**Overview**
Create flexible, adaptable servers on the fly with any combination of compute and storage optimized to the demands of your workload.

**Executive Summary**
To eliminate overprovisioning and operational complexity caused by fixed, direct-attached storage servers, DriveScale provides the ability to flexibly create, adapt, deploy and later redeploy servers optimized per workload using pools of disaggregated, heterogeneous compute, storage and network fabric. Customers can create Red Hat Enterprise Linux servers and clusters for easy application deployment with Red Hat OpenShift Container Platform applications. DriveScale provides persistent storage and infrastructure visibility to OpenShift as a fully integrated and automated solution.

**Statement from Partner**
“As more digital and data-driven companies deploy data-intensive applications in containers, they want flexible infrastructure that adapts to the dynamic requirements of the workload. DriveScale’s integration with Red Hat OpenShift Container Platform creates the automated persistent storage and infrastructure visibility to deploy easily and efficiently.” said Denise Shiffman, Chief Product Officer, DriveScale.

“DriveScale is delighted to be a Red Hat certified partner and work seamlessly with Red Hat’s industry leading products.”

**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 DriveScale, resulting in the world’s largest open, and commercially supportable application ecosystem.”

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**Company Description**
DriveScale is a composable server infrastructure for data-intensive applications and Kubernetes. We provide the only scalable, hardware-independent solution that composes flexible, adaptable servers on the fly from pools of low-cost compute nodes, storage systems and network fabric. Called Composable Infrastructure, the DriveScale Composable Platform creates highly available, high-performance servers and logical clusters designed for dynamic, scale-out applications. With DriveScale, you can deploy and redeploy resources in minutes, eliminate overprovisioning and reduce upgrade costs by decoupling compute and storage significantly lowering the cost of your data center infrastructure. With a broad ecosystem of certified alliance partners, DriveScale enables customers to deploy with confidence. DriveScale is a global company with offices across the U.S. and in China, Japan and The Netherlands, and authorized reseller partners worldwide.

**Product Profile**
The DriveScale Composable Platform enables the easy ability to compose server infrastructure and high-scale clusters from user-created templates or the RESTful API. Users can compose and deploy servers on the fly, add compute or drives as the application requires, redeploy compute or storage when a workload completes, and replace failed components instantly via software.

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**FAST FACTS**
- **Company:** DriveScale, Inc.
- **Contact:** info@drivescale.com
- **Website:** www.drivescale.com

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**Product Benefits**

The DriveScale Composable Platform enables high performance, highly available server infrastructure that is easy to deploy and cost-efficient. With support for both the Flexvolume and CSI plugins, DriveScale automatically provides persistent storage to OpenShift. Following are the key functions to the DriveScale Platform:

**DriveScale Composer** is an orchestration application and API that composes, manages and monitors servers and logical cluster infrastructure.

**DriveScale Server Agents** discover and inventory diskless compute systems in the pool and deployed in logical clusters, and execute on commands from Composer.

**DriveScale Adapter Software** discovers and inventories storage and bridges storage protocols to standard Ethernet. It is deployed on third-party SAS or NVMe eBODs (Ethernet Bunch of Drives) or on a DriveScale SAS Adapter that connects to JBODs (Just a Bunch of Drives).

**DriveScale Cloud Central** is a cloud-based administration service that provides a centralized view of a user’s deployments as well as audit logs and software release management.

With the DriveScale Composable Platform, users benefit by the ability to:

- Maximize resource usage by minimizing overprovisioning
- Deploy infrastructure in minutes not months
- Reduce upgrade costs by decoupling compute and storage

**Use Cases**

- **Big Data Analytics**: High scale, high performance composable clusters for dynamic workloads such as Hadoop, NoSQL, massively parallel databases, Elastic Search, Apache Kafka and Spark.
- **Machine Learning**: High scale, high performance composable clusters for TensorFlow, H2O, custom applications.
- **All-Flash Composable Storage**: Easy to configure high performance all-flash storage with the ability to slice SSDs and mount slices to servers.
- **Cold Data and Object Storage**: Composable ratios of compute to storage enabling price to performance optimization for infrequently accessed cold data and massive scale object stores.

DriveScale provides a Red Hat certified container and is available for customer download from the Red Hat certified container registry. https://access.redhat.com/containers/#/vendor/drivescale