

Dell Solutions for Microsoft Azure Local

Alanata TECH 8.4.2025

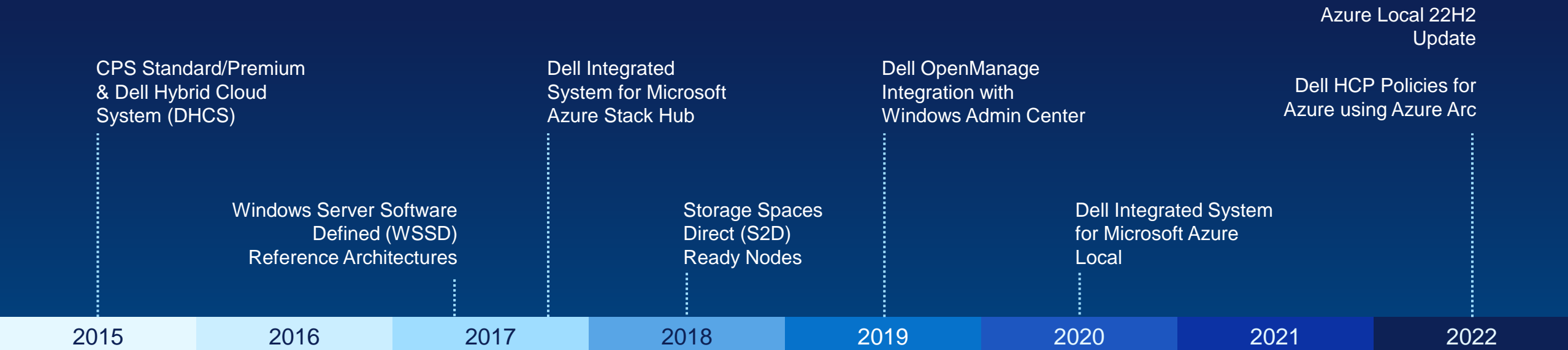
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DELLTechnologies



Dell has a history of innovation with Microsoft



Dell has a history of innovation with Microsoft Cont.



2023

Dell APEX Cloud Platform for
Microsoft Azure introduced



Dell Integrated System for Microsoft Azure
Local introduced on 16G platforms

2024



Introduction to Azure adaptive cloud

Operations, management, & security



Services for all workloads



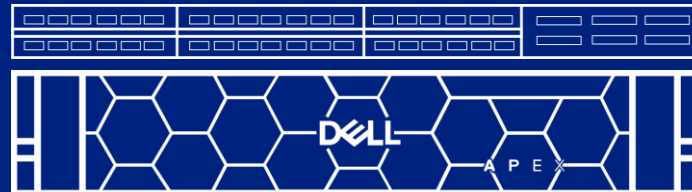
Intelligent data and AI



DevOps tools & experiences

Extend Azure platform to on-premises with **Azure Arc**

Modernize datacenters &
edge with **Azure Local**



Hybrid capabilities & benefits

Powerful integration with select Azure services

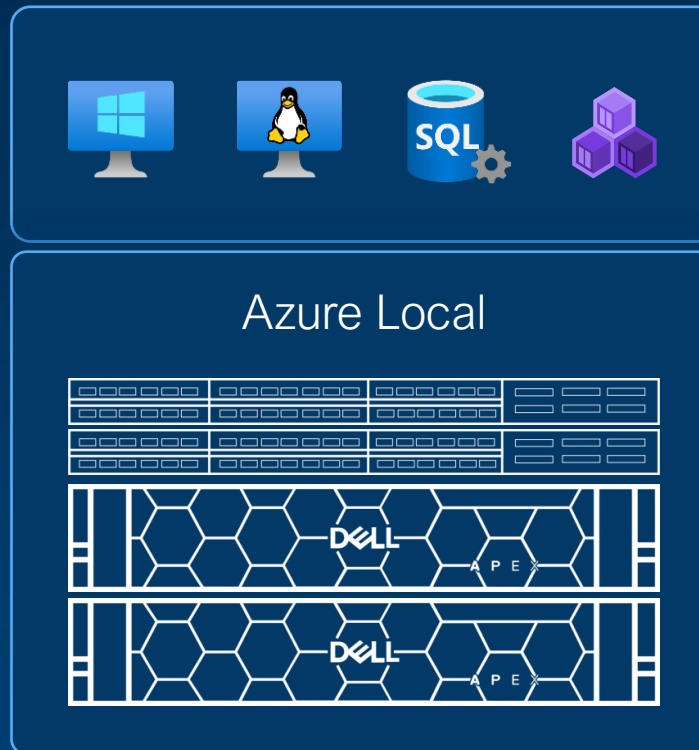
Azure Services

Azure Monitor
Insights on health,
performance, and usage

Azure Policy
Ensure compliance &
governance at scale

Microsoft Defender for Cloud
Unified infrastructure
security management

Azure Site Recovery
Replicate VMs to Azure
for Disaster Recovery



Azure Benefits

WS Datacenter: Azure Edition
Azure-only guest OS with latest
Windows Server innovations

