

INTEGRATE HYBRID CLOUD TO INNOVATE

Scale Services with Increased Agility, Capacity, and Resilience

Launch New Financial Products, Services, and Ecosystems with Hybrid Cloud

How and when to embrace cloud computing remains a hotly debated topic across the financial services industry. Nearly every financial institution modernizing IT infrastructure is also considering cloud, particularly a hybrid cloud strategy. IDC forecasts worldwide spending on public cloud services and infrastructure will reach \$122.5 billion in 2017.¹

As banks look to future-proof IT investments to ensure they can take advantage of rapidly changing technologies and better compete with more agile fintechs, many are turning to VMware for unprecedented flexibility in how they build and evolve their IT environments. The VMware Cross-Cloud Architecture™ enables financial services organizations to run, manage, connect, and secure any app on any cloud. This helps ensure banks have the freedom to innovate across clouds—private clouds and large public clouds.

OVERVIEW

Staying competitive in the fast-paced world of financial services requires modern cloud-friendly infrastructure that enables IT to rapidly adapt. The unique VMware Cross-Cloud architecture enables financial services leaders to uniformly deploy, manage, and control private, public, and hybrid clouds in response to changing business requirements. With VMware, IT can implement cloud solutions that achieve IT outcomes and business goals.

BENEFITS

- Scale and speed time to market with faster app deployment
- Choose the right cloud, for the right workload—without compromising security or compliance
- Improve OpEx by simplifying cloud management across public, private, and hybrid clouds

Top IT Drivers for Integrating Public Clouds

As financial services organizations continue to evaluate growth and revenue-generation strategies—from consolidation to mergers and acquisitions to cross-sell opportunities—lines of business are expecting IT to perform a more strategic role. They want their technical teams to support them with modern IT infrastructure that helps accelerate innovation and agility, so the business can better compete with new applications and services. At the same time, IT organizations are expected to help maintain or even reduce costs.

The financial industry is moving to cloud for a few key reasons:

- The cloud offers banks a way to compete by offering cost-effective and real-time delivery of Highly scalable resources, such as storage space and an agile environment to test and develop apps.
- Banks can take advantage of [cloud's] “pay as you go” cost structure reducing the amount of physical space and hardware necessary, and changing the amount of time it takes to provision resources from weeks to minutes.
- The cloud can serve as an analytics platform to leverage data into real-time customer insights.²

¹ IDC. “Worldwide Public Cloud Services Spending Forecast to Reach \$122.5 Billion in 2017, According to IDC,” February 20, 2017.

² PricewaterhouseCoopers. “Financial Services Digital,” August 2016.

VMware Solutions for Financial Services Cloud Deployments

Financial institutions can gain enterprise-ready cloud infrastructure for private and public cloud with VMware Cloud Foundation™, the unified SDDC platform that brings together VMware vSphere®, VMware vSAN™, and VMware NSX® into a natively integrated stack. With VMware technologies, financial services organizations can extend best-in-class vSphere to more than 4,000 compatible, vSphere-based public clouds and use a common control plane to securely migrate apps and data from internal data centers to private and public clouds. Financial services organizations already invested in Amazon Web Services and IBM SoftLayer and clouds can ease portability and administration hassles with VMware solutions—quickly scaling, consolidating, and moving workloads as needed—without re-architecting applications. Additionally financial institutions can leverage vCloud Air Network Service Providers offering managed cloud solutions (ranging from IaaS to PaaS and SaaS) based on VMware's SDDC portfolio.

Simplify and Scale with Hybrid Cloud

Speeding the delivery of services to market is a top financial services executive priority, requiring IT staff to find the most effective way to reduce IT complexity and administration while optimizing performance. VMware's common cloud infrastructure and unified operational model accelerates the quality and delivery of services.

