# MODERN INFRASTRUCTURE AND MULTICLOUD

### The Edge: Where Innovation Thrives

Edge computing has rapidly emerged as a business imperative for modern technology companies. As data volumes explode and the need for real-time decision-making accelerates, organizations will shift processing power closer to where data is generated. This shift to edge processing enables faster insights, enhanced agility, and more resilient operations. Edge computing is increasingly powered by AI, incorporating machine learning and embedded AI to boost efficiency and create next-generation customer experiences.

The bulk of applications and data will reside outside of clouds and data centers by 2027, elevating the importance of an edge strategy.<sup>1</sup> Enterprises are acknowledging this paradigm shift and actively carving out an edge management and orchestration strategy for their organizations.

### Why Edge, Why Now?

**75% of enterprise data** will be processed outside traditional data centers/clouds by **2025**—a sizable increase from **less than 10% in 2019**.<sup>2</sup>



of respondents report considering moving away from the public cloud.<sup>3</sup>



of respondents report running workloads in a multicloud or multiple clouds.<sup>3</sup>



used a hybrid or a combination of cloud and on-premises resources.<sup>3</sup>

### **Double-digit Growth Forecast**

**15.4%** increase in worldwide spend on edge computing, totaling an expected \$232 billion in 2024, and \$350 billion in 2027.<sup>4</sup>



### What's Driving the Shift?

IoT Growth Influx of 18.8 billion smart devices globally.⁵ Real-time Demands Need for low latency is growing.6

## AI at the Edge

**60%** of edge deployments will use composite AI (predictive and generative) by 2029 up from less than 5% in 2023.<sup>9</sup>

#### **Business Benefits**

- Faster Decisions—Data processed instantly at the source.
- Less Bandwidth—No need to send everything to the cloud.
- Modular Scalability—Deploy edge nodes wherever needed.
- Improved Resilience—Keep systems running even if disconnected.

Users of the Dell NativeEdge platform experienced on average:<sup>10</sup>



22x faster lifecycle management

**11x** faster security management



### Major Growth Ahead

**2x** growth in four years: By 2026, the installed base of data at edge locations is expected to surge to **2,763** exabytes, up from **895** exabytes in 2022.<sup>11</sup>

### But Security Challenges Come with Growth

**81%** of organizations recognize that emerging technologies such as AI, IoT, and edge computing present significant data protection challenges.<sup>11</sup>

**77%** of hacking-related breaches relate to stolen credentials. The FIDO Alliance seeks to boost security across environments by eliminating passwords.<sup>12</sup>

### How Connection Can Help

Connection is your partner for modern infrastructure and cybersecurity solutions and services. From hardware and software to consulting and customized solutions, we're leading the way in infrastructure modernization.

**Explore our Solutions and Services** 

Modern Infrastructure Cybersecurity

### Contact an Expert 1.800.998.0067



#### Sources:

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