

# Azure Stack HCI Essentials

Full Deployment with AKS

## WorkshopPLUS

**Duration:** 3 days

**Focus Area:** Operations and Monitoring

**Difficulty:** 300

The Microsoft Azure Stack HCI Essentials 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.

### Key Features and Benefits

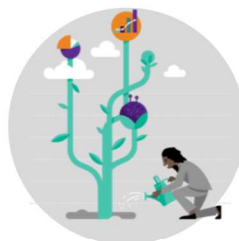
- Key knowledge of Deployment of ASHCI
- Understanding of Software Defined Datacenter
- Understanding of Operating a Hybrid Cloud Deployment

### OUTCOMES



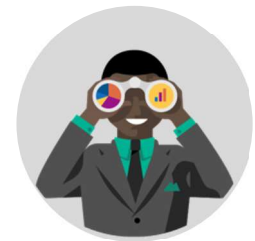
#### Skills

Gain a deeper understanding on Software Defined Datacenter, including Compute, Storage and Networking.



#### Best Practices

Ensure readiness of Azure Stack HCI to setup and maintain it.



#### Way Forward

Translate the learnings into your day to day business to adopt and react on the changes effectively.

### PREREQUISITES

Participants that have existing experience performing basic virtualization tasks as well as basic Azure knowledge will receive the most value from this course.



### Recommended Qualifications

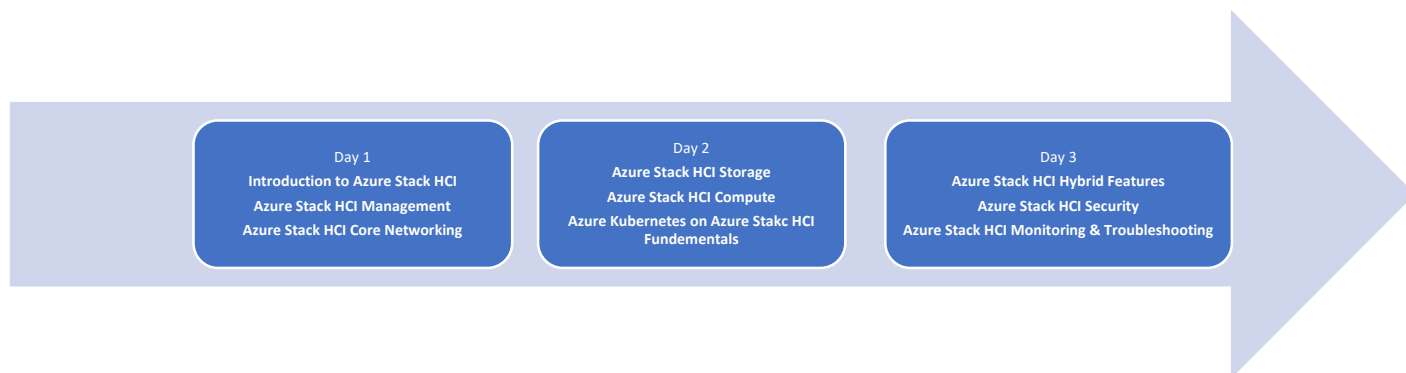
Solid Windows Server Core Skillset, with a focus on Virtualization



### Hardware Requirements

- An Intel Core-i5-based PC
- 4 GB RAM
- 128 GB HDD
- Windows 7 SP1 or later
- Office 2013 Professional Plus
- Internet access with at least 1 Mbps bandwidth per student

## Duration: 3 days




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## SYLLABUS

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### 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 Stack HCI Compute

- Overview of Hyper-V
- Understanding of Virtual Machine Components

- Understanding of Failover Clustering
- Understanding Virtual Machine High Availability

### 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

### 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

**NEXT STEPS:** If you are interested in this WorkshopPLUS for your organization, contact your Microsoft Account Representative.