VMware Virtualization and Cloud Management

Simplify IT Management

AT A GLANCE

Today's IT organizations are under pressure to increase service levels, implement self-service provisioning and build the next-generation infrastructure for the cloud—all with the resources they have today. However, the traditional management tools were built for siloed, static environments and simply not designed to meet today's demands. As IT environments become increasingly dynamic and businesses move towards the cloud, a new approach to management is needed.

As the leader in virtualization and cloud infrastructure, VMware offers purpose-built management solutions for dynamic environments that fundamentally improve how organizations manage IT and deliver services. The VMware approach enables zero-touch infrastructure, with the built-in automation and policy-based control required to deploy a self-service model. VMware solutions fundamentally simplify how IT is managed by accelerating IT service delivery, increasing operational efficiency, automatically assuring compliance, and by reducing business risks.

KEY BENEFITS

- **Zero-touch automation –** Create a zero-touch infrastructure and optimize operational efficiency, with built-in automation to make smarter and better use of virtual and cloud infrastructure.
- **Policy-driven service assurance –** Deliver self-service with control and dynamically assure compliance and performance in the face of growing service-level expectations and accelerating changes.
- **Management and cloud interoperability –** Ensure freedom of choice through interoperability with management ecosystem partners and cloud service providers, using an open, standards-based approach.

IT Management Challenges

In the cloud era, IT organizations must respond nimbly to the business while controlling costs. Progressive IT organizations are becoming more like service providers, striving to enable self-service models of IT consumption while maintaining control and compliance. Virtualization has accelerated delivery of IT services and is a required foundation for cloud infrastructure. Delivering self-service and managing these dynamic environments requires a new level of automation to minimize cost and ensure control and compliance.

Traditional tools and processes that were designed for siloed, static physical infrastructures cannot provide the automation and control needed for inherently dynamic virtualized environments and cloud infrastructures. They also lack the ability to manage applications independently from their underlying infrastructures, a requirement for mobility and portability across cloud infrastructures. Only with a new approach can IT organizations achieve the efficiency, control and compliance they need to move from cost center to service provider.

Transform IT Management

Recognized as the leader in virtualization, VMware is uniquely positioned to build on this foundation with evolutionary, next-generation management solutions designed specifically for dynamic virtualized and cloud environments. These new solutions replace inefficient, manual processes with policy-driven automation and deliver IT management capabilities as an intrinsic part of the system instead of as an afterthought.

VMware first simplified infrastructure complexity through virtualization and is now simplifying IT management complexity with next generation management solutions. VMware virtualization and cloud management solutions are purpose-built for dynamic environments to fundamentally change how organizations manage IT and deliver services.

This approach is built on the foundation of VMware vSphere™ and VMware vCloud Director to enable a zero-touch infrastructure, with the built-in automation and policy-based control required to deploy a self-service model and deliver IT as a service. VMware takes the complexity out of management, accelerating IT service delivery, transforming operational efficiency, automatically assuring compliance, and reducing business risks.

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VMware Solutions for Virtualization and Cloud Management

Management and compliance are designed into each architectural layer of the new IT stack.
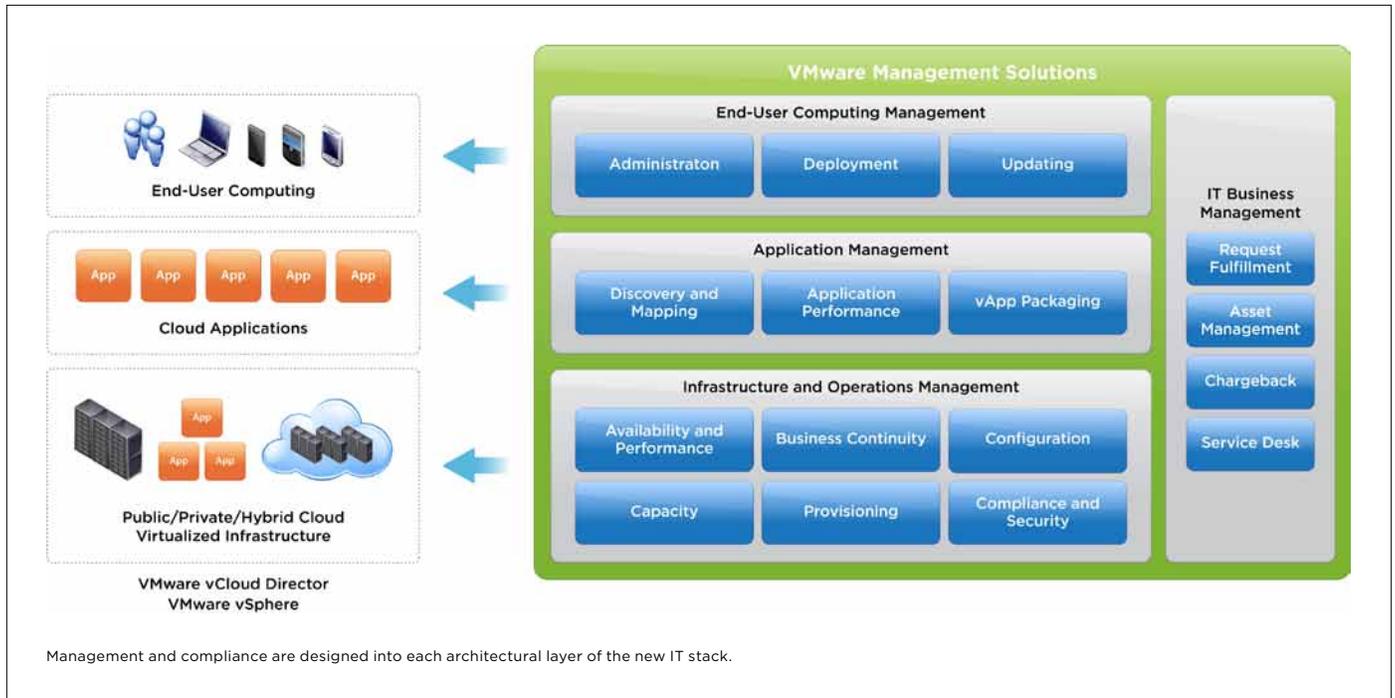
Infrastructure and Operations Management

