



Accelerating from ideas to innovation

Modern Data Center



Trinh Cong Tam
DCS | Infrastructure Solution Group



DELLTechnologies

IT is facing disruption & opportunity everywhere



AI explosion

81%

report that AI and generative AI will significantly transform their industry.¹



Multicloud strategy

91%

face challenges building a multicloud strategy to support innovation.¹



Data growth & usage

21%

compound annual growth rate (CAGR) of data over five years to reach **221,000+** exabytes by 2026.²



Rising energy consumption

200%

increase in data center power consumption by 2030.³



Evolving threat landscape

83%

have been impacted by a security attack in the past 12 months.¹

1. Innovation Catalysts, Dell Technologies, February 2024

2. IDC WW Global DataSphere and Global StorageSphere Structured and Unstructured Data Forecast, 2022-2026

3. McKinsey & Company, Investing in the rising data center economy, January 2023 (US-based analysis)

Modern Data Center Meeting IT challenges today & tomorrow



AI
Explosion

Multicloud
Strategy

Disruptive Growth
& Usage

Rising Energy
Consumption

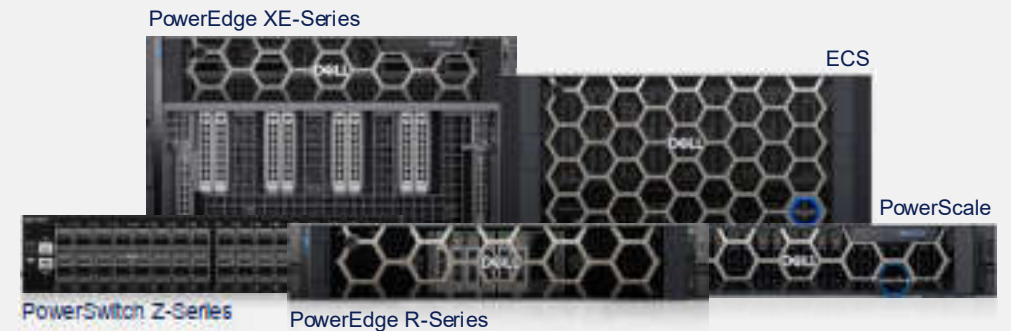
Evolving
Threats



GenAI Use Cases



Dell Validated Designs for AI



Networking

Compute

Storage

Bring AI to your data

Dell Technologies



Simplify and accelerate your GenAI journey with the right technologies, services and partners



