

# Design Your Modern Data Center

Build an Efficient, Resilient,  
and Flexible Future





We are living in an era of rapid transformation. As data volumes surge and new workloads reshape IT demands, the infrastructure that supported businesses yesterday is hitting its limits today. Many organizations find themselves struggling with operational silos, complexity, and unpredictable costs that make it difficult to innovate. By 2025, global compute and storage spending is expected to reach \$262 billion in 2025<sup>[2]</sup>, and by 2025, 60% of enterprises are projected to shift from tool-based to outcome-based automation strategies<sup>[2]</sup>. To thrive, you need a modern data center that consolidates infrastructure, automates operations, and integrates cloud flexibility on your own terms.

This shift is critical as the industry accelerates toward modern infrastructure to keep pace with business transformation and the AI era. The urgency to act is clear. This eBook is your guide to navigating this journey. We will explore how to optimize your cloud strategy, simplify AI adoption, and strengthen cyber resilience to build a future-ready foundation.

# Optimize Your Cloud Strategy

Today's workloads are distributed everywhere. You likely have applications running in your private data center, others in public clouds, and more at the edge. While this multicloud approach offers flexibility, operating these environments separately can lead to silos, operational complexity, and a lack of visibility.

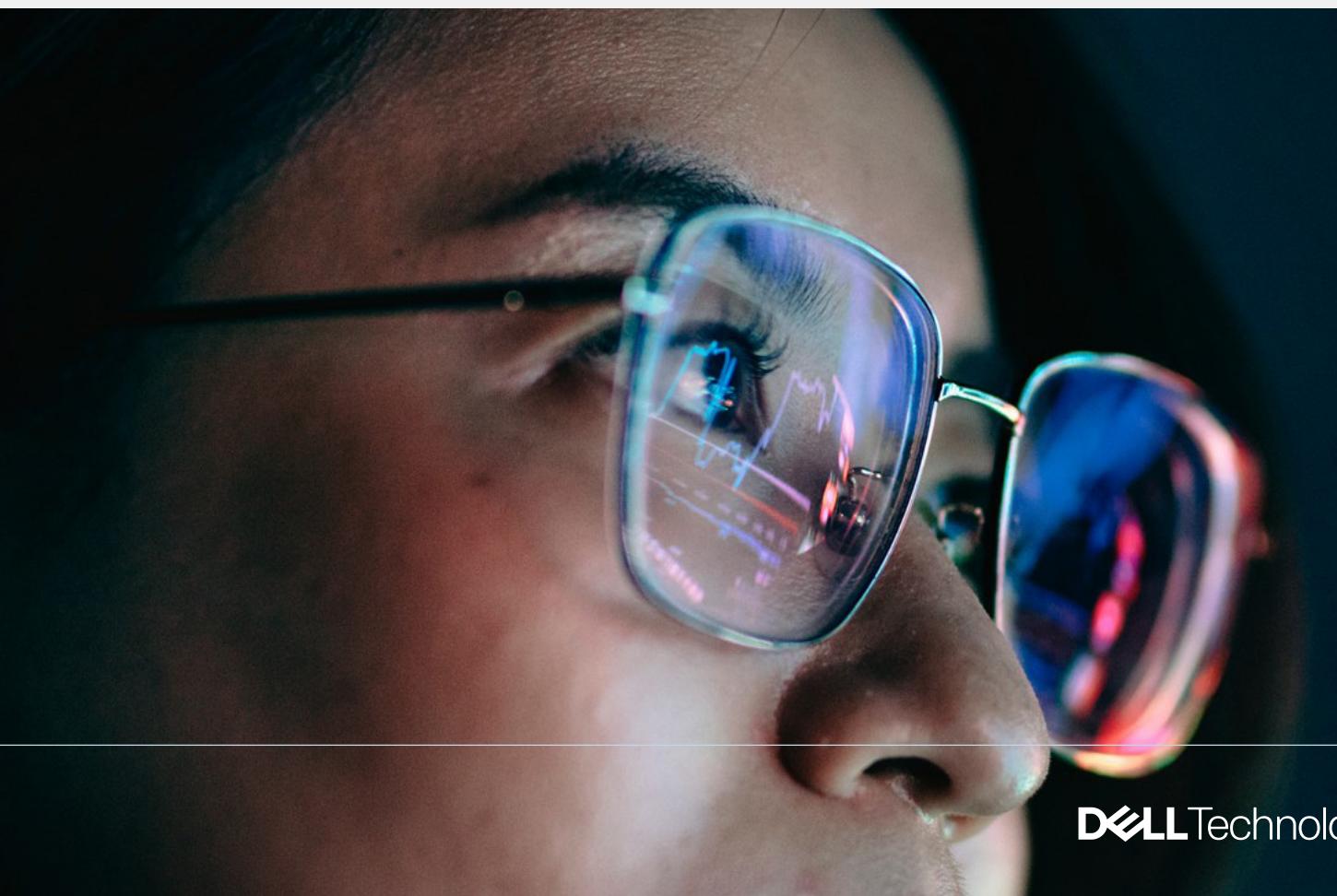


6.6%

Global data center vacancy rates have fallen to 6.6% in Q1 2025, intensifying the need for efficient infrastructure.<sup>[3]</sup>

To turn this complexity into an advantage, organizations must adopt a multicloud operating model. This approach allows you to run your diverse environments as one cohesive system, prioritizing consistent governance and flexible workload placement.

