

# OpenShift Containers and Virtual Machines Backup and Recovery

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## Red Hat OpenShift

Red Hat OpenShift is a hybrid cloud application platform that simplifies the building, deploying, and managing of containerized applications. It's built on Kubernetes, a powerful container orchestration tool, and provides a scalable and secure environment for both developers and operations teams.

## Red Hat OpenShift Virtualization

Red Hat OpenShift Virtualization allows you to run virtual machines alongside containers on the same platform, providing flexibility and enabling you to modernize existing applications while adopting container-based technologies.

## Red Hat OpenShift backup strategies:

Storware Backup & Recovery supports backup for OpenShift using OADP in the backup process. Prior to adding OpenShift as a new Hypervisor Manager, you must install the OADP operator, version 1.3 or higher, from the Operator Hub within the OpenShift cluster.

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## Features

- Full backup
- Incremental backup
- Restore & file-level restore
- Volume exclusion
- Quiesced snapshots
- Pre/post command execution
- Access to VM disk backup over iSCSI
- Name-based policy assignment
- Tag-based policy assignment
- Power-on after restore
- Statefulset

## Storware Backup and Recovery

Storware provides a comprehensive solution for backing up and recovering both Red Hat OpenShift Containers and Virtual Machines, ensuring your entire environment is protected. Storware is a specialized data backup and recovery solution designed for the Red Hat product family, including OpenShift, OpenStack, RHV, and Ceph. It is easily scalable and suitable for small to enterprise businesses.

Storware Backup & Recovery supports backup for OpenShift using the OADP operator. Metadata of Virtual Machines is exported using the OADP operator, volume data is exported using a side pod (helper pod) using a custom OpenShift Virtualization Plugin docker image. The backup supports full, incremental and synthetic full types. Incremental backup does not require previous snapshots to remain in OpenShift.

Get started with a free version or unlock the full potential of Storware Backup and Recovery with a 60-day trial! Choose Storware and protect your success today.

# OpenShift Containers and Virtual Machines Backup and Recovery

## Benefits



### Transparent Licensing:

the easiest licensing without hidden costs and 24/7 support team at your disposal.



### Scalability and Flexibility:

Storware Backup and Recovery can scale to meet the needs of even the largest OpenShift deployments. It supports a wide range of backup destinations, including local storage, remote storage, and cloud storage.



### Centralized Management and Control:

Storware Backup and Recovery provides a centralized console for managing all backup and recovery operations. This allows organizations to easily monitor backup jobs, schedule backups, and restore data.



### Rigorous Security Features:

Storware Backup and Recovery offers a comprehensive set of security features to protect data from unauthorized access and corruption. These features include: Linux-based installation, IsoLayer – Air-Gap Backup, Immutable Backup Destination, Encryption, Retention Lock, RBAC, MFA.



### Reduced Costs and Improved Efficiency:

Storware Backup and Recovery can help organizations reduce the costs associated with data protection by optimizing backup jobs, reducing storage costs, and automating recovery processes.



### Simplified Compliance with Regulations:

Storware Backup and Recovery can help organizations meet compliance requirements by providing detailed audit trails and reporting capabilities.



### Meet Disaster Recovery Requirements:

Storware Backup and Recovery can be used to create disaster recovery plans for OpenShift environments. This ensures that organizations can quickly recover from outages or disasters.

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## Key features of Storware Backup and Recovery for Red Hat OpenShift include:



### Backup and Recovery Made Simple:

Effortlessly schedule point-in-time backups and automate full and incremental backups with our user-friendly interface. Our policies allow you to customize backup strategies, and selective restoration options enable you to restore VMs and applications to the same cluster, OpenShift instance running anywhere in your environment.



### Disaster Recovery Strategies:

Leverage Storware's recovery capabilities to build robust hybrid or multi-cloud disaster recovery strategies. With Storware recovery plans, you can automatically test your backup periodically to ensure it's recoverable. Protect your critical business data and ensure minimal downtime in the face of any disaster.



### Seamless Migration Across Environments:

Whether you need to move applications and data between non-production to production environments or between OpenShift clusters or clouds, Storware facilitates a seamless migration process. Experience better TCO and tighter control over your data, regardless of your infrastructure's complexity.



### Application Mobility for Efficient Testing:

Unlock the power of application mobility with Storware. Easily build multiple testing environments using Storware backups from a single target location. Validate and develop code confidently and push changes to production with ease, streamlining your development workflow.

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## Product Benefits

- **Certified Solution:** Storware fully integrates with OpenShift using the native Red Hat Operator, ensuring seamless deployment, management, and scalability for containerized and virtual environments.
- **Minimize Downtime:** Rapidly recover from failures and minimize service disruptions, ensuring business continuity.
- **Reduce Risk:** Protect your valuable data from accidental deletion, hardware failures, or cyberattacks.
- **Improve Resource Utilization:** Optimize storage utilization with efficient incremental backups and eliminate time-consuming manual work by automating processes.
- **Simplify Management:** Manage backups effortlessly within your familiar OpenShift environment.
- **Boost Agility:** Scale data protection seamlessly as your containerized environment grows.

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## Storware Backup and Recovery for Red Hat OpenShift Virtualization offers several benefits for businesses:

### Enhanced Data Protection:

- Backs up both virtual machines and containers, including persistent volumes.
- Provides consistent data protection with the ability to recover from a specific point in time.
- Protects data from various threats like hardware failures, human errors, and cyberattacks.

### Improved Business Continuity:

- Enables rapid recovery of virtual machines and containers in case of data loss or system failures.
- Minimizes downtime by streamlining backup and recovery processes.
- Ensures business continuity by protecting critical data and applications.

### Simplified Management:

- Offers a user-friendly interface for managing backup and recovery operations.
- Automates backup and recovery tasks to reduce manual intervention.
- Easily scales to meet the growing needs of your organization.

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## Cost-Effective:

- Automates tasks and simplifies management, leading to lower operational costs.
- Provides a strong return on investment by protecting critical data and minimizing downtime.
- Flexible licensing methods, tailored to the real needs of the organization, with the option to choose a perpetual license or subscription.

By utilizing Storware Backup and Recovery, businesses can safeguard their Red Hat OpenShift Virtualization environments, ensuring data integrity, business continuity, and operational efficiency.

Storware Backup and Recovery offers full or incremental backups, scheduled backups, and data restoration. It features deduplication, compression, encryption, and Role-Based Access Control for enhanced security. With Storware, businesses can optimize backup processes, automate recovery testing, and save resources, time, and money reliably.

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