The Future of Datacenters requires Automatized Modern IT & Edge Architecture

Gaining control of your data with efficient, flexible, and future-ready solutions

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Red Hat D&LLTechnologies



What's top of mind for your CIO is top of mind for us

Customers are prioritizing three strategic initiatives for their storage environments.



Modern DC, Edge and Multicloud

91%

Face challenges building a multicloud strategy to support innovation¹



Artificial Intelligence and Generative Al

75%

say Al/GenAl is a key part of their organization's business strategy²



Cybersecurity and data resilience

89%

say security is a key part of their organization's business strategy²



of organizations say usage/evaluation of multiple hypervisor options is a strategic imperative³

Which requires a strategic partner to move forward





¹ Innovation Catalysts, Dell Technologies, February 2024

² Source: Dell Technologies survey across 750 business and IT decision makers across US, UK, DE, FR and JP, all segments, Feb 2025.

³ Source: Enterprise Strategy Group Complete Survey Results, Navigating the Cloud and Al Revolution: The State of Enterprise Storage and HCI, February 2024.

What we're hearing from customers

Top requests



"I can't easily repurpose *my environment* for new software without buying new hardware."

"My staff doesn't have the **skill set** yet to transition software provides without impacting operations."



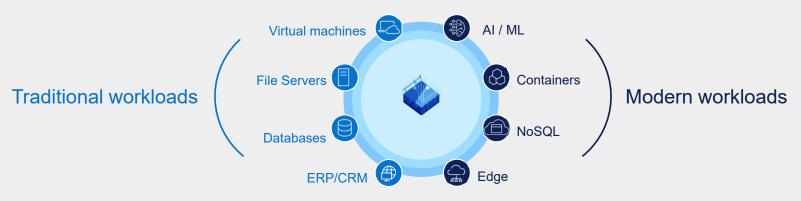
"Working with multiple vendors for my hardware is way too complex, and we never know who to call for what support issues"

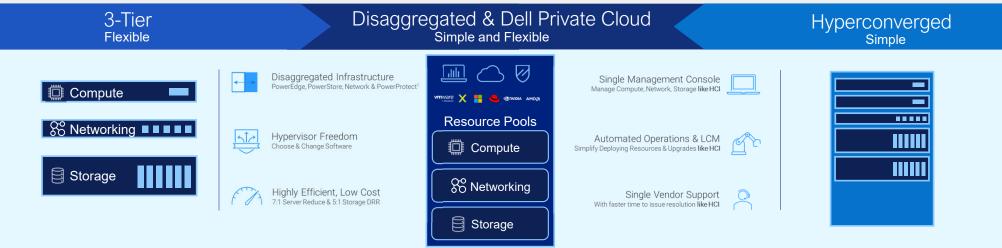
"We need a way to be cost efficient while still preparing for the future."





