Reduce the cost and complexity of modern applications with Dell APEX and Red Hat® OpenShift®

Deliver containerized machine learning (ML) workloads at scale with simplified orchestration on-premises using OpenShift deployed on Dell APEX solutions. Build, deploy and run containers with a consistent experience and accelerate development time.

Trusted partners, proven results. Partners for over 25 years, Red Hat and Dell Technologies create jointly engineered and validated open source solutions that help simplify IT.

Dell APEX Compute
Get secure and scalable on-premises bare metal compute resources supporting your choice of operating system or hypervisor for virtualized or container-based environments. Available through a predictable, monthly subscription and can be deployed to your on-premises data center and edge locations, or to your preferred colocation partner.

Dell APEX Data Storage Services
Dell APEX Data Storage Services is an as-a-Service portfolio of scalable and elastic storage resources that enables you to respond to changing business needs, remove complexity and reduce risk. Optimize for simplicity to focus on more value-added activities and increase agility so you can respond dynamically to workload requirements – all while maintaining control of your data.

The benefits of Dell APEX
- Get financial flexibility with transparent costs and predictable monthly subscriptions.
- Improve your security with on-premises control of your environment and data.
- Scale on demand - order only what you need and scale when your business needs it.
- Support your data science team with industry-leading solutions.

Support your data science team with industry-leading solutions
- Easily deploy a Red Hat OpenShift cluster and run ML notebooks with persistent storage for your container volumes.
- Container images are built on the Open Container Initiative industry standard. This standard ensures container portability between developer workstations and Red Hat OpenShift production environments.

Reference architecture for deploying machine learning notebooks using OpenShift running on Dell APEX infrastructure.

JupyterHub: Delivers a pre-configured data science environment. Users have access to computational environments and resources, with their own workspaces on shared resources that can be managed efficiently by system administrators.

Console
Red Hat OpenShift Data Science is an open source ML platform enabling data scientists and developers to rapidly train, deploy and monitor ML workloads and models.

Easily attach high performance storage to your OpenShift cluster by installing the Dell Container Storage Interface Operator (CSI).

Dell APEX Compute
Resources
- TensorFlow
- Core OS
- Jupyter
- Red Hat OpenShift

Dell APEX Data Storage Services
- File or Block

Management with Dell APEX Console
Can be ready in 30 minutes and is enabled out-of-the-box using the default template. Offers a single interface to manage your OpenShift clusters and is easily integrated with your current tools and workflows.

Dell APEX Data Storage Services
- Can be configured to utilize your current storage backend or recommends Dell APEX Data Storage Services.
- Can be configured to utilize your current storage backend or recommends Dell APEX Data Storage Services.

Access the Dell APEX Console

Jupyter
- Provides a single interface for managing your OpenShift clusters.
- Offers a single interface to manage your OpenShift clusters and is easily integrated with your current tools and workflows.

CPU Worker Nodes
Red Hat OpenShift Data Science
- Red Hat OpenShift
- Jupyter
- Dell APEX Compute
- Red Hat Core OS
- Dell CSI Storage Class
- Dell APEX Data Storage Services

Access the Dell APEX Console

Learn more about Dell APEX
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