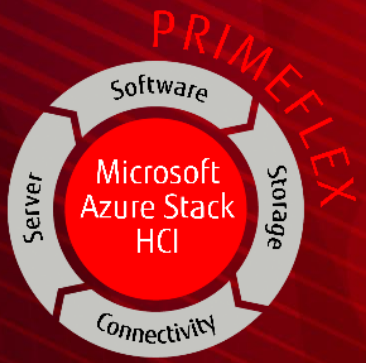

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PRIMEFLEX for Microsoft Azure Stack HCI

30 march 2021

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FUJITSU – FINIX Una STORIA che inizia da LONTANO

- 1999 dall'unione di Siemens e Fujitsu nasce Fujitsu Siemens Computers, produttore di tecnologie IT
- 2009 nasce Fujitsu Technology Solutions, 100% di proprietà Fujitsu e diventa un player di riferimento nel mercato IT per Prodotti & Servizi
- 2019 il gruppo **Marperger** rileva il 100% del pacchetto azionario della filiale italiana di Fujitsu e nasce **FINIX Technology Solutions**

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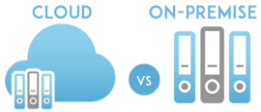
La nostra MISSIONE

FUJITSU

Aiutiamo i clienti a progettare la propria **infrastruttura**



Supportiamo le **StartUp** più innovative a raggiungere il successo nel mercato italiano

Le competenze e il nostro capitale umano sono la guida ideale per **creare valore** alle nuove aziende proiettate al futuro

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Gianni Vagnoli

Senior Technical Sales Engineer – FINIX Technology Solutions

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Business needs meeting technology improvements

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Business Challenges

Improve agility
to be competitive

Contain or
reduce IT budgets

Software-Defined Infrastructure

Enables speedier and
flexible resource provisioning

Allows to run infrastructure
with less OPEX

A software-defined infrastructure best supports a more business-centric IT approach

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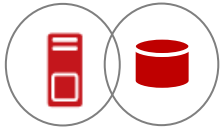
Data Center Architecture in Transition

FUJITSU

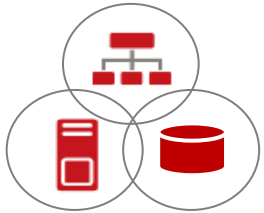
Software-defined Compute

Server Virtualization



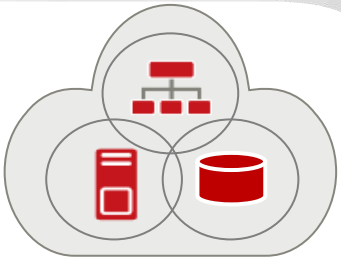
Software-defined Compute & Storage

Hyper-Converged IT



Software-defined Compute & Storage & Networking

Software Defined Data Center



Software-defined Compute & Storage & Networking & Cloud

Hybrid Cloud

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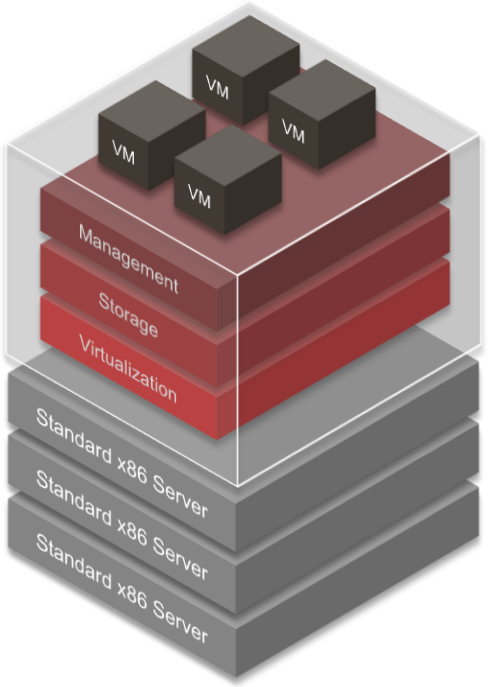
Focus on Hyper-Converged Infrastructure (HCI):
The ideal deployment model for a SDDC



Infrastructure with a modular and software-centric architecture that tightly integrates compute, storage, networking and virtualization resources and other technologies in a single x86-based system

- Consolidation - less components, space, energy and cooling
- Simple management – less admin efforts, less required skill
- Elastic, linear, non-disruptive scalability - grow as you go
- High performance - low latency storage

Provides the flexibility and operational efficiency that business demands from IT

© 2021 FUJITSU

Cloud and HCI outlook

Businesses are increasingly hosting applications in the public cloud. And yet, datacenters are here to stay at many organizations, because cloud hosting isn't always the best option for all virtualized workloads.

To support on-premises workloads, many enterprises are embracing hyperconverged infrastructure (HCI), the modern way to deploy servers in datacenters and to remote offices and the edge.

84 percent

of organizations have a multi-cloud strategy.[1]

By 2023, an estimated

70 percent

of enterprises will run hyperconverged infrastructure vs. 30 percent in 2019.[2]

But does HCI by itself address all your problems?

