Why Open Source?
Open Source Relevancy and Value
### Community Involvement

<table>
<thead>
<tr>
<th>OpenMainframeProject</th>
<th>OpenStack</th>
<th>KVM</th>
<th>GNOME</th>
<th>openHPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mozilla Foundation</td>
<td>YaST</td>
<td>openSUSE</td>
<td>nvmExpress</td>
<td>Spacewalk</td>
</tr>
<tr>
<td>Kubernetes</td>
<td>Open Invention Network</td>
<td>The Linux Foundation</td>
<td>Ceph</td>
<td>Cloud Native Computing Foundation</td>
</tr>
<tr>
<td>OPNFV</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Why SUSE?
Our Vision for You

An always open enterprise that empowers your possibilities.
Our Mission

To provide and support enterprise-grade Linux and open source solutions with exceptional service, value and flexibility.
Our Strategy

With partners and communities, we innovate, adapt and deliver secure open source technologies to create solutions for mixed enterprise IT environments.
SUSE Timeline

1992 to 2000
The Pioneering Years

1992
S.u.S.E. founded (German acronym for “Software und System-Entwicklung). SLS is released, it's the first comprehensive Linux distribution.

1994
S.u.S.E Linux 1.0 ships on floppies.

1996
S.u.S.E Linux 4.2 is the first true SUSE distribution.

1997-1998
SUSE becomes Europe’s leading Linux distribution.
SUSE enters North America market.

1999
IBM, SAP and Oracle partnerships announced.
SUSE Linux Enterprise Server released.
SUSE enters Asia Pacific market.

2000
SUSE Linux Enterprise Server released.
SUSE Linux Enterprise Server for IBM s/390.
SUSE helps AMD port Linux to x86-64 architecture.
2001 to 2009
Building a Strong Ecosystem

2001
SUSE Linux Enterprise Server for x86 released.

2002-2003
Intel, AMD, HP, Fujitsu and other major partnerships announced.

2004
openSUSE Launched.

2006
Microsoft and SUSE announce interoperability agreement.
SUSE offers first Enterprise virtualization technology integration for Linux (Xen).

2009
SUSE Linux Enterprise Server 11 released with KVM.
SUSE Studio launched.
# 2010 to Present

## Enabling an Always Open Data Center

### 2010
- VMware partnership announced.
- SUSE Linux Enterprise available on Amazon EC2.

### 2011
- SUSE Manager released.
- SUSE OpenStack Cloud launched.
- SUSE Linux Enterprise Server for SAP Applications released.
- SUSE selected for use with SAP HANA.

### 2012
- SUSE Linux Enterprise available on Microsoft Azure.
- SUSECON launched in North America.

### 2014
- SUSE joins Micro Focus.
- SUSE Linux Enterprise 12 released.

### 2015
- SUSE Enterprise Storage based on Ceph launched.
- SUSE joins Cloud Foundry.

### 2016
- SUSE CEO joins Micro Focus board.
- SUSE acquires openATTIC Storage Management assets.

### 2017
- SUSE acquires OpenStack IaaS and Cloud Foundry PaaS talent and technology assets from HPE.
- SUSE celebrates its 25th anniversary.
What Do We Mean by Always Open?

It’s not just WHAT we do. It’s HOW we do it.

• True to open source vision
• Zero lock-in for customers
• Open to partnering
Leading Technology Innovation

SUSE was the first to:

- Develop enterprise Linux on SAP HANA, AWS and Azure public cloud
- Lead development of the commercial Linux market by delivering the first commercially supported Linux distribution
- Allow instant rollback of operating system changes
- Pioneer continuous availability through live patching for mission-critical systems, including SAP HANA environments
- Deliver a Linux high availability solution that supports geographic mirroring with a broad set of redundancy configurations
- Champion for simplified single system Linux configuration and management
- Deliver the first commercially supported OpenStack distribution
- Bring an innovative approach to simplify the deployment of configurable infrastructure (OBS)
- Give consistent support on multiple system architectures by using a common code base
- Provide efficient multiple systems software and asset management built on leading open source technology such as Salt
- Facilitate DevOps adoption through inclusion of Docker technology in SUSE Linux Enterprise Server
- Create the Portus project to simplify and secure management of Docker registries
SUSE at a Glance

1st Enterprise Open Stack Distribution

25+ Years of Linux Engineering Experience

2/3+ of the Fortune Global 100 use SUSE Linux Enterprise

20000+ Certified Systems

7000+ Certified Applications

5000+ Global Partners

150+ Support Engineers

18% Revenue Growth
SUSE and EQT

Developing Companies Across the Globe

• EQT invests into successful, midmarket businesses around the globe with a mission to help them develop into great and sustainable companies.
• During EQT’s ownership, number of employees increased on average by 10%, sales by 10% and EBITDA by 11% each year.
• Will support the SUSE build and buy strategy with funding and industrial expertise.

