

Azure Stack HCI: Workshop

Duration: 3 days

Focus Area: Operations and Monitoring

Difficulty: 300

Intended Audience

Technical roles who are familiar with datacenter technologies such as Hyper-V, SCVMM or VMware vSphere and want to learn Azure Stack HCI.

Overview

The Microsoft Azure Stack HCI Workshop provides students with a comprehensive introduction to the foundations of Azure Stack HCI, including a look at Management, Software Defined Compute, Storage and Networking, as well as understanding the Hybrid Features of Azure, to connect On-Premises Workloads with Azure Features.

Objectives

After completing this training, you will be able to:

- Have a deeper understanding on Software Defined Datacenter, including Compute, Storage, Networking, Security and Hybrid features.
- Ensure readiness of Azure Stack HCI to setup and maintain it.

Delivery model

- We advise to build a customized 3 days agenda using the duration forecast for each module in the delivery guide in ADO.
- There are also predesigned delivery suggestions in ADO, please consider the standard agenda for customers not familiar with Hyper-V.
- Consider this delivery as a modular approach, starting with a suggestion for standard agenda, but able to add / remove modules as agreed with customer.

Day 1

• Introduction to Azure Stack HCI

Overview of Azure Stack HCI Deployment Methods
Overview of Azure Stack HCI Use Cases

• Azure Stack HCI Management

Overview of Azure Stack HCI Management Tools
Deployment Methods of Azure Stack HCI
Managing Azure Stack HCI with Windows Admin Center
Managing Azure Stack HCI with Virtual Machine Manager

• Azure Stack HCI Core Networking

Simplifying the Network
Understanding Network Deployment options for HCI
Understanding the Virtual Switch
Understanding Network Acceleration Technologies
Understanding Virtual Network Adapters

Day 2

• Azure Stack HCI Storage

Overview of Storage Spaces Direct
Understanding of Storage Spaces Direct Components
Understanding of Deployment Methods of Storage Spaces Direct
Understanding Storage Spaces Direct Operations and Monitoring Tools

• Azure Stack HCI Compute

Overview of Hyper-V
Understanding of Virtual Machine Components
Understanding of Failover Clustering
Understanding Virtual Machine High Availability

Day 3

• Azure Stack HCI Hybrid Features

Overview of Azure Hybrid Features
Registering and Connecting to Azure
Understanding Azure Site Recovery
Understanding Azure Backup
Understanding Azure Monitoring
Understanding Azure Arc
Understanding Azure File Sync

Workshop Modules

Introduction to Azure Stack HCI *

- Overview of Azure Stack HCI Deployment Methods
- Overview of Azure Stack HCI Use Cases

Azure Stack HCI Management *

- Overview of Azure Stack HCI Management Tools
- Deployment Methods of Azure Stack HCI
- Managing Azure Stack HCI with Windows Admin Center
- Managing Azure Stack HCI with Virtual Machine Manager

Azure Stack HCI Core Networking *

- Simplifying the Network
- Understanding Network Deployment options for HCI
- Understanding the Virtual Switch
- Understanding Network Acceleration Technologies
- Understanding Virtual Network Adapters

Azure Stack HCI Storage *

- Overview of Storage Spaces Direct
- Understanding of Storage Spaces Direct Components
- Understanding of Deployment Methods of Storage Spaces Direct Understanding Storage Spaces Direct Operations and Monitoring Tools

Azure Kubernetes on Azure Stack HCI Fundamentals

- Understanding AKS on HCI Architecture
- Understanding how to Deploy AKS on Azure Stack HCI
- Understanding the Hybrid Features of AKS on Azure Stack HCI

Pre-requisites

Before attending this course, it is recommended that you meet the following criteria:

- Have a good understanding of Windows Server Core, with a focus on Virtualization

Azure Stack HCI Compute *

- Overview of Hyper-V
- Understanding of Virtual Machine Components
- Understanding of Failover Clustering
- Understanding Virtual Machine High Availability

Azure Stack HCI Hybrid Features *

- Overview of Azure Hybrid Features
- Registering and Connecting to Azure
- Understanding Azure Site Recovery
- Understanding Azure Backup
- Understanding Azure Monitoring
- Understanding Azure Arc
- Understanding Azure File Sync

Azure Stack HCI Security

- Understanding Core Principals for HCI Security
- Evolution of Attacks
- HCI Security Postures
- Zero Trust Architecture

Azure Stack Monitoring and Troubleshooting

- Overview of Azure Stack HCI Monitoring Toolset
- Troubleshooting Virtual Machines
- Troubleshooting Failover Clustering
- Troubleshooting Storage Spaces Direct
- Troubleshooting Software Defined Networking

Azure Stack HCI Software Defined Networking

- Overview of Software Defined Networking
- Understanding Deployment options for SDN
- Understanding Network Controllers
- Understanding Software Load Balancers
- Understanding Gateway Servers
- Managing and Operating a SDN Environment

* Standard delivery agenda

For more information

Contact your Microsoft Account Representative for further details.