KEY DRIVERS FOR GLOBAL GOVERNMENT SECTOR IT MODERNIZATION

• Improve the quality, efficiency, and effectiveness of government operations and services
• Enhance citizen engagement and satisfaction with government services by modernizing aging legacy infrastructure and applications
• Deliver new mission capabilities, speed mission cycles, enable new service delivery models and digital experiences for employees and citizens by incorporating agility and innovation
• Reduce capital and operating expenditures by reducing data center footprint, hardware, licensing and operating costs while improving organizational performance, productivity, and agility
• Transform government workforce rapidly with higher percentage of staff working remotely
• Need hybrid-cloud operations and operations diversity to ensure resilience in the future for critical events; whether public health/safety or disaster preparedness

Government leaders are turning to IT modernization to improve mission delivery and productivity, drive value and cost efficiencies and meet citizen expectations for modern, efficient and cost-effective services.

But while modernizing IT infrastructure, government agencies need to resolve many challenges such as reducing data siloes, improving agency efficiency, and boosting IT performance. Hybrid cloud has played an important role in resolving these challenges and providing speed, agility, scale and accelerated innovation needed for IT modernization. However, when government agencies consider adopting a hybrid cloud path, they face many challenges that increases costs, risk and time of their IT modernization project.

Challenges

Some of the key challenges governments while adopting hybrid cloud are:

• Inconsistent infrastructures between private cloud and public cloud, forcing customers to re-architect / refactor existing applications while moving to cloud, thus increasing risks, costs and complexity
• Inability to move workloads bidirectionally across on-premises and cloud environments as per their needs that leads to vendor-lock in
• Differences in operational model and inability to leverage established on-premises governance, security and operational policies while taking advantage of cloud-scale and agility, no federal compliance
• Complexity of using multiple management tools to manage on-premises and cloud environment
• Inability to leverage existing IT skillsets and tools when adopting public cloud
• Lack of security and compliance certifications that might lead to security vulnerabilities of sensitive data

Solution

VMware has a long history of providing federal, state and local government agencies with software products that simplified the operation and management of IT. As part of its commitment to deliver technologies that help governments modernize their IT infrastructure, VMware and Amazon Web Services – the industry leading private and public cloud providers respectively, announced VMware Cloud on AWS and VMware Cloud™ on AWS GovCloud (US), a hybrid cloud services that would enable public sector agencies and private sector customers in highly regulated industries to leverage a consistent cloud infrastructure on-premises and in the public cloud to further increase agility, innovation and security, while maximizing the usage of existing IT investments.
VMware Cloud on AWS provides IT teams an on-demand, scalable hybrid cloud service that enables them to seamlessly extend, migrate, and protect their infrastructure in the cloud. And once in the cloud, they can start their application modernization journey with minimal disruption. With the same architecture and operational experience on-premises and in the cloud, IT teams can now quickly derive instant business value through the AWS and VMware hybrid cloud experience.

VMware Cloud on AWS GovCloud (US) provides them ability to run highly sensitive government workloads with the hardened security and production-grade capabilities that government agencies can benefit from.

Key value propositions

- Run, manage, secure and protect production applications in a seamlessly integrated hybrid IT environment without having to purchase custom hardware
- Deliver rapid time to value with the ability to spin up an entire VMware Software Defined Data Center (SDDC) in the AWS Cloud in under two hours on average and scale host capacity in minutes
- Accelerate cloud migrations from months and years to weeks and days by eliminating the rework tax needed to re-architect enterprise applications with consistent infrastructure across vSphere-based private clouds and the AWS Cloud.
- Innovate and respond to changing business demands with the enterprise capabilities of VMware SDDC for any app, coupled with the elastic infrastructure of the AWS cloud, and the breadth and depth of AWS services
- Use familiar skills, tools, and processes for managing cloud environments with consistent operations for improved productivity, and reduced costs
- Secure sensitive information with intrinsically secure platform supported by major regulatory compliance certifications.¹

FIGURE 1: VMware Cloud on AWS brings VMware’s enterprise-class Software-Defined Data Center software to the AWS Cloud and enables customers to run production applications across VMware vSphere-based private, public and hybrid cloud environments, with optimized access to AWS services.

¹ Please refer to the latest VMware and AWS regulatory compliance certifications.
SCOTTISH GOVERNMENT CREATES FIRST-MOVER ADVANTAGE BY EXPLOITING LATEST TECHNOLOGY

The Scottish Government’s Agriculture and Rural Economy Directorate put together a team of four to run a Proof-of-Concept, including House of Brick Technologies, a long-term services provider and VMware partner. The team managed the conversion and migration process within 3 weeks of starting.

• Zero downtime during the migration process
• Application running costs 5-6x lower
• Seamless conversion and migration of DR protocols to VMware Cloud on AWS
• Quick, easy execution based on existing IT models to prevent complexity

“We could be five or six times more expensive running our application natively in the cloud. VMware Cloud on AWS means we’re not spending money wildly by going to the cloud. Boy, was it doable. We were able to execute quickly, with the skills we already had. Plus, it was the most cost-effective option. VMware Cloud on AWS was a no brainer”

Neill Smith, Head of IT Infrastructure, The Scottish Government’s Agriculture and Rural Economy Directorate

Learn More
Next-generation apps development and delivery

- Application modernization: Want to utilize native AWS services to extend the value of existing government applications and improve citizen engagement and satisfaction or to modernize traditional applications to deliver citizen-centric digital services
- Next-generation application build-out: Want to build new applications using native AWS services while leveraging infrastructure that is consistent with their on-premises vSphere environments e.g. Build smart city/smart military applications by integrating AWS IoT/AI/ML services or building mobile applications for mobile public safety workforce or want to build new applications to perform real-time data access and data analytics
- Hybrid applications: Want to build hybrid applications spanning the data center, cloud, edge, native AWS services or a combination of these

RESOURCES

Learn more about our VMware Cloud on AWS service at the VMware Cloud on AWS website

Review the VMware Cloud on AWS Solution Brief and VMware Cloud on AWS Total Cost of Ownership

Learn more about VMware Cloud on AWS GovCloud at our website and in our Solution Overview

For technical resources, check out VMware Cloud Tech Zone

Watch informative demos, overview videos, webinars and hear from our customers: VMware Cloud on AWS on YouTube

Read our latest VMware Cloud on AWS blogs

Follow us on Twitter @vmwarecloudaws and give us a shout with #VMWonAWS

Get started now with VMware Cloud on AWS: https://cloud.vmware.com/vmc-aws/get-started

1. For VMware Cloud on AWS: ISO 27001, ISO 27018, ISO 27017, CSA, Cyber Essentials, HIPAA, GDPR, FISC, SOC1 and 2. For VMware Cloud on AWS GovCloud (US): FedRAMP Ready (Impact level: High), FedRAMP Agency High ATO (In-Progress), FIPS 140.2 compliant cryptographic modules for encryption, Operated exclusively by VMware engineers who are U.S. citizens located on U.S. soil