Take a disaggregated approach to support evolving workload mix



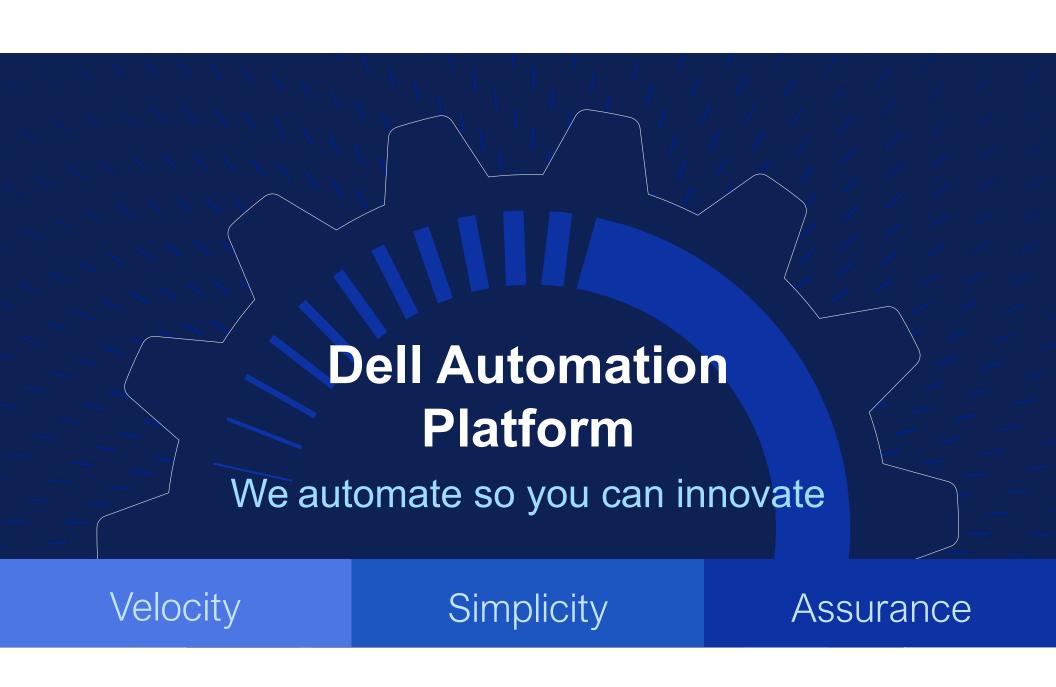


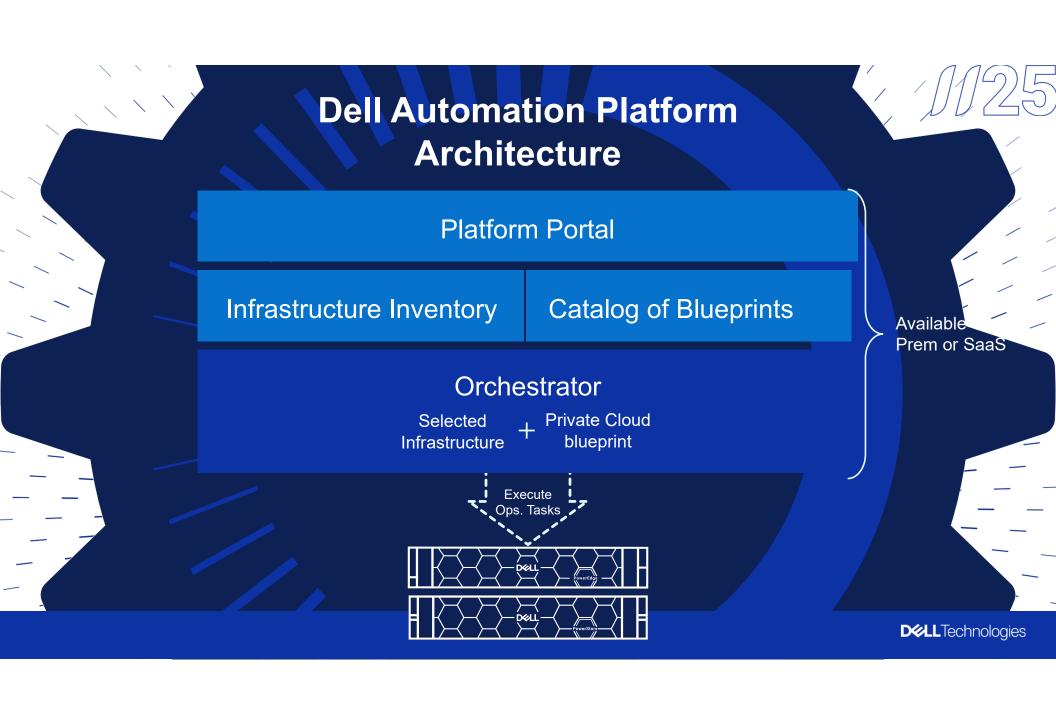
Disaggregated + Dell Private Cloud:

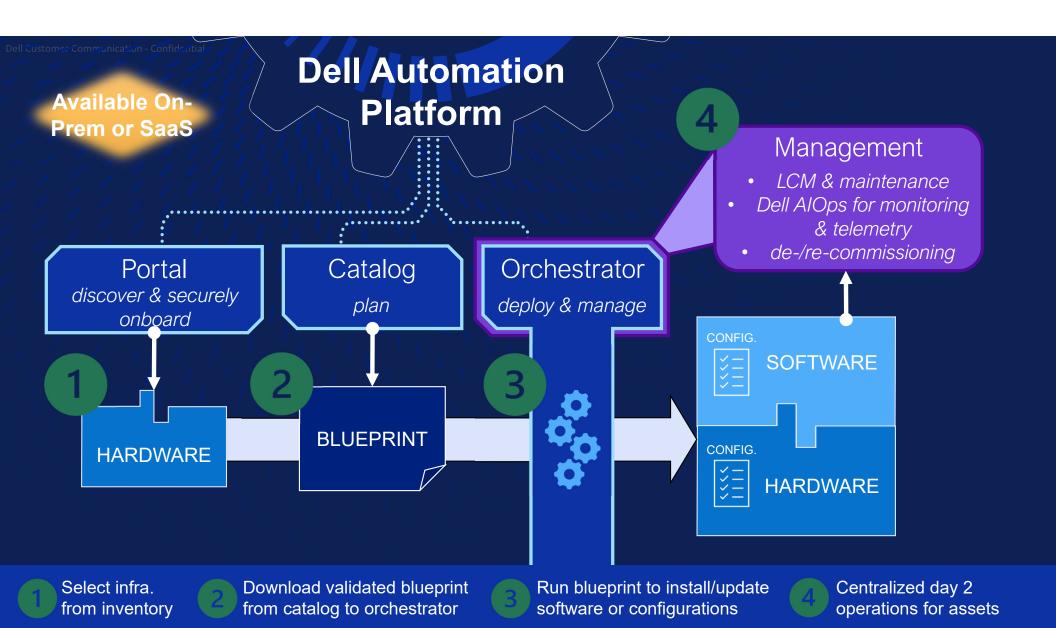
The best of Both options













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Curated and Validated

Deploy and manage outcomes on your Dell infrastructure, tested and validated by Dell's experts



Dell Private

Cloud

Compute | Storage Networking

Dell Al

Solutions

Customizable and Flexible

Build on validated blueprints or start from scratch using open source tools and software on orchestrated infrastructure





Dell

NativeEdge

D¢LLTechnologies

inte

Introducing Dell Private Cloud

Freedom and flexibility to evolve on your terms



Dell Automation Platform



Based on internal Dell testing. Dell Private Cloud deploying VMware vSphere and Red Hat. August 2025. Actual results may vary. CLM-014261.
Based on internal Dell testing. Manual steps automated through a single Dell Private Cloud blueprint. May 2025. Actual results may vary. CLM-014260.

Based on internal Dell testing. After hardware installation, configuration and platform onboarding. No manual interaction required after initiation Actual results may vary. CLM-014262.

Actual results may vary. CLM-014262. Additional storage support coming 2H 2025.

Fully transferable and reusable hardware



- Protect investments with disaggregated and adaptable infrastructure
- Bring your own cloud OS licenses fo ultimate flexibility
- Simplify operations with full lifecycle management and automated integral Dell PowerStore (additional storage)
- Ensure continuity by leveraging example and access to familiar tools
- Rely on Dell as the primary source of systemlevel support for hardware and system so tware

Validated with

55,000+

hours of testing¹

Over

90%

fewer steps to provision vs. manual deployment²

Workload-ready clusters in

2.5

hours, zero manual effort3

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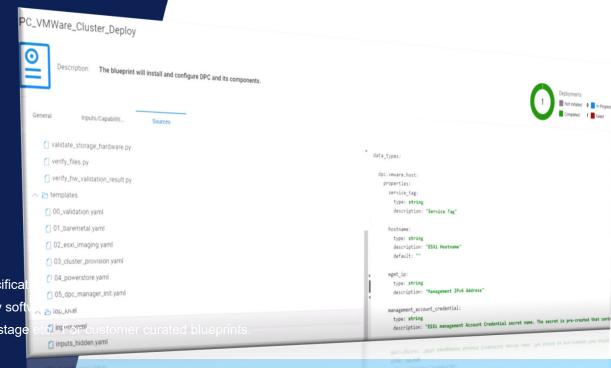
What is a blueprint?

A build scheme to perform complex IT infrastructure operations

- Defines resources and their connections between each other
- Declarative statements to execute configuration operation based on userprovided inputs
- Output is a sequence of steps that can be automated to complete a complex operation

Building a blueprint

- A YAML file written in Topology and Orchestration Specifical
- Dell tests and validates blueprints to support third-party soft
- Use third party IAC tooling I.E. Ansible/Terraform/Backstage



VMware blueprints for Dell Private Cloud including:

- Cluster deploy
- Cluster expansion
- PowerStore update





What the cluster deploy blueprint automates

Verify installation bundles

- ESXi image
- PowerEdge hardware
- Dell Private Cloud Extension for VMware vSphere

Update PowerEdge nodes with firmware bundle

Deploy Dell Private Cloud VM Initialize the Dell Private Cloud VM

















Hardware checks

- Homogeneous hardware configuration
- Hardware minimums
- Firmware compatibility

Validate and apply Dell Private Cloud licenses on each node Re-image PowerEdge nodes with ESXi image Map PowerStore storage to the nodes

