VMware Backup and Recovery

VMware is a company that develops virtualization software. It offers top multi-cloud services for any application, enabling seamless digital transformation to businesses.

Storware Backup and Recovery is an agent-less, VMware certified data protection solution, providing backup and recovery for VMware virtual machines and all application data. It smoothly integrates with VMware vCenter Server and VMware vSphere standalone hosts. Storware is a cost-effective and competitive platform for all businesses.

Supported Platforms for VMware Backup

VMware vSphere/ESXi minimum version: 6.x+

Benefits

HTML 5 Web Console – with an intuitive and modern UI, 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.

Easy Configuration – configuration Wizard makes the launch and setup of Storware fast and easy. Start to protect your VMs within minutes!

Transparent Licensing – the easiest licensing without hidden costs: per VM, per Host, per TB, and 24/7 support team at your disposal.

Set and Forget Automation – automate VM protection with custom or predefined backup policies. Test backup automatically to ensure recoverability – use Disaster Recovery Plans to verify that your backed-up VM is bootable and was not damaged before the backup was performed.

VMware Backup and Recovery

Features for NBD & HotAdd Backup Strategies

- incremental backup with CBT option
- file-level restore
- VM disk exclusion
- snapshot management
- pre/post snapshot command execution
- backup disks sharable over iSCSI
- name-based policy assignment
- tag-based policy assignment
- power-on VM after restore

Competitive Advantage

No hidden requirements for additional licensing for operating systems for Storware Server and Storware Node components (we support installation on the RedHat operating system and free CentOS), and a wide range of supported backup repositories

It is up to the client where he wants to store his backup. In addition, the customer in our software can decide for himself whether he wants to have a backup only locally and/or in a DR center, or store another copy of his data in the cloud. It can do it all from a single management interface. Fast, easy and fun.

We have fully available RestAPI, thanks to which customers can connect our software to their security solutions, e.g. SIEM systems and have in one place the correlation of all events and violations of security procedures.

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VMware Backup and Recovery

API

Storware provides a modern backup and recovery system for a virtualized environment based on Vmware. Our solution is agentless and requires no additional software installation to ensure communication between Vmware and Storware. We use the API provided by the manufacturer.

Thanks to this approach, Storware works very close to the entire virtualization layer, which makes us very fast and efficient. We provide full and incremental backups. Thanks to the Storware – vCenter API communication, we provide convenient and efficient support for Vmware environments operating in clusters.

Freedom of choice

The most important feature for customers is that choosing our solution is not limited to a given type of virtualization.

If in the future it decides that it will obtain the necessary functionalities in another system, there is a high probability that the backup of the new environment will be possible with Storware, which will save time and money needed to implement and learn a new solution. And if he decides to migrate his e-mail and group work to the Microsoft 365 cloud environment, he can also secure them thanks to our product.

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Independence

Storware is a storage vendor independent solution. It can be a standard or synthetic file system, CIFS, NFS, CephFS, GlusterFS, HPE StorOnce, we also support: software and hardware deduplicators, incl. Dell DataDomain, ExaGrid, Quantum DXi, storing backups in cloud environments compatible with, among others with S3, Azure, Ceph, GCS, IBM cloud, storage of backups in arrays/object-oriented environments, incl. OpenStack, Scality, Cloudian, as well as enterprise vendors such as: Dell, MicroFocus, IBM, Veritas, Catalogic DPX.

Securing the configuration of the Storware environment is in fact one backup of the database from the Storware server, the rest of the components are stateless, which means that their loss does not affect the loss of secured data by the customer.

Installation

We deliver our software in the form of a ready OVA image to be run in the client's environment, or an installation script: All-in-one, which performs the installation of the new environment automatically without any user intervention.

Installing from an OVA image is very simple – it only requires the user to be familiar with the Vmware environment. The administration of the Storware product is carried out via a web browser, in a convenient, clear and fast interface.

Thanks to the stateless machines of the Storware Node component and a very simple recovery in the event of a Storware server failure, we are not afraid of data loss and longer downtime of the entire environment.

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VMware Backup and Recovery

Backup Efficiency

We ensure an efficient backup environment for Vmware virtual machines with consistent backups. By using the Storware functionality dedicated to application backup, we can separately protect the data of the software running inside virtual machines. Thanks to the use of the Vmware – Change Block Tracking (CBT) mechanism, we make full and incremental backups.

