A Build-as-You Go Solution for Federal Government IT Infrastructure

Update your infrastructure at your own pace

Don't Let Constraints Disrupt Your Mission

Federal government agencies juggle a complex set of challenges. As constituencies grow and budgets tighten, IT departments face pressure made even more intense by a wide variety of computing environments. Organizations often find that meeting new and evolving demands with their existing traditional infrastructure is simply impossible.

That's because hardware requires costly and time-consuming lifecycle management. Manual processes limit agility because teams must coordinate maintenance, while silos block the flow of information. Even as it slows down processes and response times, legacy infrastructure also struggles to accommodate sophisticated modern workloads.

It's time for a change. Yet, for many federal agencies, there's not enough room in the budget to justify a full system upgrade to software-defined, cloud-based infrastructure.

But what if you didn't have to?

Hyperconverged infrastructure (HCI) converges compute and storage resources onto industry-standard x86 servers, and uses software to abstract and pool cluster resources with unified management software. VMware offers a market-leading hyperconverged infrastructure solution powered by VMware vSAN™, the only VMware vSphere®-native storage software. HCI powered by vSAN meets the unique infrastructure needs of Federal Government agencies. With vSAN, you get the benefits of centralized management, a checklist of the security and compliance items required by Federal agencies, and a clear path to the hybrid cloud.

GET FUTURE-READY

VMware vSAN natively integrates with Amazon Web Services, Microsoft Azure and IBM Cloud for a seamless transition to GovCloud.

Build a Better Infrastructure with vSAN

One of the best things about vSAN is that you don't have to rip and replace your entire infrastructure. You can start small and build as you go, obtaining much-needed storage upgrades on a small budget, and the option to expand as your needs change.

With consistent infrastructure and operations across data centers and public clouds, vSAN helps you chart a path forward–for traditional use cases and evolving ones. Today, vSAN is being used by federal government agencies to meet a variety of needs in a variety of places–on land, on sea, and everywhere in between. From field deployments to resource planning to national security systems, vSAN powers initiatives that help governments fulfill their mission and better serve their constituents.

vSAN Puts Your Goals Within Reach

- **Realize ongoing cost savings.** HCI enabled by vSAN gives you the best performance in the industry for the lowest cost by leveraging industry-standard servers. Thanks to the affordability of software over hardware, users reported an average of 33%[1] in CapEx savings. They're able to choose from more than 500 ReadyNodes, or jointly certified servers, and avoid costly investments in purpose-built storage networking hardware.

1. Sheppard, Eric. (2016 July) Reviewing the Current State of Hyperconvergence and Real-World Benefits of Vmware Virtual SAN Deployments. IDC. (ID: US41580616) Retrieved from database.

vmware®

- **Build an onramp to the future.** vSAN prepares you for a cloud-based future with a software-defined data center and cloud-ready technology that allows you to use HCI anywhere, on any hardware you choose. VMware Cloud on AWS GovCloud (US) is now FedRAMP In-Process at the High Impact Level.
- **Integrate with your existing investments.** There is no need to replace the technologies and skill sets that you have already invested in.
  - vSAN builds seamlessly upon the industry-standard vSphere hypervisor, and does not require significant investment on retraining or staffing for a new solution.
  - It supports both existing and new technologies, including NVMe, and integrates with the rest of the VMware software-defined data center.
  - You can leverage vSphere Update Manager (VUM) for storage, which enables automated lifecycle management for server-based storage components, such as I/O controllers and firmware.
- **Confidently meet Federal security standards.**
  - vSAN implements FIPS 140-2 validated cryptography for all data-at-rest and data-in-motion without the need for expensive self-encrypting drives.
  - vSphere with vSAN is the only HCI solution with multiple generations of DoD published Security Technical Implementation Guides (STIGs) for rigorous, standards-compliant implementation hardening.
  - vSphere with vSAN is the only HCI solution that supports the rigorous requirements for implementing all Windows 10 and Windows Server 2019 advanced security features in a virtual environment.
  - vSphere with vSAN supports SecurID and smart card (CAC/PIV) login
  - vSphere, the foundation of vSAN, is in evaluation for NIAP Common Criteria to ease agency acquisition obligations under NSTISSP #11.

vSAN in the Field: Top Edge Use Cases for Federal Government Agencies

More than just storage virtualization, vSAN is transforming the way Federal Government agencies work, far beyond the core data center. Here's how vSAN meets the needs of two high-priority use cases:

- **Tactical/Rugged Deployments.** IT is increasingly pushed into the field, either on service members' backs, in a vehicle, or at an austere agency office. Tactical/rugged deployments typically require performance tradeoffs, due to the need to reduce size, weight, and power (SWAP). When leveraging vSAN-powered HCI, tactical/rugged hardware can pack impressive performance into small form factors.

  With vSAN, you can support field missions by rapidly deploying enterprise-grade storage and networking in small rugged devices. No matter where users are, you can access, collect, store, process, and analyze high volumes of data locally rather than relying on performance-plagued backhauling from an offsite data center. vSAN gives you the ability to reduce your hardware footprint without taking a performance hit.
- **Remote and Branch Offices.** vSAN is an ideal fit for Federal Government agencies that rely on a network of remote and branch offices. That's because vSAN:
  - Has a small footprint for small IT environments
  - Can be centrally managed to reduce or eliminate the need for local IT staff
  - Offers flexible licensing models to further reduce costs

START BUILDING YOUR PATH FORWARD

With so much data to save and secure, Federal Government agencies need a storage solution that seamlessly integrates with their current investments, and delivers cost savings in the process. VMware vSAN can fit any budget, and brings all the familiarity and ease of use that teams already know from vSphere. It helps you make the most out of your existing investments while implementing the building blocks of a modern infrastructure. You can grow at your own pace, without compromising your mission.

LEARN MORE

Join us online: