SOLUTION OVERVIEW

DELL EMC ENTERPRISE HYBRID CLOUD


THE ANSWER TO BIG CHALLENGES

Many organizations are looking for ways to drive more business value, redefine their business models, and build an enhanced customer experience in an increasingly digital world. IT must fundamentally change how they deliver value to the business with demands dictating the delivery of traditional enterprise applications with greater speed and agility while reducing costs and minimizing risks. In an IDG survey, 83% of C-level executives said that they either currently use or plan to use a hybrid cloud to balance these needs for innovating and growing the business. The challenge for Enterprise IT is that it can be difficult to bring together the security, compliance, and reliability of private cloud with the simplicity, flexibility, and easy access public-clouds offer while maintaining control and visibility—until now.

RAPIDLY DELIVER PRIVATE- AND PUBLIC-CLOUD RESOURCES

A hybrid cloud helps organizations innovate rapidly while still delivering enterprise-grade performance, resiliency, and security. Dell EMC Enterprise Hybrid Cloud delivers on this by combining the control, reliability, and confidence of private cloud with the simplicity, flexibility, and cost efficiency of public clouds to transform delivery of IT services. A one-of-kind hybrid-cloud platform, it delivers automated infrastructure services for traditional enterprise applications across private and public clouds with greater speed, scalability, and agility while reducing costs and minimizing risks. Workflows and application blueprints transform what was once manual into automated infrastructure provisioning, on-demand, with management insights and cost transparency. Built-in security and data protection allow you to run your hybrid cloud with confidence.

Designed, tested, and integrated by Dell EMC with automated workflows and application blueprints, Enterprise Hybrid Cloud is built on Dell EMC converged and hyper-converged infrastructures providing enterprises of all sizes with flexible deployment choices as the foundation for infrastructure-as-a-service. Deliver IT-as-a-Service to meet your specific business needs with add-on options for data protection, VM encryption, Microsoft workloads, application life cycle automation for continuous delivery, ecosystem extensions, and more. IT can start delivering value to the business two times faster with Enterprise Hybrid Cloud than by building your own IT-as-a-Service platform.

Sustained as one, the platform continues to evolve. New capabilities are added as part of the platform release cycle with Dell EMC testing the entire platform end-to-end, including upgrades from previous versions, so that our customers do not have to. Dell EMC makes hybrid cloud easy, delivering professional services for every step of the cloud journey, along with one contact support from Dell EMC. The foundational work has been done by Dell EMC so you can focus on aligning with your business partners and building optimized IT services on top of this foundation.

Essentials

The Challenge

IT must change how they deliver value to the business and adapt to demands dictating delivery of traditional enterprise applications and IT services with greater speed and agility. Businesses require a mix of private- and public-cloud services, however it can be difficult to bring these clouds together while maintaining control and visibility. Nonetheless the business will not wait, and IT must deliver flexible, easy-to-use, self-service access to IT resources or risk losing relevancy.

The Solution

Dell EMC Enterprise Hybrid Cloud enables IT to

- Deliver always-on Infrastructure-as-a-Service
- Automate the delivery of private- and public-cloud resources
- Offer tiered service level choices
- Accelerate delivery of traditional enterprise applications
- Deliver application life cycle automation for continuous integration and deployment
- Streamline and speed the delivery of application and infrastructure services
- Empower IT consumers with a self-service catalog for on-demand IT resources
- Encrypt virtual machines against data theft anywhere within the hybrid cloud
- Protect virtual machines against disaster recovery using RecoverPoint for virtual machines.
- Increase visibility into infrastructure consumption by application for increased cost transparency
- Communicate the value of IT services through show-back
- Start small and scale out rapidly as demand for services grow
WHAT CAN ENTERPRISE HYBRID CLOUD DO FOR IT CONSUMERS?

Enterprise Hybrid Cloud empowers businesses with self-service access to traditional enterprise applications and IT services via a self-service catalog. They can simply select the resources they need with their service levels of choice—data protection, continuous availability, and VM encryption; all on-demand. A dashboard communicates the value of IT services consumed, helping them align application workloads to the right cloud, with the right cost, security, reliability, and performance—including extending workloads and applications to a choice of public clouds. What used to take months to provision, now takes minutes. Adapting to workload changes is easy too; simply modify attributes, backup, disaster recovery, and encryption options from the self-service catalog, and your services will be updated accordingly. IT consumers have the agility and flexibility they need.

WHAT CAN ENTERPRISE HYBRID CLOUD DO FOR ME?

Enterprise Hybrid Cloud transforms your IT organization into a trusted advisor, providing business users with the IT services they need with greater speed and agility. It transforms what was once manual into automated IT services accessible via a self-service catalog. IT still maintains control and visibility by setting the policies through which the self-service catalog operates, while automated monitoring delivers insights into the health and performance of the system. A dashboard communicates the value of IT services and infrastructure consumption down to the application level, which allows you to charge the business only for what they use.

Self-Service and Automation Across Multiple Sites

Enterprise Hybrid Cloud offers a self-service portal accelerating delivery of traditional applications and IT services, empowering IT consumers to get what they need—on-demand. It simultaneously simplifies the complex architecture for all hybrid-cloud services spanning up to four sites/vCenters, all from a single, centrally managed self-service catalog. IT consumers and application admins can match application workloads to the right cloud, on or off premises, with service levels that align with their workload and cost objectives, resulting in heightened operational efficiency.