VMware infrastructure and operations management solutions maximize operational efficiency and dramatically simplify infrastructure management, enabling IT organizations to:

• Create a zero-touch, compliant infrastructure.

• Build automation into the platform.

• Deliver self-service through policy-driven control.

Only VMware solutions give you the power to perform zero-downtime maintenance, balance workloads on the fly in response to changing business conditions, and protect critical workloads against unplanned server downtime.

VMware infrastructure and operations management solutions build on the strength of the vSphere platform and provide the underpinnings for successful cloud implementations. IT organizations can drive the highest levels of efficiency, automation and security while reducing operational costs with VMware vCenter™ Server, the foundation for the VMware vCenter product family. The industry's most advanced virtualization management platform enables seamless end-to-end datacenter management through a rich set of APIs that enable integration with third-party management tools.

VMware infrastructure and operations management solutions simplify your virtual datacenter operations across virtual and

physical environments with "set and forget" policy-driven administration and automated IT processes. The IT team can optimize capacity with VMware vCenter CapacityIQ, streamline disaster recovery with VMware vCenter Site Recovery Manager, and ensure continuous configuration compliance with VMware vCenter Configuration Manager.

Application Management

VMware application management solutions enable IT to quickly, accurately, and confidently transition applications to virtualized environments and cloud infrastructures. With VMware application management solutions, IT teams can:

• Dynamically map application dependencies across the datacenter.

• Monitor and assure application performance.

• Encapsulate applications to ensure portability and mobility.

Today, customers rely on VMware more than ever to run mission-critical applications—84 percent of virtualized applications run on VMware vSphere. As the rate of change accelerates and SLA expectations grow, datacenter and application teams need to ensure performance and gain better visibility into unknown, unexpected, and unwanted application dependencies.

For example, with VMware vCenter Application Discovery Manager, users can quickly understand application dependencies with unparalleled accuracy to accelerate moves and changes with higher levels of control and assurance. Using SpringSource® Hyperic, IT organizations can monitor and manage performance for Web and custom applications across physical, virtual and cloud environments. VMware vCenter AppSpeed makes it simple to monitor application transactions and break latency issues down to the contributing components using non-intrusive technologies designed for virtual infrastructures.

End-User Computing Management

With the increasing consumerization of IT, end users are becoming more demanding, requiring anytime, anywhere access from an ever-growing array of applications and devices. VMware end-user computing management allows IT teams to:

• Provision and deploy virtual desktops rapidly.

• Manage virtual desktop images more easily.

• Deliver virtualized applications to endpoint devices.

These capabilities enable IT organizations to move toward user-centric management and embrace cloud-ready services to deliver the right content, in the right context, in a secure, policy-driven manner.