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From HCI on-premise to HCI on Hybrid Cloud

In 2025, 1 in 5 enterprises will still be operating traditional datacenters.[3] Adopting HCI to support your datacenter is the right move, because it can:

- Lower costs
- Simplify operations
- Improve performance and availability

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When to Use Azure Stack HCI

Branch office and edge

Virtual desktop infrastructure

High-performance SQL Server

Trusted enterprise virtualization

Scale-out storage

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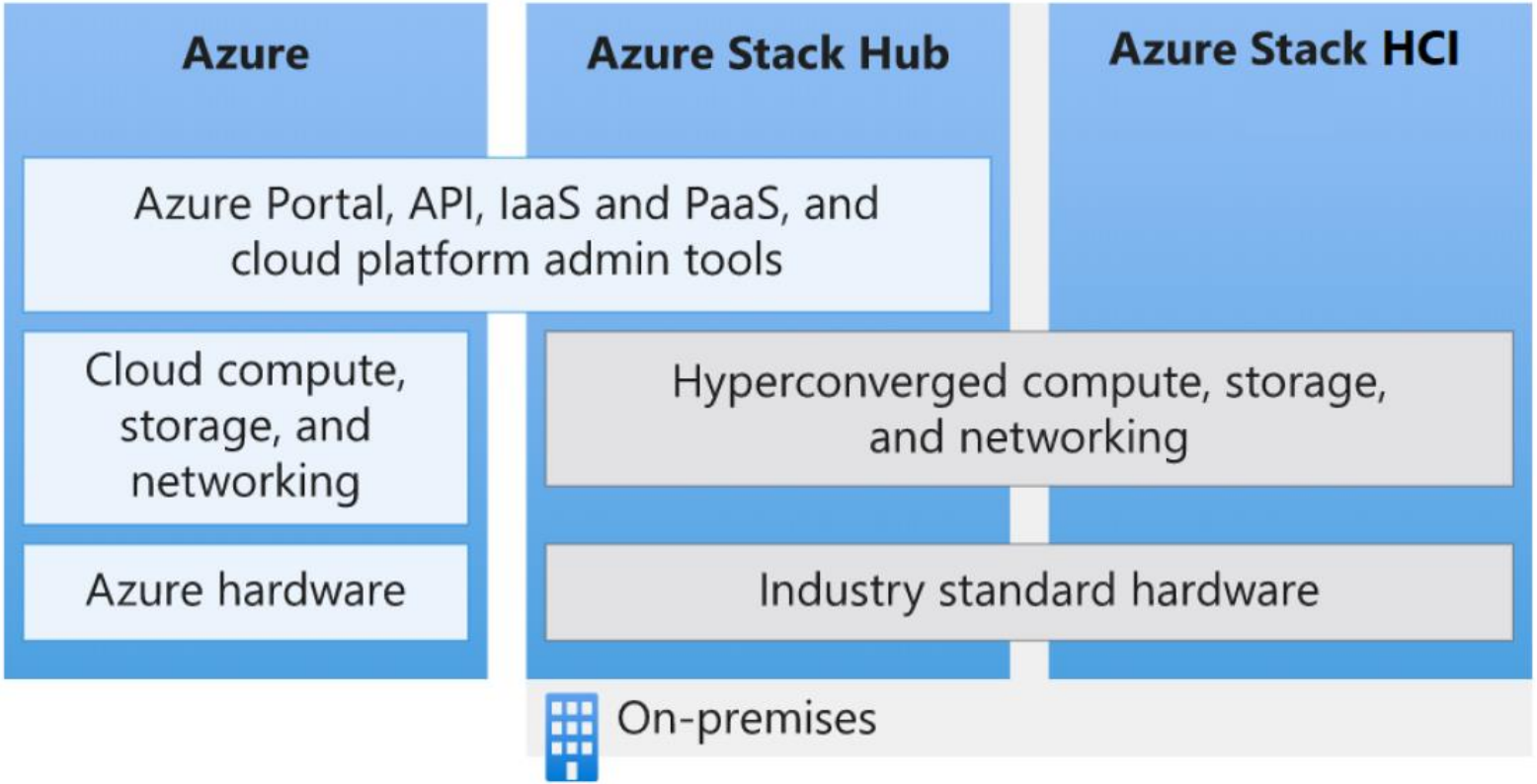
Azure, Azure Stack Hub, Azure Stack HCI



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Azure Extend HCI on-premises

Extend on-premises into Azure

Business continuity & disaster recovery

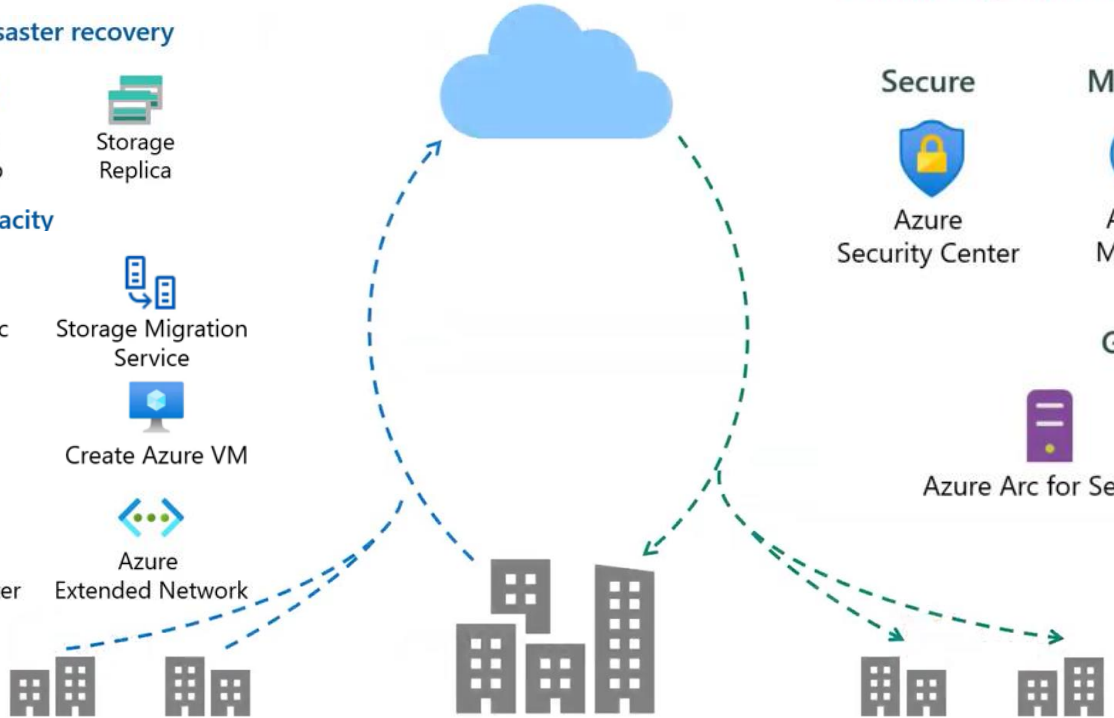
- Azure Site Recovery
- Azure Backup
- Storage Replica

