

Efficiency. Control. Choice.

Vblock Powered Solutions for VMware View

As business requirements evolve and corporate and governmental compliance requirements bring deepening examination of IT processes, an emerging area of concern is the “traditional” desktop environment. Companies require flexibility and agility to ensure a consistent user experience to support a productive workforce with individual machines. But tracking, maintaining, managing, securing and supporting thousands of individual machines is overwhelming in terms of costs and the demands on IT—add regulatory and compliance initiatives and IT is reaching the breaking point.

VMware View is a virtual desktop solution that centralizes data and applications. It provides the administrative interface for maintenance and lifecycle management of all virtual desktops in an organization. Patch updates, OS and application migrations, and support are performed from a central location, simplifying management and reducing operational costs. You can deliver a consistent user experience for employees whether they are at corporate locations, during travel, or in a remote office. This enables you to provide “desktops as a managed service”—you will spend less time reacting to regulatory compliance and fire drills based on security issues, and more time adding value to your business.

Vblock Infrastructure Packages further simplify the desktop environment with pre-integrated, validated units of infrastructure providing virtualized compute, network, and storage resources. With validated configurations you can significantly reduce the time spent on test and development, generating significant cost avoidance. At the same time, your time to production is accelerated. Vblock Solutions for VMware View minimize risk of deploying a new solution, while lowering your capital and operational expenditures. The VMware View on Vblock solution has been fully tested by the VCE coalition which can reduce costs by saving you up to 10 weeks of equipment and scalability validation.

VMware View

VMware View enables you to deliver the desktop environment as a service. You will simplify management, increase reliability and security, and reduce costs. Consolidating the desktop environment into one infrastructure behind the firewall makes it easy to update the operating system, patch applications, and ensure compliance. With VMware View you can:

- Deliver desktops as a managed service to reduce costs and gain better reliability, efficiency and security
- Move to Windows 7

- Deliver desktops to remote and branch offices to accelerate provisioning while retaining control
- Ensure a consistent end-user experience across the globe so the productivity of your workforce is protected

Benefits of a Virtual Desktop Environment

VMware View delivers desktops as a managed service through a centralized infrastructure, increasing flexibility to meet changing business needs. It provides a consistent end-user experience, regardless of location, over almost any network. VMware View offers:

Simplified Management

With the entire desktop infrastructure behind the firewall, you can easily upgrade and update the environment. Support for employees at corporate, in remote offices, and across the globe is greatly simplified as their desktop lives—virtually—just down the hall in your data center. The cost of an update or upgrade is greatly reduced as this is done once in the data center.

Enhanced Security

Desktop and laptop information is most at risk. Once a laptop leaves the building and is off the corporate network, you are unable to enforce information handling procedures. With the infrastructure completely housed in the data center, including sensitive information, you no longer have the risk of a data breach once information leaves the company.

Business Continuity

VMware View is built on VMware vSphere 4. VMware vSphere 4 includes advanced high availability and fault tolerance features to ensure business continuity

Increased flexibility

An inherent feature of virtualization is flexibility. With the separation of the application, in this case the desktop, from the hardware you are able to redeploy desktops, increase resources to the desktop, and migrate the infrastructure as needed.

Lower costs and increase efficiency

A virtualized desktop environment lowers costs across your business. IT can deliver a consistent end-user experience, increasing productivity and efficiency. Operational and capital expenditures are drastically reduced with simplified management and better utilization of assets. Finally, the total cost of ownership of your infrastructure is reduced.



Deliver desktops as a managed service to better support business objectives

Benefits of Vblock Infrastructure Packages

A Vblock delivers a pre-integrated, validated infrastructure to support your business. Vblock Infrastructure Packages simplify and accelerate time to production, significantly reducing costs and enabling you to support your business initiatives. There are several versions of Vblock Infrastructure Packages varying in capacity, computing power, and throughput.

Compute

Leveraging industry leading virtualization technology, a Vblock delivers the flexibility and agility companies need to deliver IT as a service. With virtualization you can optimize the use of resources throughout the environment from the server, through the network, to the storage. This greatly simplifies management, business continuity, and security while fully utilizing assets across your environment.