Note: not all tasks are captured on this slide





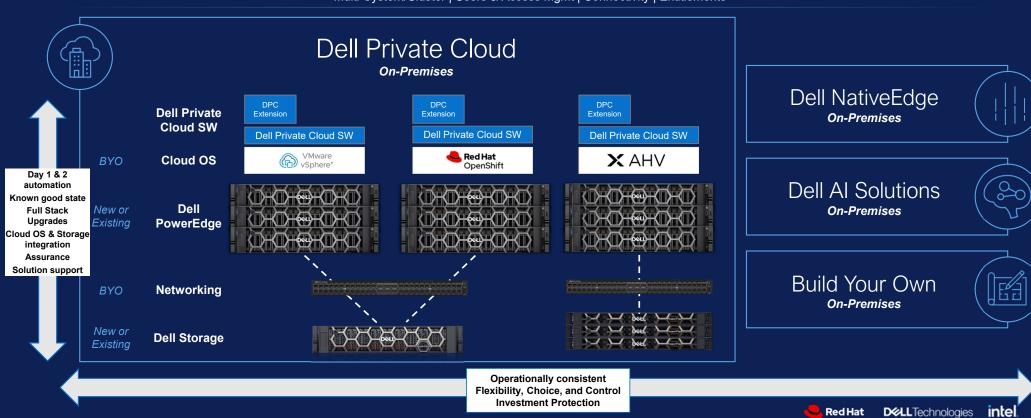
High level architecture

Dell AIOPs saas

Dell Automation Platform

SaaS or On-Premises

Portal | Onboarding | Asset Mgmt | Catalog | Blueprints | Orchestrator Multi-System/Cluster | Users & Access Mgmt | Connectivity | Entitlements



Dell PowerEdge Powered by Intel Xeon

Purpose-built | Intelligent | Cyber resilient

XR-Series

R-Series

M-Series

XE-Series

T-Series









Dell PowerStore

All-Flash Storage

Future-Proof

- √ Scale-up/Scale-out flexibility
- √ Built-in data resiliency
- ✓ Lifecycle Extension with ProSupport – "Never outgrow"

Efficient

- ✓ Industry-best 5:1 data reduction guarantee
- ✓ Autonomous active/active
- ✓ Energy efficient design

Easy to use

- √ Self-optimizing platform
- ✓ Powerful AlOps tools
- End-to-end ecosystem automations







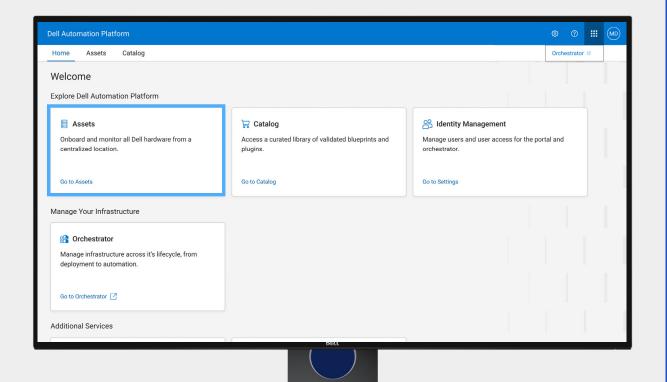
User Experience Example







Central portal





Everything you need, all in one location

- · Available via secure SaaS or a customerhosted cluster on-premises
- Quick access to Dell Automation Platform services and capabilities
- · Manage, monitor, and operate across cloud, on-premises, and edge

Securely onboard compute and storage into Dell Automation Platform inventory with zero touch, automated processes

Disaggregated infrastructure for flexible provisioning



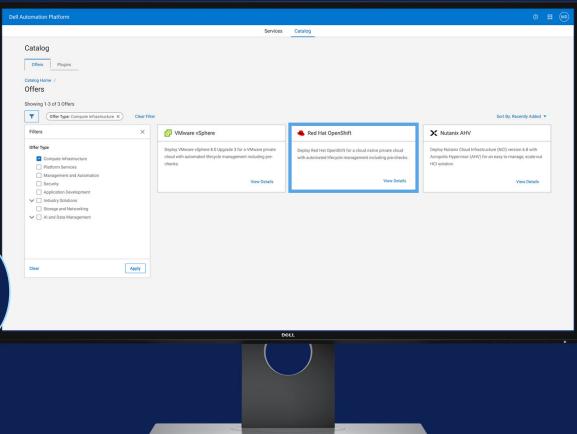


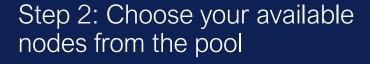
Dell Storage

DELL PRIVATE CLOUD

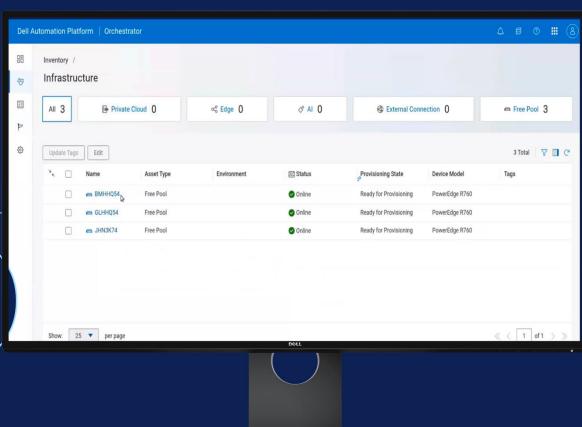
Day 1: Choose your preferred software from Dell's curated catalog of validated blueprints