Extend on-premises capacity

Storage
- Azure File Sync
- Storage Migration Service

Compute
- Cloud witness
- Create Azure VM

Networking
- Azure Network Adapter
- Azure Extended Network



Centrally manage from Azure

Secure
- Azure Security Center

Monitor
- Azure Monitor

Update
- Azure Update Management

Govern
- Azure Arc for Servers
- Azure Policy

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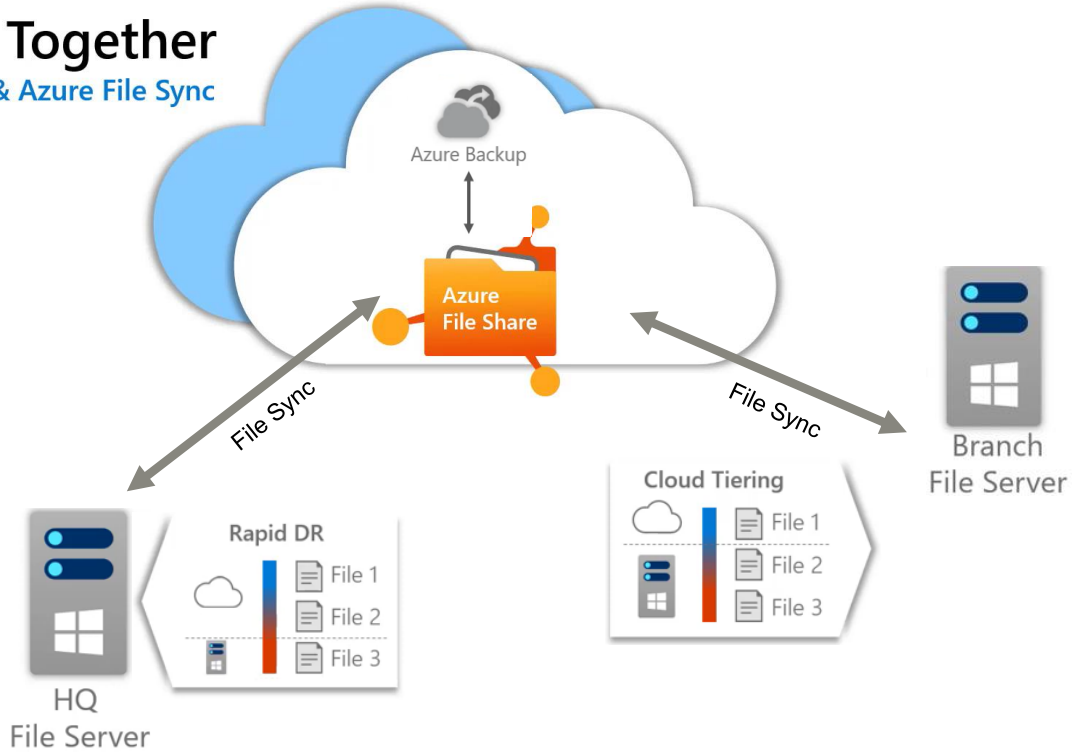
Fujitsu & Azure File Sync

File Storage Better Together

Windows Server 2019 File Server & Azure File Sync

- Multi-site Sync
- Cloud Tiering
- Cloud Backup
- Disaster Recovery



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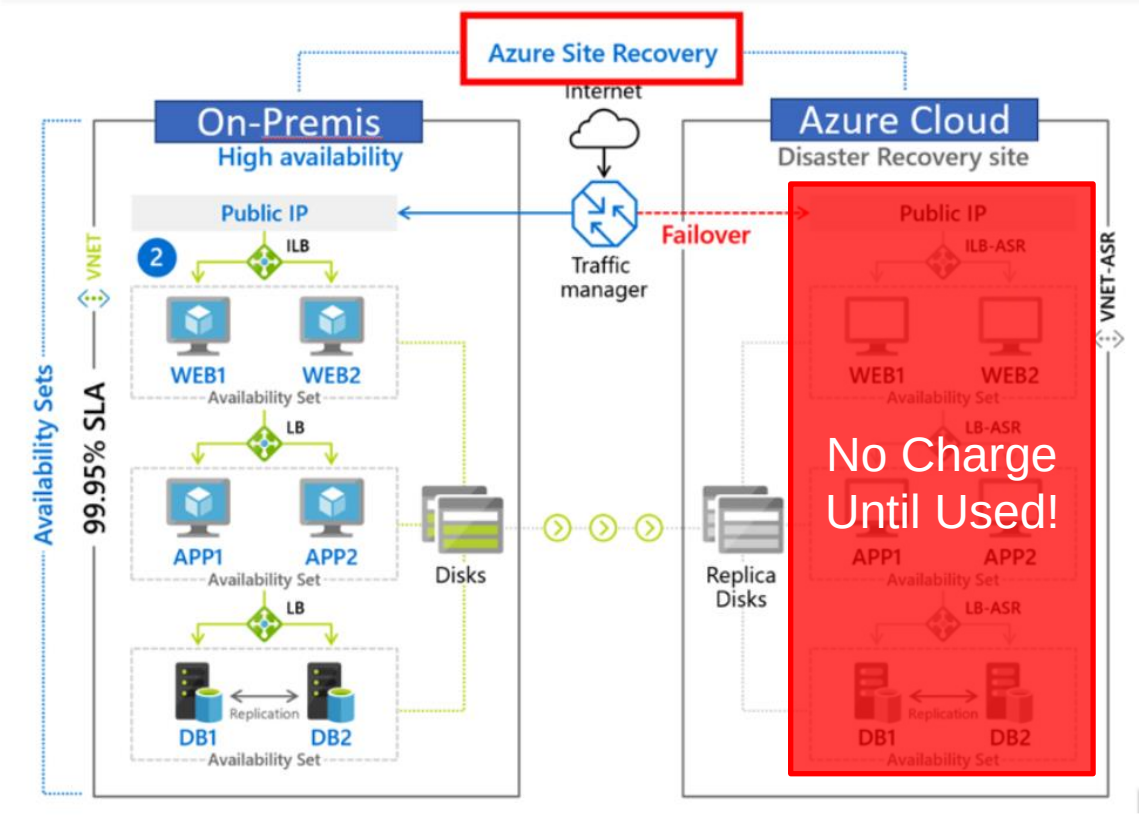
Azure Site Recovery oveview



