provider
- Offer services (quotas, plans, offers, and subscriptions)
- Manage usage and billing

Lab : Configuring Offers Plans Services using the Azure Stack Admin Portal

Lab : Add a Linux Image to Azure Stack (Disconnected Scenarios)

Lab : Registering Azure Stack with an Azure Subscription

Lab : Add a Windows Server Image to Azure Stack (Disconnected Scenarios)

Lab : Add a Windows Server Image to Azure Stack (Connected Scenarios)

Lab : Implement MySQL Server Resource Provider in Azure Stack

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In this module, you will learn how monitor system health by using the REST API, monitor system health by using Syslog Server, collect diagnostic logs on demand by using Powershell, configure a storage target for infrastructure backup, and download and import update packages manually.

Lessons for module 5

- Manage system health
- Plan and configure business continuity and disaster recovery
- Manage capacity
- Update infrastructure
- Manage Azure Stack Hub by using privileged endpoints

Lab : Validating ARM Templates with Azure Stack

Lab : Using the privileged endpoint in Azure Stack

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Further Information:

For More information, or to book your course, please call us on +91 40 23222555

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