Azure Policy: Guest Config
Audit or configure OS settings as code
across host & guests

Azure Update Manager
Free update management for
Arc-enabled Azure Local VMs

Extended Security Updates
Free security updates for End of Support
SQL Server & Windows Server VMs

Bring Azure app, data and AI services anywhere

with Azure Local and Azure Arc

Management services



Portal



Copilot



Graph



Identity



Defender



Monitor



Updates



Policy



Support



Billing

Cloud region

Distributed location



Enabled by
Azure Arc

Popular



Windows
and Linux



Azure Virtual
Desktop



Azure IoT
Operations

App services



App Service



Functions



Logic Apps

Data services



Arc-enabled
SQL Server



Managed
instance



PostgreSQL

AI services

NEW



Video
Indexer



Local AI search
(preview)



Machine
Learning

Foundational services



Virtual
machines



Kubernetes
services

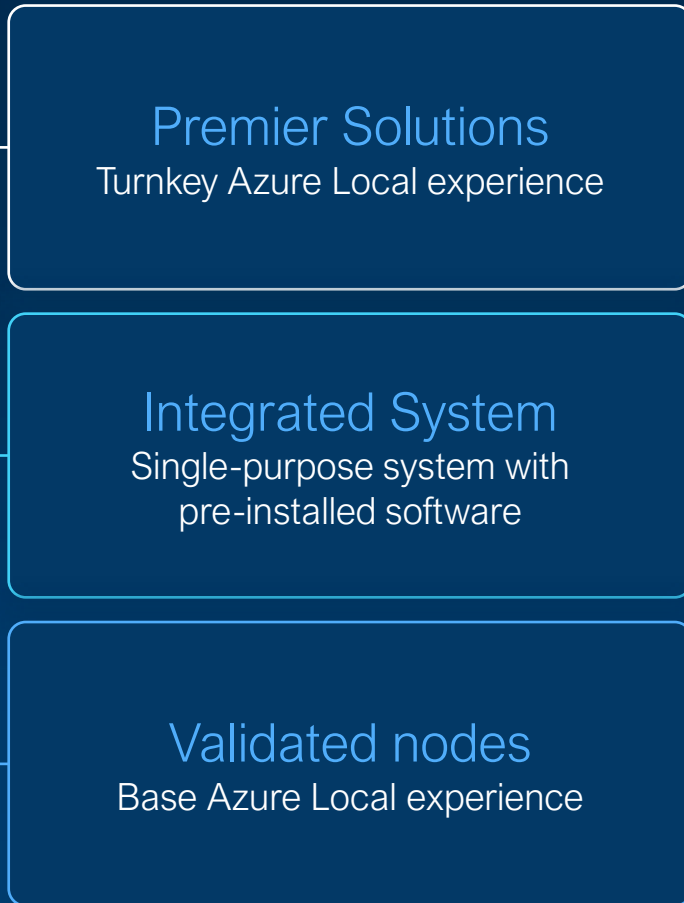


Logical
networks



Storage
paths

Solutions categories for Azure Local



Microsoft Azure experience
delivered on-premises

Increasing automation, integration, and validation mean faster time to value and increasing reliability



Azure Local solutions

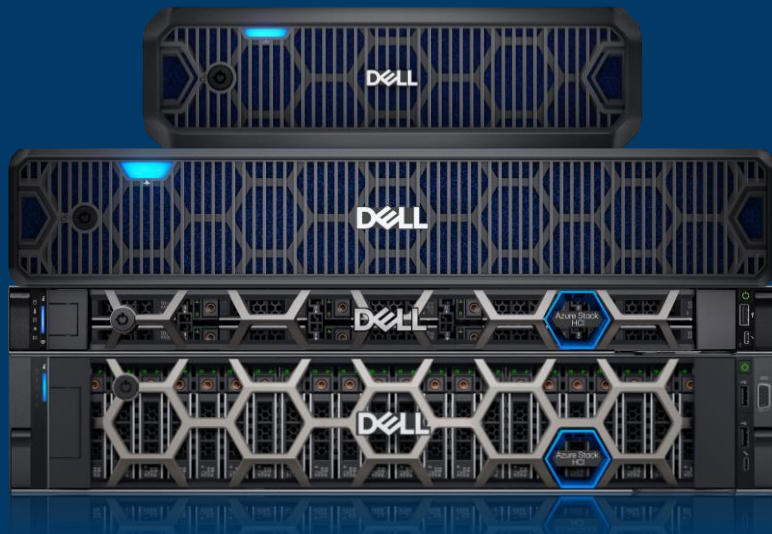
High-level comparison

| | Validated Nodes | Dell Integrated System for Microsoft Azure Local | Dell APEX Cloud Platform for Microsoft Azure |
|-----------------------------------|-----------------|---|---|
| Validation | Once | 4 times per year | Continuous |
| Lifecycle management ¹ | Manual | Better | Best |
| End-to-end deployment automation | ✗ | ✗ | ✓ |
| Enhanced, automated expansion | ✗ | ✗ | ✓ |
| External storage support | ✗ | ✗ | ✓ |
| Azure Monitor Insights workbooks | ✗ | ✗ | ✓ |
| Azure Local pre-installed | ✗ | ✓ | ✓ |
| Secure by default | ✗ | ✓ | ✓ |
| Full-stack vendor support | ✗ | ✓ | ✓ |
| Integrated support queues | ✗ | ✓ | ✓ |
| Proactive call-home support | ✗ | ✓ | ✓ |

¹Validated node LCM is manual, with separate software and firmware/driver updates. Integrated systems require sideloading of drivers/firmware before full-stack update. Premier solutions orchestrate full-stack updates without additional steps.