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8 reasons to invest in Microsoft Azure Stack HCI

Get started FAST–
From running OS deploy
cluster in under 15 minutes

Unrivaled Performance –
150K+ IOPS per server
with micro-second latency

Mitigate risk–
Built-in resiliency for multiple
component
failures – even in 2-node deployments

Simplify management –
New purpose-built management tool
for Windows Server - Windows Admin
Center

Store efficiently–
Get 10x more usable storage for free
with deduplication and compression

Save costs –
Reduce storage TCO by up to 50%
versus traditional approaches

Scale to size –
Start small with 2 servers and go up to
16 servers and 4 PB of raw storage

**Simplify path to
hybrid IT** –
Seamlessly connect
to Azure cloud to
extend your on-
premises deployment

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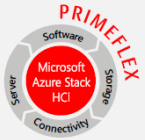
Primeflex for Azure Stack HCI

Azure Stack HCI is built on Microsoft Hyper-V, the same hypervisor that powers Microsoft Azure, to deliver efficient server virtualization.

Azure Stack HCI comes with Storage Spaces Direct (SDS), which consolidates all local drives in the infrastructure—whether solid-state devices (SSDs) or hard-disk drives (HDDs)—into a pool of software-defined storage (SDS) that is both fast and resilient.

A third element is Software Defined Networking (SDN), which enables you to centrally create, configure, and manage virtual network devices such as routers, switches, and gateways in your datacenter. As a result, you gain productivity and reduce infrastructure costs.



PRIMEFLEX for Microsoft Azure Stack HCI is a validated node hardware from Fujitsu, certified by Microsoft. It's the easiest way to extend your on-premises datacenter to the cloud with Azure Stack HCI.

Microsoft

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

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Introducing PRIMEFLEX for Microsoft Azure Stack HCI

Integrated system including …

- High-performance and energy-efficient Fujitsu hardware stack
- Microsoft software-defined compute and storage
- Range of certified server configurations
- End-to-end infrastructure support services with single point of contact

The fast track to your Microsoft hyper-converged infrastructure

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Challenges in building the hardware foundation for HCI

FUJITSU

- Which components fit best to our individual use case?
- Do we have the staff resources to design, test and deploy?

CPU	Memory	HDD	SSD	SAS-Controller	LAN-Controller

DIY (Do-it-Yourself) can be error-prone, time-consuming, risky, expensive

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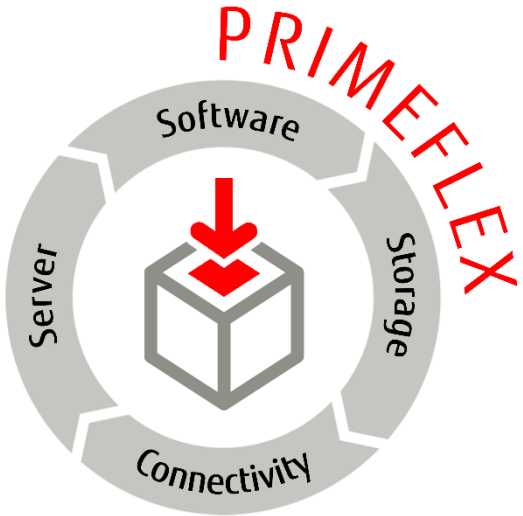
Integrated Systems PRIMEFLEX: Benefits



Drive Simplicity –
Avoid trial and error testing

Save Time –
Reduce design, integration and deployment efforts

Reduce Risk –
Guarantee component compatibility and overall functionality

Increase Efficiency –
Reduce maintenance efforts

Save costs –
CAPEX and OPEX

Reduce complexity, time, risk and costs - focus on business

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Why Fujitsu for your Microsoft HCI project

FUJITSU

Fujitsu Server PRIMERGY
Most complete x86-based server portfolio providing excellent virtualization performance and energy-efficiency

Fujitsu Infrastructure Manager
Converged, unified management for simplified IT operations

Fujitsu Infrastructure Support Services
End-to-end support for Fujitsu Integrated Systems with single point of contact

Fujitsu Data Protection Appliances
Broad range of backup and archiving solutions that perfectly integrate with all PRIMEFLEX systems

Fujitsu license consulting & agreement optimization
Helps maximize investments in MS SW, contain costs and keep compliance

Fujitsu experience in MS HCI projects
Range of references demonstrating real-world customer benefits

