Fast track to Microsoft Hyper-converged IT

FUJITSU Integrated System
PRIMEFLEX for Microsoft Azure Stack HCI

Microsoft

Windows Server 2019:
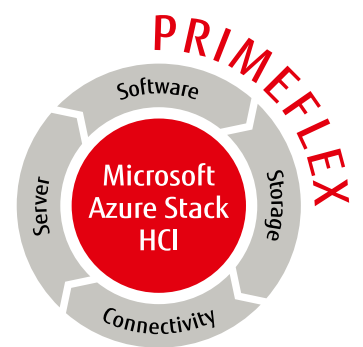The operating system that
bridges on-premises and cloud.

Hyper-converged infrastructures (HCI) are transforming
the economics of IT. Unlike traditional infrastructures,
HCI is software-defined, creating a next generation
data center foundation that's even more cost-efficient,
resilient, and adaptable to changing business scenarios.

PRIMEFLEX

Software · Storage · Connectivity · Server

Microsoft
Azure Stack
HCI

It's no wonder that organizations are keen to take the next step. However, the do-it-yourself
approach to hyper-converged infrastructures is fraught with challenges. Fujitsu can provide an
integrated system that speeds deployment of the core virtual infrastructure foundation for the
data center: **FUJITSU Integrated System PRIMEFLEX for Microsoft Azure Stack HCI.**

PRIMEFLEX for Microsoft Azure Stack HCI is an integrated system that includes all the hardware
and software to simplify procurement and deployment of a Microsoft-based hyper-converged IT
infrastructure. It leverages high performance, energy-efficient FUJITSU PRIMERGY standard x86
servers and the software-defined server and storage technology (Hyper-V and Storage Spaces
Direct) in Windows Server 2019 to reduce complexity and TCO in data center operations. With
Azure hybrid services integrated in Windows Admin Center, organizations easily connect their
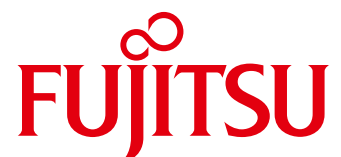on-premises deployment to the cloud.

Your advantages

- Achieve 150k+ IOPS per server
  with sub-millisecond latency
- Scale from 2 to 16 servers and
  up to 4 PB of raw storage
- Get 10x more usable storage
  for free with deduplication
  and compression
- Reduce storage TCO by up to 50%
- Simplify path to hybrid IT

Learn more about PRIMEFLEX for Microsoft Azure Stack HCI:
www.fujitsu.com/global/pf4ashci

shaping tomorrow with you

FUJITSU

Move to a more business-centric IT

As enterprises move to digital business processes, data center operations are challenged to provide a responsive IT infrastructure that satisfies the increasing demand for better service levels. PRIMEFLEX for Microsoft Azure Stack HCI delivers the speed, flexibility, reliability and scalability necessary to deploy a more business-centric IT that's aligned to future business needs.

Need for speed?

PRIMEFLEX for Microsoft Azure Stack HCI features a resource-efficient hypervisor-embedded design in combination with high speed flash disk devices and high throughput, low-latency networking technology. You can therefore set up a high-performance, responsive virtual IT infrastructure that provides consistent IOPS with sub-millisecond response times. In all-flash or hybrid disk configurations, Storage Spaces Direct easily exceeds 150,000 IO operations (IOPS) per server.

