**EMC VSPEX PRIVATE CLOUD**

Accelerate Your Journey to Your Cloud with The Next Generation VNX and EMC Powered Backup

**THE CHALLENGE: BUILDING A PRIVATE CLOUD**

IT is at a breaking point. Companies are spending over 70% of IT budgets on infrastructure maintenance, leaving little room for innovation. Yes, these same departments are under pressure to maximize efficiency and reduce costs while increasing IT agility and helping drive business revenue. Cloud computing is revolutionizing the IT process by making it possible to run IT as a service and drive maximum efficiency and agility.

**THE SOLUTION: VSPEX PRIVATE CLOUD**

EMC has joined forces with the industry’s leading providers of IT infrastructure to create a complete virtualization solution that accelerates deployment of the private cloud. Built with best-of-breed technologies and anchored by EMC VNX storage and EMC powered backup, VSPEX enables faster deployment, more simplicity, greater choice, higher efficiency, and lower risk. Validation by EMC ensures predictable performance and enables you to select technology that leverages your existing IT infrastructure while eliminating planning, sizing, and configuration burdens. If you are looking to simplify your infrastructure by leveraging the benefits of a converged offering, while at the same time taking advantage of more choice in individual stack components, then VSPEX is the ideal solution for you.

VSPEX eliminates the traditional stumbling blocks in the way of a private cloud deployment by delivering solutions that are defined as reference architectures, and, as such, have been tested, sized, and proven by EMC to scale and deliver the performance and protection your business needs. With VSPEX, you can leverage a choice of hypervisor to abstract physical hardware and deliver a software defined data center built on the promise of Software as a Service (SaaS).

**SIMPLE: PROVEN BY EMC, DELIVERED BY PARTNERS**

VSPEX eliminates the concerns of puzzling together a complete virtual infrastructure by providing guidance on components that have been compatibility tested and proven to scale to and match your business requirements. EMC’s technology alliances with the leading hypervisors, from Microsoft and VMware, make managing and monitoring your private cloud’s EMC VNX storage and EMC powered backup simpler.
EFFICIENT: STREAMLINE OPERATIONS

VSPEX enables administrators to become more efficient, productive and empowered to spend time planning, rather than reacting, by eliminating the many standalone physical servers and pockets of storage through transforming isolated and costly physical systems to fast, efficient and easy to manage virtual systems that leverage EMC storage & backup optimized for virtualization.

The next generation of VNX upon which to deliver greater efficiency, performance, and scale than ever before. The new VNX series has been re-architected from the ground up in a clean sheet design. The new architecture unleashes the power of all the VNX’s Intel Multi-Cores in a system optimized to distribute all services across all cores in a uniform manner delivering up to 4x the performance of its predecessor. This Multi-Core design means that the VNX Series delivers FLASH 1st at scale, with more firepower, using the latest Intel multi-core technology, along with the software to take advantage of the increased horsepower.

VSPEX is architected with next generation VNX, a FLASH optimized hybrid array with Active/Active Service Processors that provides automated tiering, delivering performance matched to the data’s resource requirements, while intelligently moving less frequently accessed data to lower cost disk. In this hybrid approach, a very small percentage of flash drives in the overall system can provide a high percentage of the overall IOPS, ensuring that you never have to make concessions for cost or performance. FAST Cache dynamically absorbs unpredicted spikes in system workloads. As data ages and becomes less active over time, FAST VP tiers the data from high-performance to high-capacity drives automatically, based on policies you define.

EMC powered backup and recovery delivers the confidence and efficiency that accelerates your VSPEX cloud deployment. Our software is proven to reduce backup times by 90% and speed recoveries by 30x for worry-free protection. EM. protection storage adds another layer of reliability, with end-to-end verification and self-healing for ensured recovery.

EMC backup also delivers big savings. With industry-leading deduplication, you can reduce backup storage by 10-30x, backup management time by 81%, and WAN bandwidth by 99% for efficient Disaster Recovery (DR)—delivering as much as a 7-month payback. In all, you will be able to scale simply and efficiently as your environment grows.

For VMware-based deployments, VSPEX also offers VMware vSphere Data Protection Advanced (VDP-Advanced) in addition to EMC Avamar and EMC Data Domain. VDP-Advanced is powered by Avamar technology, and integrates with EMC protection storage. So you will get the same fast, efficient, reliable image-level and file-level backup, recovery and DR for complete protection confidence.

FLEXIBLE: PROVEN INTEGRATION

VSPEX solves the challenges you will experience when building a private cloud. By delivering solutions packaged as reference architectures that eliminate the burdens of planning & sizing, while scaling & delivering the performance you need, you can be on the path to a private cloud sooner than you think.