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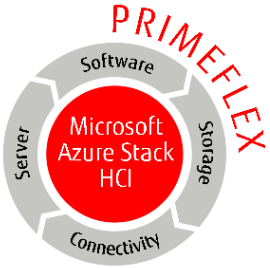
Special offer: Fujitsu 2-node Microsoft HCI bundles

FUJITSU

Reference architectures for small Microsoft HCI deployments based on PRIMEFLEX for Microsoft Azure Stack HCI

- Provides a highly-available hyper-converged infrastructure at affordable costs
- Cost-optimized design with no external storage systems and LAN switches

HCI for under 20K Euro



Microsoft HCI Bundle TX1330 M4

Microsoft HCI Bundle RX2540 M5

Microsoft

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

Most cost-efficient infrastructure foundation for SMB, ROBO and IOT-Edge environments

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Fujitsu Software Infrastructure Manager

Path to achieving software defined infrastructure

FUJITSU

Simplified IT operations

Converged , unified management across server, storage, networking and 3rd-party devices using a single user interface

Increased agility

Intuitive software providing actionable insights leading to reduced customer response time

Accelerate growth and innovation

Streamlined delivery of IT services to speed the transition to hybrid cloud

- 23x faster troubleshooting
- 70% less OS installation time
- 90% less time for FW updates
- 50% less power consumption

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FUJITSU Data Protection Portfolio - Backup for Integrated System PRIMEFLEX

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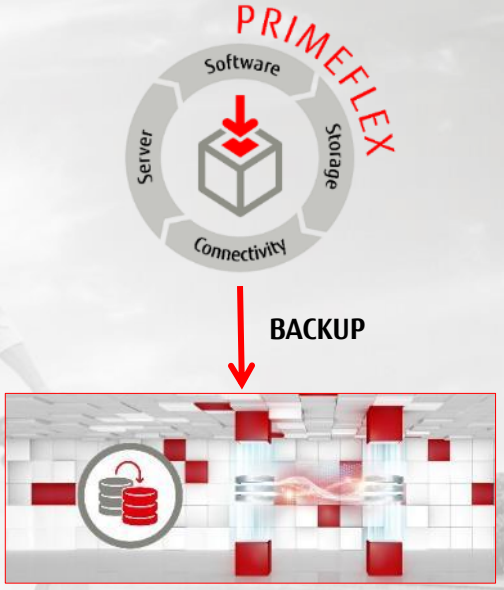
Modern Data Management and Protection –
Consolidate and protect data from anywhere, across all platforms

Automated Backup and Recovery –
Protect everything, granular recovery, deep integration

Rich Data Lifecycle Management –
Define storage policies, media mix (disk, flash, tape, cloud)

Efficient Disaster Recovery –
Replication, deduplication, offline & remote backup

Regulatory Compliance –
Long-term archiving, encryption, analytics, reporting



Protect your business against data corruption, deletion or cybercrime

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Fujitsu Infrastructure Support Services

FUJITSU

Fujitsu SolutionPacks in combination with Hardware and Software Support Packs

- Single Point of Contact
- Technical Solution Support
- Software Support
- Hardware Support
- Reactive Services
- Proactive Services

Designed to deliver end-to-end support for Fujitsu Integrated Systems

Incident management and Single Point of Contact (SPOC) for support for the entire Fujitsu Integrated System

Technical Solution Support (TSS) providing fast access to experts who analyze and identify issues and coordinate failure elimination

Hardware and software support for all released products certified for the respective Fujitsu Integrated System

Optional proactive services like technical account management, system health check and patch information management

Reduce support complexity - increase infrastructure availability

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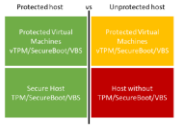
Fujitsu Ref. Architecture VBS & VDI for MASHCI

Microsoft Azure http://azure.com/hci

AZURE STACK HCI: TRUSTED ENTERPRISE VIRTUALIZATION

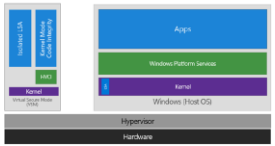
Overview of Trusted enterprise virtualization scenario

Virtualization-based security (VBS) is a key component of the security investments in Azure Stack HCI to protect hosts and virtual machines from security threats.
For example, the Security Technical Implementation Guide (STIG) is published as a tool to improve the security of Department of Defense (DoD) information systems, and lists VBS and hypervisor-protected-code-integrity (HVCI) as general security requirements. It is imperative to use host hardware that is VBS and HVCI enabled, in order for the protected workloads on virtual machines to fulfil their security promise because protection of virtual machines is not guaranteed on a compromised host.



VBS uses hardware virtualization features to create and isolate a secure region of memory from the normal operating system. Windows can use this "virtual secure mode" to host a number of security solutions, providing them with greatly increased protection from vulnerabilities in the operating system, and preventing the use of malicious exploits which attempt to defeat protections.

VBS uses the Windows hypervisor to create this "virtual secure mode", and to enforce restrictions which protect vital system and operating system resources, or to protect security assets such as authenticated user credentials. With the increased protections offered by VBS, even if malware gains access to the operating system kernel the possible exploits can be greatly limited and contained, because the hypervisor can prevent the malware from executing code or accessing platform secrets.



How to deploy VBS and HVCI-enabled Azure Stack HCI

1. Plan Hardware Deployment

All the Azure Stack HCI solutions by Fujitsu are certified for the Hardware Assurance Additional Qualification, which tests for all the functionality needed for VBS. However, VBS and HVCI are not automatically enabled in Azure Stack HCI and Step 2 will guide you on how to enable them.

Warning: Hypervisor-protected code integrity (HVCI) may be incompatible with devices not listed in the Azure Stack HCI catalog. Microsoft strongly recommends using an Azure Stack HCI validated solution from our hardware partners for the Trusted enterprise virtualization scenario.

