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. Over 70% of our customer’s CIOs have said that IT will need to build and operate a well-run hybrid cloud in order 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.

A unified hybrid cloud helps organizations innovate rapidly while still delivering enterprise-grade performance, resiliency and security. Federation 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 engineered solution, 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, integrated and tested in EMC Federation labs with best-in class technologies, automated workflows and application blueprints, the Federation Enterprise Hybrid Cloud can be planned and implemented in 28 days as the foundation for Infrastructure-as-a-Service. Deliver IT-as-a-Service with add-on options for data protection, disaster recovery, continuous availability, applications, Hadoop, encryption, application lifecycle automation for continuous delivery, Federation End User Computing, ecosystem extensions and more. The Federation Enterprise Hybrid Cloud continues to evolve. New capabilities are added as part of the solution release cycle with the Federation testing the entire solution end-to-end, including upgrades from previous versions. Hybrid cloud is made simple by the Federation, delivering professional services for every step of the cloud journey, along with one call support from EMC. The Federation has done the foundational work so you can focus on aligning with your business partners and building optimized IT services on top of this foundation.

Federation Enterprise Hybrid Cloud empowers users with self-service access to traditional enterprise applications and IT services via a self-service catalog. Users simply select resources they need with their service levels of choice - protection, continuous availability, encryption; all on-demand. A dashboard communicates the value of IT services they consume, helping users 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 and disaster recovery options from the self-service catalog and services are updated accordingly. Users have agility and flexibility they need.

WHAT CAN FEDERATION ENTERPRISE HYBRID CLOUD DO FOR ME?

The Federation Enterprise Hybrid Cloud transforms your IT organization into a trusted advisor, delivering business users 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 allows you to charge the business only for what they use.

SELF-SERVICE AND AUTOMATION

The Federation Enterprise Hybrid Cloud offers a self-service portal, accelerating delivery of traditional enterprise applications and IT services. Users are empowered to select from a catalog of services to get what they need, on-demand. They can match application workloads to the right cloud, on premises or off premises, selecting the infrastructure of choice that aligns with their cost, security, reliability and performance objectives.

Figure 1.

ALWAYS-ON, INFRASTRUCTURE-AS-A-SERVICE

Deliver always-on Infrastructure-as-a-Service for traditional enterprise applications with active-active provisioning across two sites and data protection options to meet service level demands. Allow users to choose from a continuum of data protection options – high availability, disaster recovery and backup. With a well-run hybrid cloud, you can be confident that your users’ infrastructure will always be available when they need it.

SECURE

Securing applications and VM workloads 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.

Whether running a multi-tier application or securing the development lifecycle phases, Federation Enterprise Hybrid Cloud can ensure adequate separation and isolation for the components of the application stacks. Network micro-segmentation protects and separates the components to restrict the access and communication to the business defined rulesets. Policies are dynamic, following the workload providing true mobility between computing locations.
COMPLEX APPLICATION BLUEPRINTING
Rapidly build and deliver consistent, complex application blueprints to account for the great variety of web server, application server, and database combinations developers need for building custom applications. As a result, developers can access the applications they need in a few of clicks.

CONTINUOUS DELIVERY FOR APPLICATION INTEGRATION AND DEPLOYMENT
Deliver complete application lifecycle automation through continuous integration and deployment of applications. Developers can push new applications and enhancements as soon as code is ready, allowing users to access updates easily through the self-service catalog.

INTELLIGENT MONITORING
Gain complete visibility into the hybrid cloud environment to ensure 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
The Federation Enterprise Hybrid Cloud is pre-loaded with industry standards and vendor specific data, generating base prices for cloud infrastructure services. Financial transparency allows users to align service levels with application workloads and cost objectives.

ACCESS TO EMC CLOUD SERVICE PROVIDERS
Federation Enterprise Hybrid Cloud is software-defined, making it easy for IT to scale resources up or down and 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 and EMC Cloud Service Providers.

PROFESSIONAL SERVICES ACCELERATE YOUR CLOUD JOURNEY
The Federation offers a holistic portfolio of services designed to help prepare for your hybrid cloud journey and quickly deploy Federation Enterprise Hybrid Cloud. Services can extend the solution to meet unique business requirements and manage it for a successful transition and ongoing operational success.

LEARN MORE
Visit Federation Enterprise Hybrid Cloud to learn more.