Figure 1. Enterprise Hybrid-Cloud Self-Service Catalog

Always-on Infrastructure-as-a-Service

Deliver always-on Infrastructure-as-a-Service for traditional enterprise applications with active-active provisioning across sites, including data protection and continuous availability for the most demanding workloads. Empower IT consumers to choose from a continuum of data protection options, such as backup, disaster recovery, and continuous availability. With a well-run hybrid cloud, you can be confident that your IT consumers’ infrastructure will always be available when they need it.

Secure Application Data with Virtual Machine Encryption

Securing application data and Virtual Machine workloads anywhere in the hybrid cloud is easy via the self-service catalog. IT consumers can secure each VM workload with a unique encryption key, helping guard against data theft. Cloud Administrators have the option to mandate encryption based on
the location where the workload will be deployed. If workloads move to another server or site, the encryption policy travels with it—keeping your data secure.

Granular data protection critical workloads are continuously available and protected with fine-grained data protection and disaster recovery for Virtual Machines. It provides any point-in-time protection from outages, corruptions, or disasters all the way down to the application level. A Cloud Administrator can easily manage automated failover and failback drastically, reducing downtime.

Secure Application Stacks and Isolate Environments

Whether running a complex application or securing the development life cycle phases, Enterprise Hybrid Cloud can ensure adequate separation of application stacks and isolation of development, test and production environments. Network micro-segmentation protects and separates the components to restrict the access and communication to the business-defined rulesets. Policies are dynamic and follow the workload, providing true mobility between all computing locations.

Continuous Delivery for Application Integration and Deployment

Deliver complete application life cycle automation through continuous integration and deployment of applications. Developers can push new applications and enhancements as soon as code is ready, allowing consumers to access updates quickly.

Intelligent Monitoring

Gain complete visibility into the hybrid-cloud environment to ensure that service levels are maintained and that your cloud is running smoothly. Automated, intelligent analytics-based monitoring is integrated and connected to all levels of your cloud infrastructure, making it easy to resolve performance and capacity issues quickly. Metering and show-back communicates the value of IT Services.

Enterprise Hybrid Cloud has built-in dashboards, pre-loaded with industry standards and vendor specific data, generating base prices for communicating the value of IT services. Granular financial transparency allows IT consumers to align workloads to the right cloud for meeting service level and cost objectives down to the virtual machine and/or application level.

Metering and Show-Back Communicate the Value of IT Services

Enterprise Hybrid Cloud has built-in dashboards, pre-loaded with industry standards and vendor specific data, generating base prices for communicating the value of IT services. Financial transparency allows IT consumers to align workloads to the right cloud for meeting service level and cost objectives.

Figure 2. Dashboards Provide Financial Transparency
Access Public-Cloud Service Providers

Enterprise Hybrid Cloud is software-defined, making it easy for IT to scale resources up or down, as well as broker services between private and public clouds. Extend workloads and applications to a choice of public clouds through integration with VMware vCloud® Air™, vCloud Air Service Providers, Dell EMC Cloud Service Providers, and Amazon Web Services.

PROFESSIONAL SERVICES ACCELERATE YOUR CLOUD JOURNEY

Dell EMC along with VMware offer a holistic portfolio of services designed to help prepare for your hybrid-cloud journey and quickly deploy Enterprise Hybrid Cloud. Services can extend the platform to meet unique business requirements for ongoing operational success. If you prefer a fully managed service, Enterprise Hybrid Cloud is available as a managed service via Virtustream.

TAKE THE NEXT STEP

Contact your Dell EMC sales representative or authorized reseller to learn more about the Enterprise Hybrid Cloud and how it can benefit your organization.

ABOUT DELL EMC

As a member of the Dell Technologies unique family of businesses, Dell EMC serves a key role in providing the essential infrastructure for organizations to build their digital future, transform IT and protect their most important asset, information. Dell EMC enables our enterprise customers’ IT and digital business transformation through trusted hybrid cloud and big-data solutions, built upon a modern data center infrastructure that incorporates industry-leading converged infrastructure, servers, storage, and cybersecurity technologies.

Dell EMC brings together Dell’s and EMC’s respective strong capabilities and complementary portfolios, sales teams and R&D. We seek to become the technology industry’s most trusted advisor, providing capabilities spanning strategy development, consultative services and solution deployment and support to help our customers and partners drive the digital transformation of their businesses.

We work with organizations around the world, in every industry, in the public and private sectors, and of every size, from startups to the Fortune Global 500. Our customers include global money center banks and other leading financial services firms, manufacturers, healthcare and life sciences organizations, Internet service and telecommunications providers, airlines and transportation companies, educational institutions, and public sector agencies.

Dell EMC is the world market leader in converged infrastructure and converged solutions. Through VCE Converged Infrastructure and Solutions, Dell EMC accelerates the adoption of converged infrastructure and cloud-based computing models that reduce IT costs while improving time to market. Dell EMC delivers the industry’s only fully integrated and virtualized cloud infrastructure systems, allowing customers to focus on business innovation instead of integrating, validating, and managing IT infrastructure. VCE solutions are available through an extensive partner network.

For more information, go to dell EMC.com/enterpris ehybridcloud.

To learn more, contact your local representative or authorized reseller.