PRODUCT BRIEF

FAST FACTS

Company:
LINBIT

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Company Description

LINBIT enables open source persistent block storage for OpenShift by developing and supporting Linux clustering and Linux storage management software. The heart of LINBIT's open-source technology is DRBD®. DRBD allows block storage between servers to be replicated asynchronously or synchronously without sacrificing performance or reliability. LINBIT has led the way in High Availability since 2001. DRBD has been included in the Linux kernel since version 2.6.33 (2009), has been deployed on all major Linux distributions and is hardware and software agnostic.

For the management of storage volumes of Linux clusters, LINBIT has developed a tool called LINSTOR® – which works with Kubernetes, Proxmox, Opennebula and OpenShift environments. LINSTOR automates deployment of storage volumes, including replicated volumes using DRBD. It is the perfect puzzle piece for higher-level management frameworks. Some examples of this include enterprise virtualization solutions, cloud-management systems, and storage target software.

Product Profile

LINSTOR® (The Linux Storage Manager) uses the PV/PVC model native to OpenShift to attach block storage to containers. Combined with the in-kernel DRBD software, LINSTOR provides replicated persistent storage to Kubernetes and OpenShift environments. Linux server storage is perfect for containerized applications that require persistence and high performance (databases, machine learning, messaging, etc.).

Overview

LINSTOR® is a cluster-aware management plane for Linux block storage, including persistent storage for OpenShift, with the option of being replicated.

Executive Summary

LINBIT® provides an opensource platform that clients can use to deploy and manage persistent OpenShift storage. Because LINBIT software creates, manages, and replicates block storage, it is perfect for running with containerized applications, such as databases, messaging systems, and machine learning applications. Running your cloud on commodity hardware with the native Linux features underneath provides the most flexible, reliable, and cost-effective solution for OpenShift deployments.

Statement from Partner

"As a proud partner of Red Hat, LINBIT's mission is to radically change the way digital businesses design OpenShift storage infrastructures. LINBIT ensures that OpenShift clients can provision persistent storage for applications like databases, machine learning, and messaging on high performance block devices, all using open-source software. LINSTOR provides high performance programmatic provisioning capabilities aligned with modern data center best practices. LINBIT's DRBD provides both the performance and redundancy expected by data center administrators: centrally-managed storage in a converged architecture or a disaggregated (e.g. top-of-rack) storage solution. Red Hat provides the Enterprise-ready OpenShift Orchestrator. Working with Red Hat, our clients get the best open-source private cloud solutions on the market."
– Philipp Reisner, CEO of LINBIT

Statement from Red Hat Connect

"Developers and architects looking to build new applications in, and for the cloud, or migrate existing applications to a cloud-based infrastructure, partner with Red Hat to develop and deliver more supportable solutions sooner." said Mike Werner, Sr. Director, Global Technology Partners, Red Hat. *"Red Hat certification assures a supportable platform for all types of customer deployment models. Red Hat is thrilled to work with software partners like LINBIT resulting in the world's largest open, and commercially supportable application ecosystem."*

Red Hat TECHNOLOGY PARTNER

Red Hat CERTIFIED TECHNOLOGY

LIN:BIT
Keeping the Digital World Running

Product Benefits

LINSTOR® simplified the management of storage volumes through the following benefits:

- **Open-source solution**
- **Scale-out, persistent storage**
- **In-kernel data replication**
- **Ultra-fast performance**
- **Low CPU utilization**
- **Multi-tier storage**
- **Online documentation**
- **Data protection**
- **24/7/365 5-star remote support**
- **Lower TCO than proprietary options**
- **Remote installation option**
- **No vendor lock-in**

Use Cases

LINBIT®
Working Together with Intel®

Intel® Rack Scale Design (Intel® RSD) is an industry-wide architecture for disaggregated, composable infra-structure that fundamentally changes the way a data center is built, managed, and expanded over time.

LINSTOR® is a storage orchestration technology that brings storage from generic Linux servers and SNIA Swordfish-enabled targets to containerized workloads as persistent storage. LINBIT is working with Intel® to develop a Data Management Platform that includes a storage backend based on LINBIT's software. LINBIT adds support for the SNIA Swordfish API and NVMe-oF to LINSTOR.

LINSTOR is a Red Hat certified container and is available for customer download from the Red Hat certified container registry. https://www.linbit.com/en/drbd-community/drbd-download/

For more details on LINSTOR, please visit the following product pages:
https://www.linbit.com/en/linstor/
https://www.linbit.com/en/linbit-sds-container-storage/

Check out our blog for more information:
https://www.linbit.com/en/tech-blog/

Contact us for a 14-day free trial:
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