What EQT is Saying About SUSE

“We were impressed by SUSE’s strong performance over the last years as well as by its strong culture and heritage as a pioneer in the open source space. These characteristics correspond well to EQT’s DNA of supporting and building strong and resilient companies, and driving growth.” — Johannes Reichel, Partner at EQT

www.eqtpartners.com
SUSE
Announcements
The iRODS Consortium

SUSE provides and supports enterprise-grade Linux and open source solutions with exceptional service, value and flexibility. With partners and communities, we innovate, adapt and deliver secure Linux, cloud infrastructure and storage software to create solutions for mixed enterprise IT environments. We help customers harness the benefits and power of an open enterprise that can empower their possibilities.

For more information, visit www.suse.com
SUSE
Enterprise Storage 6
Consolidate

No migrations

Flexible solution

SUSE Enterprise Storage
The Data Explosion Continues

175 ZB by 2025
Open Source at the Heart of Our SDI and Application Delivery Approach

Infrastructure & Lifecycle Management
- Uyuni / Spacewalk
- SALT
- Monasca

Application Delivery
- Container Management: kubernetes, Cloud Native Computing Foundation
- Platform as a Service: Cloud Foundry

Software-Defined Infrastructure
- Private Cloud / IaaS: openstack
- Compute: KVM, Xen
- Storage: ceph
- Networking: DPDK, Open vSwitch
- Multimodal Operating System: Linux, The Linux Foundation

Physical Infrastructure: OpenPOWER
Open Source at the Heart of Our SDI and Application Delivery Approach

Application Delivery

Container Management
- Kubernetes
- Cloud Native Computing Foundation
- Kubic

Platform as a Service
- Cloud Foundry

Software-Defined Infrastructure

Private Cloud / IaaS
- OpenStack

Compute
- KVM
- Xen
- Open Initiative

Storage
- Ceph
- OpenATTIC

Networking
- OpenFlow
- DPDK
- OFS

Multimodal Operating System
- Linux
- The Linux Foundation
- opensuse

Physical Infrastructure:
- OpenPOWER
- Open Mainframe

Public Cloud
- Alibaba Cloud
- Amazon Web Services
- Google
- IBM
- Microsoft Azure

Infrastructure & Lifecycle Management
- Open Build Service
- Uyuni / Spacewalk
- SALT
- Monasca
5 Questions

You should ask yourself

1. How long before my next storage migration project?

2. How much do I currently pay per TB (per year)?

3. How big is my entire storage estate?

4. What is the open source strategy in my organization?

5. How many different solutions are serving storage?
SUSE Enterprise Storage
SUSE Enterprise Storage

https://github.com/ceph

- 90,050 commits
- 40 branches
- 262 releases
- 688 contributors
SUSE Enterprise Storage

Using Industry Standard Servers and Disk Drives

- Latest hardware
- Storage migrations
- Reduce OpEx
- Hardware flexibility
- Reduce CapEx
Enterprise Data Capacity Utilization

Tier 0
Ultra High Performance

Tier 1
High-value, OLTP, Revenue Generating

Tier 2
Backup/Recovery, Reference Data, Bulk Data

Tier 3
Object, Archive, Compliance Archive, Long-term Retention

1 → 3%

15 → 20%

~ 80% your data
Enterprise Data Capacity Utilization

Tier 0
Ultra High Performance

Tier 1
High-value, OLTP, Revenue Generating

Tier 2
Backup/Recovery, Reference Data, Bulk Data

Tier 3
Object, Archive, Compliance Archive, Long-term Retention

~ 80% your data
Use Cases for Software Defined Storage
Use Case Focused Solutions

Partnership Ecosystem

**Classic Workloads**
- Backup to Disk Solution
  - Commvault
  - Veritas
  - Veeam
  - Supermicro
  - Micro Focus Data Protector
  - Sep
  - Bareos

**Certified Reference Architectures**
- Certified Reference Architectures
  - Lenovo
  - DELL
  - Supermicro
  - Hewlett Packard Enterprise

**Flexible Configs**
- Data Management
  - iRODS
  - Komprise
- Appliance
- Public Cloud
  - Azure

**Cloud Native Workloads**
- Cloud & App Delivery
  - SUSE OpenStack Cloud
  - Container as a Service
- Analytics
  - Data Lake
- Custom Apps
  - SUSE Enterprise Storage

*: Coming Soon
Backup architecture

Current Solution?