Create better outcomes with GenAI solutions tailored to your unique business



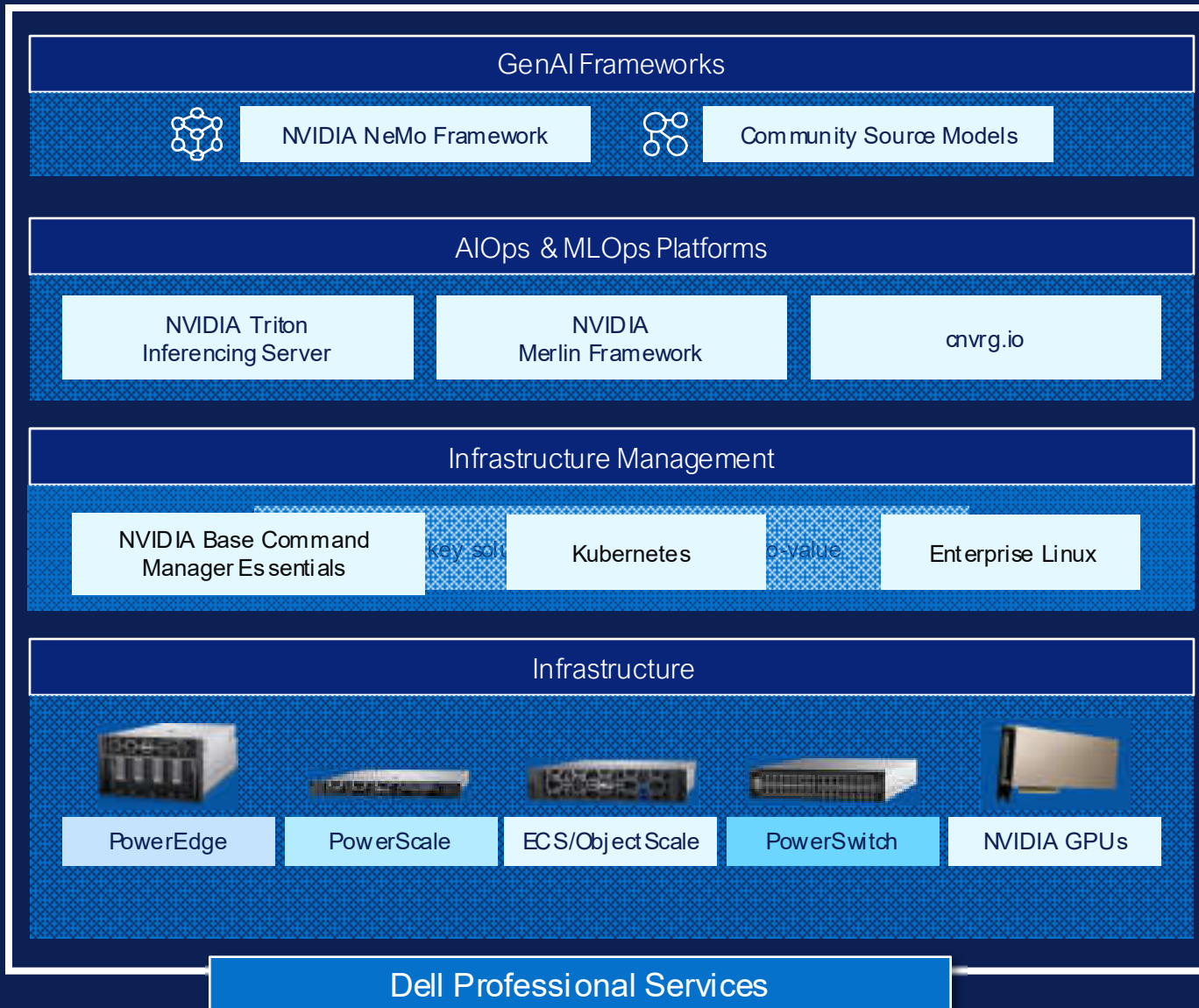
Protect and sustain your success on a trusted foundation that keeps you in control

Professional Services
for Generative AI

Strategize, implement, adopt and scale
GenAI use cases across your business

Dell Validated Design for GenAI with NVIDIA

Delivering a better outcome by customizing the model



Tested and proven configurations reducing deployment times and risk



Scalable design approach with a choice of consumption models



Powerful acceleration-optimized compute with future-ready bandwidth



Support massive amounts of unstructured data with flexible networking speeds



Deploy clusters with 1000s of nodes using industry-leading latency and data throughput

Modern Data Center Meeting IT challenges today & tomorrow



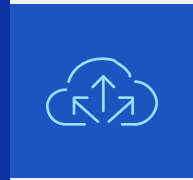
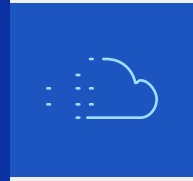
AI
Evolution

