



# 20537: Configuring and Operating a Hybrid Cloud with Microsoft® Azure® Stack

**Duration: 5 Days**

**Method: Instructor-Led Training (ILT) | Live Online Training**

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**Certification:** Microsoft Certified: Azure Stack Hub Operator Associate — **Exam:** AZ-600: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub

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## Course Description

This course will provide participants with the key knowledge required to deploy and configure Microsoft Azure Stack.

## Target Audience

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 datacentre.

## Prerequisites

To attend this course, candidates must have:

- Working knowledge of Windows Server® 2016.
- Working knowledge of SQL Server® 2014.
- Working knowledge of Microsoft Azure.

## Course Objectives

Upon successful completion of this course, attendees will be able to:

- 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.



## Course Topics

### Module 1: Overview of Azure Stack

- Comparing Azure Stack with Microsoft Azure
- Comparing Azure Stack to Windows Azure Pack

### Module 2: Foundational Components of Microsoft Azure Stack

- Windows Server 2016 and System Centre 2016
- Identity and Authentication

### Module 3: Deploying Microsoft Azure Stack

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

### Module 4: 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

### Module 5: Microsoft Azure Stack and DevOps

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

### Module 6: 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

### Module 7: 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

### Module 8: 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

### Module 9: 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

## LABS INCLUDED

