

One Software for Data Storage,
Backup & Disaster Recovery
Open-E JovianDSS



On- & Off-Site Data Protection in Open-E JovianDSS



What is it & how can you benefit?

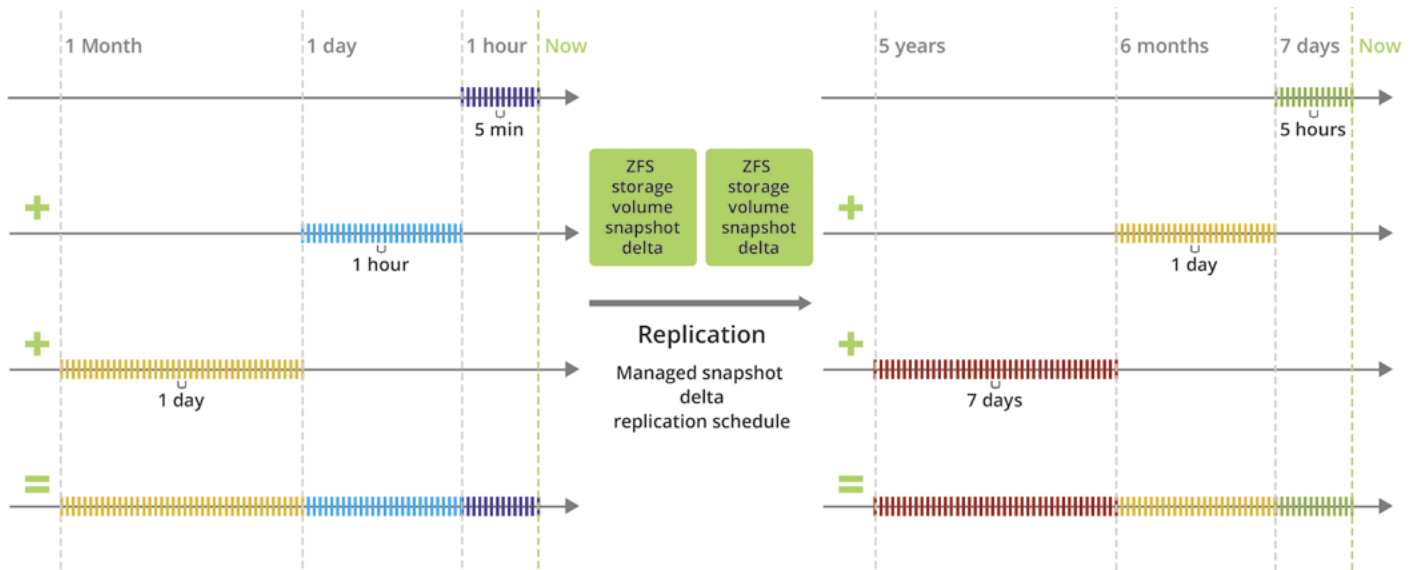
On- & Off-site Data Protection is a solution that prevents data loss and corruption threats thanks to:

- » Easy-to-use, efficient backups of mission-critical data
- » Scalability and ability to store backups on separate servers on- and off-site to ensure maximum data security
- » Instant disaster recovery with unparalleled flexibility – data can be restored from minutes to years in the past
- » Provides data security and ensures Business Continuity in combination with a High Availability Cluster
- » No additional third party backup software necessary

How does it work?

On both local and off-site locations there are independent snapshot retention policies for:

- » Creating new snapshots as often as 1 minute
- » Keeping snapshots even for years without running out of space



One software and native backup

Built-in Enterprise-grade Backup and Disaster Recovery.

Backup of everything

All running virtual machines with applications and data even database backups are consistent.

Solved problem of backup window

Backup window reduced to minutes, only data changes are replicated every interval.

Protection against Ransomware

Very frequent snapshots with instant access to all data provide a quick way to roll-back to the state before a virus attack.

Instant access to and restore of previous data versions

Old images and data versions can be accessed / restored quickly. Via SMB every user has direct access to „Previous Versions“ without administrator help.

Optional removal and rotation of backup media

Thanks to Export/Import users can safely remove the backup media (disks) and rotate with other sets, or ship to another location.