- Application Servers
- Backup Server (running Backup ISV)
- Disk Arrays or Deduplication Devices
  - Dedupe Appliances such as Dell EMC Data Domain or
  - Disk Libraries such as NetApp E-Series
- Tape Libraries
- Offsite Retention:
  - Tape Stored offsite or Public Cloud
- Public Cloud
Backup architecture

SUSE Solution for Disk-based Backup

- SUSE Enterprise Storage will replace Disk Arrays or Dedupe Appliances in customer’s disk-based backup environments
- Customers will be able to keep more storage online, hence SUSE Enterprise Storage augments the tape library in their solution
- Some customers may choose to remove tape all together
Backup to Disk with SUSE Enterprise Storage

TCO Case Study – IT Brand Pulse selected SUSE as the big winner!
https://goo.gl/HbBdMt
SUSE Enterprise Storage 6
Launched June 2019

**Built On**
- Ceph Nautilus release
- SUSE Linux Enterprise Server 15 SP1

**Manageability**
- Ceph-Mgr dashboard (oA replacement)
- Ceph-Mgr dashboard localized
- Ceph-Mgr dashboard SSO (SAMLv2)
- Automatic metric reporting phase 1
- CephFS directory quotas

**Interoperability**
- IPv6
- RDMA back-end (tech preview)

**Availability**
- Sync to external cloud via S3
- CephFS snapshots
- Asynchronous file replication (tech preview)

**Efficiency**
- QoS for RBD
- Background operation QoS
## SUSE and Service Packs

27-6-2019

<table>
<thead>
<tr>
<th>SLES</th>
<th>Release</th>
<th>Kernel</th>
<th>SUSE Enterprise Storage</th>
<th>Ceph</th>
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</table>

SUSE Enterprise Storage

Consulting

SUSE TestDrive: Enterprise Storage
Proof-of-concept evaluating software-defined storage customers’ fit for use.

SUSE Start: Enterprise Storage
Quickly realize the value of customer's investment in SUSE Enterprise Storage.

SUSE Implement: Enterprise Storage
Turn-key, full-scale deployment tailored to customers’ requirements.
Ceph 101
Storage Node

x86_64
ARM
Storage Node

x86_64  ARM

Disk  Disk  Disk  Disk

Physical disk or other persistent storage
Storage Node

BlueStore

Physical disk or other persistent storage
Storage Node

BlueStore

Physical disk or other persistent storage

x86_64
ARM

SSD or NVMe

Disk Disk Disk Disk

BS BS BS BS
Storage Node

Object Storage Daemon
BlueStore
Physical disk or other persistent storage

x86_64
ARM

SSD or NVMe

Disk
Disk
Disk
Disk

OSD
OSD
OSD
OSD

BS
BS
BS
BS
Monitor Node

Brains of the cluster
Cluster membership: up, down, in, out
Distributed decision making
Not in the performance path
Do not serve stored object to clients
RADOS Cluster

Reliable Autonomous Distributed Object Store
RADOS Cluster

Reliable Autonomous Distributed Object Store
RADOS Cluster

Reliable Autonomous Distributed Object Store
RADOS Cluster

Reliable Autonomous Distributed Object Store
SUSE Enterprise Storage
What’s the difference with core Ceph?
SUSE Enterprise Storage 6

Ceph Nautilus
SUSE Enterprise Storage 6

- DIY librados
- S3
- Swift
- NFS v3, v4
- CephFS
- CIFS
- RBD
- iSCSI

Object | File | Block

Ceph Nautilus
SUSE Enterprise Storage 6

- DIY librados
- S3
- Swift
- NFS v3, v4
- CephFS
- CIFS
- RBD
- iSCSI

- Object
- File
- Block

Ceph Nautilus
Replication options

**Replicated Pool**
- Data
- Data’
- Data”

Full copies
Very high durability
3x overhead (200%)
Quicker recovery

**Erasure Coded Pool**

- Data
- Parity

1 2 3 4 5
1 2

One copy plus parity
Cost-effective durability
1.4x overhead (40%)
Expensive recovery
# Pools