**Multicloud
Strategy**

Data Growth
& Usage

Rising Energy
Consumption

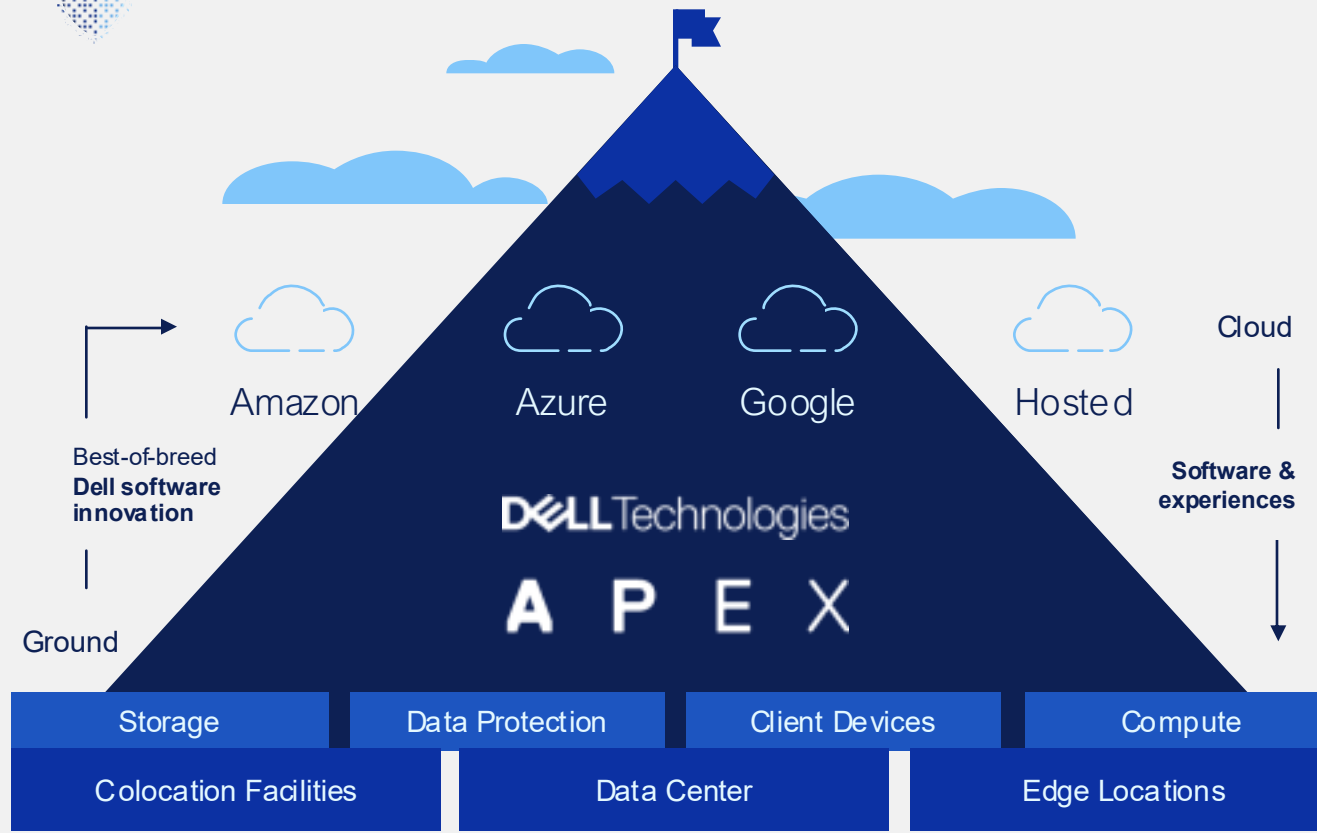
Evolving
Threats



Get the best of both worlds with Dell Technologies: on-premises & public cloud

Leverage a consistent Dell software experience in the cloud & bring cloud benefits to your on-premises environments

Take advantage of APIs, modules & Kubernetes integration to support cloud-native apps



