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A P E X

Dell APEX Cloud Platform for Red Hat OpenShift

Built for your multicloud future

Organizations across industries are finding their competitive advantage lies in their ability to deliver applications that drive revenue, capture cost efficiencies, and improve the user experience. Increasingly, IT teams are turning to containerized multicloud deployments to realize the full potential of their apps and data. Gartner predicts that 95% of global organizations will be running containerized applications in production by 2028.[1]

Increasingly, organizations are running containers in a multicloud environment. Container deployments that span multiple clouds require consistent operational experience, no matter where – and everywhere – workloads are deployed.

Multicloud deployments were recognized as the most popular mode of running containerized applications in organizations with more than 1,000 employees. Kubernetes has emerged as the leading container orchestration, and of the 42% of respondents using a multicloud deployment model, nearly half use Red Hat OpenShift to manage their containerized applications[2]. As organizations adopt Red Hat OpenShift to accelerate modern app delivery, they need an infrastructure platform that delivers consistent automated operational experience while boosting DevOps agility and ensuring simpler security and governance across dispersed deployments.

Dell APEX Cloud Platform for Red Hat OpenShift

Accelerate your container strategy with the first application delivery platform purpose-built for Red Hat OpenShift.

CHOICE
Choose the right location for your workloads, whether it's the data center, a co-location facility or public cloud. Jointly engineered with Red Hat to optimize multicloud OpenShift deployments.

CONSISTENCY
Deliver consistent operational and developer experience while streamlining delivery of OpenShift services across locations. Meet stringent workload SLAs consistently on a high-performance, linearly scalable foundation.
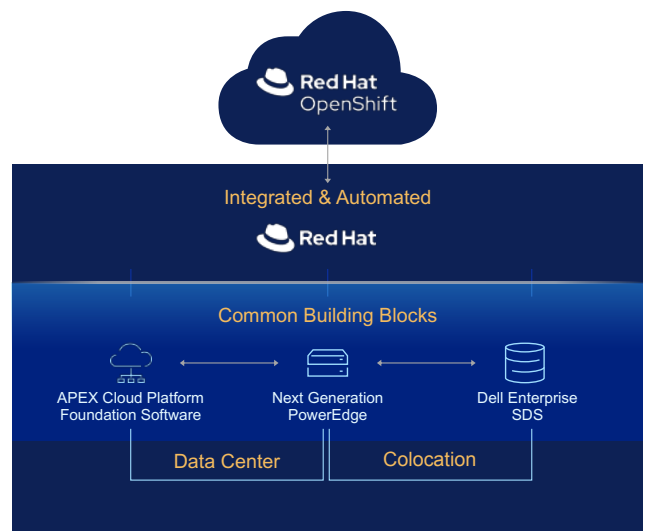
CONTROL
Enforce centralized OpenShift management and governance while optimizing workload placement to meet performance, cost and compliance goals.

Dell APEX Cloud Platform for Red Hat OpenShift

Dell APEX Cloud Platform for Red Hat OpenShift is an on-premises infrastructure jointly engineered with Red Hat to accelerate time to value, simplify management, and ensure a more secure environment for OpenShift deployments. The Dell APEX Cloud Platform integrates the data and app planes, so the solution can be deployed and managed as one unified application delivery platform, simplifying how IT teams manage different layers of the stack while ensuring optimal application outcomes.

This turnkey platform provides:

- Deep integrations and intelligent automation between layers of Dell and OpenShift technology stacks, accelerating time-to-value and eliminating the complexity of management using different tools in disparate portals.
- A bare metal architecture that delivers the performance, security, and linear scalability needed to meet even the most stringent SLAs.
- Intrinsic multi-layer security, rapid availability of patches and updates, and centralized OpenShift governance to help enterprises maintain a strong security posture.

Red Hat OpenShift

Integrated & Automated

Red Hat

Common Building Blocks

APEX Cloud Platform Foundation Software → Next Generation PowerEdge → Dell Enterprise SDS

Data Center | Colocation

SIMPLICITY

Bridge the cloud divide

In a multicloud environment, customers need the performance, reliability and security of on-premises infrastructure without sacrificing the agility and flexibility of public cloud. A "do-it-yourself" approach to deploying and managing Kubernetes on bare metal can be very complex and fraught with risks. With APEX Cloud Platform Foundation Software, wizard-based automation makes it possible to deploy OpenShift over 90% faster[3] compared to a manual approach. It automates many cumbersome lifecycle management tasks, reducing time spent on updates by up to 90%[4], for both Dell infrastructure and OpenShift orchestration, all while reducing human error. Automation also ensures your OpenShift stack remains in a continuously validated or known good state – where all the components of the stack have been validated and checked for compliance. Intelligent automation and orchestration enable IT teams to be more efficient using a cloud-like operating model on-premises. Furthermore, IT teams no longer need to manage different layers of the stack through multiple consoles for containers, compute, and storage. With the new Dell APEX Cloud Platform, infrastructure management is integrated into one unified OpenShift management user interface.

AGILITY

Accelerate application delivery

Long infrastructure lead-times, time-consuming workflows, repeated manual tasks, and architectural incompatibility hinder organizations' ability to accelerate the delivery of value through software and data. The cloud platform accelerates and boosts DevOps productivity and agility with consistent OpenShift experience wherever data and applications reside - across multiple public clouds and on-prem data center locations. For the most demanding workloads, the platform offers scalable, high-performance, highly resilient Dell software-defined storage to optimize workload execution and deliver stringent SLA outcomes. Finally, with node configurations featuring 4th Generation Intel Xeon™ processors with several core densities, memory and storage configs as well as GPU resources, the cloud platform has options to meet the requirements of a broad set of workloads. And while the Dell APEX Cloud Platform is well suited for a range of workloads, it is particularly appealing for modern AI, ML and analytics workloads which tend to be containerized.

CONTROL

Enhance control and governance

With a common storage fabric based on Dell's SDS across on-premises and public cloud locations, the APEX Cloud Platform for Red Hat OpenShift simplifies workload mobility, giving you control over where your applications and data reside. Additionally, the platform mitigates potential security and compliance risks effortlessly by integrating with OpenShift management and governance services. The APEX Cloud Platform for Red Hat OpenShift takes a full-stack approach to security with sophisticated controls and multilayered protection from security threats. Advanced lifecycle-management capabilities help ensure that the full technology stack always remains in compliance and up to date. Furthermore, by delivering developer-friendly app and data services on-premises, application teams can avoid data and application sprawl across insecure or noncompliant locations.

Accelerate OpenShift Adoption

Dell APEX Cloud Platform for Red Hat OpenShift, combined with Dell Services, helps organizations accelerate their adoption of DevOps methodologies and cloud-native application architectures at scale. Dell Services focuses on the people, processes and workload aspects to containerization on multicloud, so developers have the freedom to innovate and scale applications with minimum friction, reducing the operations cost of applications. Benefiting both IT Operations and development organizations, Dell will help you identify, modernize, and migrate the optimum application mix to the new container platform and simultaneously integrate Kubernetes into any DevOps culture. With Dell Managed Services, you can focus more on delivering IT services to your business and your business can focus on delivering innovation and growth. Dell APEX Flex on Demand and Data Center Utility provide elastic capacity for your workloads as they shrink and grow over time. Gain immediate access to buffer capacity should you need it, while only paying for the technology you use. Your payment adjusts up or down to match your actual usage.

Learn more about
Dell APEX Cloud Platform for Red Hat OpenShift ›

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