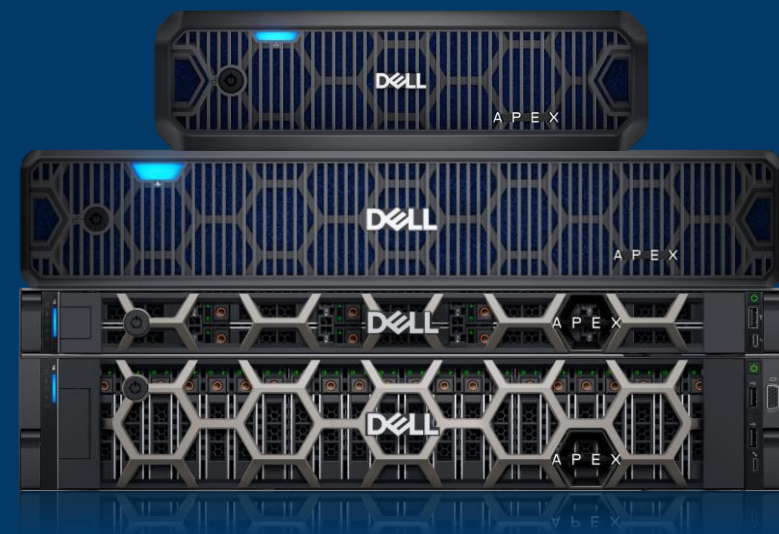
Dell solutions for Azure Local

INTEGRATED SYSTEM



Dell Integrated System
for Microsoft Azure Local¹

PREMIER SOLUTION



Dell APEX Cloud Platform
for Microsoft Azure

¹ AX-660 (1U) available Q2 CY2025

Azure Local

replaces Azure Stack HCI



Consistent software platform, Portal, and APIs



Lower-spec, lower-cost edge servers

Simpler, smaller hardware for light computing requirements.

NEW PREVIEW



Connected servers (formerly Azure Stack HCI)

Dell Integrated System for Microsoft Azure Local
Dell APEX Cloud Platform for Microsoft Azure

✓ **GA**



Disconnected operations

Meet strict data residency regulations with a permanently disconnected option.

NEW PREVIEW

Existing customers of Azure Stack HCI will transition seamlessly to Azure Local with the next software update.

Azure Local

Disconnected operations















Satisfy regulatory requirements by operating permanently disconnected from the cloud

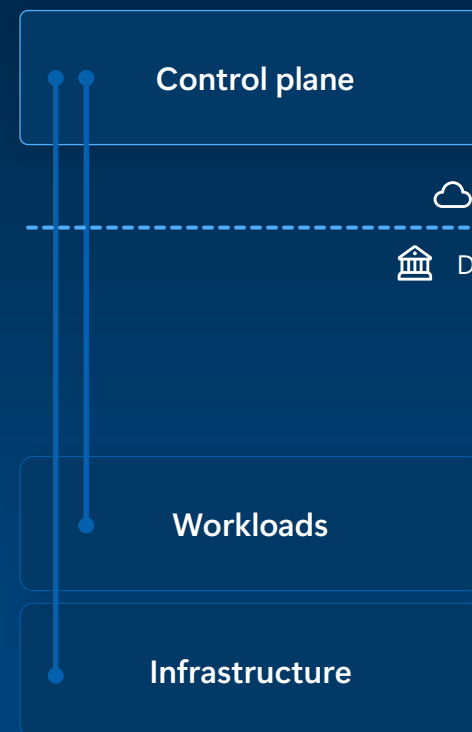


Host backend Azure resource manager, portal, and services in local appliance VM

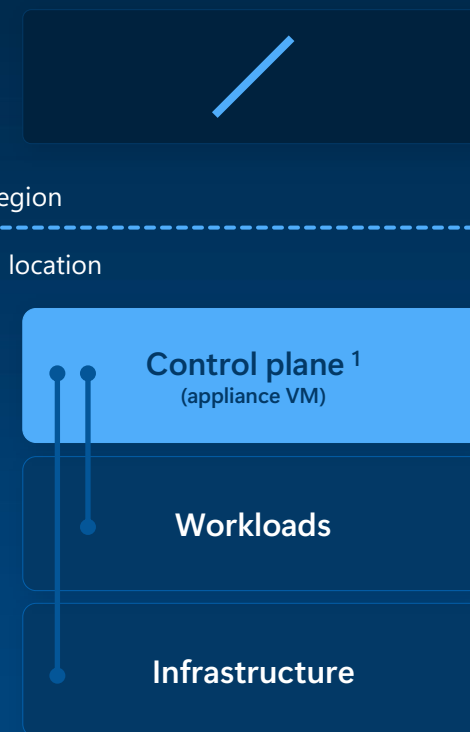
Subset of services available:

| | | | | | |
|---|--|--|---|---|---|
|  Portal |  ARM |  Local |  Machines |  Kubernetes |  Registries |
|  Key Vaults |  Policy ² |  Copilot |  Defender |  AVD |  Others |