By bringing consistency to your networking, security, and management, you can run workloads where they fit best, whether for performance, cost, or compliance, without getting locked in. This helps maintain control and visibility across distributed environments while increasing agility through standardized deployment. Dell Technologies helps you bring this consistency to life. We provide the tools and platforms needed to deploy, manage, and optimize workloads across both private and public clouds. This unified experience gives you the freedom to innovate across your entire landscape without losing control.



# Simplify AI Adoption

Artificial intelligence offers the potential to automate tasks, improve decision-making, and unlock incredible value from your data. However, moving from a pilot project to enterprise-wide execution is a significant hurdle. AI project success depends on streamlined data environments and efficient infrastructure. Overcoming these challenges is critical to accelerating innovation in modern datacenters. To bridge this gap, you need a strategy that makes AI scalable and practical.



## Modernize Your Datacenter

Success requires a foundational infrastructure strategy that accounts for data location and workload scaling. The most effective approach is to connect your data across disparate environments and run workloads where they are most impactful. This allows you to leverage data where it is generated and stored, accelerating your time-to-value with flexible deployment from prototype to production and support diverse use cases with scalable compute.

Dell Technologies helps make AI practical by providing validated solution stacks and purpose-built infrastructure designed to eliminate bottlenecks, allowing you to deploy AI reliably and at scale.



Many enterprises report that 80% of AI projects stall before they ever reach production, often due to fragmented data environments and infrastructure bottlenecks.<sup>[4]</sup>

# Strengthen Cyber Resilience

In our digital-first world, cyberattacks have evolved from simple disruptions to sophisticated threats that impact revenue, trust, and operational continuity. Protection alone is no longer enough; you must assume a breach will happen and be capable of rapid, clean recovery. The risks are rising, and the stakes have never been higher.



## Modernize Your Datacenter

To succeed, organizations need a strategy that not only prevents attacks but also ensures rapid recovery when they occur. With 84% admitting they could do better when it comes to cyber threat detection and response<sup>[5]</sup>, a resilient strategy must be built into your infrastructure from the start, not layered on top as an afterthought.

A robust approach combines three critical elements: preventing attacks by hardening infrastructure, detecting threats early with intelligent tools, and recovering data quickly using isolated environments.

Dell Technologies delivers resilience by design, with solutions like immutable data protection and cyber recovery vaults that safeguard your critical data. By prioritizing a "prevent-detect-recover" strategy, you can maintain business continuity and innovate with confidence, knowing your core operations are secure.