We support many implementation and configuration methods, for example data transfer between Vmware and Storware hosts can be done in two ways:

- **Hot-Add** – where the Storware Node component is installed on the virtualizer as a separate virtual machine, acting as an intermediary (proxy). This reduces the need for LAN performance between the host and the backup repository.
- **NBD** – Network Block Device – this is a method used by Storware when we cannot or do not want to use the Hot-Add option. By using it, Storware uses the mapping of block devices through the LAN.

Why to choose Storware?

For a Polish client, it may be important that we are a 100% Polish company, the software is developed in 2 centers in Poland.

For the rest of the world, the information that Support is provided by the same engineers who participate in the implementation process, maintenance of environments at customers, without contacting the 1st, 2nd, 3rd support line.

We listen to our clients and try to keep our finger on the pulse of the newly created mechanisms and technologies of data storage. If necessary, we are able to add support for such solutions in a relatively short time.

How it works

Storware Backup & Recovery supports agent-less data protection for VMware vSphere and ESXi environments. Both full and incremental backups are supported.

Backup process

Full Backup

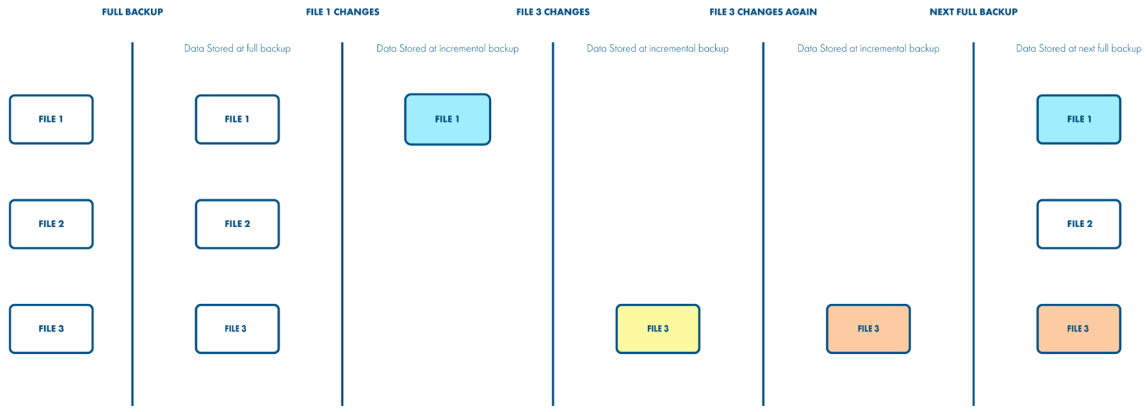
A full backup contains entire virtual machine data (and metadata) each time the backup action is executed. It is available for every guest operating system supported by VMware. At the same time, it is the most time- and resource-consuming type of backup.

Incremental Backup

Incremental backups consume less space and fewer resources than full backups because they include only the pieces of data that have changed since the last backup.

Important

A very important thing to note here is the usage of Change Block Tracking technology, which dramatically increases performance and reduces backup time as it sends only those pieces of information that have changed at the block level.



