

THE HYBRID CLOUD: MEETING THE CHALLENGES OF TODAY'S IT MANAGERS



Today's IT managers are facing some tough challenges. As digital transformation accelerates the pace of business, companies in every industry are under increasing pressure to bring new products and services to market more rapidly – while actively engaging with their customers through personalized experiences. To meet the organization's demands quickly and efficiently, IT managers need to innovate and be agile, all while controlling costs and reducing security risks. As a result, modern data centers need to be flexible, scalable, and secure to power these organizations' innovation and growth.

PUBLIC VS. PRIVATE CLOUD

The public vs. private cloud question has been one of the industry's most hotly debated issues. Indeed, both private and public clouds have distinct advantages and shortcomings. To respond to the need for faster innovation and to remain competitive, many organizations are shifting to an IT model that leverages both private and public clouds. Today, more than 70% of workloads are still run on-premises, but many organizations are also using public clouds, even multiple clouds. It's estimated that 60% of customers are using a public cloud today, and 48% are using multiple clouds. Managing and controlling a diverse infrastructure, however, creates operational complexity. Multiple clouds can result in cloud sprawl and technology silos with different stacks, methodologies, processes, and levels of expertise.

A hybrid cloud can offer a valuable solution. With a hybrid cloud, the same tools and processes can be used to consistently provision and manage any workload – regardless of where it is being run. IT managers can choose to run workloads based on where they make the most sense. Until now, however, creating a common platform across private and public clouds required designing and building a customized infrastructure – an expensive approach with long lead times for deployment.

SIMPLIFY THE PATH TO THE HYBRID CLOUD WITH VMWARE CLOUD FOUNDATION™

VMware Cloud Foundation™ dramatically simplifies the path to the hybrid cloud – removing the time, complexity, and cost associated with building a hybrid cloud. Cloud Foundation's integration between public and private clouds enables IT managers to take advantage of the benefits of public clouds, while protecting their on-premises investments through a consistent operational model. Cloud Foundation achieves this by integrating the functionality of VMware's market-leading technologies, including vSphere, vSAN, NSX, and SDDC Manager.

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Cloud Foundation offers extensive benefits when compared with legacy hardware-defined data centers and other hybrid cloud options, including:

- **Easier to use and manage** – Cloud Foundation has a single integrated software platform with a complete set of software-defined services for compute, storage, networking, security, and cloud management to run enterprise applications in private or public environments. It offers intelligent operations with integrated network virtualization and lifecycle management that automates day-zero to day-two operations of the cloud infrastructure software stack. Management is consistent across the private and public clouds – leveraging the same people, tools, and skills that IT organizations have already invested in. Cloud Foundation’s latest version also incorporates self-service and policy-based operations for the provisioning and management of the workloads.
- **Better performance and productivity** – Cloud Foundation provides six-to-eight times faster time-to-market by standardizing the design of cloud infrastructure deployments. Twice as productive as many of its competitors, Cloud Foundation also offers up to 20 times faster app provisioning by automatically orchestrating the provisioning and lifecycle of apps via blueprints.
- **Faster and repeatable deployments** – Cloud Foundation is a pre-tested and pre-qualified system that eliminates the lead times around infrastructure design, testing, bring-up, configuration, and provisioning that are associated with DIY solutions. This includes automated deployment of infrastructure virtual machines (VMs), creation of the management cluster, configuration of virtual local area networks (VLANs), storage, physical network, and cluster creation and provisioning. Its automation enables quick, repeatable, and secure deployments.
- **More flexibility, scalability, and agility** – Cloud Foundation is compatible with a wide range of certified hardware options and public cloud providers, so IT managers can avoid vendor and service provider lock-in and the associated risks and costs. Multiple pre-qualified ready nodes and ready systems include those from Dell/EMS, Cisco, HPE, QCT, Fujitsu, and Lenovo. Compatible cloud partners include IBM Cloud, Rackspace, OVH, and CenturyLink. Cloud Foundation also offers a one-click patching or upgrade process of the cloud infrastructure stack. Cloud administrators have the flexibility to choose the timing and scope of the updates, which typically take hours compared with days or weeks with traditional solutions. IT managers can more quickly respond to business needs by adding capacity to the private cloud, or use the public cloud on demand – scaling up or down resources as needed. Application compatibility is ensured across the public and private cloud through Cloud Foundation’s common platform.
- **Enhanced security** – Cloud Foundation offers enhanced security against cybersecurity threats. Its networking and security services are more robust and mature than many other hybrid cloud options, offering the simplest way to secure workloads – from micro-segmentation to data-at-rest encryption.
- **Lower total cost of ownership** – With enterprise-ready capabilities, the total cost of ownership of Cloud Foundation is up to 40% lower than traditional three-tier infrastructures. The platform’s software-defined infrastructure reduces capital expenses, and its lifecycle automation dramatically reduces ongoing operating expenses.
- **Future proof** – Cloud Foundations offers exceptional scalability and growth. For example, Cloud Foundation comes ready for VMs and containerized applications, whether they are needed now or in the future.

HOW TO TRY CLOUD FOUNDATION

Want to try Cloud Foundation? VMware’s [Hands-on Lab](#)** is a great place to start. You can also check out our [conceptual videos](#) and [demos](#). If you want to learn more about how [VMware Cloud Foundation](#) can help you meet your organization’s needs and goals, please contact your Rolta AdvizeX representative or visit us online at www.advizex.com.

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HOL-1844-01-SLN – Modernizing Your Data Center with VMware Cloud Foundation

HOL-1844-02-SLN – VMware Cloud Foundation – Hybrid Cloud

HOL-1846-01-SLN – Modernizing Infrastructure – VMware Cloud Foundation

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