Dynamically adapt resources to business needs

Scale-out or scale-in seamlessly as the needs of your organizations change. To scale out, simply add drives or add more servers (up to 16); Microsoft Azure Stack HCI will automatically onboard new drives and begin using them. Windows Server 2019 now supports clusters with up to 4 PB, which is great for media, backup, and archival use cases. To scale-in and remove a server from a cluster, Storage Spaces Direct automatically redistributes data on to the drives of the remaining server nodes.
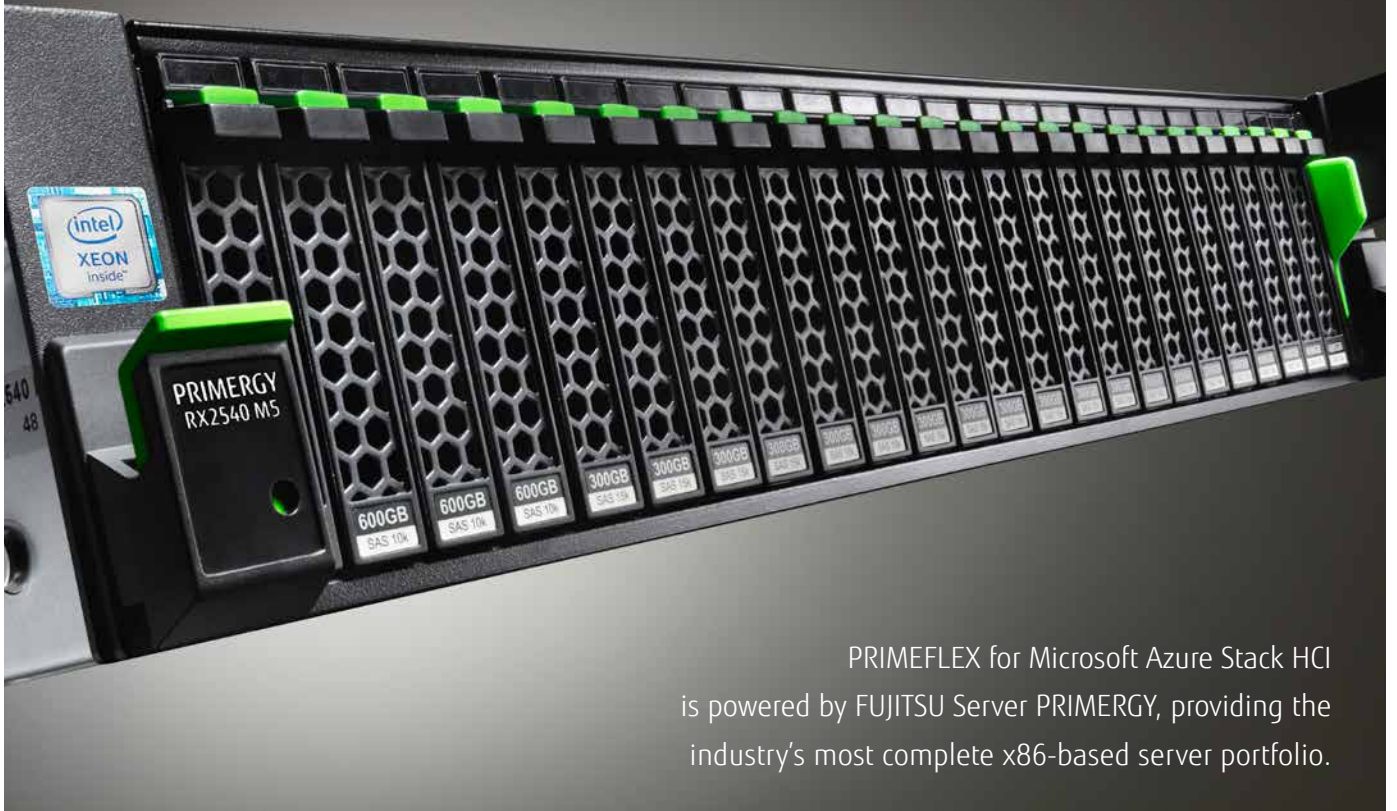
Protect your business

Built-in resiliency handles drive, server, or component failures – delivering continuous availability. If hardware fails, just swap it out; the software heals itself, with no complicated management steps. In order to increase resiliency at the edge, Windows Server 2019 introduced nested resiliency for a two-node cluster to provide continuously accessible storage for apps and virtual machines even if one server node goes down and a drive fails in the other server node.
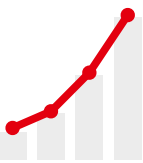
Simplify management

Manage and monitor Microsoft HCI environment with the new purpose-built management tool for Windows Server – Windows Admin Center. No specialized skill or expensive training is required – perfect for environments such as edge, remote or branch office locations with limited IT staff. Once you have the servers mounted and cabled in a rack, Windows Server installed, and networking configured, you're looking at under 15 minutes to get the storage cluster configured.