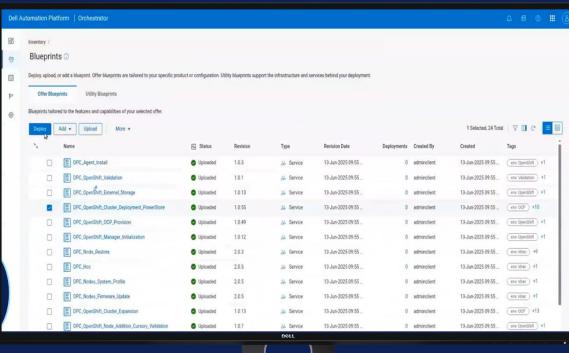








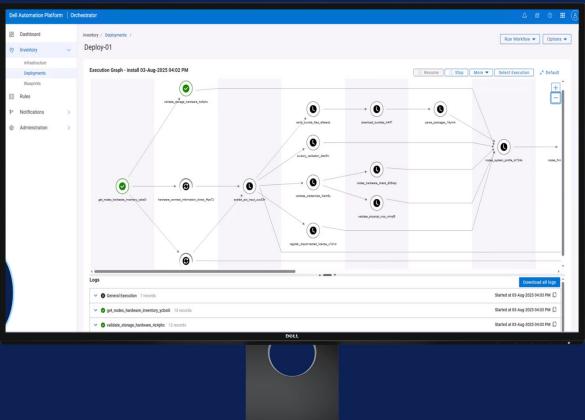




validation steps

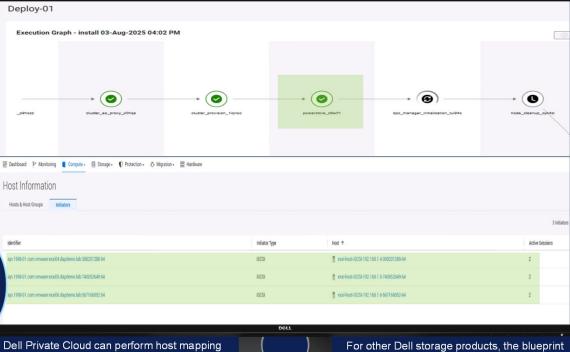
Step 4: Monitoring Deployment &





Step 4b: Host Mapping with Storage Integrated platform (PowerStore)





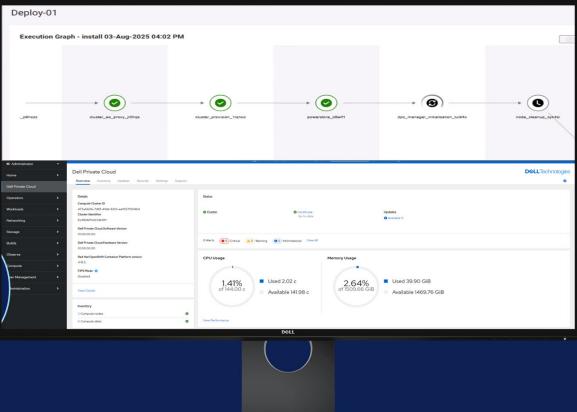
deployment gracefully stops at this step so that

the user can manually map the hosts to the volume. Once completed, user can resume the

blueprint deployment.

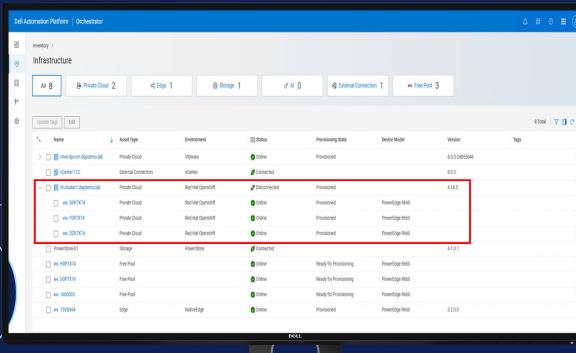
Step 4c: Deploying the extension resources to the OpenShift cluster





