



# Virtuozzo Hybrid Infrastructure Backup and Recovery

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Virtuozzo Hybrid Infrastructure is a cloud management platform built on OpenStack technology. It's designed specifically for service providers to offer various cloud services to their customers. Here's a breakdown of its key features:

- **OpenStack-based:** Leverages OpenStack, a popular open-source cloud computing platform, for core functionalities like orchestration and resource management.
- **Turnkey Cloud Platform:** Provides a complete solution for service providers, including software, tools, and functionalities to offer various cloud services.
- **Variety of Cloud Services:** Enables service providers to deliver a range of services like Infrastructure as a Service (IaaS), Public Cloud, Private Cloud, Hybrid Cloud, Kubernetes-as-a-Service (KaaS), Storage as a Service (SaaS), Backup-as-a-Service (BaaS), Disaster Recovery as a Service (DRaaS), and Desktop-as-a-Service (DaaS) to their customers.
- **Easy Management and Deployment:** Designed for simplicity in deployment and management, allowing service providers to quickly set up and manage their cloud infrastructure.
- **Scalability and Flexibility:** The platform is scalable, enabling service providers to add resources as their customer base grows. It also offers flexibility to cater to diverse customer needs.
- In essence, Virtuozzo Hybrid Infrastructure empowers service providers to become one-stop shops for various cloud solutions.



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Storware Backup and Recovery empowers individuals and service providers using Virtuozzo Hybrid Infrastructure to get or offer robust, scalable, and flexible data protection solutions to their customers. This simplifies data management for service providers and ensures business continuity for their customers.

## Supported Platforms

Virtuozzo Hybrid Infrastructure 4.7, QEMU 2.1+

## Features for Disk Attachment Backup Strategy with Generic Incremental Option

- Incremental backup
- File-level restore
- VM disk exclusion
- Quiesced snapshot (Hypervisor dependent)
- Pre/post snapshot command execution
- Disk backups can be shared over iSCSI
- Name-based policy assignment
- Tag-based policy assignment
- Available space for snapshot check (Hypervisor dependent)

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## Highlights



**Simplified Backup for Virtual Machines (VMs)** - Storware offers agentless backups, eliminating the need to install additional software on each VM. This simplifies deployment and management for service providers managing numerous VMs across their Virtuozzo cloud environment.



**Subscription-based Backup as a Service (BaaS)** - By integrating with Virtuozzo, Storware allows service providers to easily offer BaaS as part of their service portfolio. This enables them to provide their customers with data protection for their VMs within the Virtuozzo cloud infrastructure under a single subscription model.



**Flexible Storage Options** - Storware supports various backup destinations, including local storage, cloud storage (like S3), and tape drives. This flexibility allows service providers to cater to different customer needs and budget constraints when it comes to data protection.



**Scalability** - Storware scales seamlessly with the growth of the Virtuozzo cloud environment. As service providers add more customers and VMs, Storware can handle the increased backup demands.



**Disaster Recovery** - Storware's multi-location storage capabilities can be leveraged for disaster recovery purposes. Backups can be stored offsite, ensuring data availability even in case of a disaster at the primary location within the Virtuozzo cloud.



**Set and Forget Automation** - *automate container protection with custom or predefined backup policies. Test backup automatically to ensure recoverability.*



**Security and Reporting** - role-based access control gives administrators greater control over security and an advanced reporting system to evaluate the size and time of backup/restore operations.



**Transparent Licensing and Costs Optimization** - The easiest licensing without hidden costs.



**Support** - highly-responsive 24/7 global support and the Storware Insight option. Storware Insight is an additional technical support enhancement. It sends a daily report on your instance so that our support can react quickly when something unexpected occurs.



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## How it Works?

Storware Backup & Recovery supports Disk Attachment Backup Strategy with Generic Incremental Option for Virtuozzo Hybrid Infrastructure.

Disk attachment through Cinder with changed block tracking:

- supports all hypervisors and storages
- supports incremental backup
- proxy VM is required - used for the disk attachment process.

Storware Backup & Recovery supports the disk-attachment method using cinder. This should allow you to use cinder-compatible storage and still allow Storware Backup & Recovery to create backups. Generic incremental backup is supported. Storware Backup & Recovery needs to communicate with OpenStack service's API to attach drives to the proxy VM with Storware Backup & Recovery Node installed.