

Azure Stack HCI: Mastering Hybrid Cloud Infrastructure

2027 17 - 13
Amman (Jordan)

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Azure Stack HCI: Mastering Hybrid Cloud Infrastructure

R2022242811985418 **Location:** Amman (Jordan) **Fees:** 4900 GBP

Why This Course

Azure Stack HCI is a powerful hybrid cloud solution that enables organizations to modernize on-premises infrastructure while extending capabilities through Microsoft Azure services. It supports scalable virtualization, software-defined storage, advanced networking, centralized management, and stronger integration between datacenter environments and the cloud.

This intensive 5-day Azure Stack HCI Training program provides participants with practical knowledge and hands-on skills to deploy, configure, manage, secure, and optimize Azure Stack HCI environments. The course covers cluster planning, software-defined infrastructure, Storage Spaces Direct, Hyper-V, Azure Arc integration, backup and recovery, monitoring, security, automation, performance tuning, and business continuity. Through real-world scenarios and applied exercises, participants will learn how to design and operate resilient hybrid cloud solutions.

What You'll Learn and Practice

By joining this program, you will:

- Understand Azure Stack HCI architecture, components, and use cases.
- Plan Azure Stack HCI deployments based on technical and business requirements.
- Deploy and configure Azure Stack HCI clusters.
- Implement software-defined networking and storage solutions.
- Manage Storage Spaces Direct and storage resources.
- Configure Hyper-V and manage virtual machines.
- Apply high availability and fault tolerance practices.
- Integrate Azure services with on-premises infrastructure.
- Use Azure Arc for unified hybrid cloud management.
- Apply Azure Backup, Azure Site Recovery, Azure Monitor, and security tools.
- Configure advanced networking, software load balancing, and firewall controls.
- Optimize performance, scalability, automation, and disaster recovery planning.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with other pieces like a silver pawn and a gold pawn visible. The background features concentric circles, suggesting a strategic or competitive theme.

The Program Flow

Day 1: Introduction to Azure Stack HCI

- Understand the Azure Stack portfolio and where Azure Stack HCI fits.
- Explore Azure Stack HCI architecture, core components, and deployment models.
- Identify planning requirements, prerequisites, and infrastructure considerations.
- Prepare for initial cluster setup and configuration.
- Understand how Azure Stack HCI supports hybrid cloud transformation.

Day 2: Software-Defined Infrastructure

- Implement software-defined networking concepts in Azure Stack HCI.
- Configure Storage Spaces Direct and manage software-defined storage.
- Manage Hyper-V workloads and virtual machines.
- Apply high availability and fault tolerance principles.
- Understand how software-defined infrastructure improves scalability and resilience.

Day 3: Azure Integration and Hybrid Services

- Integrate Azure Stack HCI with Azure Arc for centralized management.
- Use Azure Site Recovery and Azure Backup to support protection and recovery.
- Apply Azure Monitor for visibility, performance tracking, and operational insights.
- Explore Azure Security Center capabilities for hybrid security management.
- Understand Azure Kubernetes Service on HCI and its role in modern application platforms.

Day 4: Advanced Networking and Security

- Configure network virtualization and advanced SDN features.
- Apply SDN security principles within hybrid infrastructure.
- Implement Software Load Balancing for workload availability and traffic distribution.
- Configure Datacenter Firewall policies and controls.
- Establish VPN and site-to-site connectivity for hybrid network integration.

Day 5: Optimization and Management

- Apply performance tuning techniques for Azure Stack HCI environments.
- Conduct capacity planning for compute, storage, and network resources.
- Use monitoring and troubleshooting methods to maintain operational stability.
- Automate management tasks using PowerShell and Azure CLI.
- Develop disaster recovery and business continuity plans for hybrid cloud solutions.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. The board is checkered, and there are concentric circles in the background.

Individual Impact

- Build confidence in deploying and managing Azure Stack HCI environments.
- Strengthen practical knowledge of software-defined storage, networking, and virtualization.
- Improve skills in Azure integration, monitoring, security, and automation.
- Gain the ability to troubleshoot and optimize hybrid cloud infrastructure.
- Develop stronger capability in planning resilient and scalable HCI solutions.

Work Impact

- Support modernization of on-premises infrastructure with hybrid cloud capabilities.
- Improve infrastructure scalability, resilience, and operational efficiency.
- Strengthen integration between datacenter systems and Azure services.
- Enhance security, monitoring, disaster recovery, and business continuity readiness.
- Reduce operational complexity through centralized management and automation.

Training Methodology

This program combines hybrid cloud concepts with practical Azure Stack HCI implementation through:

- Instructor-led explanations of Azure Stack HCI architecture and deployment models.
- Hands-on cluster configuration and management exercises.
- Storage Spaces Direct, Hyper-V, and SDN practice activities.
- Azure Arc, backup, monitoring, and security integration scenarios.
- Advanced networking, firewall, and connectivity workshops.
- Performance tuning, troubleshooting, and automation exercises.

Beyond the Course

Upon completion, participants will be able to:

- Design and implement Azure Stack HCI solutions.
- Deploy and configure Azure Stack HCI clusters effectively.
- Integrate on-premises infrastructure with Azure services.
- Manage software-defined networking, storage, and virtualization components.
- Optimize hybrid cloud performance, scalability, and security.
- Automate and monitor Azure Stack HCI environments with greater confidence.

A graphic of a chessboard with several pawns. In the foreground, a large gold king piece stands prominently. Behind it, several smaller pawns in silver and gold are positioned on the board. The background features concentric circles, suggesting a signal or network.