Azure Local (connected)



Azure Local disconnected

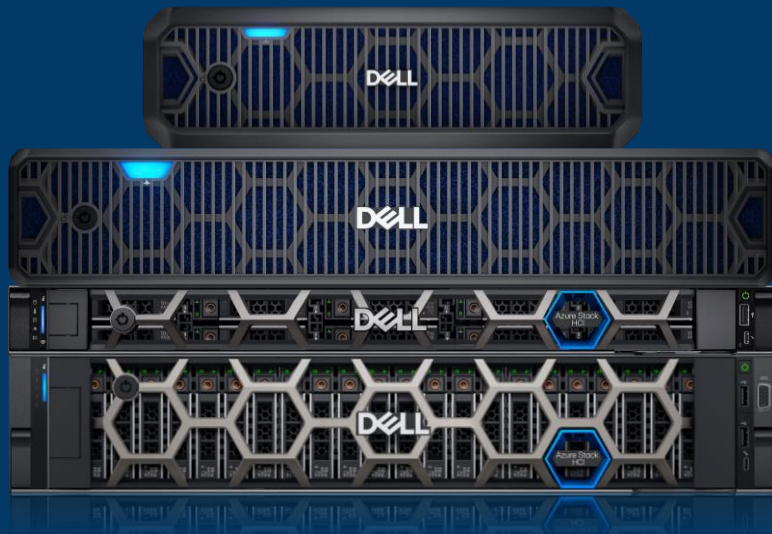


¹ Available only to customers who prequalify based on industry, use case, and other considerations

² Partial functionality

Dell Integrated System for Microsoft Azure Local

INTEGRATED SYSTEM



Dell Integrated System
for Microsoft Azure Local¹

Reduced time to market

Preconfigured, factory-ready solution

Ease deployment and management

Microsoft-native experiences with Dell integration

Reliable upgrades

infrastructure compatibility checks and preparation for software updates and infrastructure upgrades

Regular infrastructure assessment

Validation 4 times per year

Single source procurement and support

Hardware and software backed by Dell Technologies experts

¹ AX-660 (1U) available Q2 CY2025

Dell Integrated System for Microsoft Azure Local Management experiences

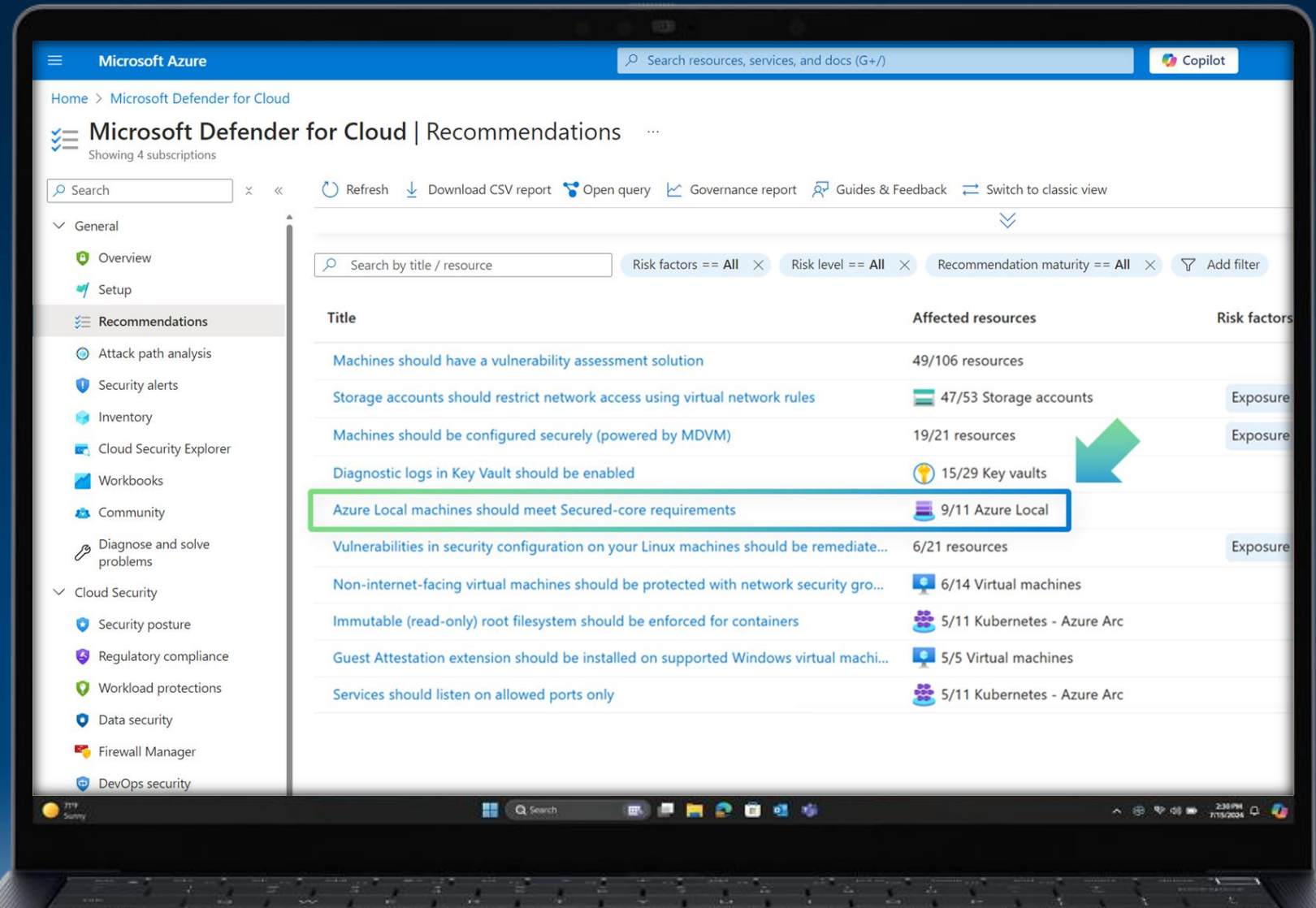
Microsoft-native deployment
Cloud-driven deployment experience
for distributed infrastructure