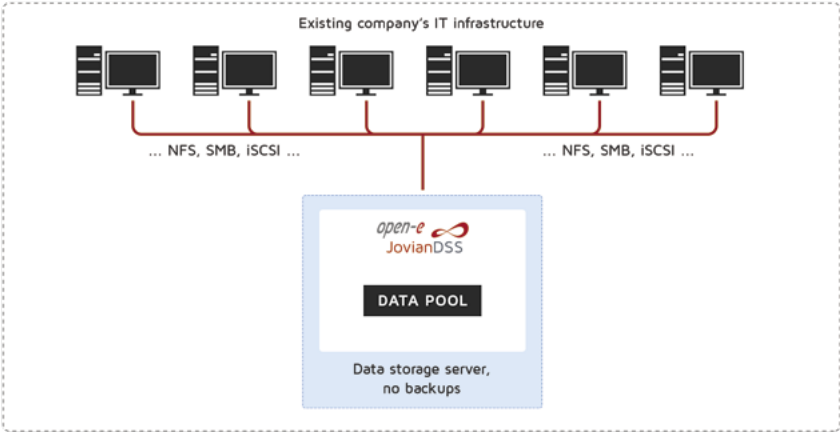
With On- & Off-site Data Protection both RPO and RTO can be counted in minutes

These parameters are among the best in the industry!

Choose your individual security level

The greater the importance of data in a company, the greater the required protection. With Open-E JovianDSS you are able to decide how much protection you need: from a simple Open-E JovianDSS production server to a combination of a production server with various backup options.

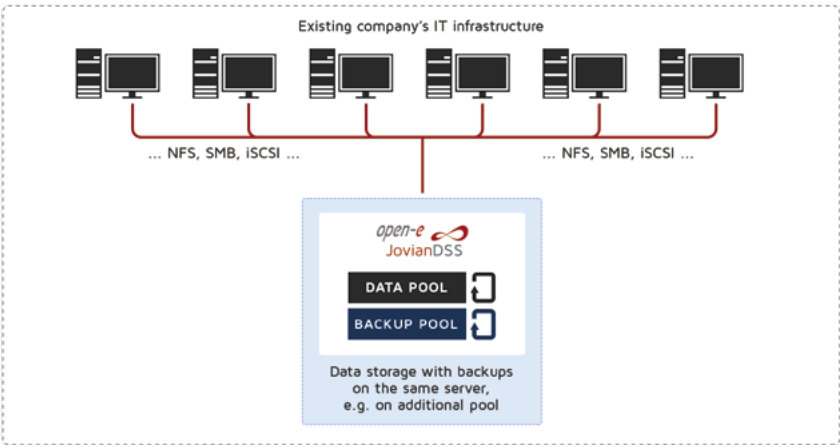
On-site Data Protection - LEVEL 1



| Risks | Counter measure | Restore time |
|------------------|-----------------|--------------|
| Virus attack | Snapshots | Instant |
| Data corruption | Self-healing | Instant |
| Disk failure | RAID | Instant |
| Rebuild failure | None | None |
| System failure | None | None |
| Natural disaster | None | None |
| Theft | None | None |
| Human error | None | None |
| Downtime | None | None |

» Open-E JovianDSS production server

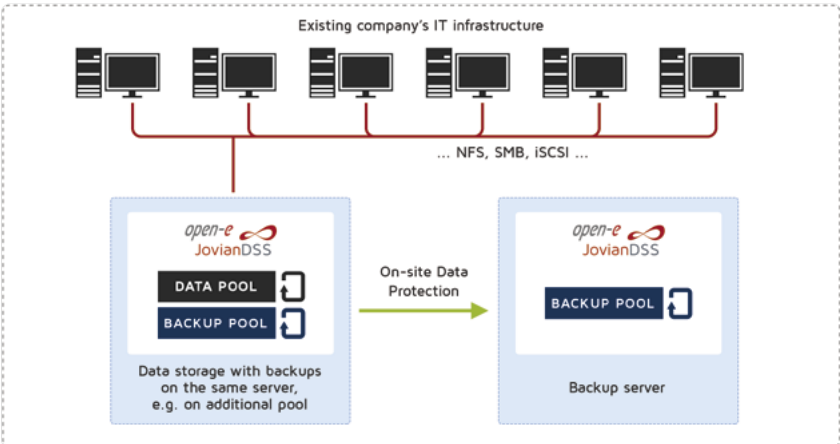
On-site Data Protection - LEVEL 2



| Risks | Counter measure | Restore time |
|------------------|-----------------|--------------|
| Virus attack | Snapshots | Instant |
| Data corruption | Self-healing | Instant |
| Disk failure | RAID | Instant |
| Rebuild failure | Second RAID | Instant |
| System failure | None | None |
| Natural disaster | None | None |
| Theft | None | None |
| Human error | None | None |
| Downtime | None | None |

