

Deliver IT at the speed of business

FUJITSU

Fujitsu Reference Architecture for VMware Cloud Foundation

Today's digital business demands are outpacing IT's ability to deliver at the speed required by enterprises, particularly when the data center is hardware-defined. IT infrastructures based on a software-defined data center architecture (SDDC), on the other hand, offer greater responsiveness and agility, creating a next-generation data center foundation that is more cost-efficient, resilient, and adaptable to ever-changing business scenarios.

The Fujitsu Reference Architecture for VMware Cloud Foundation provides a complete set of hardware and software components validated by Fujitsu experts to simplify deployment and life cycle management of a large-scale, software-defined data center infrastructure. It combines PRIMEFLEX Essentials for VMware vSAN, offering a broad range of certified vSAN ReadyNodes, with VMware Cloud Foundation™, the industry's most advanced hybrid cloud platform. Resulting in a complete set of software-defined services for computing, storage, networking, security, Kubernetes, and cloud management to run your enterprise apps – traditional or containerized – in private or public environments.

Your advantages:

- Enjoy cloud-like experience on site
- Improve agility with standardized and software-defined architecture
- Enhance operational efficiency through automated lifecycle management
- Get peace of mind with end-to-end security



83%

of top performing IT departments are planning significant investments in new platforms to enable a hybrid IT strategy.

Source:

"The Hybrid IT Platform Imperative – Building a solid systems foundation for digital transformation"
FreeForm Dynamics, 2020

Become your own cloud provider

Cloud foundation uses a software-defined architecture built on standardized repeatable infrastructure. IT teams can provision and scale infrastructure on demand and reconfigure it based on software policy. This cloud-like operating model alleviates the need to make complex and often time-intensive changes to computing, storage, networking, and security hardware.

Enjoy high application performance

Get maximum performance with Fujitsu standard x86-servers delivering the most powerful VMware virtualization platform. These servers have a long track record of continuously outstanding results, holding the longest leadership positions in most of the VMware VMmark 2.x benchmark categories and continue to lead in VMmark 3.x.

Get enterprise-class storage services

Benefit from VMware's leading hyper-converged architecture with all flash performance and enterprise-class storage services, including deduplication, compression, and erasure coding, delivering flexible storage and significantly simplifying storage management.

Increase operational efficiency

Shift valuable staff resources from maintaining infrastructure to those activities that create real business value.

Enable self-driving operations

Self-driving health, performance, capacity, and configuration management help you plan, manage, and scale your SDDC environment efficiently.

Introduce self-service automation

Profit from 20x faster application provisioning through streamlined delivery of application services by way of templates that bind compute, storage, networking, and security resources using policies.

Reduce ongoing day-to-day operations

Benefit from unique lifecycle management services that automate day-to-day operations, from deployment to configuration of the SDDC environment, via on-demand provisioning of infrastructure clusters to patching/upgrades of the complete software stack.



Infrastructure based on VMware Cloud Foundation from Fujitsu helps Akademiska Hus transform its IT estate to a fully digitized, private cloud environment

Challenge

Digitize every aspect of the Akademiska Hus IT estate to become more efficient and flexible, and migrate to a private cloud environment that could be easily extended to a hybrid cloud.

Solution

Implement a plug-and-play VMware Cloud Foundation solution, which now supports 450 users in 16 locations, using VDI.

“It quickly became clear that Fujitsu could provide all the technology we need and scale easily to a hybrid cloud solution. Moreover, in terms of cost, Fujitsu delivered the best bang for our buck.”

Per Brantsing Karlsson

IT Manager, Akademiska Hus

Deliver end-to-end security

VMware Cloud Foundation minimizes the risk of human error and configuration drift using policy-based controls, allowing IT teams to configure their environment to meet their compliance objectives. You can rest assured that your platform is built upon a best practice architecture that is tightly integrated and intrinsically secure. Supporting network-level micro-segmentation, distributed firewalls and VPN, compute-level encryption for virtual machines, vMotion®, and storage-agnostic data at rest encryption.

Grow as you go

Based on a scale-out, hyper-converged architecture, a VMware Cloud Foundation implementation can start as small as four nodes and then scale out to multiple racks. Additional capacity and performance can easily be added in increments as small as one server node at a time within a single rack, scaling up to eight full racks per SDDC Manager instance. This enables your IT organization to better align CAPEX spending with business needs.

Simplify path to hybrid cloud

VMware Cloud Foundation dramatically simplifies the path to hybrid cloud by delivering a common platform for private and public clouds. This enables a consistent operational experience and the ability to move workloads quickly and easily at scale across clouds without re-architecting applications. As a strategic integrator of VMware Cloud on AWS, Fujitsu helps organizations on VMware enterprise environments to reap the full benefits of Amazon Web Services. Our service offering enables you to extend to the public cloud from your VMware estate with minimal risk, exploit AWS features to develop cloud-native apps, and seamlessly migrate to and manage AWS within your hybrid environment.

Main use cases

Private cloud

With VMware Cloud Foundation, customers can run a fully virtualized, cloud-like infrastructure in their on-premises data center. At the same time, cloud administrators are able to expand and contract the underlying infrastructure in line with changing business demands.

IT automation

By leveraging the power of automation, IT teams can quickly provision infrastructure and streamline operations – freeing them to add more value to the business. Cloud Foundation allows for automating the upgrade and patching process of the full software stack, including compute, storage, networking, security, management, and even hardware updates.

Modern applications

You can develop and deploy apps on site or in the cloud through VMware Cloud Foundation with Tanzu, a hybrid cloud platform that includes an embedded Kubernetes runtime environment that accelerates the development of modern applications. VMware Cloud Foundation with Tanzu automates infrastructure deployment and lifecycle management of complex Kubernetes clusters alongside mission-critical enterprise applications.

Hybrid cloud

VMware Cloud Foundation gives you the flexibility to run the same platform on premises and as a service through a public cloud provider. Your organization can build a true hybrid cloud with common infrastructure and consistent operational model, connecting on- and off-premises data centers to make them compatible, stretched, and distributed.



Transform with confidence to SDDC and hybrid cloud

By choosing Fujitsu for your software-defined data center project, you will benefit from our strategic partnership with VMware and a track record spanning a decade in deploying large VMware infrastructure projects – ranging from virtualization and the SDDC to the cloud. As a global technology and service provider running more than 100 data centers worldwide, Fujitsu has over 30 years' experience deploying and operating large data center infrastructures. If your organization is making the move to SDDC at the start of your hybrid cloud journey, the Fujitsu Reference Architecture for VMware Cloud Foundation will make it a success.

The easy way to start

The Fujitsu Hybrid Cloud Starter Kit for VMware includes everything you need to begin your hybrid cloud journey on-premises in your data center.

- Fujitsu Reference Architecture for VMware Cloud Foundation: your agile, on-premises private cloud platform extendable to public cloud
- Fujitsu uSCALE: pay-per-use consumption service providing financial flexibility on site
- Fast time to production with Fujitsu deployment services
- One-stop support with single point of contact.

Fujitsu Financial Services

Fujitsu offers a complete range of financing solutions, such as IT leasing, trade-in, buy back or even cloud-like financing models. With Fujitsu uSCALE, we are now helping organizations to achieve pay-per-use agility across their entire IT landscape, including their on-premises data center.



Learn more about the Fujitsu Hybrid Cloud Starter Kit for VMware:

www.fujitsu.com/global/hybrid-cloud-vmware-starter-kit



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