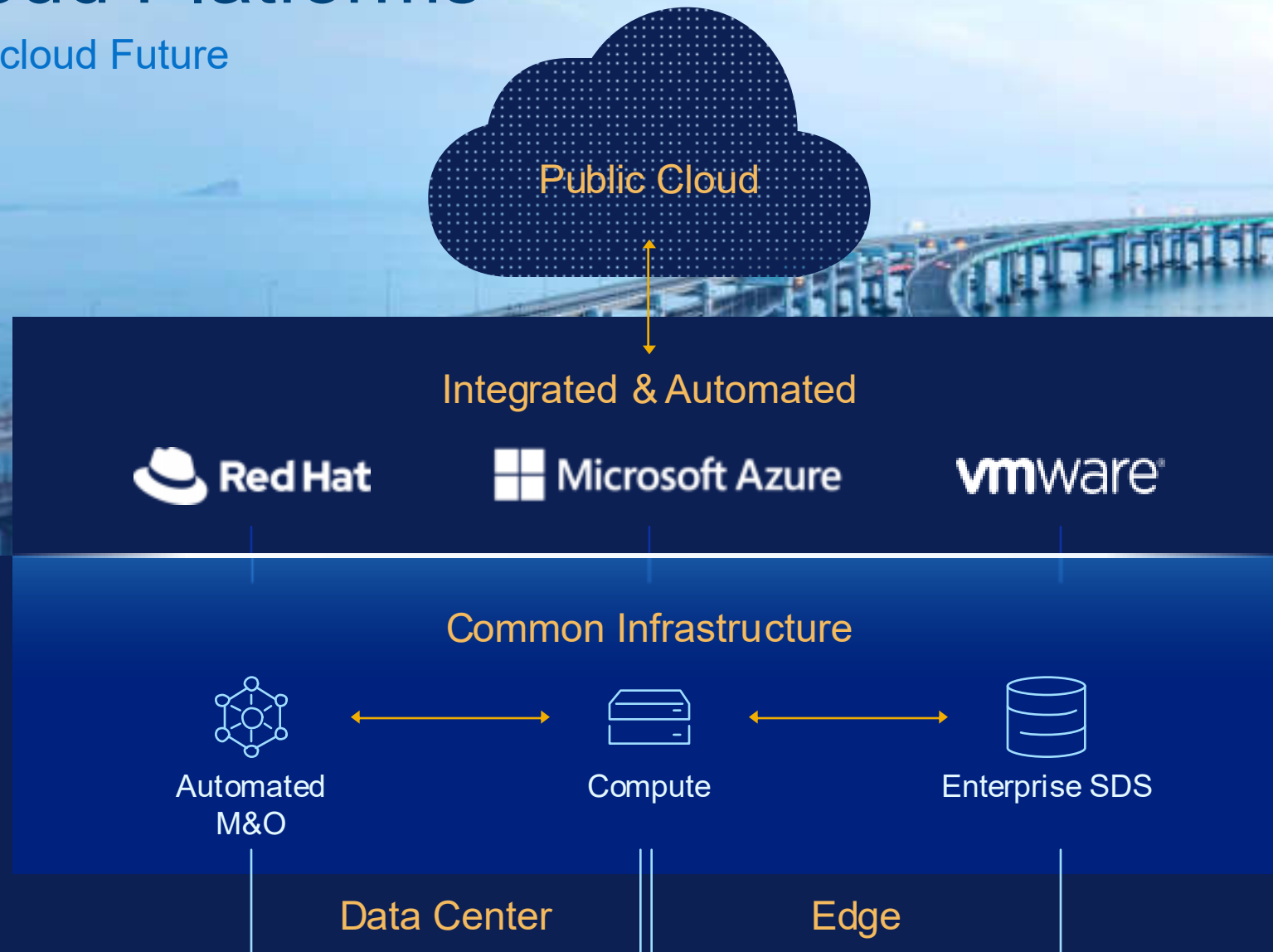
**Cloud Smart
Discovery**

Optimize and right-size your multicloud environment

DELLTechnologies

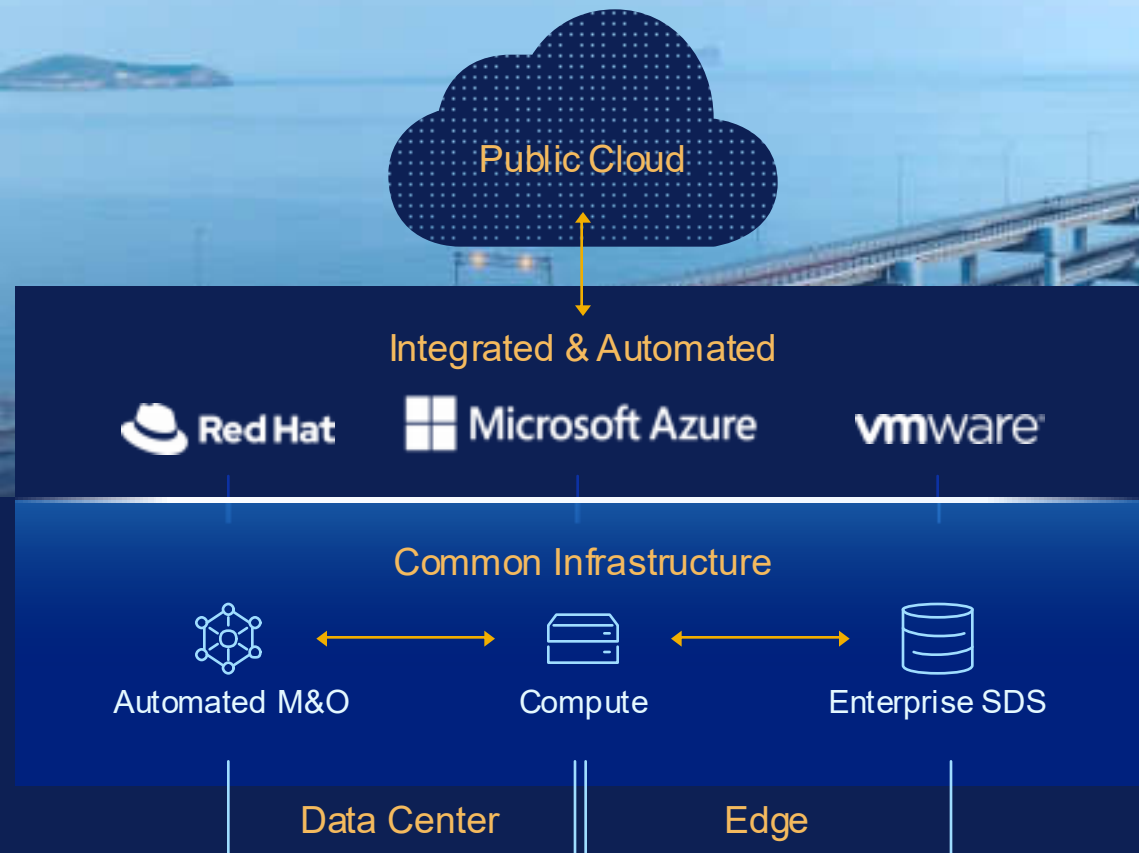
APEX Cloud Platforms

Built For Your Multicloud Future



APEX Cloud Platforms

Built For Your Multicloud future



CONTROL

Free your data from ecosystem lock-in with shared universal storage layer

Optimize workload placement to meet enterprise SLAs and security needs

CHOICE

Extend and optimize your choice of cloud ecosystem on-premises

Accelerate productivity with familiar operational and developer experiences

CONSISTENCY

Achieve operational excellence with extensive and unique automation

Flexibly extend data and applications across multicloud environments

Modern Data Center Meeting IT challenges today & tomorrow



AI
Exclusion

Multicloud
Strategy

**Data Growth
& Usage**

Rising Energy
Consumption

Evolving
Threats



Tier 2/3 apps

Analytics

Databases

AI / ML

101010
010101
101010

Manage more data with fewer resources via embedded automation & AIOps



Continuously scale up and/or out to keep pace with data growth



Leverage best-in-class performance to meet the demands of data intensive analytics, AI & machine learning workloads

