



**Hewlett Packard**  
Enterprise

# HPE OPENSTACK FOR 3PAR STORESERV AND STOREVIRTUAL SOFTWARE

## Storage Device Management Software




### WHAT'S NEW

- HPE OpenStack 3PAR and HPE StoreVirtual cinder support for volume replication at scale
- Support for generic image caching to deliver improved performance for new VM image deployments
- Improved Horizon plugins for OpenStack including diagnostics, license checks and

### OVERVIEW

Developed and integrated into the open-source cloud platform, HPE OpenStack for 3PAR StoreServ and StoreVirtual Software provides simplified cloud management with all-inclusive enterprise class storage features in both Cinder (block) and Manila (file) OpenStack drivers. Efficiently and simply deploy and manage true convergence of block, file and object access with 3PAR StoreServ. With Tier 1 Storage and best-in-class service levels, 3PAR StoreServ delivers robust cloud



getting detailed visibility into the cinder volumes

- Support for HPE 3PAR Data-at-encryption with HPE 3PAR Cinder drivers
- Support for file share extend and shrink with HPE 3PAR Manila drivers
- Improved security with access level control for read-only and read-write

performance. For agile and simple scale out storage, StoreVirtual VSA provides complete array functionality on top of Linux KVM/ESXi environments without external array hardware. Leverage your existing x86-based hardware and transform your internal or direct attached storage into fully featured share storage arrays.

## FEATURES

### **Simplified and Converged Management Across Cloud Storage**

IT professionals juggling many responsibilities require simplified and comprehensive insights and management into their cloud environment. Easily manage volumes and snapshots to orchestrate your storage with HPE Storage integration into OpenStack's latest Manila (file) and Cinder (block) drivers.

For fluctuating cloud workloads, HPE 3PAR StoreServ provides unified management of both file and block storage on a dedicated, flash-optimized physical storage appliance.

Leverage your existing x86-based hardware for fully featured block, cloud storage with HPE StoreVirtual VSA. As a software-defined storage (SDS) solution you benefit from agile, scalable and high available storage.

### **Enterprise-ready Cloud Storage Infrastructure**

Build an attainable and successful cloud strategy to operate in today's "always-connected" and "always-on" environment with HPE Storage's industry-leading scale and density to satisfy cloud growth requirements in less physical space.

Improve the use of your capacity with snapshot and volume management, while taking advantage of admin/user defined templates for adaptive volume provisioning with HPE 3PAR StoreServ and HPE StoreVirtual VSA.

Deep linking between Horizon OpenStack user interface and HPE 3PAR's Management Console (SSMC) makes it easier to gather information on the software licenses, helps in diagnostics, deploy and gain management visibility into specific volumes and storage details.

You can also easily import or manage volumes originally created outside of your OpenStack environment.

### **Resilient, Flash Storage in Mind**

Maximize your cloud storage performance through HPE 3PAR StoreServ Adaptive Flash Cache feature that harnesses SSD capacity as a virtual extension of DRAM cache to reduce latency for cloud based online transactions processing (OLTP) and other read-intensive Web workloads.

Achieve greater cost efficiency with uncompromising performance and agility with HPE 3PAR StoreServ converged controllers and storage management. Easily adjust volume types from iSCSI to Fibre Channel or vice versa, without taking the OpenStack cloud offline.



## Technical specifications

## HPE OpenStack for 3PAR StoreServ and StoreVirtual Software

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### Warranty

Hewlett Packard Enterprise warrants only that the software media will be free of physical defects for a period of ninety (90) days from delivery. For more information about the Hewlett Packard Enterprise Global Limited Warranty and Technical Support, visit:  
[http://h20565.www2.hp.com/hpsc/doc/public/display?sp4ts.oid=5211884&docId=emr\\_na-c04770336&docLocale=en\\_US](http://h20565.www2.hp.com/hpsc/doc/public/display?sp4ts.oid=5211884&docId=emr_na-c04770336&docLocale=en_US)

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For additional technical information, available models and options, please reference the [QuickSpecs](#)

## HPE POINTNEXT SERVICES

[HPE Pointnext Services](#) brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

### Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

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**HPE Integration and Performance Services** help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

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- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

### Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

## HPE GREENLAKE

[HPE Greenlake](#) is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

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