## Replicated Pool

<table>
<thead>
<tr>
<th>Data</th>
<th>Data'</th>
<th>Data”</th>
</tr>
</thead>
</table>

## Erasure Coded Pool

<table>
<thead>
<tr>
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<th>Par</th>
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</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td></td>
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</table>

![Diagram of OSDs](image-url)
Pools - SLA

Replicated Pool
- Gold
- Bronze
- Silver

Erasure Coded Pool
- Data
- Data'
- Data''

SLA

OSD	OSD	OSD	OSD	OSD	OSD	OSD	OSD
OSD	OSD	OSD	OSD	OSD	OSD	OSD	OSD
OSD	OSD	OSD	OSD	OSD	OSD	OSD	OSD
Pools - SLA

1. Replicated Pool
   - Data
   - Data'
   - Data"

2. Erasure Coded Pool
   - Data
   - Par
   - 1 2 3 4 5

3. Erasure Coded Pool
   - Data
   - Par
   - 1 2 3

SLA

A

Gold
Bronze
Silver
Pools - SLA

A
Gold

B
Bronze

SLA

Replicated Pool
Data
Data'
Data"

Erasure Coded Pool
Data
Par

Erasure Coded Pool
Data
Par
## Pools - SLA

### Gold Pool
- SLA: 8 7 6 5 4 3 2 1

### Bronze Pool
- SLA: 3 2 1

### Silver Pool
- SLA: 4 3 2 1

### Replicated Pool
- Data: 1 2 3 4 5 1 2
- Data': 1 2 3 4 5 1 2
- Data'': 1 2 3 4 5 1 2

### Erasure Coded Pool
- Data: 1 2 3 4 5 1 2
- Par: 1 2 3 4 5 1 2

### Erasure Coded Pool
- Data: 1 2 3 4 5 1 2
- Par: 1 2 3 4 5 1 2
Pools – Failure Domain

- **Gold Pool**: SLA 8, 7, 6, 5, 4, 3, 2, 1
- **Bronze Pool**: SLA 3, 2, 1
- **Silver Pool**: SLA 4, 3, 2, 1

**Replicated Pool**
- Data
- Data’
- Data”

**Erasure Coded Pool**
- Data
- Par

**Gold Pool**
- SLA 8, 7, 6, 5, 4, 3, 2, 1

**Bronze Pool**
- SLA 3, 2, 1

**Silver Pool**
- SLA 4, 3, 2, 1

---

**SLA**
- A
- B
- C
- D
Pools – Failure Domain

Replicated Pool

<table>
<thead>
<tr>
<th>Data</th>
<th>Data'</th>
<th>Data”</th>
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<tbody>
<tr>
<td>8</td>
<td>7</td>
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<td>5</td>
<td>4</td>
<td>3</td>
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Erasure Coded Pool

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td>3</td>
<td>4</td>
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<tr>
<td>5</td>
<td>1</td>
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<tr>
<td>2</td>
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SLA

<table>
<thead>
<tr>
<th>Gold</th>
<th>Bronze</th>
<th>Silver</th>
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<tbody>
<tr>
<td>8</td>
<td>7, 6</td>
<td>5, 4, 3, 2, 1</td>
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<table>
<thead>
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<th>4</th>
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<tr>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
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</table>
Pools – Failure Domain

Replicated Pool
- Data
- Data'
- Data"

