

# AZ-600T00-A:

## Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

### Course outline

#### 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*

- Azure Stack Hub
- Datacenter integration
- Azure Stack Hub PowerShell
- Module review questions

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

#### Module 2: Provide Services

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 provides, create and manage quotas, plans, offers, and subscriptions, and manage usage and billing.

#### *Lessons*

- Manage Azure Stack Hub Marketplace
- Offer an App Services resource provider
- Offer an Event Hubs resource provider
- Offer services
- Manage usage and billing

- Module review questions

*Lab : Manage offers and plans in Azure Stack Hub*

*Lab : Add custom Marketplace Items by using the Azure Gallery Packager*

*Lab : Validate Azure Resource Manager (ARM) Templates with Azure Stack Hub*

*Lab : Optional Lab : Implement SQL Server Resource Provider in Azure Stack Hub*

After completing this module, students will be able to:

- 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

### 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*

- Prepare for Azure Stack Hub deployment
- Manage Azure Stack Hub registration
- Module review questions

After completing this module, students will be able to:

- 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

## 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*

- Manage multi-tenancy
- Manage access
- Module review questions

*Lab : Delegate Offer Management in Azure Stack Hub*

*Lab : Manage Service Principals in Azure Stack Hub*

After completing this module, students will be able to:

- Register the guest tenant directory with Azure Stack Hub
- Update the guest tenant directory
- Configure access in Azure Stack Hub
- Create a custom role

## Module 5: Manage the Azure Stack Hub Infrastructure

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*

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