




Modern Data Architecture for Federal Organizations



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As federal organizations move into the digital age, many are looking to modernize infrastructure to keep pace with an ever-increasing volume and reliance on data. Due to the nuances of different needs, agencies are using local data center solutions. While this strategy may work today, the trend of digitalizing data governance means agencies will need to adopt a consolidated and future-proof data center solution moving forward.

Data center optimization is likely the greatest single investment agencies can make toward IT transformation. Investing in a modern IT solution will accelerate your agency's agility, strengthen security and build a foundation for mobility and digital innovation.

Agencies will need to modernize today while preparing for a digital tomorrow. But how? The key is to build a multiphase data roadmap with the goal of achieving lower operational costs and reducing risks for a scalable, secure and compliant agency data strategy.

Understanding data valuation

Every agency must constantly look at costs versus the value added. Simple balance sheets will always have the usual metrics, but data as a value is almost never included — even though it's used in almost every transaction. The Internet of Things (IoT), sensors, video surveillance and mobile devices are contributing to a data-growth explosion, so it's time to prioritize data and realize its true value.

Putting a value on data

Unlocking the value of data collection and storage while simultaneously building a strategy to foster data governance, modernization, protection and access will be paramount in federal agency success.



True data center modernization

Speed and automation are critical in today's IT environment: speed in delivering data to end users, speed in developing new items, speed in distributing updates to existing items and automation for the operational piece that supports speed.

Data center modernization enables organizations to achieve a modern data center to manage today's fast-paced operations and prepare for the future. Storage solutions that can help bridge the gap between outdated IT and a modernized environment include:

Software-Defined Storage (SDS): Provision, orchestrate and manage physical data on industry-standard servers.

All-flash and hybrid storage: Consolidate workloads, reduce management costs and increase application deployment speed.

Hyperconverged Infrastructure (HCI): Get storage, virtualization, network, computing and software components in a single dashboard.

Because every organization has unique needs, taking a data center assessment can help start the data center refresh conversation and provide valuable insight into what modernization challenges you need to transform your agency.



What's total cost of ownership?

Before looking at the solutions you can add to drive data center modernization, you need to consider the value of your current infrastructure. While your existing infrastructure may seem familiar and the price tag on upgrades may cause budget apprehension, you have to weigh the costs of your legacy infrastructure in order to make an informed decision. In accounting terms, this is called the Total Cost of Ownership (TCO).

How much is your existing infrastructure costing and how much are you potentially losing by failing to upgrade your data management technology? Is your current infrastructure at risk for compliance and regulatory violations?

Legacy infrastructure can't keep up with growing expectations and demands — resulting in unexpected downtime, inefficiencies and expensive maintenance costs. Overwhelmingly, the cost of maintaining legacy systems far exceeds the cost of an upgrade.





Solidifying your data protection plan

As you continue to work toward IT optimization, a proactive infrastructure coupled with backup and recovery solutions through the cloud can prevent data loss.

For optimal cloud security, modern infrastructure solutions provide application role-based authentication, continuous user monitoring and predictive analytics to help organizations forecast potential areas of attack.

A data governance solution for modern agencies needs to include protection for modern threats. Implementing a proactive backup and recovery solution is crucial to avoiding data that has been compromised, lost or stolen. Agencies should also have a procedure for gap and risk analysis procedures — and look into how automation can help identify potential issues before they arise.



Data center solutions from Dell EMC

Prepare your data center to be future-ready with Dell EMC™ solutions. With these solutions, you'll gain agility and scalability to support your long-term IT strategy. Start by leveraging your existing network infrastructure to drive big improvements — and accelerate IT service delivery.

With entry-level tower models, multirack servers, modular infrastructure and high-density computing, you can easily meet business demands while keeping costs under control. And, Dell EMC server management software solutions ensure you operate at pace.

Complete your modern network infrastructure with top-of-the-line network devices. Switches, network management software, network adapters and more ensure you have all the tools you need to drive operational efficiency and keep your data center humming.



Why Insight for Dell EMC?

Dell EMC™ data center solutions, available from Insight, offer streamlined deployment, provisioning, scaling and ongoing administration for all environments: physical, virtual and the cloud. And, endpoint management and virtualization solutions give you the flexibility to focus on your priorities.

As a Dell EMC Titanium Black Partner and the 2018 Dell EMC North America Server Partner of the Year, we offer a breadth of options for storage servers, networking devices, security software and services. We'll help you strategize, procure and implement an end-to-end solution in one place.



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