

## VPLEX

VPLEX™ delivers continuous data availability, transparent data mobility and non-disruptive data migration for mission-critical applications.

### VPLEX Essentials

With 10,000+ clusters installed worldwide, VPLEX is a trusted and proven technology.



VPLEX delivers high performance for the latest flash storage technology in combination with reduced latency to ensure business critical applications are never down and VPLEX delivers greater than six 9's availability.

Ansible modules for VPLEX enable operational teams to rapidly provision storage infrastructure with accuracy to respond to the fast-paced needs of application developers.

### VPLEX Overview

IT organizations worldwide are rapidly moving to all flash storage to take advantage of the performance, workload consolidation, and the rich data services that lower the total cost of ownership. Nevertheless, availability of business-critical workloads is still a huge challenge. Planned and unplanned downtime continues to cause undesirable disruption to operations with severe business impact.

VPLEX maximizes the returns on investments in all-flash infrastructure or hybrid arrays by providing continuous availability to the business-critical workloads. VPLEX also creates a flexible storage architecture that gives IT teams the agility they need to respond to rapid business and technology changes while maximizing asset utilization across active-active datacenters.

VPLEX enables IT organizations to build datacenter infrastructure that is always available and non-disruptive. VPLEX's unique implementation of distributed cache coherency allows the exact same data to be read/write accessible across two storage systems at the same time. This in turn ensures uptime for business-critical application scenarios and enables seamless data mobility across host arrays without host disruption. The storage systems can be in a single datacenter (VPLEX Local), or separated by distance, (VPLEX Metro).

Here are some of the features that won the trust of IT organizations to deploy it successfully over thousands of datacenters.

- **Flash-optimized:** Performance optimization for all flash arrays, support for thin provisioning space reclamation using UNMAP XCOPY support on all flash
- **Scale-out:** VPLEX scales up to four VPLEX engines in a single cluster that can support multiple all flash storage systems
- **Dedicated:** VPLEX requires no compute resources from the application hosts or on the underlying array to maximize data availability
- **No single point of failure:** All connectivity between VPLEX cluster nodes and across VPLEX Metro configurations is fully redundant, ensuring protection against single points of failure
- **Storage Monitoring and Reporting (M&R):** Storage M&R™ for VPLEX is included with VPLEX systems, providing in depth views of all VPLEX components as well as trending data to visualize and analyze the utilization, capacity, health, and performance of the VPLEX system

## VPLEX Use Cases

**Continuous Application Availability** - Mission-critical workloads have very low tolerance for downtime and require non-stop operations. There are many factors that can cause applications to go down: power, tech refresh, unexpected failures or human errors. VPLEX gives unmatched protection and availability to applications through automatic failover and failback between arrays and datacenters.

**Data Mobility** - Today's datacenters are overloaded with data and applications. IT staff are facing huge challenges to frequently adjust and reconfigure their environments, often causing application downtime. Storage that is decoupled from compute gives IT staff much more flexibility to move workloads without host disruption:

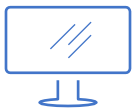
- Non-disruptively move virtual server and storage resources within and across datacenters including VMware vMotion and Microsoft Hyper-V Live Migration
- Transparently balance and relocate workloads in anticipation of planned events and maintenance
- A VPLEX enabled data infrastructure shields IT teams from storage activities that cause host disruption, delivering flexibility for IT data management

**Technology Refresh:** Data migration with VPLEX is performed without application downtime, saving IT teams countless weekends of maintenance downtime and migration service costs. VPLEX accelerates adoption of flash technology, trims migration costs and enables data center modernization that is efficient and non-disruptive. For some customers, modernizing data center infrastructure involves moving and consolidating data centers. Migrating hundreds of applications is a daunting task that can stretch to months in implementation. With VPLEX, customers can move petabytes of data non-disruptively and realize the benefits of operating multiple datacenters.

## Modernize Now with VPLEX

The VPLEX platforms:

- Optimize all flash storage with improved IOPS and reduced latency
- Scale up to four engines with support for up to 12000 volumes on both Local and Metro
- Provide simultaneous read-write access across two arrays or locations locally or over sync distances



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