Fujitsu recommends the PRIMERGY TX1330 M4 tower server system as the best fit for the trusted enterprise virtualization on Azure Stack HCI scenario. Please see below the configuration options that have been certified according to the Azure Stack HCI program.

Hybrid: SSD+HDD		
Server		PRIMERGY TX1330 M4(3.5")
Scalability		2 to 4nodes
CPU		1x Intel Xeon E-2124 or better (4-6cores)
Memory		64GB
Drives	**Cache**	2-6x3.5" SSD SAS/SATA (960 GB per node or higher)
	Capacity	4-10x 3.5" SSD SAS/SATA (4.0TB per node or higher)
Network		1x PLAN EP MCX4-LX 25Gb 2p SFP28 LP
RDMA / TPM 2.0		yes / yes
HBA		Fujitsu PSAS CP400i SAS

Microsoft Azure http://azure.com/hci

AZURE STACK HCI: VIRTUAL DESKTOP INFRASTRUCTURE

How to deploy VDI on Azure Stack HCI

1. Supported Configurations
   Fujitsu recommends the 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.

Type		Hybrid: SSD+HDD	All-Flash: All-SSD	All-Flash: NVMe+SSD
Server		PRIMERGY RX2540 M5(2.5" or 3.5")	PRIMERGY RX2540 M5(2.5")	
Scalability		2 to 16 nodes		
CPU		2x Intel Xeon Silver 4208 or better (16-56 cores)		
Memory		64GB to 3TB		
Drives	**Cache**	2-12x 2 .5" or 2-6x 3.5" SSD SAS/ SATA (800 GB per node or higher)	-	2-4x 2.5" NVMe (3.2 TB per node or higher)
	Capacity	4-22x 2.5 " or 4-10x 3.5" HDD SAS/SATA (2.4 TB per node or higher)	4-24x 2.5" SSD SAS/SATA (1.92TB per node or higher)	4-24x 2.5" SSD SAS/SATA (1.92TB per node or higher)
Network		2x PLAN EP QL41xxx	2x PLAN EP MCX4-LX 25Gb 2p SFP28 LP	
RDMA / TPM 2.0		yes / yes		
HBA		Fujitsu PSAS CP400i SAS		

www.fujitsu.com/global/pf4ashci

Step by Step guide to deploy Azure Stack HCI. Also install Windows Admin Center (WAC) for managing Azure Stack HCI.

From Windows Admin Center (WAC), set up **Azure Update Management** can quickly assess the status of available updates, schedule installation of required updates, and review deployment results to verify updates that apply successfully.

- 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.

3. Enable VDI support

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Fujitsu Ref. Architecture AKS & SQL for MASHCI

Microsoft Azure **PUBLIC PREVIEW** http://azure.com/hci

AZURE KUBERNETES SERVICE ON AZURE STACK HCI

Azure Kubernetes Service on Azure Stack HCI

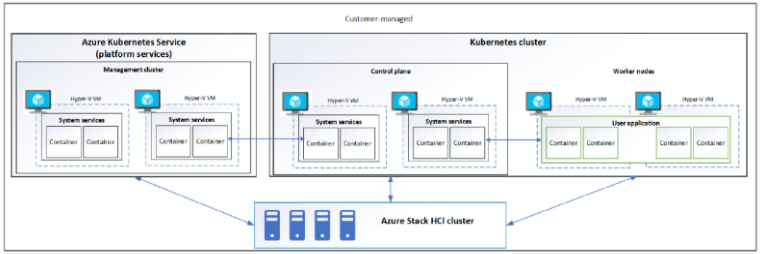
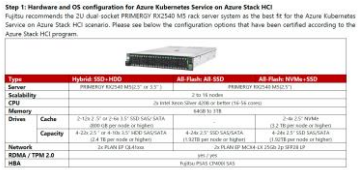


Figure 1 - High-level AKS-HCI Architecture



Step 1: Hardware and OS configuration for Azure Kubernetes Service on Azure Stack HCI

Fujitsu recommends the 2U dual-socket PRIMERGY RX2540 M5 rack server system as the best fit for the Azure Kubernetes Service on Azure Stack HCI scenario. Please see below the configuration options that have been certified according to the Azure Stack HCI program.

Type		Hybrid: SSD+HDD	All-Flash: All-SSD	All-Flash: NVMe+SSD
Server		PRIMERGY RX2540 M5(2.5" or 3.5")		PRIMERGY RX2540 M5(2.5")
Scalability		2 to 16 nodes		
CPU		2x Intel Xeon Silver 4208 or better (16-16 cores)		
Memory		64GB to 1TB		
Drives	Cache	2~12x 2.5" or 2~4x 3.5" SSD SAS/SATA (800 GB per node or higher)		2~4x 2.5" NVMe (3.2 TB per node or higher)
	Capacity	4~22x 2.5" or 4~10x 3.5" HDD SAS/SATA (1.9TB per node or higher)	4~24x 2.5" SSD SAS/SATA (1.9TB per node or higher)	4~24x 2.5" SSD SAS/SATA (1.9TB per node or higher)
Network		2x PLAN EP QL41xxx	2x PLAN EP MCX4-LX 25Gb 2p SFP28 LP	
RDMA / TPM 2.0		yes / yes		
HBA		Fujitsu PSAS CP400i SAS		

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www.fujitsu.com/global/pf4hchci

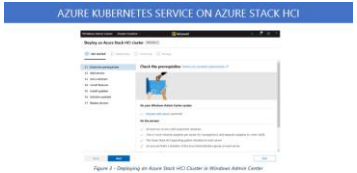

Figure 2 - Deploying an Azure Stack HCI Cluster in Windows Admin Center

The wizard will walk you through selecting your nodes, joining the nodes to the domain, installing required roles and features, and updates, before moving on to configuring the physical and virtual networks, clustering and software defined storage. When the wizard is complete, you should see your new cluster in your **All connections** view within Windows Admin Center.