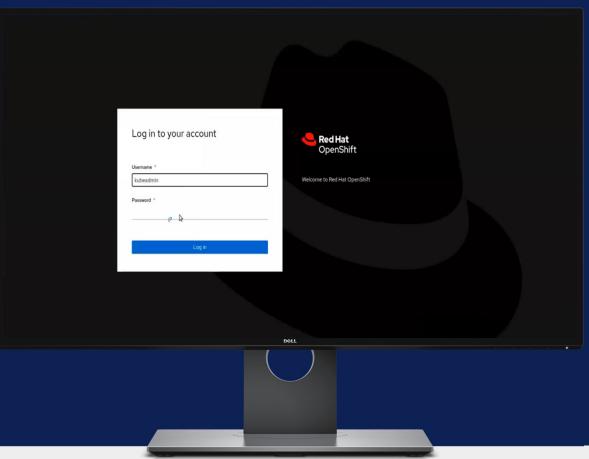




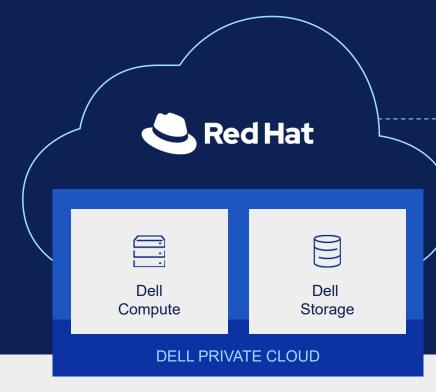


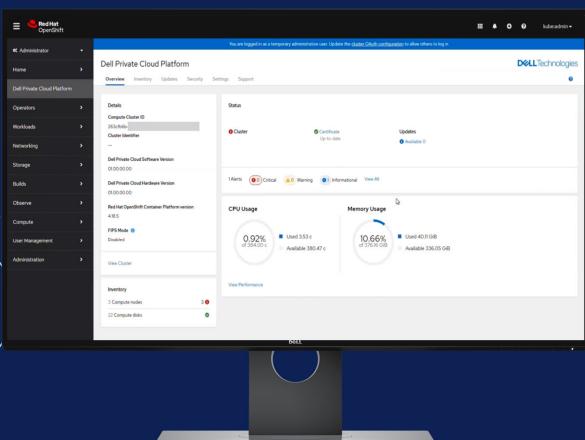






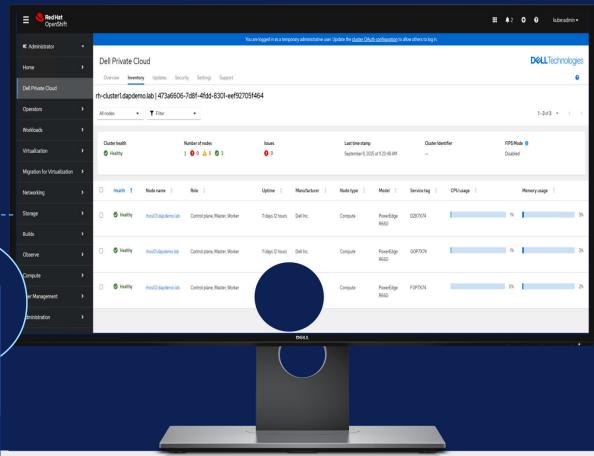
Day 2: Manage and update your private cloud infrastructure with third-party extensions





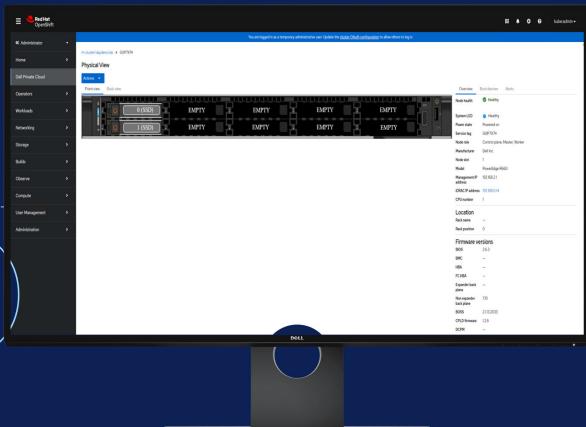












Decommission and return infrastructure resources to inventory for repurposing to a different software option

