

AZURE STACK HCI: SCALE-OUT STORAGE



Microsoft Azure Stack HCI solutions provide industry-leading storage performance using leading-edge technologies in primeLine egino HCI Series servers. Technologies like NVMe, Intel Optane DC Memory, and RDMA networking combine to give you blazing fast performance that can scale from just 2 nodes all the way up to 16. Features like mirror-accelerated parity and data duplication ensure you get the most from your hardware investment. Connect it all to Azure File Sync, and you have a virtually bottomless storage solution. Below, you will find a how-to guide for Azure Stack HCI Scale-out storage configurations that includes:

- Plan and deploy primeLine hardware and OS/tools to support Azure Stack HCI Scale-out storage
- Step by step documentation to enable Scale-out storage, including extending to the cloud with Azure File Sync
- 1. Hardware and OS configuration for Scale-out storage configurations

These primeLine egino HCI Series SKUs are recommended for Scale-Out Storage scenarios.

primeLine egino HCI Series 22242i-C624-XN2 primeLine egino HCI Series 22242i-C622-XS1 primeLine egino HCI Series G2 23122i-C624-NAH1 primeLine egino HCI Series G2 22242i-C624-NA1

We recommend to contact our Azure Stack HCI experts for individual configuration for the use case. primeLine offers services for deployment, management and training on the product.





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Step by Step guide to deploy Azure Stack HCl

- 1. Install Windows Server 2019 Datacenter (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
- 5. Install Windows Admin Center (WAC)

From Windows Admin Center (WAC), set up Azure File Sync.

Additionally, you can Set Up additional Azure hybrid services such as Backup, File Sync, Site Recovery, Point-to-Site VPN, Update Management, and Security Center in WAC.



2. Enable general purpose file services on your Azure Stack HCI cluster

Once your Azure Stack HCI cluster setup has been deployed, follow the <u>steps in this article</u> to configure it for general purpose file services.

Windows Failover Clustering supports different kinds of file service roles. The primary focus of this document is the general purpose file server role, appropriate for serving files to information workers and other traditional file services roles. It enables key capabilities like quotas, data deduplication, accessible via multiple protocols like SMB and NFS.

The other is called the "Scale-Out File Server" role, which is designed for hosting virtual machines, high-performance SQL server databases, and other kinds of specialized, high-performance scenarios. The Scale-Out File Server role is not designed for the needs of typical user files, and is outside the scope of this document.

3. Enable Azure File Sync to unify your on-premises file storage

Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. You can use any protocol that's available on Windows Server to access your data locally, including SMB, NFS, and FTPS. You can have as many caches as you need across the world.





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How do I deploy Azure File Sync on Azure Stack HCI?

Note: Updated guidance on how to install and configure Azure File Sync will always be located here.

- a. If you do not already have an Azure account, get your free account here
- b. Evaluate and prepare your environment for Azure File Sync
- c. Create an Azure File Share in the Azure Portal
- d. Deploy the Azure File Sync locally on your Azure Stack HCI cluster

Summary

With completion of the Azure Stack HCI Scale-out storage deployment, you now have a scalable, flexible platform for all of your file serving needs. The addition of Azure File Sync will allow you to centralize and distribute your data quickly and easily among your various sites and users.