Step 4: Prepare Windows Admin Center for AKS-HCI

With your Azure Stack HCI cluster under management of Windows Admin Center, the next step is to add the Azure Kubernetes Service on Azure Stack HCI extension. You would have received a link to download when you registered for the preview. Place the extension file in a folder on your Windows Admin Center machine, such as C:\AKS-HCI, or on an SMB share accessible to the Windows Admin Center machine. Once the extension file is downloaded, follow the steps to install the extension.

Figure 3 - Adding the AKS-HCI Extension in Windows Admin Center

Step 5: Set up the Azure Kubernetes Service Host

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www.fujitsu.com/global/pf4hchci

Microsoft Azure http://azure.com/hci

AZURE STACK HCI: HIGH-PERFORMANCE MICROSOFT SQL SERVER

How to deploy Microsoft SQL Server on Azure Stack HCI

1. Hardware and OS configuration for Azure Stack HCI
   Fujitsu recommends the 2U dual-socket PRIMERGY RX2540 M5 rack server system as the best fit for the High-performance Microsoft SQL Server scenario. Please see below the configuration options that have been certified according to the Azure Stack HCI program.

Type		Hybrid: SSD+HDD	All-Flash: All-SSD	All-Flash: NVMe+SSD
Server		PRIMERGY RX2540 M5(2.5" or 3.5")		PRIMERGY RX2540 M5(2.5")
Scalability		2 to 16 nodes		
CPU		2x Intel Xeon Silver 4208 or better (16-16 cores)		
Memory		64GB to 1TB		
Drives	Cache	2~12x 2.5" or 2~4x 3.5" SSD SAS/SATA (800 GB per node or higher)		2~4x 2.5" NVMe (3.2 TB per node or higher)
	Capacity	4~22x 2.5" or 4~10x 3.5" HDD SAS/SATA (1.9 TB per node or higher)	4~24x 2.5" SSD SAS/SATA (1.9TB per node or higher)	4~24x 2.5" SSD SAS/SATA (1.9TB per node or higher)
Network		2x PLAN EP QL41xxx	2x PLAN EP MCX4-LX 25Gb 2p SFP28 LP	
RDMA / TPM 2.0		yes / yes		
HBA		Fujitsu PSAS CP400i SAS		

Step by Step guide to deploy Azure Stack HCI.
Install Windows Admin Center (WAC) for managing Azure Stack HCI.

2. Set up Microsoft SQL Server on Azure Stack HCI
   Set up Windows Server or Linux VM
   a. Install SQL Server on Linux
   b. Install SQL Server on Windows

3. Monitoring and performance tuning
   To ensure performance and health of your Microsoft SQL Server instances on Azure Stack HCI, it is important that appropriate monitoring and tuning is put in place. Additional SQL Server database engine tutorials are included here. For tuning SQL Server 2016/2017 for high performance, the following recommended practices are provided.

4. High Availability (HA)
   Azure Stack HCI leverages Windows Server Failover Clustering (WSFC) and can be utilized to support Microsoft SQL Server running in VMs (designed to help with hardware failure). Microsoft SQL Server also offers Always On availability groups (AG) which provides database-level high availability and is designed to help with application and software faults. In addition to WSFC and AG, Azure Stack HCI can also leverage Always On Failover Cluster Instance (FCI) based on using Storage Spaces Direct technology for shared storage. All of these options can leverage the Microsoft Azure Cloud witness for quorum control. It is recommended that cluster AntiAffinity rules in WSFC be leveraged for the VMs to be placed on different physical nodes in order to maintain uptime for SQL Server in the event of host failures when you configure Always On availability groups.

5. Set up Azure hybrid services
   Azure Site Recovery offers business continuity and disaster recovery (BCDR) strategy. Set up disaster recovery for SQL Server allows organizations to protect the SQL Server back end of an application to help keep your data safe, and your apps and workloads online, when planned and unplanned outages occur.

   Azure Backup supports backing up and restoring Microsoft SQL Server with application consistency. Install Azure Backup Server to start backup of your on-prem SQL data.

   Alternatively, you can also leverage Azure Blob Storage service for SQL Server to backup and restore to Azure Blob Storage service. This is suitable for off-site archiving. To manage the Azure Blob Storage backups, you can leverage the Managed SQL Backup feature included in Microsoft SQL Server.

   In addition to the backup scenario, you can setup other database services that Microsoft SQL Server (Microsoft SQL Server 2016/2017/2019) offers, connecting to Azure services such as (but not limited to) Azure Data Factory, and Azure Feature Pack for Integration Services (SSIS).

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shaping tomorrow with you

Gianluca Tonellato

CEO of NEMESI IT a Fujitsu partner

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NEMESI IT – Partner FUJITSU

- Nèmesi IT nasce a novembre 2000 dalla visione di alcuni tecnici sistemisti che volevano proporre l'informatica nelle aziende in un modo alternativo.
- « Vogliamo che i nostri clienti ci considerino come colleghi a cui rivolgersi per tutto quello che riguarda l'informatica... un PARTNER! ».
- Con un portafoglio di oltre 180 clienti attivi nel 2020, molti dei quali sono medie o piccole imprese, Nèmesi IT ha un ruolo di riferimento nel panorama della consulenza e assistenza per le imprese sui temi dell'Information and Communication Technology e Cyber Security.

