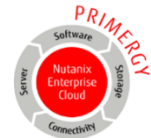


Whitepaper

Use Case: Data Protection for Nutanix

Fujitsu backup solutions for Nutanix Enterprise Cloud on PRIMERGY



The Challenge - Data Backup in Multi-cloud Environments

Organizations are eager to find new and better ways for IT infrastructure to keep up with the demand for new applications and multi-cloud infrastructure.

Cloud infrastructures are freeing up the economics of IT. Unlike traditional infrastructures, an enterprise cloud spans multiple clouds from private to public to edge clouds. Creating such next generation data center is even more cost-efficient, resilient, and adaptable to changing business scenarios. Trying to manage all the separate clouds and to satisfy the increasing demand for better service levels are a challenge of complexity.

However, Fujitsu provides an enterprise cloud platform that spans all these clouds: **Nutanix Enterprise Cloud on PRIMERGY** is a multi-cloud, multi-hypervisor platform that includes all the hardware and software to simplify procurement and deployment. The web-scale, purpose-built solution delivers a hyper-converged infrastructure for virtualization and cloud environments.

Hyper-converged infrastructures are the rising star in modern data centers. A hyper-converged solution typically consists of clustered building blocks with integrated network, storage and computing functions. Hypervisors with extended functionalities orchestrates all resources. Such simple-to-acquire, easy-to-manage platforms often come with so-called data protection functionality build in. Typically, however, the focus is on data replication rather than traditional backup and recovery. They often store backup copies on the same platform and provide insufficient lifecycle management. These can imply risks of potential data loss by data corruption, deletion or if a disaster occurs.

FUJITSU Storage data protection portfolio - Backup solution for Hyper-converged Infrastructures

Fujitsu provides convincing solutions to the complex challenges of hyper-convergence and data protection such as performance, availability, security, flexibility and efficiency. Collaborating with industry-leading software partners such as Commvault and Veritas, ETERNUS appliances leverage deep integration into cloud and hyper-converged infrastructures. The support includes major hypervisors among them VMware vSphere, Microsoft Hyper-V, Nutanix Acropolis Hypervisor (AHV) and more than 40 cloud storage providers like Azure, AWS, Google, Nutanix, Oracle, VMware.

ETERNUS – Business-Centric Storage

Business values of Fujitsu data protection solutions for hyper-converged infrastructure

Digital Business Continuity

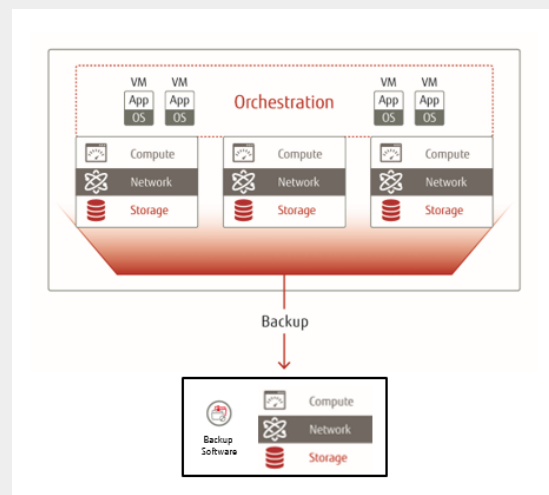
- Replication and built-in encryption ensure your business-critical data is protected and secure against cyberattacks
- Perform off-host backups to support continuity of operation and disaster recovery
- Advanced automation minimizes manual failures and data loss

Digital Business Efficiency

- Optimally concerted, customer-approved solutions eliminate risk and improve business agility
- Virtualize critical applications while meeting optimized data protection SLAs
- Automatic data discovery and protection across all on-premises, virtual and hybrid environments reduce cost, effort and risk

Digital Business Growth

- Deduplication technology lowers data volume by 90%, improves resource usage and reduces overall costs
- Multi-tier data protection allows to manage annual data growth more efficiently
- Consolidate critical data protection, compliance and discovery operations by reducing CapEx and OpEx



More information

A complete solution out of one hand

As enterprises move to digital business processes spanning multiple clouds, Fujitsu can provide a responsive IT infrastructure that satisfies the increasing demand for better service levels.

