VSkyCube

PROMISE TECHNOLOGY

THE PROMISE OF HYPERCONVERGENCE FOR EVERYONE

Simple - Agile - Scalable - Efficient - Unified

VSkyCube, unlocks the full potential of infrastructure hyperconvergence

VSkyCube is a new generation of Hyperconverged Systems, optimized for small and medium enterprises, that scales exceptionally well for large data centers as well. For your company's IT infrastructure to keep pace with your business cycles, you need systems that support fast, responsive development processes.

The VSkyCube hyperconverged system from Promise allows you to unlock the full potential of infrastructure hyperconvergence and adapt IT to the needs of your workloads.

The VSkyCube uses a software-defined approach, combining tightly-coupled software-defined compute, storage, and networking in the form of hyperconverged nodes.   Together with a centralized single pane of glass management system, VSkyView, these technologies deliver a pre-integrated and adaptable cluster with a unified pool of resources that you can quickly deploy, adapt, scale, and manage.

The VSkyCube is the hyperconverged infrastructure operating software that:

› Provides an extremely economical infrastructure to run virtual machine-based applications
› Effortlessly scales out as demand for either or both compute and storage capacity surge
› Manages growth while allowing IT to run smoothly

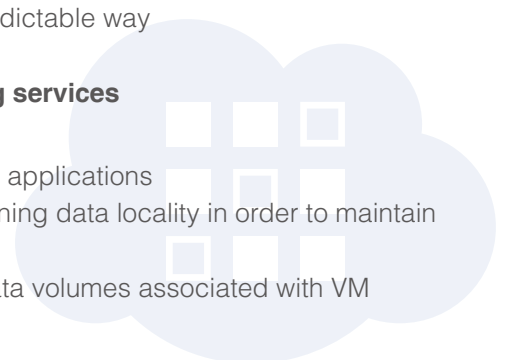### Simplified deployment and unified management

- Fast and simple deployment from a single pane of glass management interface. Centralized management system, VSkyView, provides easy and unified management interface for daily IT operations
- Script-based orchestration - makes complex deployment a breeze the very first time and when duplicating
- Utility to support workload migration from physical Windows servers to alleviate the pains of manual migration at deployment time

Highly scalable and predictable IT infrastructure

- Scales extremely well, allowing you to plan your IT infrastructure growth in a predictable manner
- Scale-out: Minimum deployment starts from one node, scales one node at a time, up to 32 nodes. Five different appliance models allow you to deploy for compute-intensive, storage-intensive, as well as compute-storage-balanced mixed workloads. This granularity allows for superb cost savings by scaling out with customized mix of appliances
- Linear predictability: As nodes are added to the VSky hyperconverged cluster, the number of virtual machines and/or storage capacity that can be supported on the cluster grows in a linear predictable way

Compute virtualization - agile, highly available, and economical computing services

- Fully integrated with KVM hypervisor without extra license cost
- Full integration of VMs and virtual networking eases deployment of multi-tier applications
- VM migration with or without service shut down are supported while maintaining data locality in order to maintain operation at high performance level
- Supports VM-based snapshots to protect VM's system volume as well as data volumes associated with VM

vSkyCube

PROMISE TECHNOLOGY

Server SAN storage, improved availability, scalability, manageability, performance, and capacity utilization

- VSkyCube converged server SAN storage enables a true "application-driven, software-defined" storage architecture. Allows storage usage to be defined and allocated at application deployment time as requested. Furthermore, specific storage attributes such as performance levels, protection options, others can be specified by individual application
- VSkyCube converged server SAN storage offers performance improvements and better storage capacity utilization by SSD caching, thin-provisioning, tiering, and dynamic volume expansion.
- Data protection: In addition to local RAID protection, VSkyCube converged server SAN offers another layer of protection with RAID5-fashion data striping across nodes (RAIN). Can be specified by applications at deployment time
- High resilience and availability: VSkyCube converged server SAN automatically detects partial failure conditions at block, disk, and node levels, and triggers a healing process without stopping availability of the storage
- Deployment and scaling: Volume expansion as well as physical storage resource expansion are made easy by a simple point-and-click interface, while maintaining storage service

Why hyperconvergence?

- › Consolidates IT resources - deploy and scale virtualization in your IT infrastructure
- › Operationalize 'Multi-modal IT' – support the deployment of new enterprise technologies in the your data center without remodeling or refreshing other resources already at work in your production environment
- › Complement Enterprise IT - Hyperconvergence improves areas where enterprise IT that have traditionally been weak, such as single-point-of-contact for technical support, deploying shared storage, implementing pay-as-you-grow cost model for Remote Office/Branch Office (ROBO)

System Specifications

The VSkyCube integrates compute, storage and networking on x86 commodity hardware. Five appliance models for compute-intensive, storage-intensive, as well as compute-storage-balanced mixed workloads:

Appliances	Hardware Specifications	Suitable for (workload mix)
VSky c100	1U, 1 Node Per node: • 2 x Intel Xeon® E5-2630v3, 2.4 GHz (8 core) • 256 GB RAM • 1 x 480 GB SSD • 3 x 4TB 3.5" NL SAS HDD	Compute intensive
VSky i100	1U, 1 Node Per node: • 2 x Intel Xeon® E5-2630v3, 2.4 GHz (8 core) • 256 GB RAM • 1 x 480 GB SSD • 7 x 1.2TB 2.5" SAS HDD	Balanced, compute and storage
VSky i200	2U, 4 Node Per node: • 2 x Intel Xeon® E5-2630v3, 2.4 GHz (8 core) • 256 GB RAM • 1 x 480 GB SSD • 5 x 1.2TB 2.5" SAS HDD	
VSky s200	2U, 1 Node Per node: • 2 x Intel Xeon® E5-2630v3, 2.4 GHz (8 core) • 256 GB RAM • 1 x 480 GB SSD • 3 x 4TB 3.5" NL SAS HDD • 8 x 4TB 3.5" SATA HDD	Storage intensive
VSky s400	4U, 2 Node Per node: • 2 x Intel Xeon® E5-2630v3, 2.4 GHz (8 core) • 256 GB RAM • 2 x 480 GB SSD • 3 x 2TB 3.5" SAS HDD • 32 x 4TB 3.5" SATA/SAS HDD	

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