

Technical Use Cases For Azure Stack HCI



Branch office and edge



infrastructure







Trusted enterprise virtualisation



Scale-out storage

Leverage your Azure Stack HCI investment to deploy Virtual Desktop Infrastructure (VDI), deliver centralised, highly-available, simplified, and secure management for your organisation end-user computing. Enable scenarios like bring-your-own-device (BYOD), while providing customers consistent and reliable experience to business-critical applications without sacrificing security to your organisation's infrastructure.

Below, you will find a how-to guide for building and deploying VDI environment on Azure Stack HCI, which includes:

- Solution Overview
- Step by step documentation for deploying VDI on Azure Stack HCI

Overview of Virtual Desktop Infrastructure (VDI)

Virtual Desktop Infrastructure, or VDI, uses server hardware to run desktop operating systems and software programs on a virtual machine. For as long as operating system virtualisation existed, VDI offered the flexibility of running traditional desktop workloads, on centralised servers. There is a wide range of advantages to leveraging VDI in a business setting, including keeping sensitive company applications and data in a secure data centre, accommodating a bring-your-own-device policy without worrying about personal data getting mixed with corporate assets, reducing liability when corporate assets are lost - covering both data loss prevention, as well as exposure of sensitive data to potential corporate espionage and/or hackers. In addition, VDI has become the defacto standard for supporting remote and branch workers, as well as providing contractor and partner access.

Azure Stack HCI offers the optimal platform for VDI. Leveraging a validated HCI solution, and Microsoft's mature Remote Desktop Services, customers achieve a highly available, and highly scalable architecture.

In addition, Azure Stack HCI VDI solutions provide unique cloud-based capabilities for protecting VDI workloads and clients:

- Centrally manage updates using Azure Update Management
- Unified security management and advanced threat protection for VDI clients

Learn more

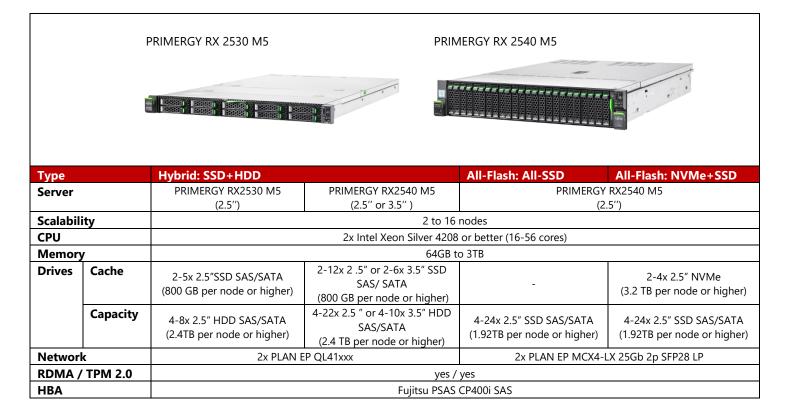




Deploying Virtual Desktop Infrastructure on Azure Stack HCI

1. Supported Configurations

Fujitsu recommends the 1U dual-socket PRIMERGY RX2530 M5 and 2U dual-socket PRIMERGY RX2540 M5 rack server system as the best fit for the Virtual Desktop Infrastructure scenario. Please see below the configuration options that have been certified according to the Azure Stack HCI program.



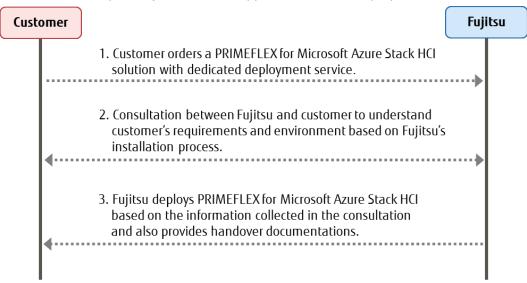


2. Plan Hardware Deployment

Deployment and Support

<u>Fujitsu Product Support Services</u> provide installation and support services for hardware and software. With the Fujitsu SolutionPacks, Fujitsu provides a special Infrastructure Support package that is designed to offer a single point of contact for all components (Fujitsu and third-party) of a Fujitsu infrastructure solution.

Customers can acquire Fujitsu Product Support Services for deployment of Azure Stack HCI the following way:



The following tasks are done by Fujitsu professional engineers:

- All power and network cabling.
- Installation and update Windows Server 2019 Datacentre.
- Configuration of Windows Server 2019 features, cluster, network and Hyper-V.

Infrastructure Management

For an efficient management of the complete hardware infrastructure, Fujitsu recommends <u>Fujitsu Software</u> <u>Infrastructure Manager (ISM)</u> providing a converged management for both the physical and the virtual environment, including compute, storage and network devices. ISM provides the following key features:

- A dashboard with a customisable layout providing you with all relevant information to make quick and proactive decisions
- Monitoring of all critical server components including CPU and memory utilisation
- Alerting in case of system failures to quickly identify affected components
- Firmware updates of all hardware components in a Azure Stack HCI cluster (covers server, storage and switch devices)





Step by Step guide to deploy Azure Stack HCI

- 1. Install Windows Server 2019 Datacentre (follow guidance above for network connectivity for Clustering)
- 2. Add Roles and Features
- 3. Setup Failover Clustering and enable a Cluster Witness
- 4. Setup Storage Spaces Direct

The step 1 to 4 above are done by Fujitsu Product Support Services.

3. Deploy Remote Desktop Services

https://docs.microsoft.com/en-us/windows-server/remote/remote-desktop-services/rds-build-and-deploy

- Deploy the Remote Desktop Services infrastructure
- Create a session collection to hold the apps and resources you want to share
- License your RDS deployment
- Have your users install a <u>Remote Desktop client</u> so they can access the apps and resources.
- Enable high availability by adding additional Connection Brokers and Session Hosts:
 - o Scale out an existing RDS collection with an RD Session Host farm
 - o Add high availability to the RD Connection Broker infrastructure
 - o Add high availability to the RD Web and RD Gateway web front
 - o Deploy a two-node Storage Spaces Direct file system for UPD storage

4. Deploy WAC and enable Cloud-based capabilities

Install Windows Admin Centre (WAC)

From WAC, configure Azure Update Manager and add your VDI clients

From WAC, configure Azure Security Centre and add your VDI clients

Summary

With the completion of a VDI deployment using Azure Stack HCI, you now have a secure and resilient platform for running VDI end-user workloads, built to scale at your customer needs.

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