SEP sesam
Backup & Disaster Recovery Capabilities for the Red Hat Ecosystem

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#RedHatOSD
SEP
WORLDWIDE

25+ Years of experience
1000+ New installations per year
50+ Countries use SEP sesam

#RedHatOSD
SEP sesam: Backup of Systems no one else can

- **Software ‘Made in Germany’**
  - GDPR ready and BSI conform

- **Gartner: Best Backup Software worldwide**

- **Certified SAP Backup**
  - HANA, B1, ASE and NetWeaver

- **Top Competence**
  - Support in Germany

- **Support of the RedHat Portfolio**
  - Classic file backups as well as backup and protection of all VMs in Red Hat® Virtualization environments

- **Famous References worldwide**
SEP’s Mission

We believe in what people make possible. Data is their foundation and future. Without Data, they are lost. Our mission is to protect what they have achieved.

Red Hat Statement

“As a long-time partner, we were very happy to attend the event. The combination of Red Hat as a basis for SAP installations that are perfectly backed up by SEP and the long-time experience in Linux and open source environments are decisive for steady growth and successful cooperation.”

Hubert Schweinesbein, Manager EMEA Partner Enablement Team, Red Hat [12/09/2017 at SEP SNAP Partner Days, Holzkirchen, Germany]
Red Hat Partnership

- Long and active partnership since 2005
- Support of current version RHEL7
- Disaster Recovery supported
- Backup possible for RHEL on Intel and IBM Power
- Common development of a backup API for RHV
- 2015: Common announcement of the worldwide first agent for online backup of RHV
- SEP Partner Status

#RedHatOSD
International Partners

- RedHatOSD
- SAP
- Micro Focus
- IBM
- SUSE
- Nutanix
- Fujitsu
- Hewlett Packard Enterprise
- redhat
Customer References

- Government of Canada
- DER SPIEGEL
- Deutsche Telekom
- PISD
- National Iranian Oil Company
- axians
- ALDI
- PORT of San Diego
- SEP

#RedHatOSD
SEP was named one of the 2018 Gartner Peer Insights Customers’ Choice for Data Center Backup and Recovery Software


SEP is 1 of only 7 vendors worldwide of the 2018 Gartner Peer Insights Customers’ Choice for Data Center Backup and Recovery Software
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#RedHatOSD
Awards

- PUR-S 2018-Award from techconsult
- Readers' Choice Storage Insider Award 2018 for SEP
- Silver Softshell Vendor Award
The SEP Architecture

- **Small**
  - Source Side Deduplication
- **Medium**
  - RDS
  - Replication
- **Large**
  - RDS
  - Migration
- **Branch Offices**
  - RDS
- **Data Center**
  - OS
  - DB
  - App
  - Hypervisor
  - Backup Server
  - Self Service Restore
  - Master GUI
  - Dashboard
- **Data Center 2**
  - RDS
- **Cloud**
  - S3 Replication
  - MSP

- **Backup Server**
  - RDS

- **Replication**
  - RDS
  - S3
  - Cloud Replication

- **Self Service Restore**
  - RDS

- **Branch Offices**
  - RDS

- **Medium RDS Replication**

- **Large Migration**

- **Source Side Deduplication**

- **Cloud S3 Replication**

- **MSP**

- **Dashboard**

- **Master GUI**

- **Self Service Restore**

- **Backup Server**

- **RDS**

- **File System**

- **Replication**

- **Red Hat OS**

- **RDS**

- **MSP**

- **Source Side Deduplication**

- **Large Migration**

- **Backup Server**

- **Self Service Restore**

- **Master GUI**

- **Cloud S3 Replication**

- **MSP**

- **Dashboard**

- **Replication**

- **Source Side Deduplication**
SEP – SAP – Red Hat

Physical SAP Installations
- Support of SAP on RHEL
- Certified SAP backup with online SEP agents for NetWeaver and HANA on Linux Intel or IBM Power
- Disaster Recovery of the system

Virtual SAP Installations
- **NEW since Feb 2018!**
  SAP HANA released for RHV
- SEP agent for snapshot backup on RHV
- Disaster Recovery of the VM
Protected Solutions and Environments:

Protected solutions and environments:

- Red Hat® Enterprise Linux®
- Red Hat® Virtualization (including SAP HANA on Red Hat Virtualization)
- Red Hat® Storage
- Red Hat Certified Cloud and Service Provider Program (CCSP)

Supported architectures:

- i386
- x86-64
- IBM Power Systems & OpenPOWER
- IBM zSystems & IBM LinuxONE
Protected Databases running on Red Hat®

Protected databases running on Red Hat® Enterprise Linux® & Red Hat® Virtualization:

- PostgreSQL
- Enterprise DB
- MariaDB
- MySQL
- Oracle
- SAP ASE
- SAP HANA
- MaxDB
- Informix
- IBM DB 2
Protected Applications running on Red Hat®:

Protected applications running on Red Hat® Enterprise Linux® & Red Hat® Virtualization:

