Dell Technologies Validated Design: Red Hat OpenShift Container Platform 4.6

Accelerate Digital Transformation with Infrastructure Optimized for DevOps

Organizations are moving towards DevOps and container technologies to accelerate transition to agile cloud-native application delivery and help with their digital transformation. Container technology simplifies, speeds up and orchestrates application development and deployment.

Dell Technologies and Red Hat help take the guesswork and risk out of Red Hat OpenShift Container Platform deployment with a complete infrastructure design. This container environment streamlines application development, deployment and management, allowing you to release new applications and services quickly, efficiently and at scale.

Make the shift to container-based development

Red Hat OpenShift Container Platform enables organizations to adopt agile DevOps practices for building cloud-native containerized application managed with the industry-leading Kubernetes technology. Dell Technologies Validated Design for Red Hat OpenShift Container Platform further simplifies rollout of Kubernetes infrastructure to support your DevOps initiatives.

Working together with Red Hat, Dell Technologies delivers tested, validated and documented design, configuration and deployment guidance to help you rapidly implement Red Hat OpenShift Container Platform on Dell EMC infrastructure.

Proven design and configuration

Dell Technologies Validated Design for Red Hat OpenShift Container Platform (including the latest release for version 4.6) provides guidance that enables you to:

- Build a complete OpenShift Container Platform DevOps environment based on server platforms, storage and networking hardware and software configuration details.
- Separate application (workload) storage from infrastructure storage – using Dell EMC storage technologies for the persistent volumes required by stateful applications in the future.
- Create non-virtualized, on-premise infrastructure for highly available production use.
- Accelerate delivery of both stateless and stateful, cloud-native applications.
- Implement enterprise-grade Kubernetes container orchestration.
Flexible architecture

The Dell Technologies Validated Design for Red Hat OpenShift Container Platform provides flexible container deployment options with detailed guidance. The design utilizes latest-generation PowerEdge platform for compute while providing broad options for storage solution that include Dell EMC PowerMax, PowerStore, PowerScale and Unity XT. For applications that benefit from GPU resources, NVIDIA V100 GPUs are supported as a part of the validated design.

Why choose Dell Technologies Validated Design for Red Hat OpenShift Container Platform?

The Dell Technologies Validated Design for Red Hat OpenShift Container Platform offers several benefits:

- **World-class infrastructure** – The design and configuration guidance specifies industry-leading hardware to optimize the Red Hat OpenShift deployment and associated containerized applications.
- **Confidence** – Dell Technologies facilitates a low-risk, rapid deployment by including a full open-source validation suite in the validated design.
- **Fast time to service** – The tested design and deployment methodology helps your team to deploy the environment and enter production faster. Organizations that use the Dell Technologies automation tools can deploy an OpenShift environment in approximately three hours.
- **Customizable solution** – The design is prescriptive and enables organizations to customize the configuration to address their unique container deployment requirements.

Take the next step

Container technologies can help your organization adopt DevOps practices to support rapidly changing business requirements. Dell Technologies validated design for OpenShift Container Platform 4.6 speeds implementation of a OpenShift-based DevOps container environment that empowers you focus on developing innovative applications to deliver business value. Find more information at the Dell Technologies OpenShift Info Hub.