» Open-E JovianDSS production server
» Backup on local pool

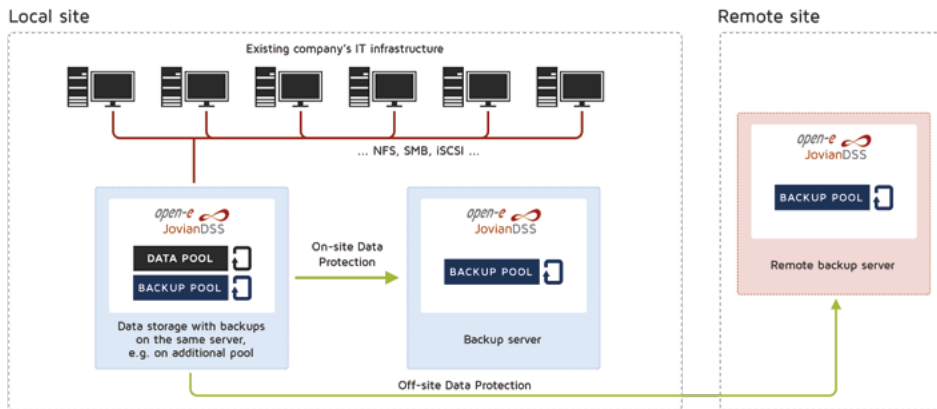
On-site Data Protection - LEVEL 3



| Risks | Counter measure | Restore time |
|------------------|-----------------|--------------|
| Virus attack | Snapshots | Instant |
| Data corruption | Self-healing | Instant |
| Disk failure | RAID | Instant |
| Rebuild failure | Second RAID | Instant |
| System failure | Backup server | Instant |
| Natural disaster | None | None |
| Theft | None | None |
| Human error | None | None |
| Downtime | None | None |

» Open-E JovianDSS production server
» Backup on local pool
» Backup on system in same location

On-site & Off-site Data Protection



| Risks | Counter measure | Restore time |
|------------------|-----------------|--------------|
| Virus attack | Snapshots | Instant |
| Data corruption | Self-healing | Instant |
| Disk failure | RAID | Instant |
| Rebuild failure | Second RAID | Instant |
| System failure | Backup server | Instant |
| Natural disaster | Remote server | Instant |
| Theft | Remote server | Instant |
| Human error | Remote server | Instant |
| Downtime | None | None |

- » Open-E JovianDSS production server
- » Backup on local pool
- » Backup on system in same location
- » Backup on remote site

On- & Off-Site Data Protection + High Availability Cluster = Maximum Data Security

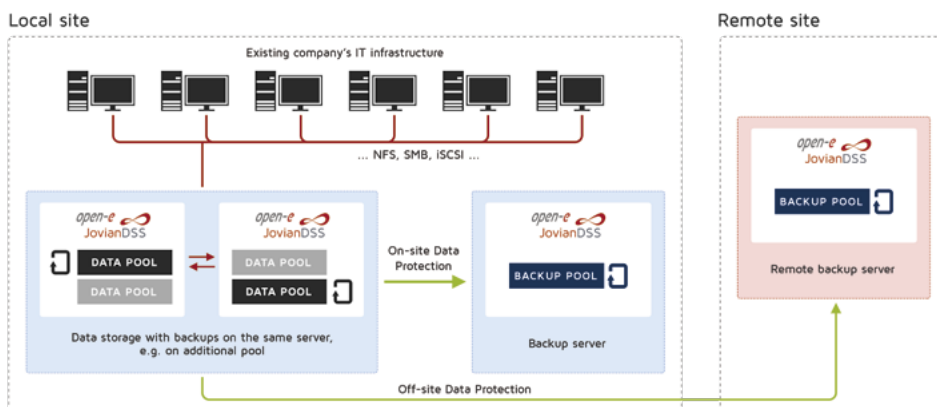
On- & Off-Site Data Protection

- » Protects data by constantly backing it up and storing copies both locally and remotely
- » Allows restoring data to a previous saved point in case of hardware failure or data corruption

High Availability Cluster

- » Ensures business continuity by providing uninterrupted access to data even during hardware failures
- » Maximizes utilization of hardware and network resources

On-site & Off-site Data Protection with HA



| Risks | Counter measure | Restore time |
|------------------|-------------------|--------------|
| Virus attack | Snapshots | Instant |
| Data corruption | Self-healing | Instant |
| Disk failure | RAID | Instant |
| Rebuild failure | Second RAID | Instant |
| System failure | Backup server | Instant |
| Natural disaster | Remote server | Instant |
| Theft | Remote server | Instant |
| Human error | Remote server | Instant |
| Downtime | High Availability | Instant |

- » High-Availability Open-E JovianDSS production server
- » Backup on local pool
- » Backup on system in same location
- » Backup on remote site