

# Proxmox VE Backup and Recovery

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Proxmox is an open-source virtualization platform that allows you to create and manage virtual machines (VMs) and containers. It is based on the Debian operating system and uses the KVM and LXC virtualization technologies. Proxmox provides a web-based management interface that makes it easy to create and manage virtual environments. It also has a range of features designed to make it easy to deploy and manage virtualized workloads, including live migration, backup and restore, and resource management.

Storware is a European vendor producer of an enterprise data backup and recovery system characterized by stability and excellent integration possibilities. Storware Backup and Recovery offers several ways to secure your data on Proxmox VE. Disk image transfer (QCOW 2) via SSH protocol. Full and incremental backups are supported, where the latter requires a snapshot of a virtual machine. The second method of data backup is Export Storage Repository, which gives you the opportunity to use external space to store exported data. We only support full backups when using this method.

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# Proxmox VE Backup and Recovery

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## Supported Platforms

### For Virtual Environments

Proxmox +5.2

#### Features

- incremental backup
- file-level restore
- VM disk exclusion
- snapshot management
- quiesced snapshot
- pre/post snapshot command execution
- backup disks sharable over iSCSI
- name-based policy assignment
- available space for snapshot check
- power-on VM after restore

### For Container Environments

Proxmox +5.0

#### Features

- VM disk exclusion
- snapshot management
- pre/post snapshot command execution
- name-based policy assignment
- power-on VM after restore

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## About Storware Backup and Recovery for Proxmox

Storware is a solution that combines the best features appreciated by IT system administrators. We combine our knowledge of systems acquired through years of experience in the industry and minimize the side effects of the weaknesses of given solutions.

As Storware, we support, among others, backup and recovery of data from containers in a continuous mode, incremental backup of volumes based on Ceph RBD. We automatically pause current deployments for a consistent Proxmox backup run. Everything is automated with SLA policies that the IT Administrator will adapt to his environment.

The deployment process is transparent and allows seamless synchronization of environments and a smooth transition to the management and backup process. When meeting the requirements described in the preparation for the launch of Storware, stability allows you to run personally configured data backup policies and version availability.

Storware supports file-level restore using mounted backups, snapshot management, CBT/CFT (faster incremental backups), option to exclude individual VM disks, backup/restore from local filesystem or NFS/CIFS share.

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# Highlights

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**Versatility** – independent data protection solution with no vendor lock-in. A single application that can backup various virtualization and container platforms to various backup providers.



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



**Scalability** – it is ready to grow together with you via multi-node architecture. Scale-out by adding as many nodes as you need, scale-up by assigning more resources to Storware nodes.



**Transparent Licensing and Costs Optimization** – the easiest licensing without hidden costs.



**Easy Configuration** – Configuration Wizard makes the launch and setup of Storware fast and easy. Start to protect your virtual and container environments within minutes.



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



**Easy to Manage** – with an intuitive and modern UI (HTML 5 Web Console), you can quickly set up protection and store backups in several different backup providers. Manage and monitor backup processes from a single pane of glass.



**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.



**Open RESTful API and CLI** – SStorware Backup and Recovery is ready to be part of wider automation or orchestration solutions. All communication between 3rd party systems goes via RESTful API exposed by Storware Server. Tasks are being performed by the Node behind the scenes. End-user is going to use only a 3rd party system to invoke and monitor the status of the tasks.

