Our mission & community
#backupmonster

Eager to protect the data
Who we are?

Founders

Paweł Mączka
CTO, VP

Jan Sobieszczański
CEO

Marcin Kubacki
Chief Software Architect
Operating principles

International Channel

Products distributed in Europe, North & South America, Asia & Gulf Region, South Africa and Asia for over 70 business partners.
Operating principles

Growing Markets

Addressing the growing segment of open **hypervisors** (KVM-based, Xen-based), **containers** (Kubernetes, OpenShift) & **clouds** (AWS).
Certified by top vendors
IBM, Red Hat, Oracle, Nutanix, Citrix Dell EMC and Veritas use our solutions to widen their own portfolio.
Virtualization market and beyond

1. VMware

2. HYPER-V

3. RED HAT/oVirt
Red Hat is recognized as an industry leader and open source champion. Hailed as the most successful open source company.

4. ORACLE VM
Chosen for Oracle DB partitioning and optimization of costs.

5. CITRIX
Owns the world's most-used cloud vendor software (Amazon, Softlayer, Rackspace, 1and1, QTS, OVH).

Gartner's Magic Quadrant
x86-based server virtualisation has changed

Adjacent markets now exist across the App Dev / Infra & Ops divide as well as across on- and off-prem. This requires sufficient understanding of public cloud, hosting, private cloud and on-prem virtualisation.

Storware vProtect is ... 

... made to backup & recovery virtual machines, containers & clouds running on various platforms and protecting data at wide range of destinations.
Main features

Mostly valued by our customers...

VM-level, Container-level, agentless full and incremental consistent backup.

Independent backup server or proxy for legacy backup systems.

Snapshot Management/Copy Data Management.

Disaster recovery based on IBM Spectrum Protect, Dell-EMC Networker, Veritas Netbackup, Amazon S3, Google Cloud Storage, Microsoft Azure, OpenStack Swift or any mounted file-system (especially supporting deduplication).

Application backup – generic backup process for any application, or set of files.

Open RESTful API and CLI for 3rd party integration.
High-level architecture

- File system (local, iSCSI, NFS, SMB)
- Data Domain Boost Filesystem (BoostFS)
- ExaGrid, Neverfail HybridStor, Catalogic DPX...
- Virtual Data Optimizer (VDO), GlusterFS, CephFS

Hypervisor configuration
Databases
Application data and configuration

* BETA | ** available in Q4 2019
Scalability

Multi-node architecture

Scale as you grow

- **scale-out** by adding as many nodes as you need
- **scale-up** by assigning more resources to vProtect nodes
Detailed architecture

- open RESTful API
- vProtect is ready to be part of wider automation or orchestration solutions
Key aspects of a good backup solution to consider?

01. Single platform able to backup multiple virtualization platforms to multiple backup providers.

02. Consistent licensing per Host or per VM.

03. Combines several areas in one tool (VMs, container, application protection, snapshot management).

04. Open (API) to any integration with 3rd party products.

05. Flexibility to be modified for specific customer’s requirements. / Simple to deploy and use.

06. Native integration with selected enterprise backup vendors (IBM, Dell EMC and Veritas).
oVirt backup best practices – #1

Single pane of glass

- Centralized backup configuration, its logic and execution for all VMs or apps regardless of the hypervisor or backup provider.
- Clean dashboard with most important status indicators.
- Daily e-mail reports with backup summary.
- Fine-tuning parameters to optimize the backup process RTO & RPO.
- One tool for:
  - multiple hypervisors
  - multiple schedules
  - multiple backup destinations
  - combined protection for VMs and containers
  - snapshots management
  - any application backup
It’s all about simplicity…
oVirt backup best practices – #2
Agent-less VM-level protection

Use **API v3.x/v4.x**
provided by
**oVirt** community
Backup consistency

Base protection
• crash-consistent backup

Quiesced snapshot – requires hypervisor specific tools
• RHV/oVirt – file-system freeze

Application-consistent backups
• pre/post remote command execution on the VM before and after snapshot is taken
ovirt backup best practices – #3
Tags + Regex to simplify assign to the backup policies

Use tags & regular expressions to get the things done without interrupting backup team.
oVirt backup best practices – #4

3-2-1 Backup Rule

- Keep at least **three** copies of your data
- Store **two** backup copies on different devices or storage media
- Keep at least **one** backup copy offsite

- prepare for ransomware
- peace of mind (good sleeping ☺)

Create 3 copies of your data (1 primary and 2 backups)

Store your copies in at least 2 types of storage media

Store 1 of these copies offsite
Integration with IBM Spectrum Protect

- agentless protection for VM’s
- vProtect proxy is one node on ISP server - each protected VM is in a separate file space
- can be installed on a physical box or VM
- all of tasks are managed by vProtect
Integration with Dell EMC Data Domain

- Certified Data Domain® DD Boost File System Plug-In (BoostFS).
- DD Boost File System Plug-In (BoostFS) resides on the vProtect, presenting a standard file system mount point to the application (NFS Share from DD).
- vProtect writes directly to Data Domain (staging + backup destination).

https://community.emc.com/docs/DOC-55465
Hybrid protection

2nd tier of data can be stored in a cloud object storage

Supported Cloud Providers

- Amazon S3
- Azure BLOB Storage
- OpenStack Swift
- Google Cloud Storage
vProtect – Modernized Data Protection for VM, Containers & Cloud

- open Rest API
- Command Line Interface
- vProtect can be fully managed via API or CLI
- vProtect is ready to be part of a wider automation or orchestration solutions
Licensing model

✓ Per Host (1 license = 2 sockets)
✓ Per VM
✓ Integration Module for Enterprise Backup Providers

Estimate number of protected host

Will you use integration module?

Yes

Add the cost of the integration module.

No

Skip this step if you keep your data in the local storage/cloud.

Choose demand support\* level.

Contact:
sales@storware.eu

*Support levels

Standard: 8 h response time, 8 h/5 working days per week
Premium: 4 h response time, 24 h/5 working days per week
Titanium: 4 h response time, 24 h/7 working days per week

Annual maintenance renewal costs equal to 25% of the product price.
Play for free forever or get a 30 day trial

https://licenses.storware.eu
It’s all about a community

Open Virtualization Pro

Professional Community

Open Source Replication Module for oVirt

The #backuppermonday show

FRIDAY DOSE

BARE MACHINE

IBM Spectrum Protect

LinkedIn IBM Spectrum Protect User Group
Find us on Social Media

https://www.linkedin.com/company/storware/

https://www.facebook.com/storware/

https://www.youtube.com/channel/UCKvLitYPyAplBctXibFWrkw
More information – official documentation

https://storware.gitbook.io/storware-vprotect/

Introduction

MODERNIZED DATA PROTECTION FOR OPEN VIRTUAL MACHINES
Example customers (>500)
WHY NOT TRY SOMETHING BLUE?
Ready to see live demo?
Simplified Data Protection

Storware provides highly efficient data protection solutions for all businesses.