Scale Up



Block

File

Object

SDI



Scale Out

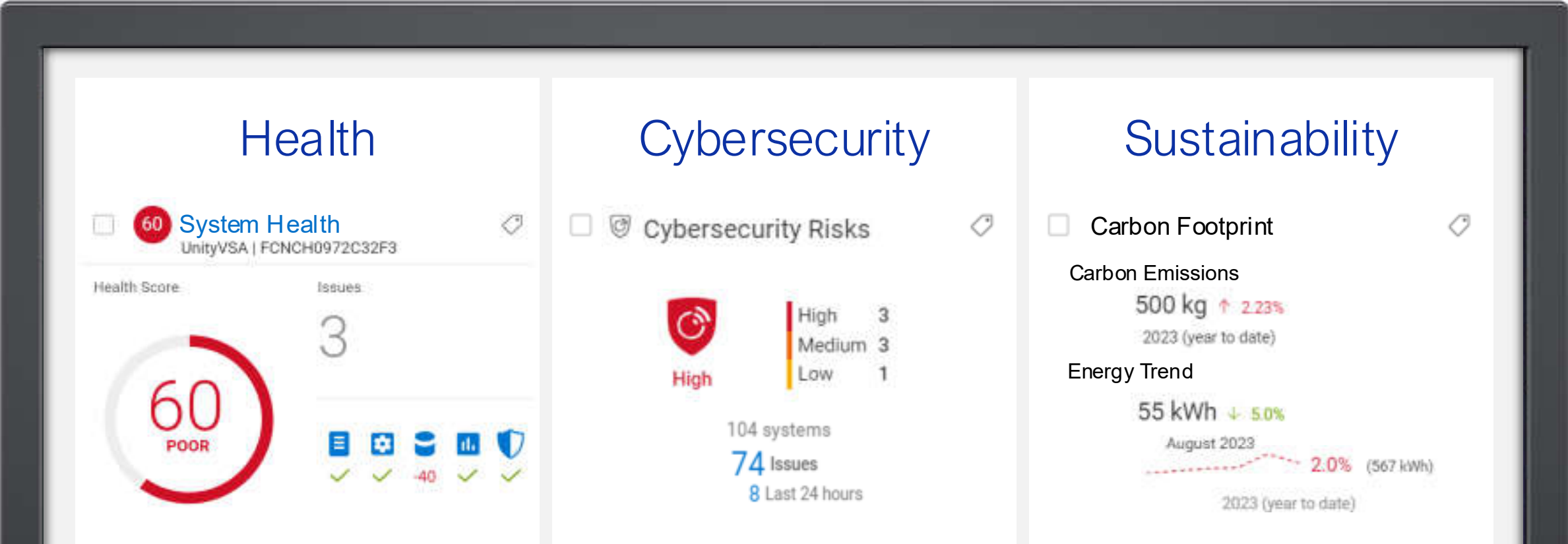
CloudIQ AIOps

Optimize for
Infrastructure

Keep Dell systems optimized & configured for continuous peak performance

DELLTechnologies

The evolution to next-gen AIOps: CloudIQ



Evolution from simple metrics to actionable insights

Modern Data Center Meeting IT challenges today & tomorrow

AI
Exponential

Multicloud
Strategy

Data Growth
& Usage

**Rising Energy
Consumption**

Evolving
Threats



Refresh legacy hardware to consolidate your footprint & meet sustainability goals



Deploy Dell's leading ENERGY STAR products to reduce energy costs



Take advantage of design breakthroughs from thermals to variable speed fans & liquid cooling technologies for greater savings

Get Efficient
Assessment

Understand the efficiency gains
you can get with Dell



ENERGY STAR & Dell Technologies

291 models of desktops / laptops | **121** monitors & displays | **46** server models | **23** storage products | **33** networking switches*

4:1

Enterprise storage data
reduction guarantee

55:1

PowerProtect data
reduction guarantee



DELL Technologies

Modern Data Center Meeting IT challenges today & tomorrow



AI
Evolution

Multicloud
Strategy

Data Growth
& Usage

Rising Energy
Consumption

Evolving
Threats



Build a resilient data foundation on trusted Dell infrastructure



Minimize disruption with a comprehensive data protection portfolio



Defend against ransomware & cyber attacks with advanced data vaulting

Cyber Resiliency
Assessment

Understand your cyber vulnerabilities and receive actionable remediation recommendations