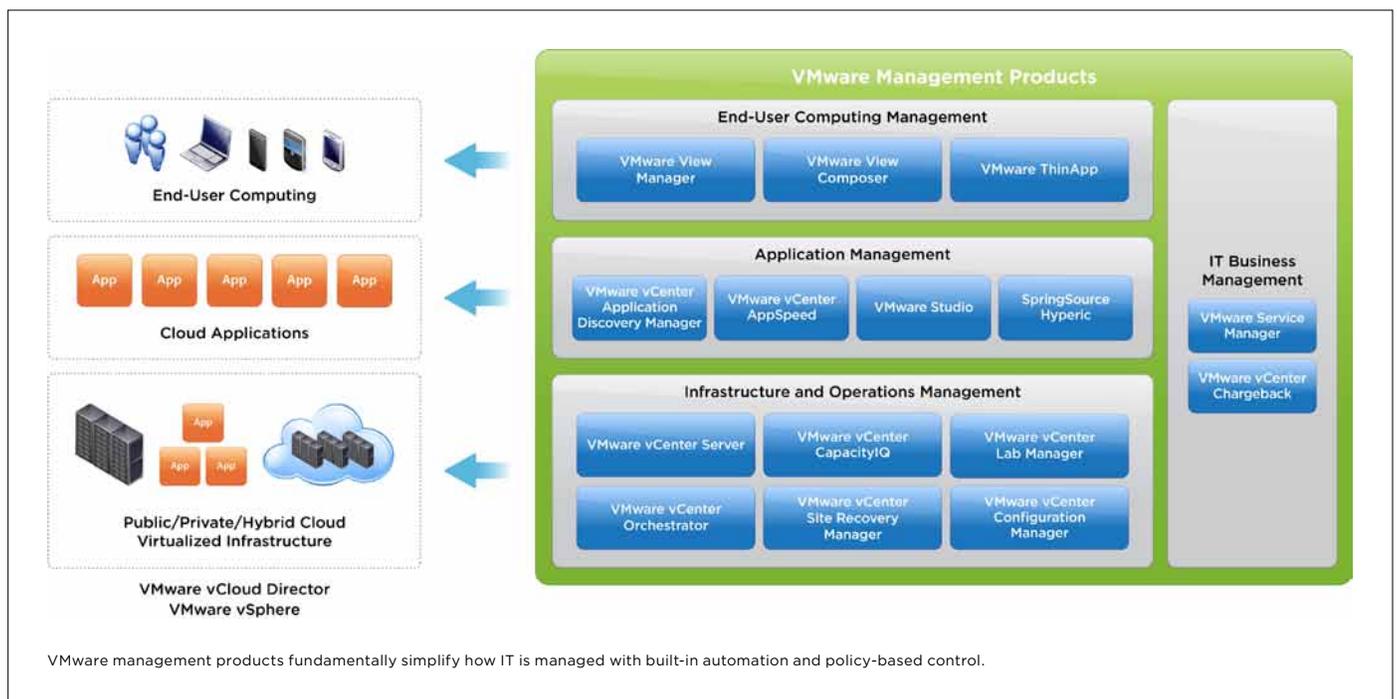Desktop and application virtualization breaks the bonds between software, hardware and operating systems, eliminating the need to actually install or manage desktop environments on end user devices. From a central location, IT administrators can deliver, manage and update all Windows desktops and applications in minutes. This approach makes the testing, provisioning and support of applications and desktops much easier and less costly.

For example, you can modernize your desktop infrastructure with VMware View™ and VMware ThinApp™. Both offerings allow you to better manage traditional desktop layers (operating system, applications and persona) and increase the security and compliance around these components while providing the freedom and flexibility of access across a variety of end-user devices. This is possible because desktops, applications and data are secure in the datacenter and delivered as a managed service.

IT Business Management

VMware IT business management solutions allow IT and service providers to confidently deliver new levels of self-service while ensuring these new services are automatically governed with appropriate business and process-level controls. Self-service without business governance can lead to sprawl, cost, licensing, chargeback, and security issues. To address these issues, VMware solutions:

• Enable transparent cost reporting.

• Govern cloud provisioning processes.

• Track cloud software license usage.

VMware management products fundamentally simplify how IT is managed with built-in automation and policy-based control.

For example, solutions such as VMware vCenter Chargeback help users gain cost transparency and accountability across business units to model, measure and assign costs for IT service delivery. In addition, VMware Service Manager streamlines traditional IT service management (ITSM) processes with intuitive, graphical workflow modeling and enforcement, along with simple automation of complex change, configuration, release and provisioning tasks.

Simplify IT Management Now

Learn more about how VMware virtualization and cloud management solutions can help transform your IT organization from a cost center to a service provider. Visit http://www. vmware.com/solutions/virtualization-management/ to find industry reports, best practices and other resources that will help you simplify how you manage your IT infrastructure and the applications that depend upon it.

Find Out More

For information or to purchase VMware products, call 877-4-VMWARE (outside of North America dial 650-427-5000), or visit www.vmware.com/products. For detailed product information and systems requirements, please refer to the specific product documentation also located on www.vmware.com/products

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