

# Dell Private Cloud

Enabled by Dell Automation Platform

Dell Private Cloud, enabled by Dell Automation Platform, offers a powerful combination of flexibility, simplicity, and automation to help organizations tackle IT complexity and drive innovation. Built on Dell’s proven disaggregated infrastructure, it provides an intelligent, scalable solution for managing diverse workloads. With Dell Private Cloud, businesses can streamline operations, reduce costs, and adapt to evolving needs – all while safeguarding their technology investments.

## Challenges of Modern IT

Managing today’s IT environment is increasingly complex. Businesses need infrastructure that supports a diverse mix of workloads, from traditional applications to modern AI and edge computing solutions. At the same time, organizations are navigating challenges like rising operational costs, sustainability priorities, and the need to remain agile in the face of rapid technological change.

Traditional architecture models often fall short:

- **3-Tier Architecture:** While flexible, they are time-consuming to deploy, challenging to manage, and require specialized upgrade skills.
- **Hyperconverged Infrastructure (HCI):** Simplifies deployment and operations, but locks organizations into rigid configurations, increasing costs at scale and limiting adaptability.

### Flexibility Without Vendor Lock-In

An open, disaggregated architecture lets you deploy your preferred third-party OS licenses, like VMware, Red Hat, Nutanix, or Azure Local, on trusted Dell hardware. This freedom ensures ultimate control over your infrastructure without vendor lock-in.

### Automation-Driven Simplicity

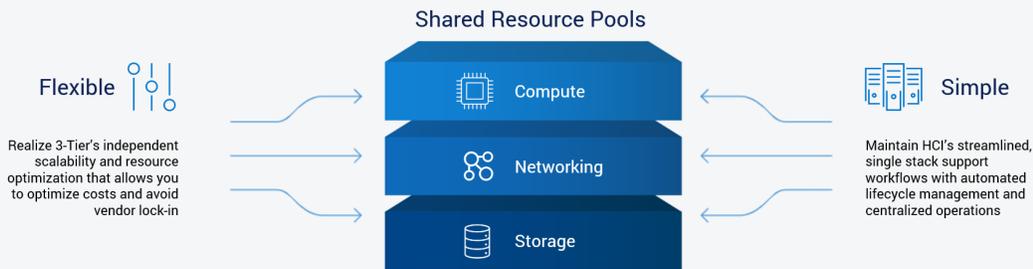
Powered by Dell Automation Platform, Dell Private Cloud automates deployment, management, and scaling. Blueprint-driven workflows and intelligent lifecycle management ensure a continuously validated state, optimizing efficiency and maintaining stability.

### Future-Proof Adaptability

Scale your private cloud with confidence. Repurpose hardware, pivot to new software ecosystems, and adapt to evolving business needs – all with intelligent automation and comprehensive solution-level support.

## Dell Private Cloud

Dell Private Cloud is a software solution that bridges the gap between flexibility and simplicity, offering the freedom of disaggregated infrastructure with all the benefits of automation and ease of use. Dell Private Cloud leverages Dell Automation Platform to simplify the deployment, management and scalability of private cloud ecosystems, transforming them into ready-to-run, fully-supported infrastructure.



A subscription for Dell Private Cloud software seamlessly ties together three essential components:

- **Dell Storage:** Harness the power of your current Dell storage or invest in new systems. Opt for platform-integrated storage, with Dell PowerStore, which offers full automation and integrated lifecycle workflows, or choose from a range of platform-compatible Dell storage options, which are validated with Dell Private Cloud, but managed independently.
- **Dell Compute:** Run your private cloud on trusted Dell PowerEdge servers—either by reusing your established hardware or onboarding new systems as your needs grow. With standard PowerEdge servers, there's no requirement for specialized equipment, empowering you to repurpose infrastructure as your business evolves.
- **3rd Party Cloud OS:** Bring your own third-party cloud OS licenses—such as VMware, Red Hat, or Nutanix—through your preferred channels. Dell Private Cloud seamlessly integrates into their management consoles (VMware vSphere, Red Hat OpenShift Web Console, Nutanix Prism), allowing your teams to continue using familiar management tools and processes. This flexibility lets you leverage existing expertise, streamlines transitions, and removes the need for extensive retraining.

## Validated Blueprints for Dell Private Cloud

Dell Validated Blueprints are Dell-tested, declarative templates that define the desired state of your environment, written in TOSCA-based YAML files and orchestrated by Dell Automation Platform. These blueprints automate essential activities — such as cluster deployment, expansion, and PowerStore updates — by turning proven architectures into repeatable, automated workflows. With this approach, organizations can efficiently deploy and scale private clouds across VMware, Red Hat, Nutanix, or Azure Local, ensuring consistent, confident, and accelerated operations at every step.

Cost-effective

**44% cost savings**

compared to HCI<sup>1</sup>

Efficient

**2.5 hours**

to deploy clusters, with zero manual effort<sup>2</sup>

Robust

**45,000+ hours**

of testing<sup>3</sup>

Automated

**90%**

fewer steps to provision vs. manual deployment<sup>4</sup>

### Automation-Driven Simplicity

Dell Private Cloud, powered by the Dell Automation Platform, delivers next-level automation and operational efficiency across the entire private cloud lifecycle.

- **Simplified Deployment:** With Dell's blueprint-driven workflows, customers can rapidly set up clusters and expand environments with confidence. These Dell-tested templates eliminate manual errors and accelerate infrastructure readiness, while deep integration with Dell PowerStore storage ensures a seamless, automated experience from day one.
- **Intelligent Configuration:** Centralized orchestration empowers users to easily scale clusters and add nodes as their requirements change. Built-in compliance checks and pre-validated configurations keep environments stable and secure, so teams can operate with clarity and confidence.
- **Continuous Optimization:** Automated lifecycle management helps ensure the environment stays optimized over time, with validated updates and advanced tools like LCM prechecks and update advisors simplifying planning and minimizing disruption. Dell Private Cloud provides the unique flexibility to drift from a validated state when business needs require, balancing operational control with ongoing reliability.

Ultimately, Dell Private Cloud brings all the automation and ease-of-use of a hyperconverged appliance, but with even more advanced lifecycle management and the adaptability of the Dell Automation Platform, empowering organizations to keep pace with change.

### Move Innovative Ideas to Business Outcomes with Dell Services

Our outcome focused approach will accelerate your ability to deliver a multicloud by design that will drive your business forward, harmonizing business and IT strategies. With Dell as your trusted partner, you can focus more on delivering services to your business and your business can focus on delivering innovation and growth.



Learn more about Dell Private Cloud



Contact a Dell Technologies Expert



View more resources



Join the conversation

© 2026 Dell Inc. or its subsidiaries. All Rights Reserved. Dell and other trademarks are trademarks of Dell Inc. or its subsidiaries. Other trademarks may be trademarks of their respective owners.

1. Arcilla, Alex. [Dell Private Cloud: Dynamic and Flexible IT Architecture for an Ever-changing Business Landscape](#). Omdia, January, 2026. Commissioned by Dell Technologies. Actual results may vary. CLM-015607

2. Based on internal Dell testing. Dell Private Cloud deploying VMware vSphere and Red Hat. August 2025. Actual results may vary. CLM-014261.

3. Based on internal Dell testing. Manual steps automated through a single Dell Private Cloud blueprint. May 2025. Actual results may vary. CLM-014260.

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