Granular local management
Dell OpenManage Integration
for Windows Admin Center

Centralized updates
Orchestrated, automated, multi-cluster
lifecycle management from the Azure portal

Granular visibility
Multi-cluster telemetry and insights
through Azure Monitor

Security recommendations
Enhanced security posture with
Microsoft Defender for Cloud



Dell APEX Cloud Platform for Microsoft Azure

Collaboratively engineered with Microsoft
Delivering the ultimate platform for Azure Local

First Premier Solution

Raising the bar for Azure hybrid solutions with a turnkey, purpose-built system powered by proven software IP

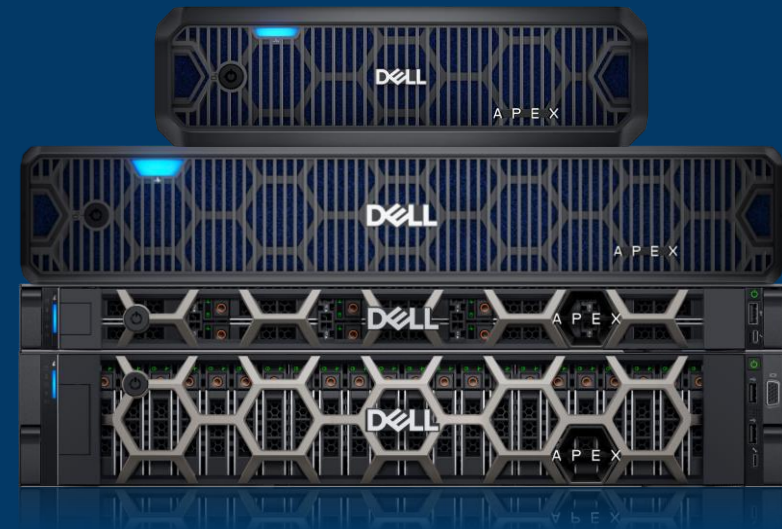
Comprehensive automation

Accelerated deployment, simplified, reliable ongoing operations, increasing administrator effectiveness

Continuous solution validation

Automated CI/CD pipelines battle-test each release, resulting in higher reliability, reduced testing costs and faster updates