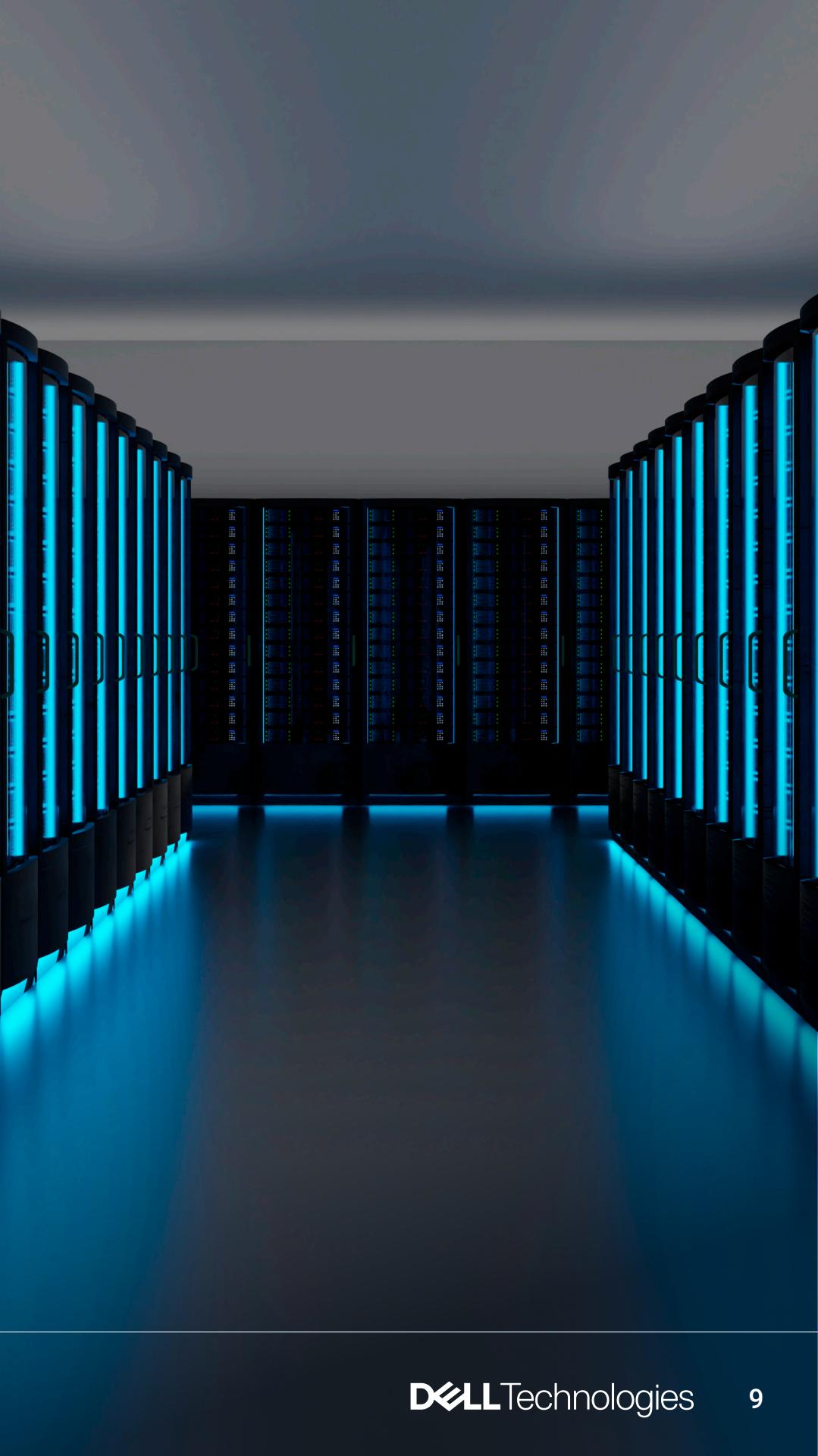


agree that enhanced security features are often a driving factor in the selection of an infrastructure and/or PC purchase.<sup>[6]</sup>

# Lead with Confidence

Modernizing your data center is about building a foundation that empowers your organization to achieve its full potential. By optimizing your multicloud strategy, simplifying AI adoption, and strengthening cyber resilience, you free your IT teams to focus on innovation rather than maintenance. This shift lays the groundwork for intelligent, self-managing data centers that drive efficiency and growth. Whether you are consolidating infrastructure, integrating cloud flexibility, or scaling AI, Dell Technologies provides the expertise and technology to help you build what's next.

[Explore Infrastructure Solutions](#)



## Frequently Asked Questions

### **1. What is an outcome-based automation strategy, and why is it important?**

*An outcome-based automation strategy focuses on delivering specific results rather than simply using tools or processes. This approach enables businesses to streamline operations, reduce inefficiencies, and achieve meaningful outcomes that align with their goals.*

### **2. How do intelligent, self-managing data centers benefit my business?**

*Intelligent data centers leverage automation, AI, and machine learning to proactively manage and optimize workflows. This reduces downtime, enhances performance, and enables scalability, freeing up your resources to focus on innovation and strategic growth.*

### **3. Can Dell Technologies help integrate cloud flexibility into my current infrastructure?**

*Absolutely. Dell Technologies offers tailored solutions to seamlessly integrate cloud capabilities into your data center, providing the flexibility and agility you need to respond to evolving business demands.*

### **4. How does AI scaling factor into modern data centers?**

*AI scaling empowers businesses to process massive amounts of data efficiently and derive actionable insights. Dell Technologies provides the cutting-edge infrastructure required to support AI workloads, ensuring your data center is prepared for the future.*

### **5. What makes Dell Technologies the right partner for designing a modern data center?**

*With a wealth of expertise and innovative technologies, Dell Technologies delivers comprehensive solutions that meet the specific needs of your business. From consolidating infrastructure to scaling AI, we work alongside you to build sustainable, future-ready data centers.*

## About Dell Technologies

Dell Technologies (NYSE: DELL) helps organizations and individuals build their digital future and transform how they work, live, and play. The company provides customers with the industry's broadest and most innovative technology and services portfolio for the AI era.

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Learn more at [Dell.com](https://Dell.com)

## Sources

[1] IDC Worldwide Quarterly Enterprise Infrastructure Tracker, 2025.

[2] IDC FutureScape: Worldwide Artificial Intelligence and Automation 2024 Predictions and Future of Digital Infrastructure 2025 Predictions.

[3] CBRE, Global Data Center Trends 2025 Report.

[4] IDC Worldwide Quarterly Enterprise Infrastructure Tracker, 2025.

[5] Dell Technologies survey across 2,850 business and IT decision makers across 40 locations\*, all segments, June 2025

(\*US, UK, DE, FR and JP published in Feb 2025).

[6] Dell Technologies IT Strategy Pulse, a survey by Vanson Bourne of 750 IT and business decision makers from US, UK, DE, FR and JP, November 2025.