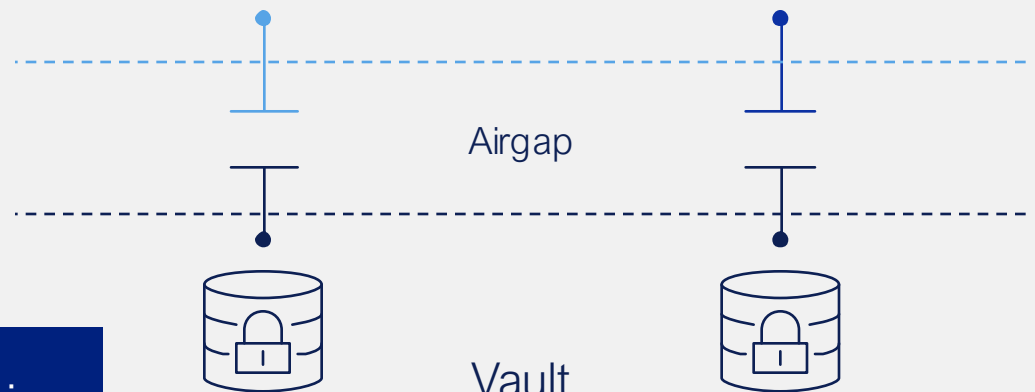
Primary Storage



Unstructured
Data Storage



Backup
Appliance



On-premises | Colocation Facility | Public Cloud

DELL Technologies



AI Powered



Built for a Zero Trust World



Cyber Recovery Expertise



Immutability

Preserve original integrity of data



Isolation

Physical & logical separation of data

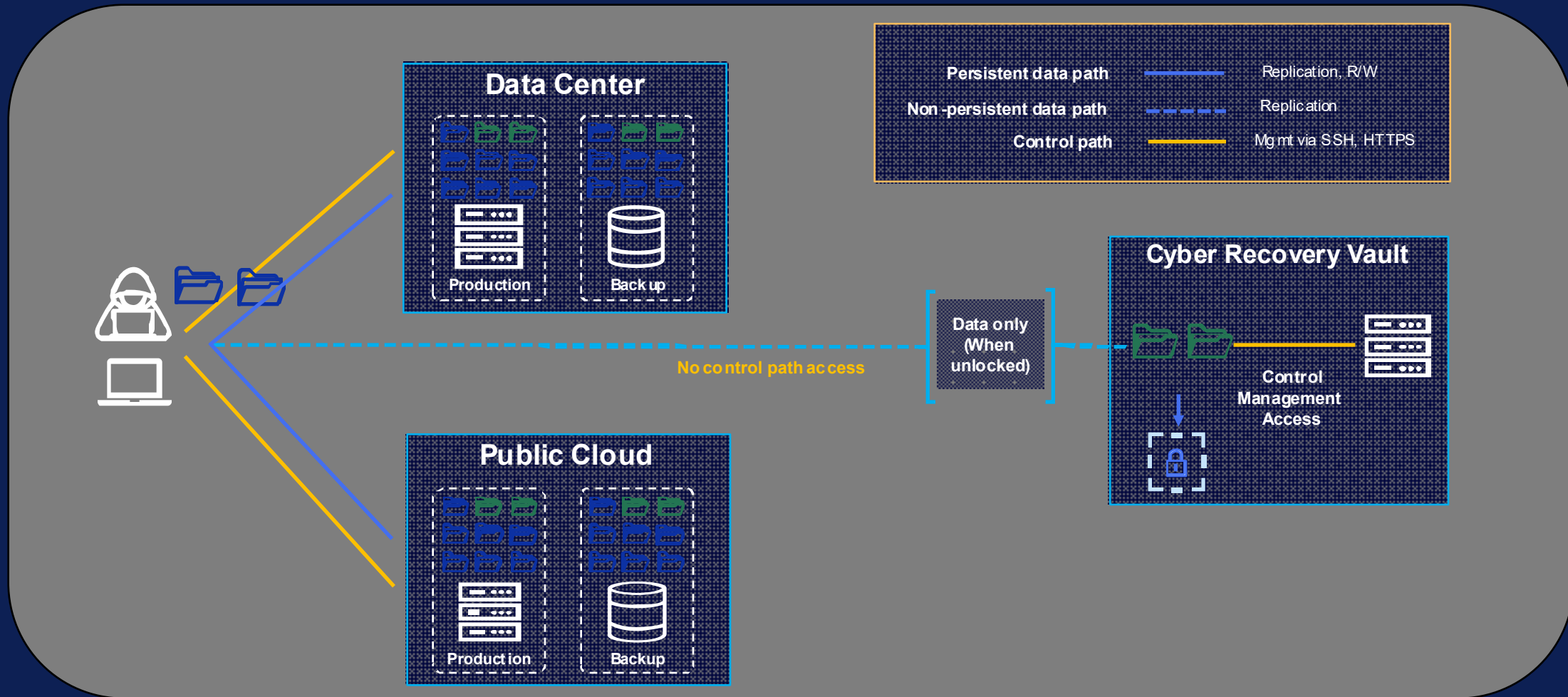


Intelligence

AI-based ML & analytics identify threats

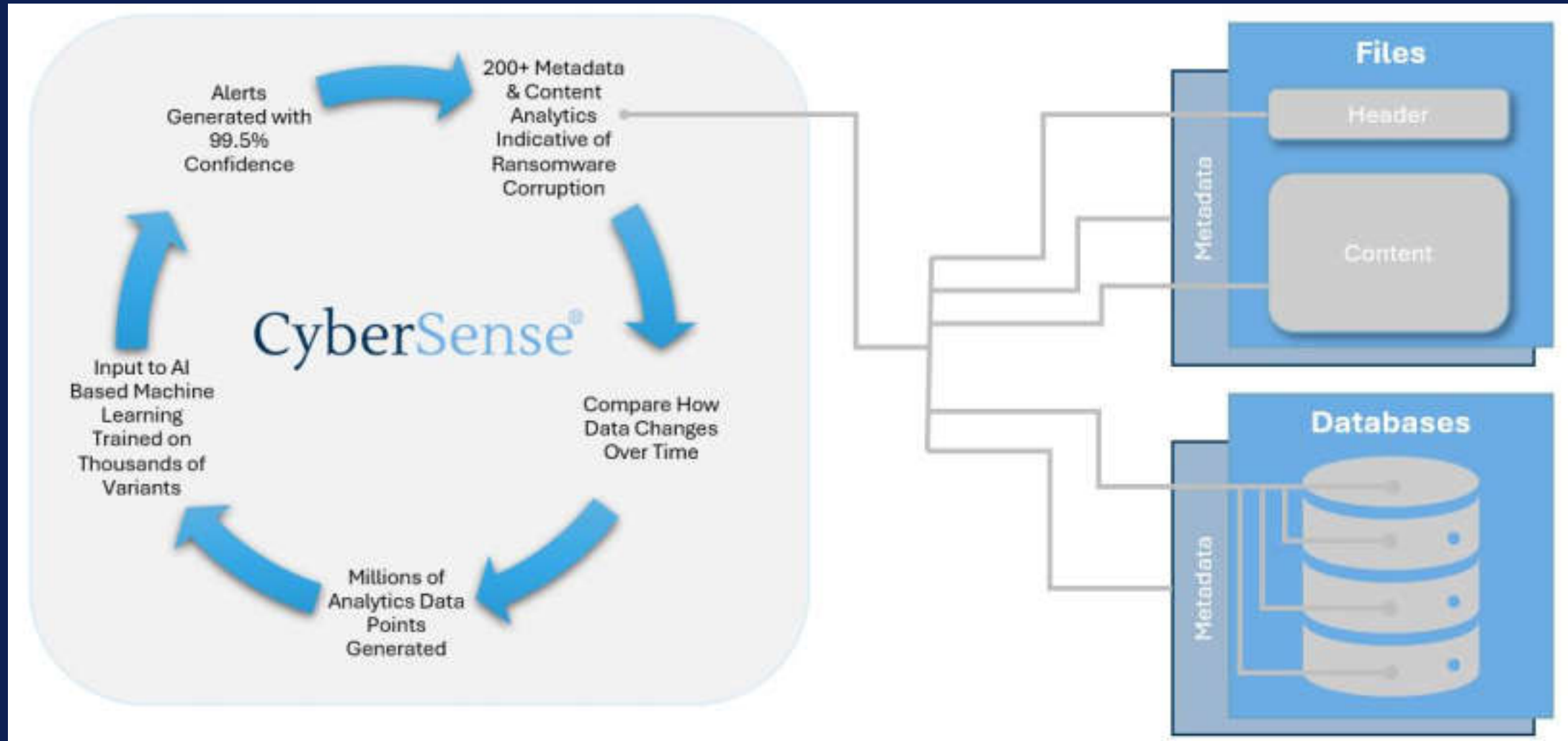
The importance of Isolation

Improve on immutability by denying access



The importance of Intelligence

AI-based machine learning that Verifies data Integrity



Design a Modern Data Center with Dell

Design a Modern Data Center that's smart, flexible & resilient to meet the needs of today, tomorrow & whatever comes next.



Smart

Accelerate innovation with intelligent & efficient systems.

Energy efficiency • Embedded automation • AIOps & observability



Flexible

Power any workload from data center to cloud.

Multicloud by design • AI-ready infrastructure • Broad ecosystem support



Resilient

Deliver comprehensive data protection.

Intrinsic security • Complete data protection • Advanced cyber resiliency

Services

Consulting | Deployment | Support | Residency | Education

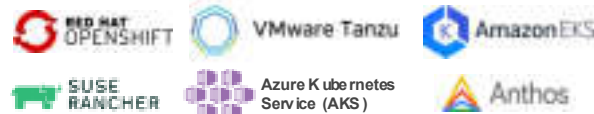
Tooling

APIs | Plugins | Modules | CSI Drivers

Independent software vendors



Kubernetes distributions



Cloud platforms



Silicon partners



Colocation partners



Best-in-class infrastructure

Block | File | Object



Storage



Server



Data Protection



Networking



Hyperconverged

DELLTechnologies

A P E X

Compute & HCI • Storage • Cyber & Data Protection • Cloud Platforms • HPC • Device • Custom Solutions

DELLTechnologies



Thank you

 Dell Technologies