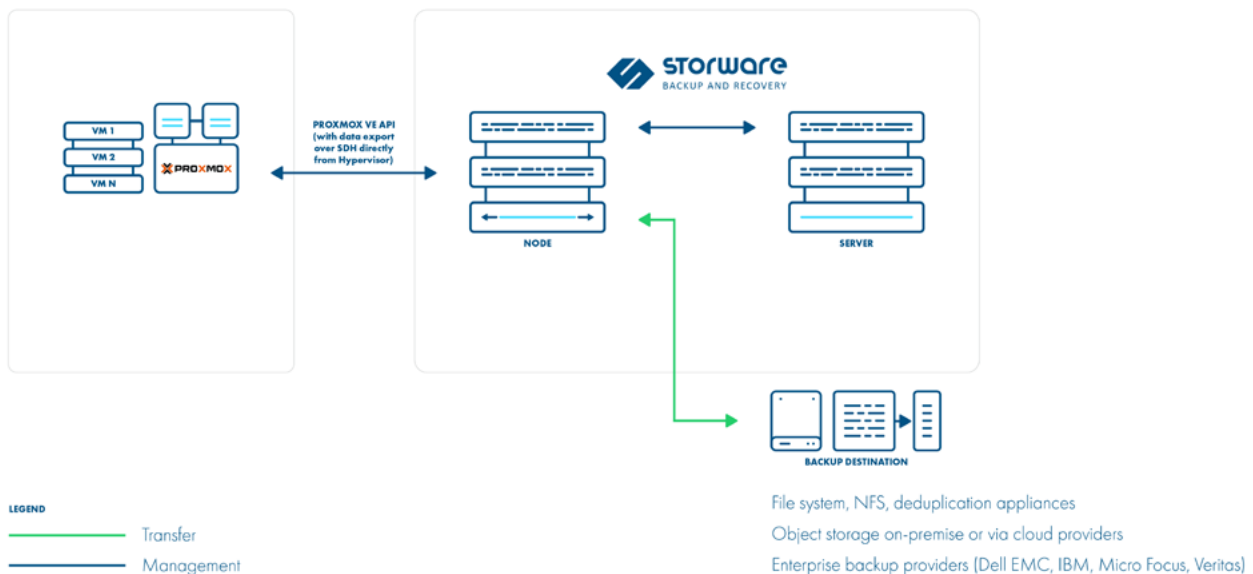
# How it works

## FOR VIRTUAL MACHINES:

Backup is done by transferring QCOW2 disk images over SSH directly from the hypervisor (optionally using Netcat for transfer). Metadata is backed up only in the full backup. This method supports incremental backups where the last snapshot is required for the next incremental backups. The resulting backup has separate files for each disk + metadata, so you have the option to exclude specific drives as well.

### SSH Transfer strategy:

- supports Proxmox 5.0+
- supports only QCOW2 disk images
- supports incremental backups
- supports over iSCSI



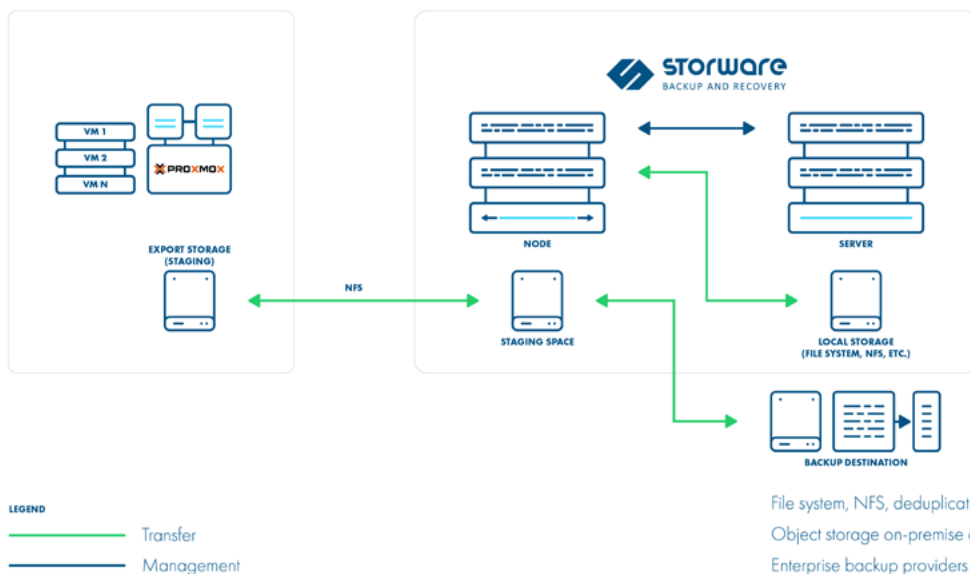
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# How it works

## Export storage repository

The Proxmox virtual environment requires you to create storage used for VM export. Export storage should also be accessible to Storware Backup & Recovery Node in its staging directory. This implies that storage space doesn't have to be exported by Storware Backup & Recovery Node - it can be mounted from an external source. The only requirement is to have it visible from both Proxmox VE hosts and the Node itself. Keep in mind that ownership of the files on the share should allow both Storware Backup & Recovery and Proxmox VE to read and write files.



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# How it works

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## FOR CONTAINER ENVIRONMENTS

Proxmox environments require backup storage to be defined on each server. This storage must be a location accessible from Storware Backup & Recovery Node (the simplest setup, when you use only 1 node, is to create NFS share for the staging path on Storware Backup & Recovery Node).

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