Erasure Coded Pool
- Data
- Par

Erasure Coded Pool
- Data
- Par

SLA

Gold
- 8 7 6 5 4 3 2 1

Bronze
- 3 2 1

Silver
- 4 3 2 1

A

D

B

C

Gold

Bronze

Silver

SLA

1 1 1
- 3

1 2 2
- 3 1

2 2 7
- 3 3

2 2 7
- 3

2 2 7
- 3

2 2 2
- 3

3 2 2
- 3

3 2 2
- 3

3 2 2
- 3

3 5 2
- 3

4 5 2
- 4

4 5 2
- 4

4 6 8
- 4

1 6 8
- 4

1 6 8
- 4

1 1 3
- 4

1 1 3
- 2

1 1 3
- 1

1 1 3
- 1

1 1 3
- 1

1 1 3
- 1
Cache pool

- **Gold**
- **Bronze**
- **Silver**
- **Fast**

**Replicated Pool**
- Data
- Data’
- Data”

**Erasure Coded Pool**
- Data
- Par
- 1 2 3 4 5 1 2

**Replicated Pool with SSD**
- Data
- Data’
- Data”

**SLA**
What Makes SUSE Enterprise Storage **UNIQUE** ?!

**OpenATTIC**
- GUI based configuration and management
- Graphical performance and capacity metrics
- Ability to drill down to per node performance

**DeepSea**
- Collection of SALT files for deploying SUSE Enterprise Storage
- 10 node or 10000 node fixed number of steps to deploy
- Deployment of Prometheus, Grafana and openATTIC
SUSE Enterprise Storage 6

SUSE openATTIC Advanced Graphical Interface
Deploy with DeepSea

# deepsea stage run ceph.stage.prep
# deepsea stage run ceph.stage.discovery

Edit proposal configuration file

# deepsea stage run ceph.stage.configure
# deepsea stage run ceph.stage.deploy
# deepsea stage run ceph.stage.service
SUSE

We Adapt. You Succeed.
Public tender?
Open, Flexible, Scalable Storage Solution
Fit for purpose

- TCO
- € / TB / Year
- HA vs DR
- Copies vs Erasure Coding
- Disk size
- Server type
- Spare capacity
- Future expansion

| Config 1: Erasure Coding k=3, m=3 |
| OSD node | OSD-12 |
| OSD disk (one) | 12TB HDD |

| Config 2: Erasure Coding k=7, m=5 |
| OSD node | OSD-12 |
| OSD disk (one) | 12TB HDD |

| Config 3: Erasure Coding k=7, m=5 |
| OSD node | OSD-28 |
| OSD disk (one) | 12TB HDD |
Training

✓ On the job
✓ Classroom
✓ Online
✓ Read The Fine Manual
Support

24x7 SUSE Priority Support
Cluster scenario’s
2 datacenter setup
Erasure Coding k=2 m=4

200% overhead
2 datacenter setup
Erasure Coding k=2 m=4

200% overhead
2 datacenter setup
Erasure Coding k=3 m=5

DC 1
GW 1
Mon 1
OSD 1
OSD 3
OSD 5
OSD 7

DC 2
GW 2
Mon 2
OSD 2
OSD 4
OSD 6
OSD 8

167% overhead

Clients

Admin
Mon 3

Mon 2
OSD 2
OSD 4
OSD 6
OSD 8

Mon 1
OSD 1
OSD 3
OSD 5
OSD 7

Mon 3

Clients

GW 1

GW 2

OSD 1

OSD 3

OSD 5

OSD 7

OSD 2

OSD 4

OSD 6

OSD 8

k
m
k
m
m
k
m
m
m

167% overhead
2 datacenter setup
Erasure Coding k=3 m=5

167% overhead
2 datacenter setup
Erasure Coding k=5 m=7

140% overhead
2 datacenter setup
Erasure Coding k=5 m=7

140% overhead
3 datacenter setup
Erasure Coding k=3 m=3

100% overhead
3 datacenter setup
Erasure Coding k=3 m=3

100% overhead
3 datacenter setup
Erasure Coding $k=3$ $m=6$

200% overhead
3 datacenter setup
Erasure Coding $k=3$ $m=6$

200% overhead
3 datacenter setup
Erasure Coding k=5 m=7

140% overhead
3 datacenter setup
Erasure Coding k=5 m=7

140% overhead
3 datacenter setup
Erasure Coding k=7 m=5

71% overhead
3 datacenter setup
Erasure Coding \( k=7 \) \( m=5 \)

71% overhead
calling_all_geekos

Subscribe to our Meetup group to stay in the know about our technical events:
- SUSE Enterprise Linux
- Ceph | Software Defined Storage
- OpenStack | Cloud
- Kubernetes | Containers
- Cloud Foundry
- Meet like-minded people and other SUSE fans

Join if you are a SUSE fan or interested in SUSE and its solutions or if you just want to learn more about Open Source in general.
Thank You
Customer references

www.suse.com/success
Phact is a one-stop shop for software and hardware solutions, support and consultancy in the Netherlands

“SUSE Enterprise Storage offered the total package. While other solutions lacked the full range of functionality we were after or locked us into using proprietary hardware, with SUSE we didn’t have to compromise—we got an open, feature-rich solution, with the bonus of full enterprise support.”

