Azure Stack HCI Essentials

Full Deployment with Software Defined Networking

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.
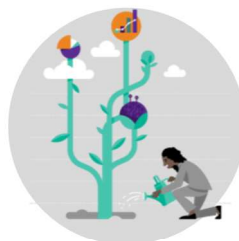
Key Features and Benefits

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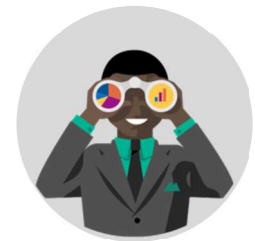- Understanding of Operating a Hybrid Cloud Deployment

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.
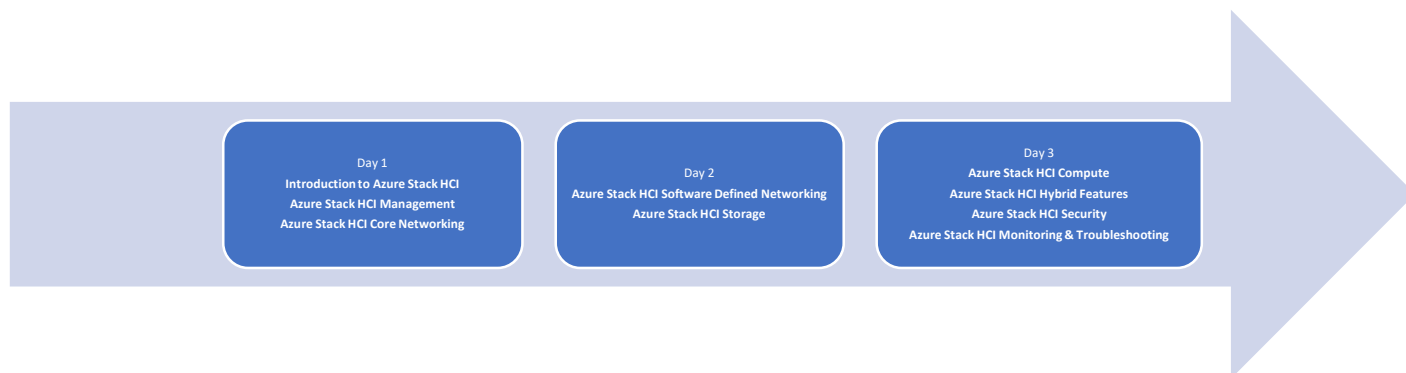
Recommended Qualifications

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

Microsoft

Duration: 3 days

Day 1	Day 2	Day 3
Introduction to Azure Stack HCI **Azure Stack HCI Management** **Azure Stack HCI Core Networking**	**Azure Stack HCI Software Defined Networking** **Azure Stack HCI Storage**	**Azure Stack HCI Compute** **Azure Stack HCI Hybrid Features** **Azure Stack HCI Security** **Azure Stack HCI Monitoring & Troubleshooting**

SYLLABUS

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 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*

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 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.