

EMC VSPEX PROVEN INFRASTRUCTURE FOR VIRTUALIZED ORACLE

Simple, Efficient, Flexible Infrastructure For Oracle Database Cloud Environments with VSPEX



ESSENTIALS

Challenges

Simplify and reduce cost of IT for Oracle.

Maximize efficiency of DBAs and IT teams

The Solution

VSPEX Proven Infrastructure enables simplified, easily deployed, managed and protected virtual infrastructure for Oracle databases.

Simple

One platform for all Oracle database virtual infrastructure requirements.

Efficient

Makes DBAs and IT teams more efficient in daily tasks

Flexible

Seamlessly leverages multiple Oracle database versions, servers and networks

THE CHALLENGE: SIMPLIFY IT AND EMPOWER DBAS

IT departments are under pressure to maximize efficiency and reduce costs while increasing IT agility and helping to drive business revenue. In such a climate, IT has no choice but to transform itself from being responsive to business demands and user requirements to being a leader in providing service and delivering competitive advantage. Oracle databases play a critical role and are the heart of many IT organizations. Many IT environments today still operate their Oracle database infrastructure based on silos physical servers and storage for production and supporting test, development and QA environments. This physical approach to IT leads to excessive hardware spend and inconsistent levels of database performance as well as forcing both database and IT administrators to focus on reactive maintenance of IT versus proactive value-added activities. Many IT organizations are considering virtualizing their Oracle database environments as part of a cloud strategy to consolidate and share servers and storage resources and make it faster and easier to manage their IT systems.

THE SOLUTION: VSPEX PROVEN INFRASTRUCTURE FOR VIRTUALIZED ORACLE DATABASES

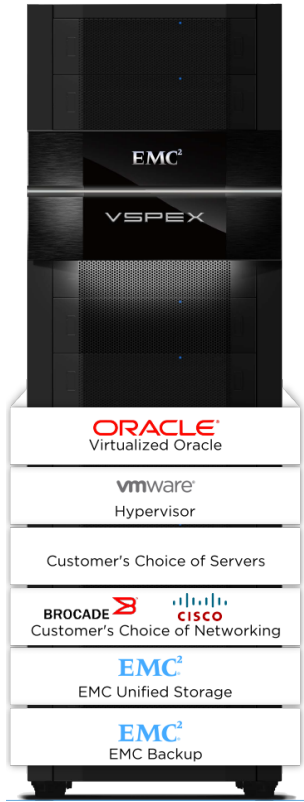
EMC VSPEX Proven Infrastructures for virtualized Oracle delivers a simple, easily deployed platform to leverage the benefits of virtualized Oracle database environments consolidating production and pre-production environments to a unified infrastructure for greater simplicity.

Once deployed, VSPEX Proven Infrastructure for virtualized Oracle combines the power of VMware vSphere, EMC Next Generation VNX Unified Storage and EMC backup to make DBAs and IT teams much more efficient in managing both production and pre-production environments.

VSPEX Proven Infrastructure for Oracle is designed to support heterogeneous servers and networks as well as multiple Oracle database versions to provide ultimate flexibility to move to cloud computing seamlessly, while leveraging more of their existing IT assets.

EMC engineering testing and validation for VSPEX eliminates much of the risks in planning, sizing, and the traditional configuration burdens in deploying Oracle database infrastructure, helping your IT organization streamline database and IT management operations and spend more time on innovation.

The result is an IT infrastructure that is simple, efficient and flexible.



MAKING IT AND DBA TEAMS MORE PRODUCTIVE

VSPEX Proven Infrastructure for virtualized Oracle allows the consolidation of both Oracle database production and pre-production environments through EMC VNX Unified Storage infrastructure. Once consolidated, the VMware Cloud Management suite provides a comprehensive set of tools to simplify tasks required for managing Oracle database environments. This includes simplified cloning and provisioning of new database environments as well as simplified database refreshes using VM templates for Oracle server configurations in production, test, development or Maintenance. Through EMC's Virtual Storage Integrator (VSI) plugin for VMware, EMC VNX storage resources can also be managed directly from the vSphere Client making storage monitoring and provisioning fast and simple. Through this simplified, virtual infrastructure, the power of VMware and EMC software can be leveraged to make Oracle DBAs and IT teams more efficient.

MAXIMUM ORACLE PERFORMANCE AT LOWEST COST

EMC VSPEX leverages the Next Generation of VNX which distributes workload across all of its cores for greater efficiency and EMC Fully Automated Storage Tiering FAST and FAST Cache to automatically tier Oracle workloads to aggressively reduce TCO or increase performance using different combinations of high-performance Flash drives and higher capacity SATA drives. With EMC FAST, Oracle DBAs can now set policies based on specific database workload requirements, scalability thresholds or timeframe parameters and have EMC FAST enforce those policies automatically.

EMC FAST fully supports Oracle Automated Storage Management (ASM) and Real Application Clusters (RAC) environments to balance tiering of Oracle workloads across multiple ASM disk groups. The result is Oracle DBAs spend 80% less time tuning Oracle databases while EMC FAST VP targets the use of flash technology to boost Oracle performance when and where it is needed.

EMC testing results have shown the ability to boost virtualized Oracle database performance up to 3X while reducing Oracle database and infrastructure cost through more effective use of Oracle CPU and storage resources. For even greater performance uplift, XtremCache delivers accelerated block I/O reads and lower response times in OLTP environments. Leveraging intelligent software and PCIe technology, XtremCache can enable throughput improvements over 300% and reductions in latency by up to 50%.

EMC BACKUP FOR PROTECTION CONFIDENCE, FLEXIBILITY - AND BIG SAVINGS

All VSPEX configurations leverage proven EMC Backup and Recovery solutions, providing the protection confidence needed to deploy virtualized Oracle. Optimized for virtualized application environments, EMC backup reduces backup times by 90% and speeds recoveries by 30x for worry-free protection. EMC backup appliances add another layer of assurance with end-to-end verification and self-healing for ensured recovery.

Increasingly, Oracle DBAs want to manage backup on their own with RMAN, but this can lead to inefficient backup silos. EMC backup offers a solution. It enables DBAs to fully control backup, recovery and replication using RMAN, but stores the backup data on EMC backup appliances managed by a central team. This eliminates silos, increasing efficiency and lowering risk.

EMC Backup also delivers big savings. Our deduplication solutions reduce backup storage by 10-30x, backup management time by 81%, and bandwidth by 99% for efficient offsite replication – delivering a 7 month payback on average.

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