MARC HERRUER
Founder and CEO
Phact

HKU is a liberal-arts university in the Netherlands offering preparatory courses, bachelor and master programs and research degrees in fine art, design, media, games, music, theatre and arts management.

“In our experience, SUSE Enterprise Storage offers much lower TCO. Not only have we cut administration time and effort, but also the solution enables us to practically eliminate downtime.”

EMILE BIJK
Head of Network and Information Systems
Hogeschool voor de Kunsten Utrecht (HKU)

IRIS provides solutions and services that guide companies through their digital transformation, with an extended portfolio covering Enterprise Information Management, Hybrid Cloud, Consulting Services and Business Process Outsourcing.

“We value SUSE technology for its stability, flexibility, manageability, openness and long-term support, and we find our corporate mind set is closely aligned with SUSE’s, which is great news for our joint clients.”

GEERT REYNAERTS
Delivery Director Hybrid Cloud Solutions & Services
IRIS

BACKUP slides
Compliant Archives

Definition and Drivers

Storage of Critical Data in a Secure Manner that Guarantees Data Integrity and Authenticity

Drivers

Sources

- GDPR
- Sarbanes Oxley
- California Privacy Rights
- HIPAA Compliance
- Internal Compliance
- Emails, Voice Recordings
- Business Apps
- File Systems
- Records
Compliant Archive Solution

Partnership with iTernity

iTernity iCAS is a middleware that protects application data on SUSE Enterprise Storage

iCAS is certified to meet the legal requirements of healthcare and financial industries*

Use Cases:
• Email & File Archiving
• Banking Transaction Data
• Voice Recordings
• Patient Data
• X-Rays, Scans and MRIs
• Records Retention
• PII Data

www.iteration.com/software-partner.html
In year 1, the cost of the Dell EMC Centera CAS solution was almost $200,000 and twice the price of the HPE/SUSE/iTernity iCAS solution. At the end of the 5 year period, the TCO of the Centera solution was $350,000 more and over double the cost of the HPE solution.

<table>
<thead>
<tr>
<th></th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
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<td>HPE/SUSE/iTernity iCAS</td>
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SUSE Enterprise Storage for OpenStack Cloud

Ceph is the …

…Most Deployed Block Storage Backend for OpenStack

- Ceph RBD is used in almost Half the Deployments
- 48% Usage in Large Clouds with over 1000 Cores

OpenStack User Survey April 2017*
N=363
HPC Storage Solution
Most Common Use Case as Tier 2 Storage

• **Use Cases:**
  • Primary Storage (Certain Use Cases)
  • Archival Storage
  • Home Directories

• **Certified with HPE Data Management Framework (DMF) and iRODS**
  
  *: Coming Soon
File Sync and Services Solution

- Built on SUSE Enterprise Storage
- Integrates with various portals
- Use Cases (based on portal used):
  - Internal Drop-box Like File Sharing Solution
  - Remote Office Backup
  - Enables Self Service Storage Access

Secure File Sharing

Open Source File Sync and Share

Enterprise File Services

Enterpise File Services

Secure File Sharing

SUSE Sales and Business Partner Use Only

Coming Soon
SUSE Compliant Archive Solution
Partnership with iTernity

• iTernity iCAS is a middleware that protects application data on SUSE Enterprise Storage

• iCAS is certified to meet the legal requirements of healthcare and financial industries*

• Use Cases:
  • Email & File Archiving
  • Banking Transaction Data
  • Voice Recordings
  • Patient Data
  • X-Rays, Scans and MRIs
  • Records Retention
  • PII Data

* www.iternity.com/software-partner.html
iRODS Use Cases: Storage Tiering

Storage Tiering
• Data Migration based on Pre-specified Rules from Primary to Secondary Storage
• SES is the perfect archival storage in this use case

Data Landing Zone
• Fast Tier of Storage for Incoming Stream of Data
• SES for Longer Term Storage
iRODS Use Cases: Data Consolidation

Consolidation
• Single Namespace that Spans Various Storage Technologies

Secure Collaboration
• Multiple Users in various Geos can access data across various tiers based on policies
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