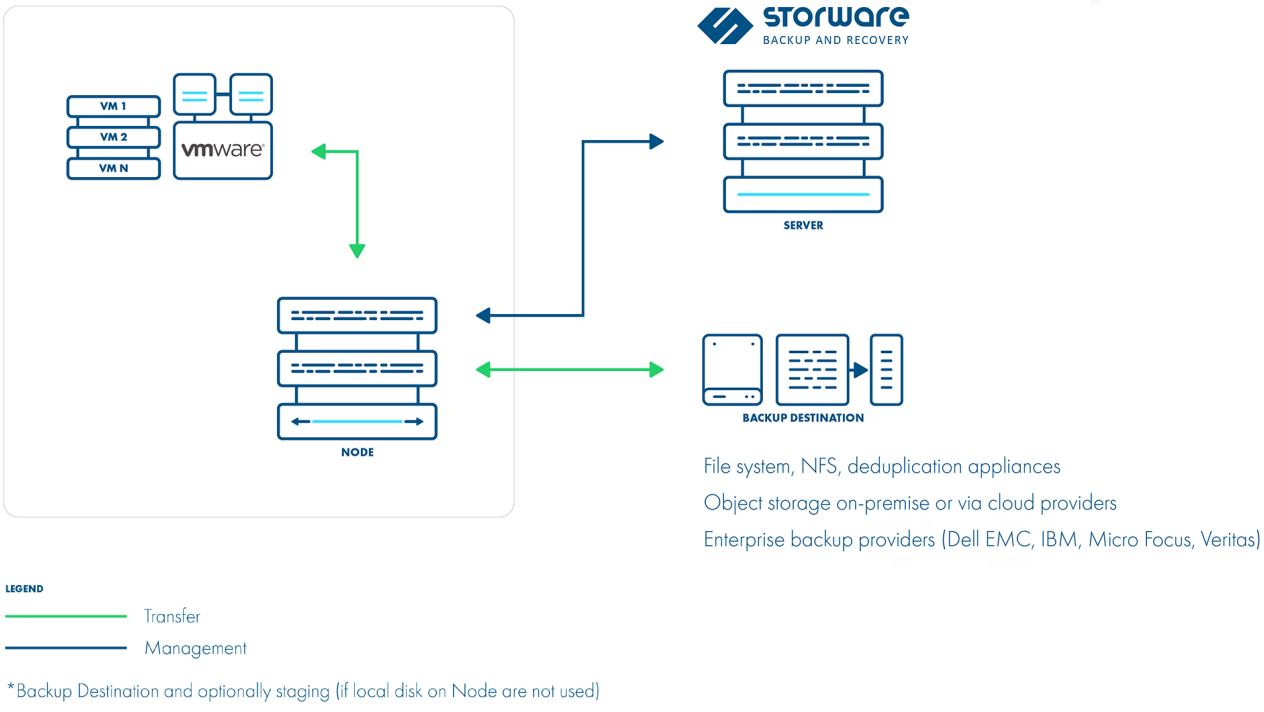
Full Backup process

How it works

There are two transport modes supported by Storware Backup & Recovery. Transport modes are detected and selected automatically depending on the deployment configuration:

Hot-Add

This is the default transport mode if you choose to deploy a Proxy VM (Storware Backup & Recovery Node in a VM) inside your VMware cluster.



*Backup Destination and optionally staging (if local disk on Node are not used)

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How it works

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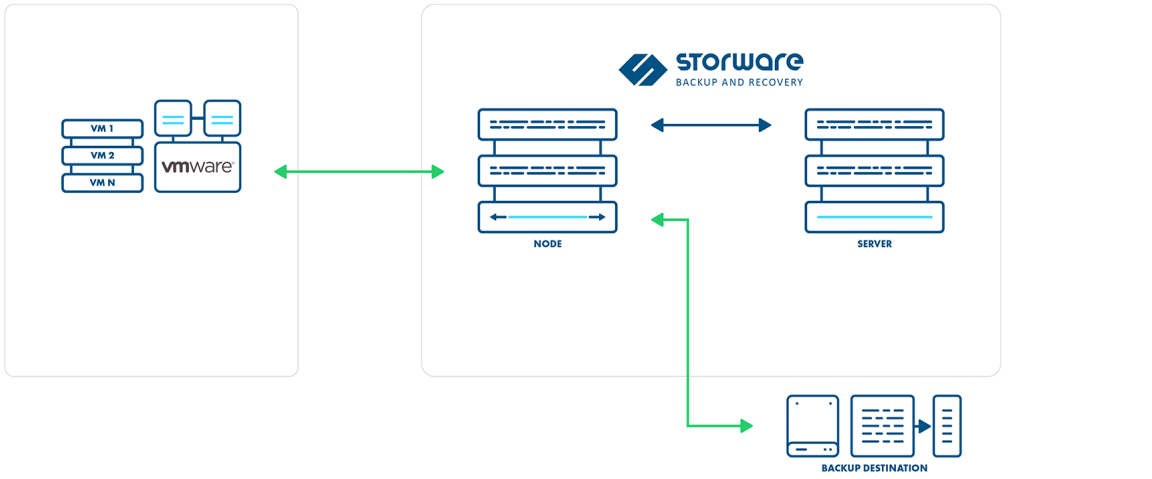
Network Block Device (NBD)

This transport mode is used when Hot-Add is not available for some reason (i.e. you decided to deploy the Node outside of the VMware environment).



File system, NFS, deduplication appliances
Object storage on-premise or via cloud providers

LEGEND

Transfer

Management

*Backup Destination and optionally staging (if local disk on Node are not used)

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