Nutanix Enterprise Cloud on PRIMERGY leverages high performance, energy-efficient FUJITSU PRIMERGY standard x86 servers and the software-defined compute, virtualization and storage technology in the Nutanix orchestration. The result is reduced complexity and vastly superior TCO.

The combination with Fujitsu data protection portfolio delivers the speed, flexibility, reliability, scalability and data protection across multiple clouds - along with comprehensive data management of all your other storage platforms, non-virtualized servers and enterprise applications in your data center and the cloud.

Scalable Data Protection and Recovery

- Right-size data protection methodologies including cluster aware protection achieve SLAs with confidence without overspending
- Nutanix snapshot support and orchestration help accelerate application-aware protection and granular recovery
- Enterprise-class, global deduplication reduces storage capacity and cost
- Application integrated protection ensures application consistent protection and rapid application recovery

Disaster Recovery

- Accelerate Disaster Recovery and testing across multiple clouds and storage tiers with automated, replicated backups to a second backup appliance reducing cost, effort and risk
- Leverage any tier of infrastructure to bring disaster recovery to every application that needs it
- Implement an SLA-focused disaster recovery strategy to fulfill business-specific requirements

Data Management – VM Lifecycle

- Provide admin management access for VM provisioning, backup, and recovery with customizable configuration limits, expiration dates, and much more
- Use workflow automation to eliminate tedious and time-consuming processes
- Global data protection management for your virtual, converged, physical and cloud infrastructure reducing cost and efforts
- Fast, secure data migration to, from and between clouds with ease for your applications, databases, VMs or large data sets

Useful links

- [Nutanix Enterprise Cloud on PRIMERGY](#)
- [FUJITSU Data Protection Portfolio](#)
- [Commvault Software Supported Technologies](#)
- [Veritas NetBackup Compatibility List](#)

Fujitsu Data Protection Portfolio	Main Feature
<ul style="list-style-type: none"> ■ ETERNUS CS200c Powered by Commvault - all-in-one backup and archive appliance 	<ul style="list-style-type: none"> ■ Pre-loaded, pre-configured appliance reduces implementation time by up to 60 percent ■ Out-of-the-box data protection to disk, tape or cloud
<ul style="list-style-type: none"> ■ ETERNUS CS800 – one-for-all backup-to-disk 	<ul style="list-style-type: none"> ■ Scalable and high-performance backup appliance supporting all major backup suites ■ Advanced deduplication technology reduces capacity by up to 95 percent
<ul style="list-style-type: none"> ■ ETERNUS CS8000 – data center automation for backup and archiving 	<ul style="list-style-type: none"> ■ Consolidates backup and archive infrastructure in one solution ■ Reduces TCO by up to 60 percent
<ul style="list-style-type: none"> ■ Commvault HyperScale™ Appliance - flexible, hyper-converged, integrated solution 	<ul style="list-style-type: none"> ■ IT agility through scale-out architecture based on Fujitsu and Commvault technology ■ Delivers web-scale services with cloud-like economics on-premise
<ul style="list-style-type: none"> ■ Veritas NetBackup appliance - fully integrated solution from one mold 	<ul style="list-style-type: none"> ■ Integrated appliance with optimal backup that takes less than 30 minutes to deploy ■ Embedded cyber-security detects intruder threats to mitigate risks
<ul style="list-style-type: none"> ■ ETERNUS LT – highly scalable tape storage 	<ul style="list-style-type: none"> ■ Cost-efficient offline backup for long-term retention and archiving to thwart cyberattacks
<ul style="list-style-type: none"> ■ Commvault Data Management Platform – backup and archiving based on a single code 	<ul style="list-style-type: none"> ■ Protect, access and manage all of your data across the data center and the cloud ■ Provides backup, archiving, deduplication, replication, and analytics during data lifecycle
<ul style="list-style-type: none"> ■ Veritas NetBackup Software - Enterprise Data Services Platform 	<ul style="list-style-type: none"> ■ Ensure rapid data recovery across hybrid physical, virtual and multi-cloud environments ■ Protection for large, scale-out, multi-node architectures with agentless, parallel streaming backup and recovery

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FUJITSU Technology Solutions GmbH
 Mies-van-der-Rohe-Straße 8, 80807 Munich, Germany
 E-mail: storage-pm@ts.fujitsu.com
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