PREMIER SOLUTION



Dell APEX Cloud Platform
for Microsoft Azure

Dell APEX Cloud Platform for Microsoft Azure

Unique management experiences

End-to-end Dell experience

From OS provisioning through
to instance deployment

Automate, standardize

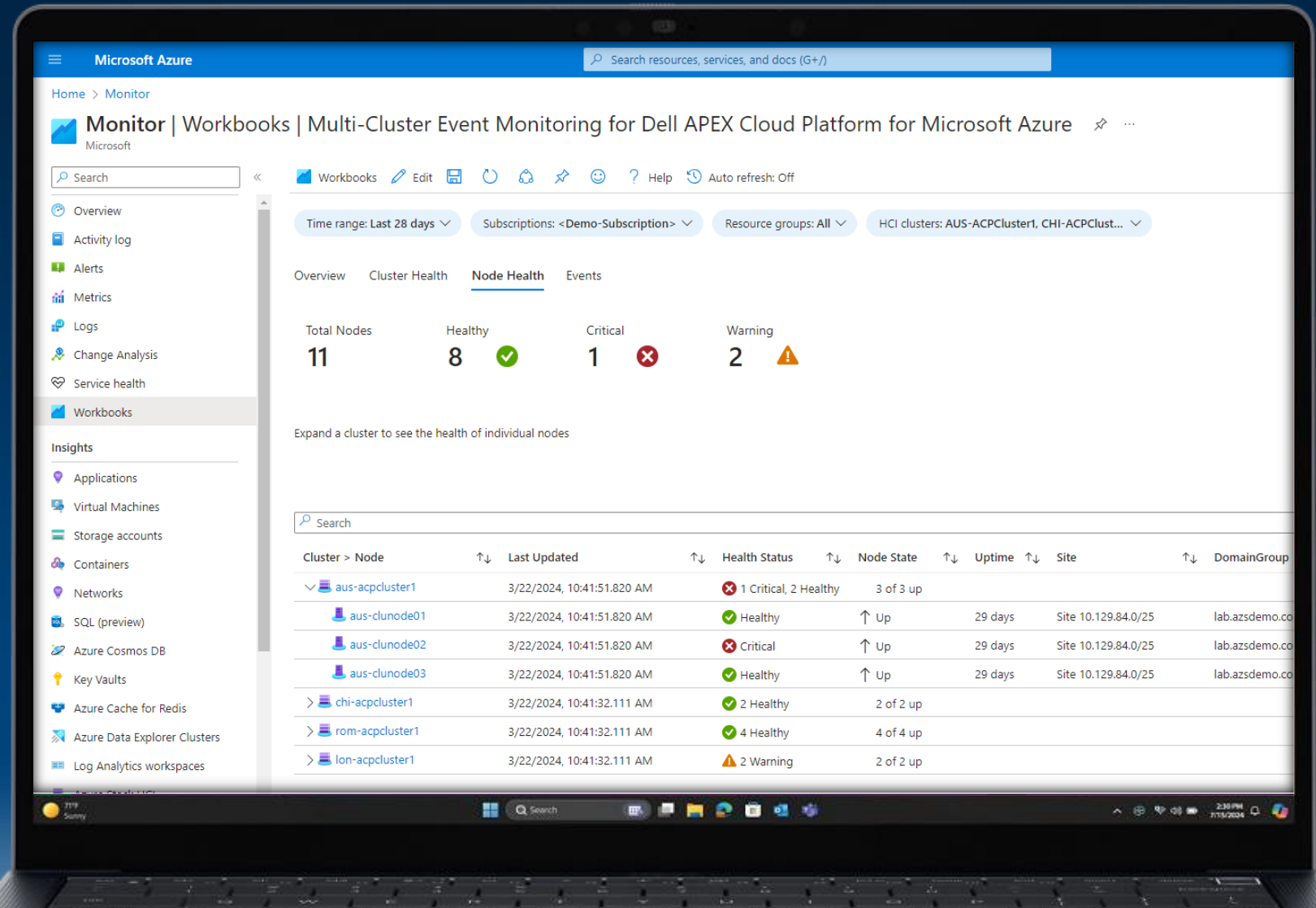
JSON configuration blueprints and
REST APIs for automation at scale

