At every level, government agencies face some serious desktop and application management challenges. Agencies support large and diverse user populations, maintain unique, mission-critical applications, need to control costs, are geographically separated, and must comply with specific policies and procedures.

To address these challenges, government agencies are looking to new solutions such as virtual desktop infrastructures. Developing new strategies to meet tele-work requirements, migrating to new operating systems and working to ensure continuity of operations need to be addressed—all while stretching dwindling budgets.

The EMC® Virtual Desktop Infrastructure Solution for Public Sector—enabled by VMware® View™ 4.5, and VMware View Composer 2.5—helps reduce IT costs and complexities while delivering a robust solution for the desktop environment. VMware View 4.5 enables your government agency to reduce operational and management costs by centralizing the desktop environment. With the desktop environment in the data center, patching operating systems and applying application updates can now be delivered more efficiently than traditional desktop updates which require a tedious, time-consuming process across aging network infrastructures.

This solution provides a proven, validated architecture to maximize the benefits of desktop virtualization while meeting service-level agreements. Desktop virtualization also provides government agencies with a foundation to move forward with their own cloud strategies.

**FIVE KEY CHALLENGES**

Government Agencies face a number of challenges, including the following:

1. How to standardize and centralize desktops while providing security and compliance measures
2. How to meet the needs of tele-workers, mobile computing and guest users
3. How to handle application and operating system migrations
4. How to provide continuity of operations and develop a disaster recovery strategy
5. How to simplify planning and budgeting

The EMC Virtual Desktop Infrastructure Solution for Public Sector helps enable you to meet these considerations and more.
The EMC Virtual Desktop Infrastructure Solution for Public Sector uses a proven architecture that enables you to centralize your desktop environment, where much of your most at-risk information resides. This solution integrates VNX™ unified storage and advanced technologies from EMC with VMware to optimize performance, improve scalability, and reduce storage costs for the virtual desktop environment.

Key solution components include:

**EMC**
- **EMC VNX** unified storage, a dedicated network server optimized for files and block access, delivers high-end features in a scalable and easy-to-use package.
- **EMC FAST** (Fully Automated Storage Tiering) tracks I/O and migrates data to the right tier of storage depending on user demand.
- **EMC FAST Cache** enables Enterprise Flash drives (EFDs) to act as an expanded cache layer for the array delivering optimized performance to all workloads.
- **EMC VNX deduplication**, used in tandem with VMware View for primary data, can deliver the highest storage efficiency for both boot and user data.
- **EMC VNX with VMware vStorage APIs for Array Integration (VAAI)** enables hundreds of desktops to be created in minutes.

**VMware**
- **VMware View 4.5** modernizes the desktop experience to deliver private cloud capabilities for a consistent experience across your enterprise. Security features enable you to lock down UBS ports and ensure that no data is stored on the physical device that could be stolen.
- **VMware View Composer**, a key component of VMware View, creates a master desktop image to deploy across the environment, ensuring consistency across the infrastructure. Management is simplified with ease of patching, updates, and deployment.
- **VMware vSphere™ 4.1 for Desktops** is included with VMware View and continues to be the leading virtualization platform, enabling you to maximize server resources while increasing flexibility and agility.
When your government organization deploys information infrastructure solutions from EMC, you benefit from the highest levels of availability, performance, and security required to support your virtualized government applications. EMC Consulting makes it easy for government agencies to use information to gain efficiencies, optimize processes, collaborate effectively, and transform their infrastructures as they move toward a private cloud. Examples of solution infrastructure enhancements include:

- **RSA® enVision™** offers an effective security and information event management (SIEM) and log management platform that provides collection, alerting, and analysis of log data, enabling organizations to simplify compliance and quickly respond to high-risk security events.

- **RSA Data Loss Prevention (DLP) Suite** enables organizations to discover and classify their sensitive data, educate users, ensure data is handled appropriately, and report on risk reduction and progress toward policy objectives.

- **EMC Avamar® Virtual Edition for VMware** is a source-based data deduplication technology that reduces the size of backup data within and across virtual machines—before it traverses the network or virtual infrastructure and is stored, unburdening your underlying hardware resources, increasing backup performance, and reducing overhead on your help desk.

- **EMC VDI Assessment and Business Justification for Public Sector** is an EMC Consulting service that helps public sector organizations successfully deploy virtual desktop environments by assessing the real-world implementation of current users and creating (with you) a business justification for the further development of a VDI initiative.

- **VMware vCenter™ Site Recovery Manager** accelerates and ensures successful recovery by automating the recovery process and eliminating the complexity of managing and testing recovery plans.

**Figure 1. The EMC Virtual Desktop Infrastructure Solution for Public Sector enabled by VMware View 4.5**
ABOUT EMC PROVEN SOLUTIONS

EMC Proven™ Solutions provide rigorously-tested reference architectures to help customers accelerate their journey to the private cloud. We leverage strategic relationships with Cisco, Microsoft, Oracle, SAP, VMware, and leading public sector industry application providers to develop solutions and best practices for real customer scenarios. Our application experts can help you optimize application performance and availability and simplify management of your data center environment. Whether you are just considering virtualization or are well on your way to a fully virtualized environment, EMC Proven Solutions can help you lower the risk of deploying new technologies and ensure predictable, reliable outcomes.