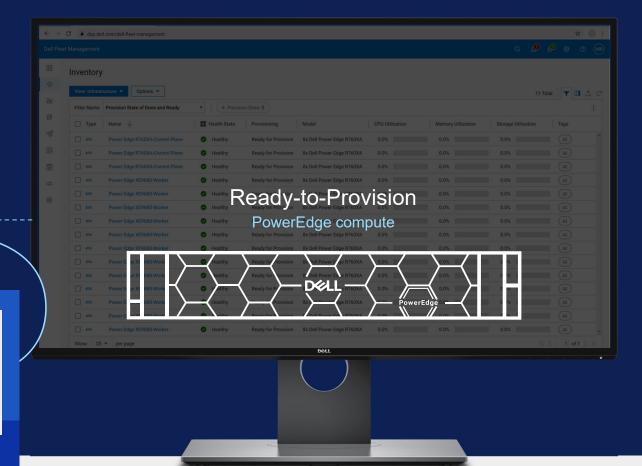






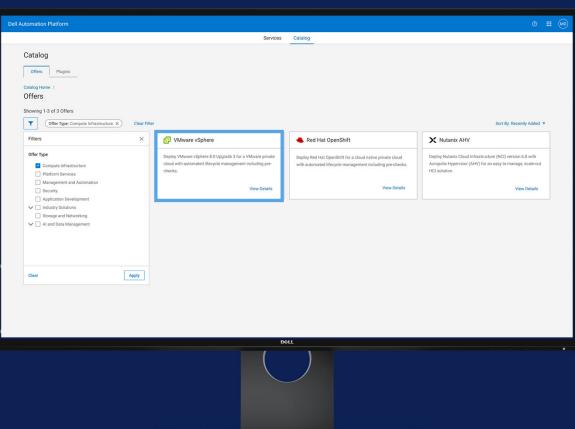
Dell Storage

DELL PRIVATE CLOUD



Reprovision to a different private cloud software ecosystem of your choice





MANAGE

Licensing overview



Dell Automation Platform

Platform License

Platform No-cost subscription added to sales order



Dell Private Cloud

Private Cloud Software

1-,3-,4-,5- year subscription, licensed per PowerEdge node Licenses are portable between Private Clouds and hardware generations



Disaggregated Infrastructure

Dell PowerEdge

Requires iDRAC Enterprise or Datacenter license per node

Dell Storage

Use standard storage licensing (e.g. PowerStore, PowerFlex) No additional Private Cloud licenses required

vmware

by Broadcom

Bring your own licensing

vSphere Cluster

Any ELA, VCSP, Omnissa bundle, or perpetual license, VVF and VCF* subscription (vSphere Enterprise Plus minimum)

vCenter Server

Customer-managed vCenter with licensing

Red Hat OpenShift

Bring your own subscription

OpenShift Cluster

OpenShift Container Platform Plus, OpenShift Container Platform, OpenShift Kubernetes Engine (OKE), OpenShift Virtualization Engine (OVE)

OpenShift Add On Subscriptions (optional)

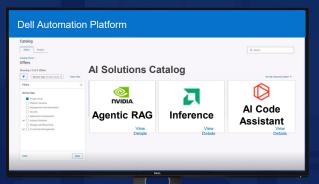
Advanced Cluster Management for Kubernetes (ACM) for OKE, ACM for OVE, AI Accelerator, Red Hat OpenShift AI, Ansible





Dell Al Factory

Simplify deployment of AI Solutions









Faster time to value, lower risk

- A catalog of optimized solutions from Dell and our network of partners
- Simplify Al deployments with validated and optimized configurations for your system
- Automated deployment of AI solutions reduces time, effort, and mistakes
- Optimized hardware with GPU accelerated compute
- Accelerate Al outcomes from strategy to scalable operations with Dell Services

intel.

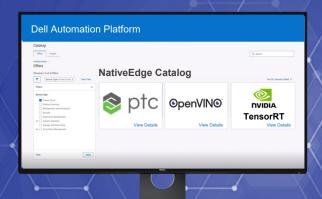
Dell NativeEdge

Accelerate AI innovation@edge



Edge operations, unified.

- Centralize management of diverse devices and edge Al applications
- Free up time with automation from Day 0 to Day 2 ops and beyond
- Choose any application, IoT framework, OT systems, or multicloud
- Deploy VM and container applications to existing environments
- Design and modernize your edge operations with Dell Services experts

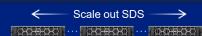


Dell Automation Platform

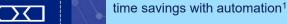
NativeEdge OS

HA CLUSTERS









1-Click cluster expansion¹

application deployment¹

Red Hat

D¢LLTechnologies

intel.

interprise Strategy Group by TechTarget Technical Validation commissioned by Dell Technologies, "Dell NativeEdge - Edge Operations Software atform," February 2025.

Customizable and Flexible

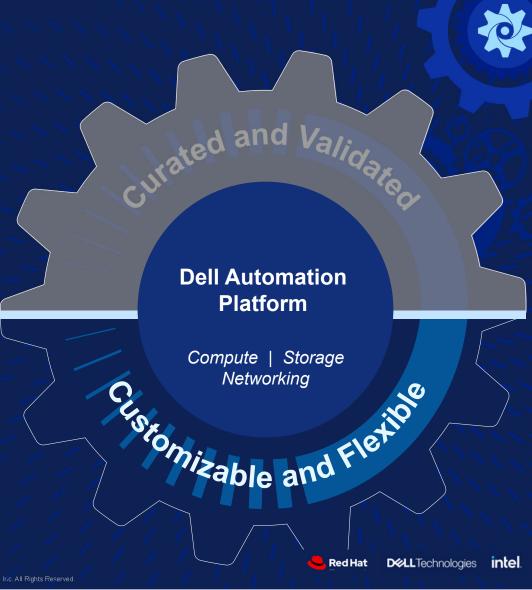
Customize validated blueprints to fit your needs or build your own to orchestrate your preferred software