Granular local management

Dell APEX Cloud Platform Manager
Windows Admin Center extension

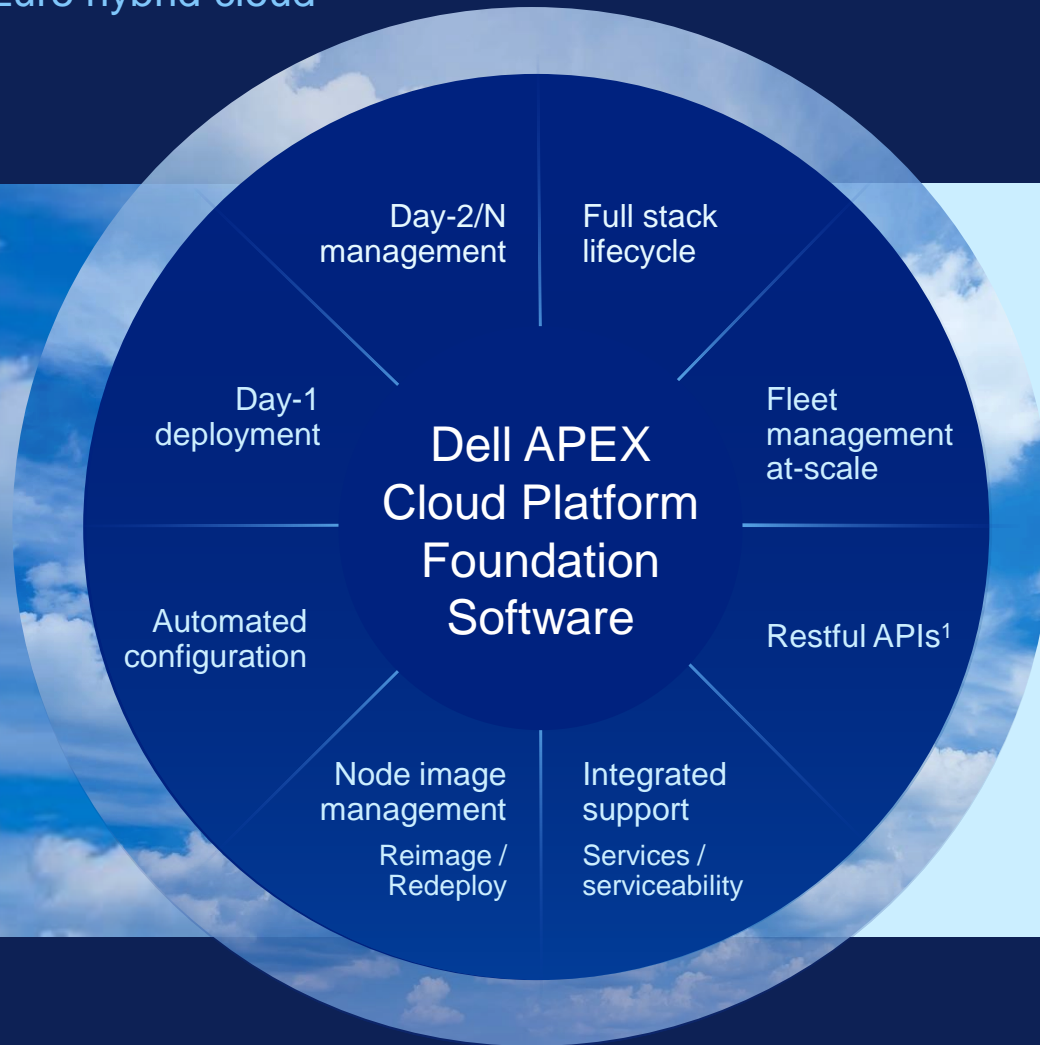
Event monitoring

Visualize hardware-level event data
across instances in Azure Monitor



APEX Cloud Platform Foundation Software

Simplify Azure hybrid cloud



**Accelerate
time to value**

88% Fewer
deployment steps²

50% improvement
in administrator
effectiveness³

- Seamless automation through single interface
- Familiar tools to bridge the skills gap

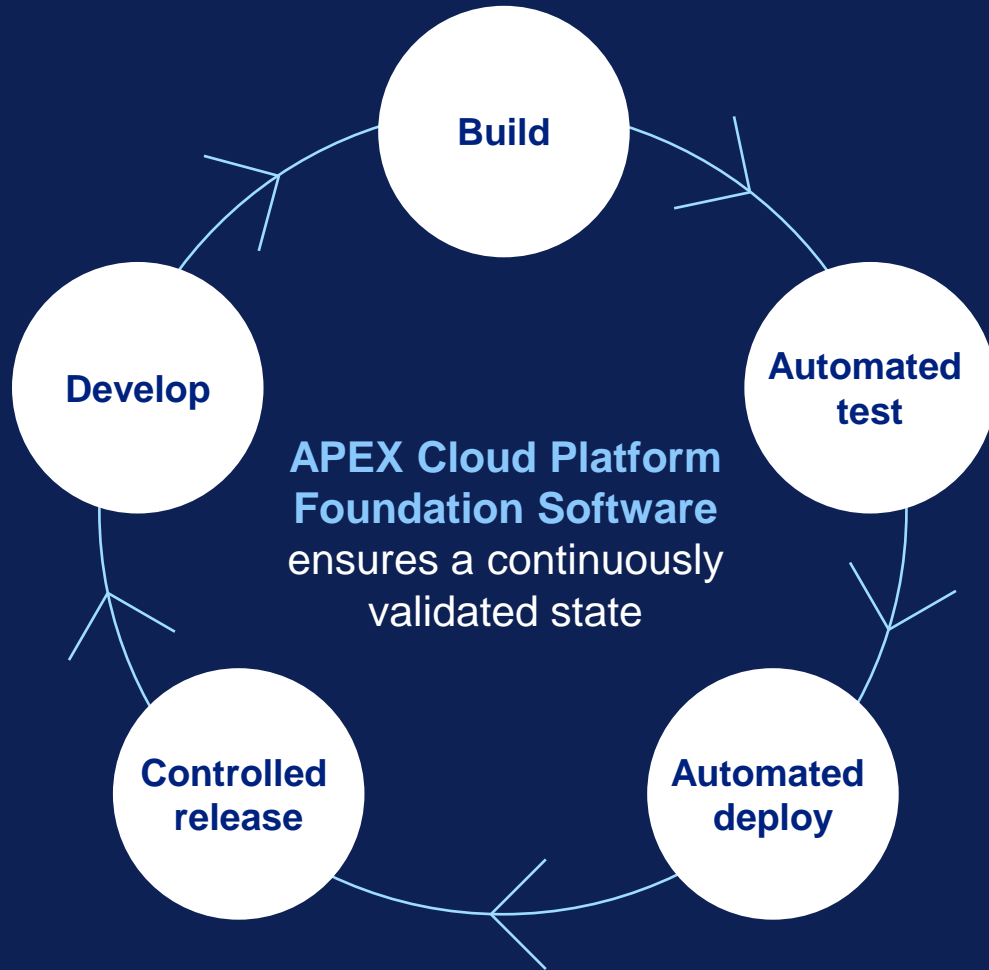
¹ Early preview available for Day 1 RESTful APIs

² Compared to manual deployment. Based on internal analysis. Results may vary. September 2023

³ ESG Economic Validation, sponsored by Dell Technologies and Microsoft "Analyzing the Economic Advantages of APEX Cloud Platform for Azure." May 2024. Actual results may vary.

