Looking for a VMware Alternative?

Modernize Your Infrastructure with Rancher Government Solutions

Don't Get Locked into Legacy Challenges

Government agencies are facing growing IT infrastructure costs, with traditional virtual machines (VMs) becoming increasingly costly to maintain. As your budget tightens and technology changes, relying on outdated systems strains funds and shackles mission agility. While we recognize that some legacy workloads are mission-critical and can't be easily moved, traditional systems lock agencies into unsustainable cycles of high costs and limited functionality.

The Rancher Government Solutions (RGS) approach is different. Instead of upgrading or overhauling your systems, we use a phased infrastructure modernization approach. This approach allows the gradual migration of legacy workloads using Kubernetes for efficient orchestration and lifecycle management to minimize disruptions and maximize efficiency.

Legacy Workload Migration: A Phased Modernization Approach

Powered by the full Rancher stack, our modernization strategy integrates a robust suite of Kubernetes products with traditional VM workloads. At the core is Harvester, a hyper-converged infrastructure (HCI) solution that is built to run containers and VMs simultaneously. This mixed environment is flexible and scalable delivering cloud-like elasticity in your data-center or at the tactical edge.

Key features of Harvester include:

- **Infrastructure Agnostic.** As an open-source HCI product, Harvester is decoupled from specific hardware dependencies, allowing for installation on many hardware platforms—from modern servers to legacy systems—making it ideal for variable hardware environments.

- **Open-Source Flexibility.** Harvester adheres to open standards, improving compatibility with many open-source and standards-based tools within the Kubernetes ecosystem. This avoids vendor lock-in and broadens the ecosystem of tools available.

- **Enhanced Management with Rancher.** Paired with Rancher Multi-cluster Manager, Harvester benefits from advanced management features such as robust RBAC and powerful GitOps tools via Fleet. This combination simplifies management and enhances overall infrastructure functionality and scalability.

- **Unified API for All Workloads.** With Kubernetes under the hood, Harvester uses a single API to manage containers, storage volumes, VMs, and networks to reduce complexity and speed up deployment cycles.

Public Sector Use Case

Federal agencies managing a range of legacy virtual machines across its data centers faces increasing pressure to modernize its IT infrastructure. With Harvester, they seamlessly migrate their traditional VM workloads to a cloud-native environment while retaining the ability to run Kubernetes within VMs. This allows them to manage both VMs and containerized workloads from a single interface, improving operational efficiency and reducing management overhead. As a result, the agency achieves greater flexibility and scalability in adapting to evolving mission requirements while ensuring seamless continuity of critical services.

Department of Defense Use Case

In a remote operational theater, the Department of Defense deploys forward operating bases with limited connectivity for critical missions. Leveraging Harvester, they establish a resilient infrastructure capable of running containerized workloads on bare metal servers at the tactical edge. By deploying Rancher Manager in the cloud and managing the full application stack on intermittently connected edge compute devices, they ensure those devices are able to be managed centrally with minimal operator engagement. This enables frontline personnel to execute operational tasks with enhanced agility and efficiency, ultimately bolstering mission success and ensuring operational superiority.

Step-by-Step Modernization the Rancher Government Way

At RGS, we believe in a service-led approach, emphasizing a personalized step-by-step strategy for each customer. Our phased infrastructure modernization approach includes:

Kickoff & Discovery	Infrastructure Modernization Assessment	After-Action Report
On-site or remote engagement by our engineers to gather essential information to align the modernization plan with your strategic goals.	On-site or remote analysis of your current environment pinpoints areas for improvement and alignment with industry best practices.	Detailed report outlining the current infrastructure state, proposed changes, and a phased transition plan, serving as a roadmap for modernization.

About Rancher Government Solutions (RGS)

Rancher Government Solutions is specifically designed to address the unique security and operational needs of the U.S. Government and military as it relates to application modernization, containers, and Kubernetes. Rancher is a complete open-source software stack for teams adopting containers. It addresses the operational and security challenges of managing multiple Kubernetes clusters at scale while providing DevOps teams with integrated tools for running containerized workloads.

RGS supports all Rancher products with cleared US citizens who are currently supporting programs across the Department of Defense, Intelligence Community, and civilian agencies. Interested in learning more about our phased infrastructure modernization approach? Contact us at info@ranchergovernment.com.

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