- SAP S/4 HANA
- SAP Netweaver
- IBM Domino Server
- Zarafa
- Kopano
- Atlassian Jira
SEP for Red Hat

Intel
- RHEL7 and RHEL6 with SEP sesam Grolar
- Older versions with older SEP agents

Agents
- HANA, NetWeaver, MaxDB, ASE
- Oracle, Domino, DB2, Informix
- MySQL/MariaDB, PostgreSQL/EDB

IBM Architecture
- RHEL6 (big endian) and RHEL7 (little endian) on Power Systems
- SAP HANA certified on Power
- RHEL7 on IBM zSystems (LinuxONE)

Components
- Backup Server
- Remote Device Server
- GUI
- Client

Virtualisation
- RHEV
- VMware
- Single File Restore (incl. ACLs) and Instant Recovery of RHEL VMs

Disaster Recovery
- RHEL7 and RHEL6
- On Intel and Power

Red Hat‘s / SEP‘s focus on SAP
- SAP S/4 HANA on RHEL and/or RHEV

#RedHatOSD
Red Hat Solutions with SEP

Red Hat Storage
- GLUSTER Storage and CEPH Storage
- Standard interfaces e.g. block device, nfs, iSCSI, S3

RHEL
- RHEL7/RHEL6
- Physical and virtual
- Intel and Power
- CentOS 7
- Backup Server, Remote Device Server, GUI or Client
- Disaster Recovery
  - RHEL7 and RHEL6
  - On Intel and Power

Ansible
- SEP download server enables remote package download and provides updates and patches
- Scripting of SEP Backup Server or SEP Client installation possible

RHV
- API-based snapshot backup of VMs
- RHV >= V3.6
- LAN-based or LAN-free
- Exclude virtual disks

SAP Focus
- SAP S/4 HANA on RHEL and/or RHEV
- RHV certified for SAP HANA
- SEP certified for SAP HANA (Intel and Power)

#RedHatOSD
RED HAT Virtualization

Backup
- Single Nodes or RHV Cluster
- Via ovirt API
- Complete VMs, single virtual disks or backup of the config data of a VM possible
- Groups of VMs can run on several hosts by means of the RHV Manager Resource
- Currently only COPY backups possible -> Recommendation: Si3 for data reduction
- Needs a proxy VM as DataMover (similar to VMware HotAdd)
- Via LAN or LAN-free
- RHV 4 supported
- Requires at least RHEL V7 for the DataMover

Restore
- On the original VM or in another location even on other RHV system
- With same or other name
- Path restore of a VM directly into the file system possible
Collogia AG is an independent IT systems and consulting company with its headquarters in Cologne. For over thirty years, we have been successfully implementing IT projects in an industry-neutral manner with a view to the benefits for our customers.

“SEP sesam is the best for SAP backup and recovery.“
Sabrina Dobrick, SAP Senior Consultant at Collogia
Case Study: University of Applied Arts Vienna
The University of Applied Arts Vienna takes on the challenge of positively influencing art, research and society. It continuously shapes and directs the present toward the future.

“SEP sesam was the best product on the market to replace our script-based backup landscape being able to cover snapshot backups of RHV VMs at an optimal price point.”
Christopher Vlasic, Head of IT at University of Applied Arts Vienna

- 24 TB Frontend Data
- 4x MS SQL
- 8x PostgreSQL
- 39x MySQL
Case Study: University of Applied Arts Vienna

- What experience did the customer have with data backup, archiving and recovery?
  - Backup via rsync/BackupPC/OpenSource Software/Scripting with comparatively less functionality before using SEP

- Why did the customer look for a new backup solution?
  - Must Have: Backup software that can back up and restore VMs from our RHV, which also meets price/performance requirements

- For which emergency situations is SEP's data backup solution intended?
  - Bare metal recovery (disaster) of all RHV VMs, regardless of location, as well as restore of physical machines

- How did the client come across SEP sesam?
  - Linux RHV Consultant Linforge
Case Study: University of Applied Arts Vienna

- Why did the customer choose SEP sesam?
  - Best price/performance ratio, full RHV integration guaranteed

- Short chronology of the project
  - Mid 2016 the SEP first installation was carried out (backup for the time being on file level)
  - Mid 2017 installation of the Si3 Dedupstore (second physical SEP sesam server).
  - Mid 2017 SEP RHV integration with the prerequisite to upgrade our RHV cluster to version 4.0. Mid 2017 RDS implementation. Long-term storage (migration of the savesets) on the third SEP Sesam server (RDS/not deduplicated)
Webinars

- Joint EMEA webinar for SAP (recorded)
- Joint webinar for SAP in German language – 13th of December 2018
- Joint webinar in APAC (planned together with Red Hat)
Documents

- Alignment Paper Red Hat / SEP „Notes“ - ongoing
- Solution Brief – Red Hat Document for RHV with SEP sesam
- Whitepaper, Factsheet, …
- -> https://www.sep.de/solutions/redhat/
GRAZIE PER L’ATTENZIONE

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