Hewlett Packard Enterprise

Automatic and unattended disaster recovery

HPE Peer Persistence for HPE 3PAR and Nimble Storage

Be prepared for anything with always-on availability. Allow your hosts, virtual machines (VMs), and data to move freely across data centers and not be constrained by their physical boundaries.

Intelligent Storage with built-in disaster recovery

HPE 3PAR and **HPE Nimble Storage** provide proven, highly available platforms with 6-nines availability guaranteed. With HPE Peer Persistence, you can maintain continuous data availability with no data loss or downtime—even in the event of site-wide or natural disasters. We combine synchronous replication and transparent failover with the power of intelligent storage for a peace of mind solution that literally lets you sleep at night.

Always-on Availability

Built from the resilient architecture of HPE 3PAR Storage, HPE Peer Persistence is available on 3PAR and Nimble Storage.[1] Paired arrays located at metropolitan distances, present a continuous storage system to hosts connected to them. This capability allows you to configure a high-availability solution between two sites where storage failover and failback remains completely transparent to the hosts and applications running on those hosts.

[1] HPE Peer Persistence supports homogeneous setup between HPE 3PAR Storage or between HPE Nimble Storage.

This results in elimination of recovery times because unlike traditional failover models, your applications don't have to be restarted after a failover.

When extended to support a third data center in HPE 3PAR environments for mission critical workloads, HPE Peer Persistence provides extreme data protection. You not only get automatic, transparent failover in case of local storage failure but also a complete disaster recovery plan by replicating the same data to a third site. Peer Persistence configurations with three data centers combine the best-in-class high availability with efficient disaster recovery based on asynchronous periodic replication.

An arbitration mechanism helps resolve split-brain conditions that can occur because of network outages and protects data integrity across arrays in a Peer Persistence setup.

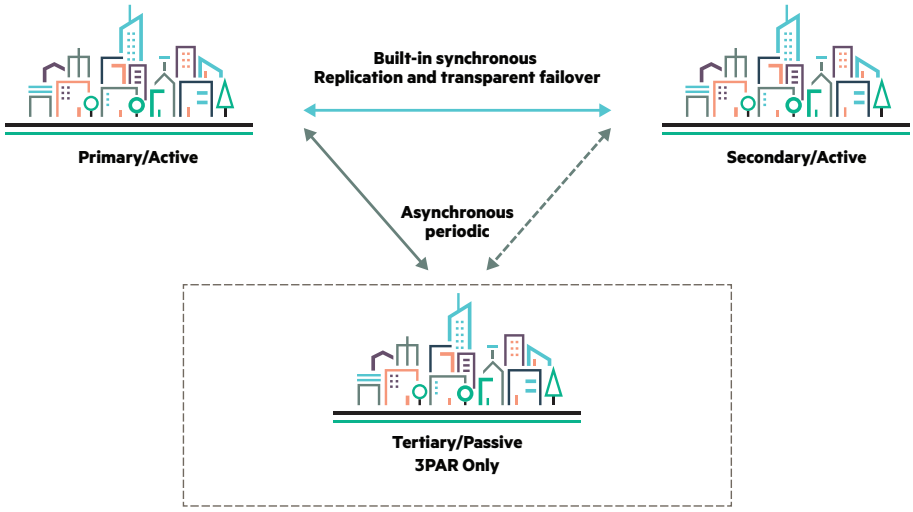

Figure 1. Transparent failover with HPE 3PAR Peer Persistence software

Protection Simplicity

A transparent storage failover solution in traditional arrays typically require external appliances, which add more cost and complexity. Professional Services are often a requirement with setup and installation typically lasting weeks.

HPE Peer Persistence delivers built-in disaster recovery.

- **Set it and forget it**—Integrated data protection with no extra hardware means point and click setup for site redundant infrastructure across large metro areas. Automatically replicated. No professional services or extra hardware required.
- **Ensure transparent, automatic recovery**—Synchronous replication stretches application services over multiple locations with transparent failover that doesn't require human interaction.
- **Save time, money, and bandwidth**—Sync only the volumes you need with granular replication.
- **Simple to manage**—No need for storage experts as intelligent storage from HPE 3PAR and Nimble Storage practically manages itself.

Active-Active Mobility

HPE Peer Persistence software allows you to use both your primary and secondary sites in an "active-active mode" thereby putting your secondary site to active use rather than just using it as an expensive insurance policy against disaster. Move your VMs from one site to another based on your business and performance needs without impacting the applications running on those VMs. In Figure 1, a few VMs are being serviced by a HPE flash system on-site 1 while other VMs are being serviced by another HPE flash system at site 2 located within metropolitan distance from site 1.

Learn more at
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4AA4-3533ENW, November 2018, Rev. 8