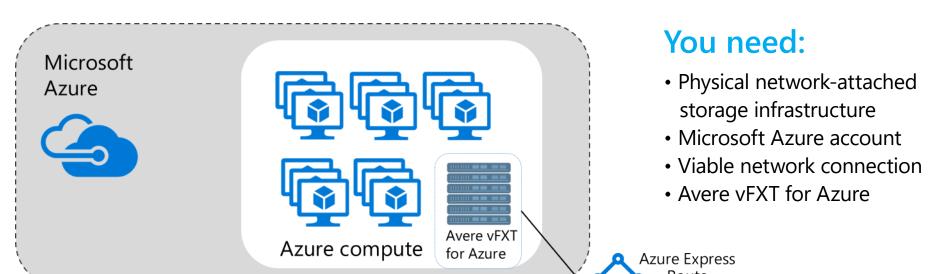
Building a Hybrid Cloud for File-Based Workloads

Run file-dependent applications in the cloud easily and efficiently for big benefits. Consider two options using Avere vFXT that support high-performance computing in Microsoft Azure.

Option 1: Cloud Bursting

Keep your existing storage and take advantage of on-demand compute resources in Azure.

Cloud bursting lets you manage spikes in compute demand by instantly spinning up thousands of virtual machines without moving data.



``		Roule	
On premises		Cloud bursting workloads from on-prem	
	Clients & servers		NAS storage
			and the second se

The Avere vFXT for Azure caches the hot data in Azure SSD for low-latency processing.

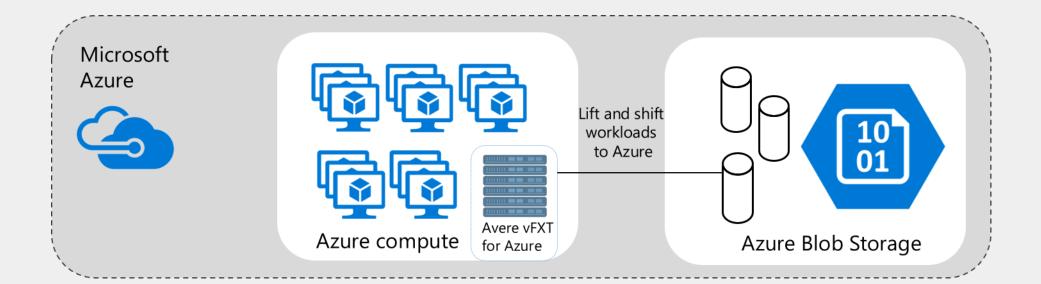
Option 2: Lift & Shift

When data can move to Azure Blob, Avere vFXT lets you process file-based HPC workloads completely in the cloud.

It uses the right storage for low-latency, scalable performance and cost efficiency by caching most active data.

You need:

- Ability to move data to Azure Blob storage
- Microsoft Azure account
- Avere vFXT for Azure



Solution Components

Like any solution, you need to consider compute, storage, and networking.

Compute

- Azure VMs
- Compute instances
- Disks/SSDs
- Network interfaces

Networking

- Azure ExpressRoute
- SSH tunnel, VPN over Internet, or private network link





Storage

- Existing NFS or SMB applications
- NAS core filer storage OR Azure Blob account
- Avere vFXT for Azure
- Operating system installed onto instance disks
- Bootstrap configuration
- Join the nodes into a cluster IP addresses for the clients to mount
- File system namespace access to on-premises data



Prepping for High Performance

Choose a Performant Cloud Instance Type

STR.

 Capable of 10Gbps raw network throughput

Prepare for Scale-out Clustering

Add virtual caching nodes to grow disk capacity and disk/network throughput
Balance client activity across the clustered Avere vFXT nodes to optimize performance Use Azure's Highest Performing Disk Types

- Persistent SSD
- Local SSD

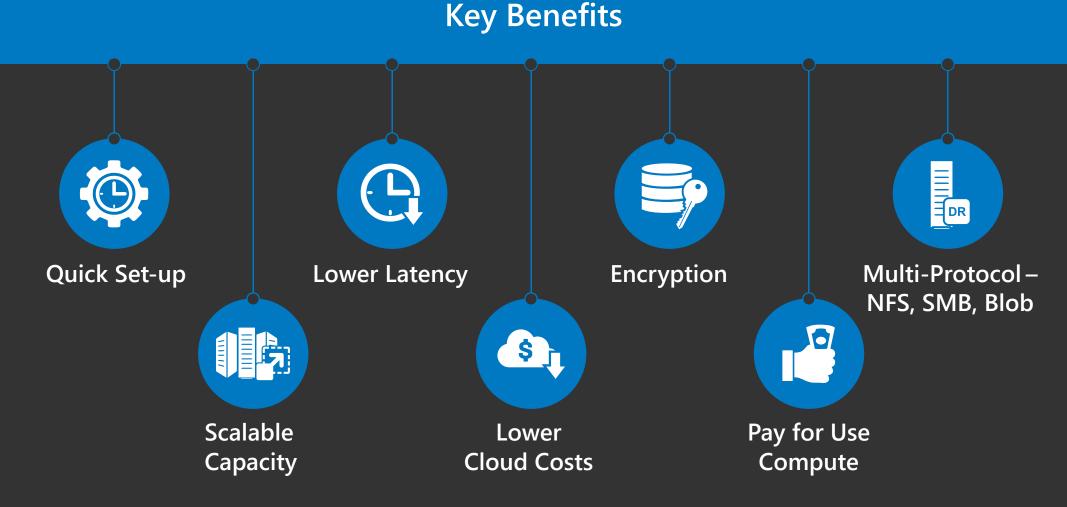
Choose the Right Workloads: File/Directory Caching

ZIP

- Read or Read+Write caching
- Performance vs. Consistency can be dialed-in
- CPU-intensive workloads
 benefit most from scale-out
- I/O intensive workloads benefit most from caching
- NFS, SMB

Bankable Hybrid Benefits

When it comes hybrid cloud for file-based workloads, Avere vFXT for Azure bridges network-attached storage with Microsoft Azure for performance, flexibility, and affordability.



Get started by contacting your Microsoft representative or downloading the Avere vFXT for Azure from the Azure Marketplace.

Aka.ms/avere-vfxt-for-azure