- Simplify operations with third party multi-pathing, distributed switch and host configuration controls
- Automated resource management enables you to effectively manage power, dynamically allocate resources and support live storage migrations
- Ensure information availability while delivering security leveraging live migrations

Powerful computing enables you to consolidate several applications, including business critical applications, leaving you with one physical infrastructure to manage, secure, and protect. This layer of the infrastructure unites compute, network, storage access, and virtualization into a cohesive system designed to reduce total cost of ownership (TCO) and increase business agility. Key features include:

- Integrated low-latency, lossless 10 Gigabit Ethernet unified network fabric with enterprise-class, x86-architecture servers
- Easily implement role- and policy-based management using service profiles and templates. Infrastructure policies—such as power and cooling, security, identity, hardware health, and Ethernet and storage networking—needed to deploy applications are encapsulated in the service profile

Network

To support a robust infrastructure, you need a robust network. The network included in the innovative architecture of a Vblock simplifies data center transformation by enabling a high-performance, standards-based, Ethernet unified fabric. The platform consolidates separate LAN, SAN, and server cluster network environments into a single unified fabric. Flexibility and power are gracefully combined to support a wide range of service level agreements. Comprehensive security is built in to ensure information protection. Key features include:

- Total cost of ownership (TCO) reduction through data center infrastructure simplification
- Data center consolidation with investment protection for existing server, network, storage, and facilities assets
- Increased business agility through virtual machine-optimized services
- Enhanced business resilience through higher levels of operational continuity



- Ease of deployment and alignment with existing operational models and best practices in the data center

Storage

A unified, multi-protocol storage environment enables you to realize the benefits of a virtual environment. Automation dramatically lowers costs, fully automated storage tiering which automatically re-locates information based on use is included. This dramatically reduces storage and management costs while restoring time to your IT organization to focus on projects that directly impact the business. Key features include:

- Data deduplication with compression delivers maximum storage efficiency for primary and archived file systems
- File-level retention delivers on WORM requirements with an Enterprise and Compliant option
- Virtual Provisioning allows the file systems and iSCSI LUNs to be logically sized to required capacities and physically provisioned with less, so storage does not sit unused

Solution Value Proposition

By leveraging a Vblock for your VMware View infrastructure, you are able to rapidly deploy resources using templates, reducing operational expenses while ensuring internal policies are followed for allocation. Using template-based virtualization to allocate and provision resources, an enterprise can reduce performance bottlenecks and configuration errors through automation. Each virtual machine is equipped to run a workload that simulates typical user behavior—using an application set commonly found on desktop environments such as Microsoft Outlook, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, and Adobe Acrobat Reader. Four core technologies are used to perform template-based provisioning and configuration:

- VMware View to provision, manage and monitor users and desktops
- VMware vSphere 4 to enable multiple virtual servers to be deployed to handle increased compute demands while existing server templates are in use
- Cisco Unified Computing System to provide administrators the ability to scale out computational power while limiting the impact on the network infrastructure

Solution Benefits

VMware View on a Vblock enables you to consolidate an infrastructure from thousands of hardware devices into a single validated, pre-integrated infrastructure. This solution minimizes the risk of deploying a new infrastructure, because Cisco, EMC, and VMware have done the testing and integrating for you. Businesses today are spending weeks, and even months, with

test and development environments to ensure the platform is robust enough to support the application. With a Vblock, this testing has been completed for a fast deployment with reduced risk. As this one infrastructure is able to support thousands of users, you can realize significant cost savings in terms of capital and operational expenditures.

This greatly simplifies management of your desktop environment, which is typically at high risk and the most difficult to manage as end-users constantly introduce unknown behaviors. The desktop environment is now centralized, behind the firewall, on a tested platform, for ease of management, security, business continuity, and backup. You are able to easily support service level agreements and compliance initiatives while delivering the performance your end-users need to maintain productivity levels.



Vblock Infrastructure Packages are pre-integrated, validated units of infrastructure which accelerate time to production for your most critical applications, such as VMware View.

Virtual Computing Environment Coalition

Cisco, EMC, and VMware, make up the Virtual Computing Environment (VCE) coalition. This coalition is an unprecedented collaboration and offers organizations of all sizes an accelerated approach to data center transformation with dramatic efficiencies that promise significant reductions in both capital and operating expenses. As a result, organizations will no longer have to choose between best-of-breed technologies and end-to-end vendor accountability. There are four pillars of the VCE coalition: Vblock Infrastructure Packages; Integrated Presales, Professional Services, and Support; Acadia Solutions Joint Venture and Investment; and the Vblock Partner Ecosystem. You can leverage these initiatives to accelerate your journey to the Private Cloud.



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