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- Nemesi IT è da sempre Partner Fujitsu con certificazione Select Expert.
- Abbiamo scelto di proporre Fujitsu per...
  - L'alta qualità dei prodotti
  - Il rispetto che riconosce ai Partner
  - Per il costante supporto efficace ed efficiente che ci danno

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Perché PRIMEFLEX for MICROSOFT Azures stack HCI

- In particolare proponiamo la soluzione di Iperconvergenza Azure Stack HCI su piattaforma Primergy Fujitsu perché:
  - Scalabile
  - Affidabile. Nessun Point of Failure.
  - Un'interfaccia conosciuta a tutti i sistemisti
  - Gestione centralizzata tramite Admin Center
  - Ottimo rapporto Prezzo/Funzionalità

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Case Study FOPE – Esigenze del cliente

- Storica azienda industriale con sede a Vicenza che opera nel settore della gioielleria di alta gamma.
- Produce esclusivamente in house, commercializza sui mercati internazionali attraverso una rete di gioiellerie concessionarie e alcune boutique monomarca.
- Presente direttamente sui mercati America, Inghilterra ed Emirati Arabi con proprie società controllate.
- Forte vocazione alla ricerca & sviluppo e utilizzo di tecnologia.
- Quotata dal 2016 alla Borsa di Milano segmento AIM.

VICENZA

FOPE

DAL 1929

- Esigenze:
  - Gestionale e Portale B2B sempre disponibile h24 7su7.
  - Possibilità di espandere il sistema salvaguardando l'investimento fatto.
  - Consolidamento e ampliamento dell'infrastruttura IT.

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Case Study FOPE - Realizzazione

- Due mini sale CED su piani diversi e sui due estremi dell'azienda.
- Collegamento in fibra 10G tra i due CED.
- 1 nodo per ogni sala CED.
- Interconnessione per replica storage connesso direttamente in 10Gb.
- Admin Center come servizio in cluster.
- Raddoppiate le prestazioni della soluzione precedente con una soluzione di dischi ibrida.

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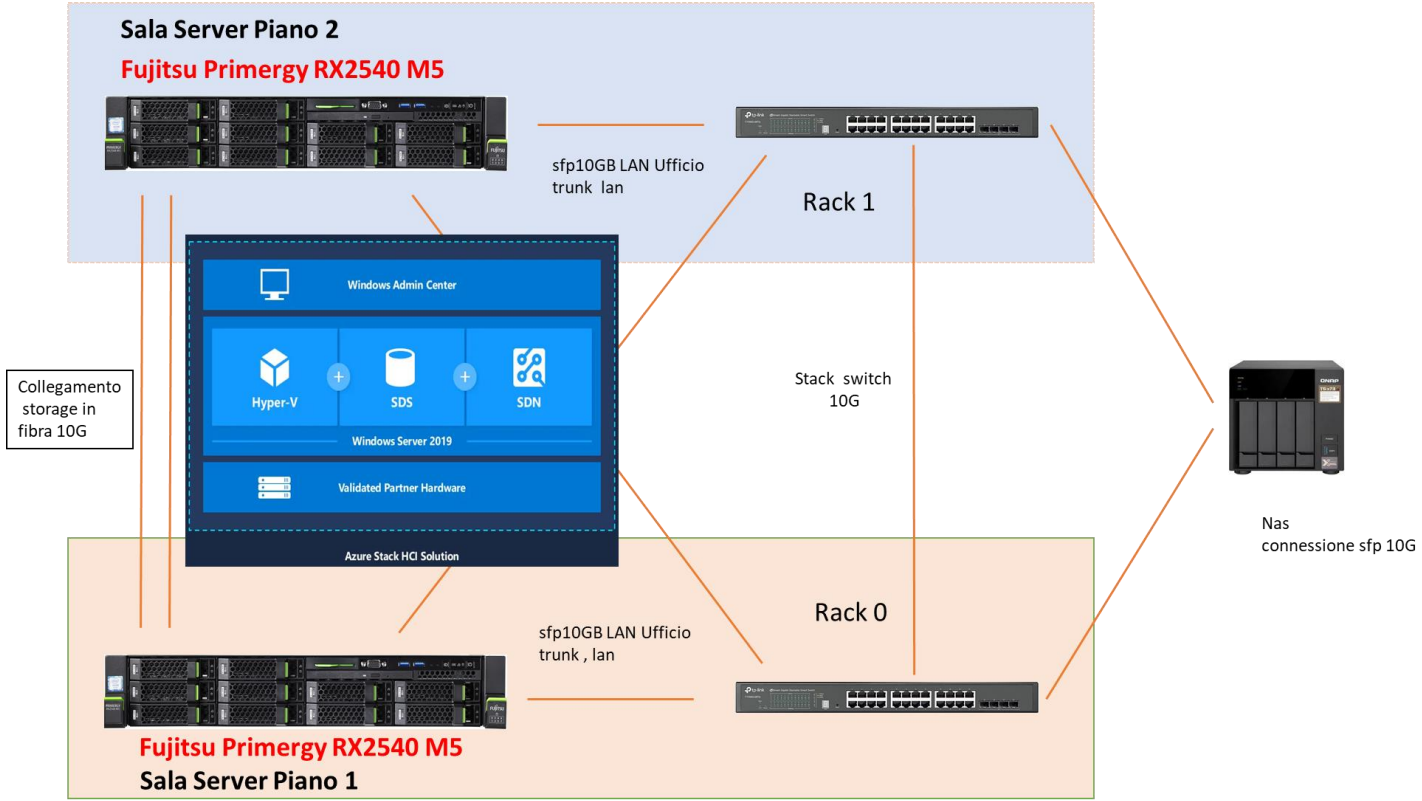
Case Study FOPE - Realizzazione



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Key Takeaways

Create business-centric IT

Responsive
Fast, flexible and reliable
Easy, non-disruptive scalability

Reduce TCO

Reduce storage costs
Save floor space, power and cooling
Streamline management

Transform with confidence

Reduce deployment risk
Gain faster time to production
Pay as you go

Microsoft

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

Go PRIMEFLEX for Microsoft Azure Stack HCI

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Domande?

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