To ensure their developers have faster access to the development environments they need to deliver apps at the speed of modern banking, a regional U.S. bank transitioned to a service-oriented operating model and organizational structure. The bank replaced manual, ad hoc processes with flexible, automated VMware cloud infrastructure that enables IT to better serve internal development team customers. The transition from an IT-as-a-service to a platform-as-a-service to now a database-as-a-service and anything-as-a-service model has resulted in increased efficiency and cost savings. The bank is on target to achieve savings of \$40 Million in CapEx over five years, even as capacity has increased 34 percent. IT has created more than 700 app development and support environments while reducing application stack provisioning times from five days to under 30 minutes and lowering operating costs by more than \$10 Million per year.

Although financial services organizations have been relatively slow to embrace cloud because of compliance concerns, soon investments in hybrid computing will be required to achieve aggressive top-line growth goals. With VMware cloud solutions, banks can simplify security and automate compliance, isolating and limiting data breaches and more quickly responding to audits. VMware cloud solutions are ideal for supporting ever-changing requirements because they demonstrate the ease with which financial services organizations can move apps and workloads between public and private clouds at any point by applying the same network and security policies—without compromising security or being locked into any single vendor.

A global payments provider is rapidly scaling its infrastructure and increasing the velocity of its service delivery while meeting compliance requirements. When MiFinity needed a more agile IT infrastructure to handle increased payments per second, it moved from a fully physical to a fully virtualized environment, building its private cloud foundation on VMware technology. Today, MiFinity has automated operations management of its payment platforms. It can rapidly

provision virtual machines and applications within minutes, instead of days, and expand the capacity available to business units both onsite and offsite. Customers are benefiting from 100 percent uptime of their apps and transaction throughput has increased from 2 to 3 transactions per second to 200 per second. The company that has achieved a 10,000 percent increase in payments transaction processing is now also using containerization and cloud-native apps to speed app development that it expects to result in the faster introduction of new products and features to market.

Implement Always-On Infrastructure

Financial institutions leveraging VMware's enterprise-ready cloud infrastructure can add VMware Site Recovery Manager™ to gain automated orchestration and non-disruptive testing of centralized recovery plans. The solution simplifies disaster recovery management for all virtualized applications, reducing overall TCO and mean time to recovery (MTTR) while increasing operational efficiency.

Skipton Building Society relies on VMware technologies to bring products to market faster, keep costs flat, and improve the reliability of its systems. As part of a project focused on the stability of its IT estate, the company deployed Site Recovery Manager alongside Microsoft Clustering technology and now Skipton's IT team can guarantee the servers on its systems can be back up and running within hours of an outage, whereas it would take weeks to get some secondary systems, such as the HR application, back up and running before.

Manage Multiple Clouds

With VMware's comprehensive cloud management platform, VMware vRealize®, financial services IT leaders can leverage clouds to drive agility while reducing costs. They can migrate, manage and automate the delivery of applications across multiple private and public clouds, reducing the complexities associated with managing and securing workloads across clouds.

When organizations are ready, they can choose the right cloud for the right workload. They can manage multiple clouds holistically, with the insight needed for lifecycle and cost management. For example, IT can have a unified view of the health, performance, and capacity management, policy-based governance, and compliance monitoring of workloads across clouds. With cost an ever-growing issue, IT teams also gain visibility into, and control of, the cost of cloud services across heterogeneous, multi-cloud environments.

In Italy, Banca Popolare di Sondrio has chosen VMware software-defined data center solutions as the foundation of its cloud strategy and is seeing a lot of successful outcomes in terms of agility for both IT and the business, according to the company's head of infrastructure.

Learn More about VMware Cloud Solutions for Financial Institutions

The VMware Cross-Cloud Architecture—supporting any cloud, any application, any device—gives financial services organizations the flexibility to implement on- and off-premises solutions that support business goals and financial industry requirements with a common operating environment. At the same time, IT enjoys choice and flexibility in how to build, run, secure, and manage the organization's investments in private, public, and hybrid clouds. VMware cloud infrastructure is an ideal platform for financial services organizations to securely deploy a cloud-first vision that supports the rapid deployment of banking applications to market without the costs and headaches of underlying infrastructure and maintenance.

Visit <http://www.vmware.com/solutions/industry/financial-services.html>.