PRIMEFLEX for Microsoft Azure Stack HCI is powered by FUJITSU Server PRIMERGY, providing the industry's most complete x86-based server portfolio.
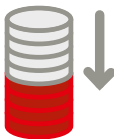
Improve storage efficiency
Get up to 10 times more usable storage for free with deduplication and compression support in Windows Server 2019. Enjoy 2 times better performance in mirror-accelerated parity, a storage configuration to get the best of both – fast write performance and better capacity efficiency than mirroring alone.

Reduce storage costs
PRIMEFLEX for Microsoft Azure Stack HCI uses local storage only. This reduces storage TCO by up to 50% and eliminates the need for extra tools and training for managing complex external SAN infrastructures.

Reduce virtualization software licence costs
The Windows Server 2019 Datacenter licence that comes with PRIMEFLEX for Microsoft Azure Stack HCI already includes all rights to use the integrated server and storage virtualization functionality. There is no need to acquired additional licences for compute and storage virtualization software.

Save floor space, power and cooling
The convergence of compute and storage resources in an industry-standard server reduces your infrastructure footprint, saves floor space, power and cooling expenses.

Simplify path to hybrid IT
Seamlessly connect to Azure cloud to extend your on-premises deployment to a hybrid cloud solution. With the Azure hybrid services in Windows Admin Center, you easily start using the cloud for your hyper-converged infrastructure management, including Azure Site Recovery and Backup, Cloud Witness, Azure Monitor and centralized Azure Update Management.

Microsoft

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The operating system
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The benefits with PRIMEFLEX for Microsoft Azure Stack HCI

Microsoft

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PRIMEFLEX for Microsoft Azure Stack HCI is fully tested and delivered on a high-performance and energy-efficient server platform for Microsoft HCI deployments – FUJITSU Server PRIMERGY powered by Intel® Xeon® processors. As well as excellent virtualization performance, the servers deliver the best economics in terms of density, energy consumption, heat dissipation and operating costs. In addition, FUJITSU Software Infrastructure Manager (ISM) provides intelligent and innovative system management providing all the functions for fail-safe, flexible and automated 24x7 server operations including HCL (Hardware Compatibility List) compliant firmware management to make sure your cluster includes only supported server configurations.

Streamline Microsoft software licensing in a hybrid IT world

As a certified Microsoft Licensing Solution Provider and Cloud Solution Provider, Fujitsu helps you maximize your investments in Microsoft software, contain costs and keep compliance. Fujitsu licence consulting and agreement optimization provides you with unbiased advice how to manage the complex mix of contracts, agreements and license models across cloud and non-cloud infrastructure.

Enjoy first-class support

Fujitsu is your single point of contact for PRIMEFLEX for Microsoft Azure Stack HCI. The Fujitsu SolutionPacks for integrated systems provide end-to-end infrastructure support covering the complete hardware and software stack. A unique solution identifier for PRIMEFLEX for Microsoft Azure Stack HCI allows our support teams to make solution-level decisions when working with these sometimes complex systems. For example, this enables us to route support calls to specialized, solution aware support engineers making for easier support interactions with speedier resolution times.

Financing

Fujitsu offers a complete portfolio of financing solutions, such as IT leasing, cloud-like financing models, trade-in and buy-back options.

Learn more about all validated and certified configurations from Fujitsu:
→ www.fujitsu.com/global/pf4ashci