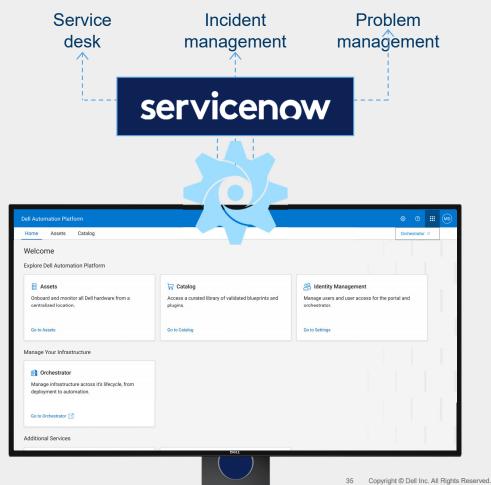




Blueprint and Orchestrate software based on your needs to run on flexible and dynamic hardware



Strategic Ecosystem Integrations





Embed Dell Automation Platform within existing processes

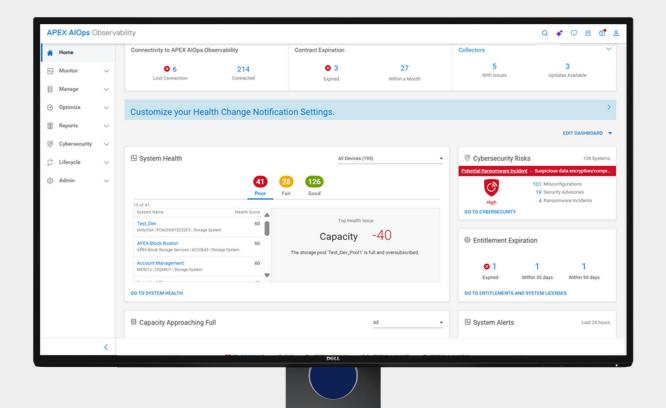
- · Automate support processes with direct integration into ServiceNow
- · Equip stakeholders with familiar support and services tools
- · Expedite time-to-resolution for priority incidents





intel.

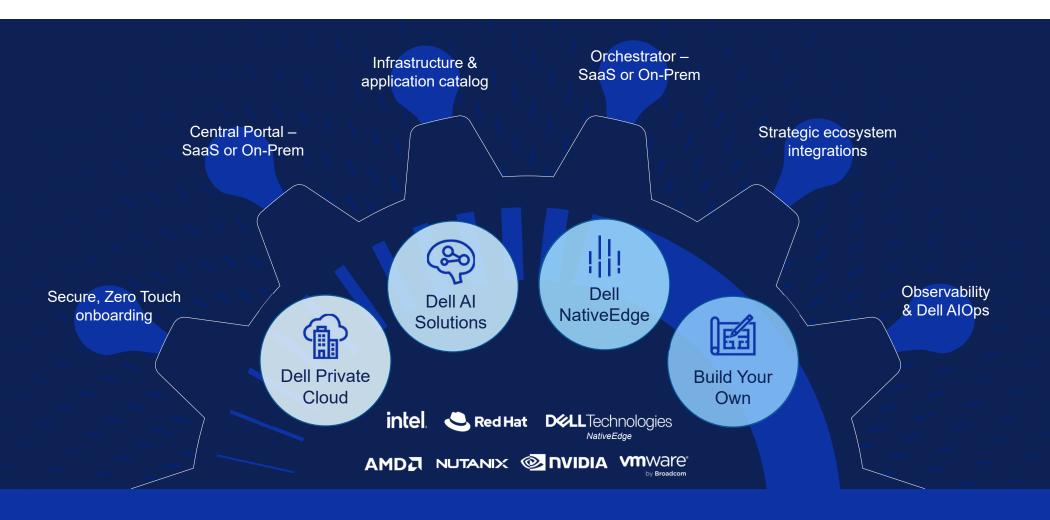
Observability and AlOps





Seamless extension to Dell AlOps capabilities

- Predictive failure insights for proactive capacity planning, maintenance, and incident prevention
- Aggregate data, including logs, metrics, events, network packets, alerts, and more
- Apply machine learning algorithms and advanced analytics to the collected data to identify patterns, correlations, and anomalies
- Drift management and event correlation



Dell Automation Platform

We automate, so you can innovate