Rapid availability of updates

Dell drives continuous collaboration with Microsoft



480,000

test hours
for every major release

85%

lower costs
of testing since deploying Dell APEX Cloud Platform for Microsoft¹

Updates available in just four hours²

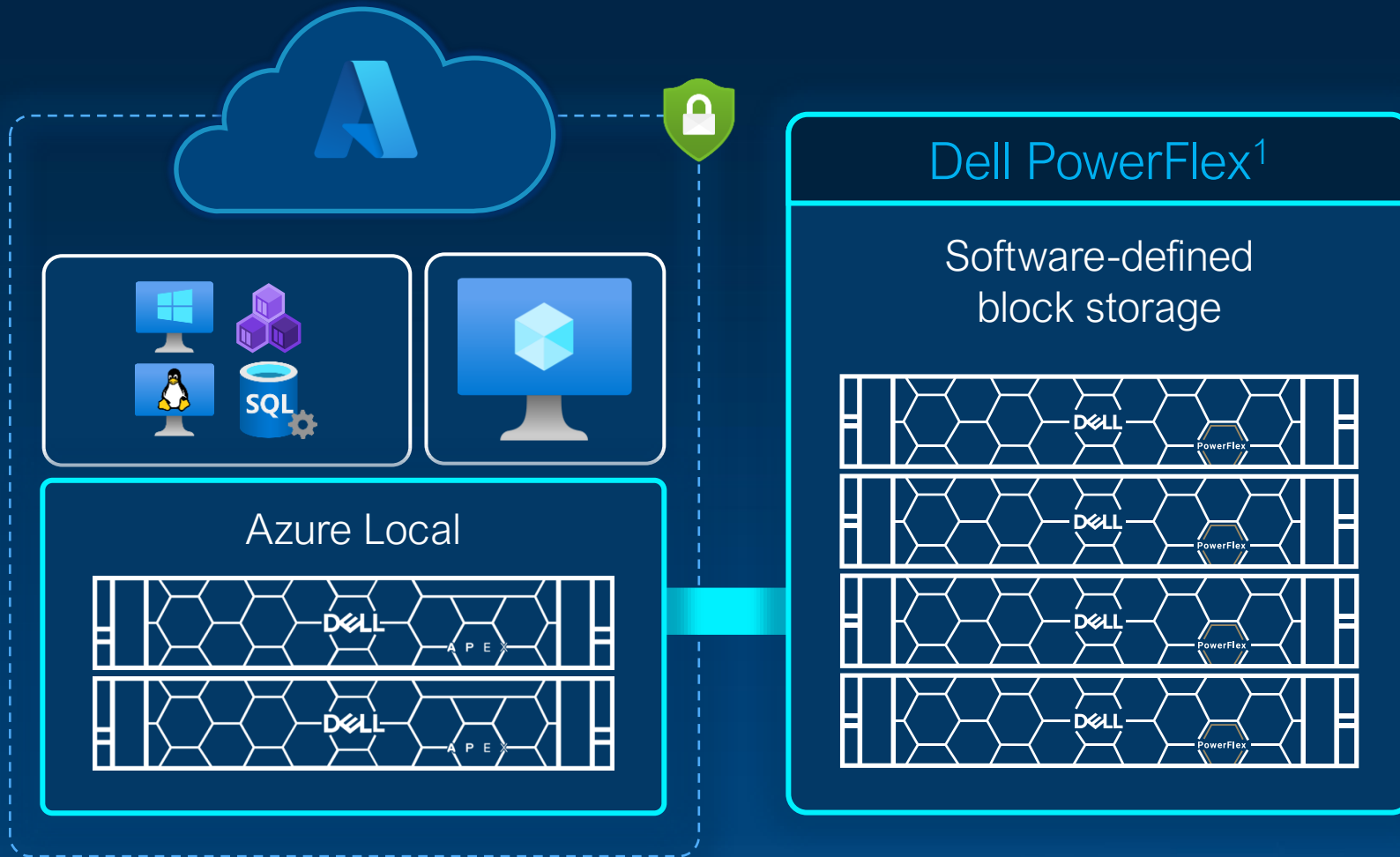
- Automated, non-disruptive full-stack upgrades
- Sequencing eliminates disruption and ensures predictable upgrades
- Keep up with the latest updates with continuously validated state assurance
- Collaboratively tested and validated using mature CI/CD practices
- Single interface for simplified management experience

¹ ESG Economic Validation, sponsored by Dell Technologies and Microsoft "Analyzing the Economic Advantages of APEX Cloud Platform for Azure." May 2024. Actual results may vary.

² Based on continuous joint CI/CD testing with Microsoft. Results may vary. September 2023

Dell APEX Cloud Platform for Microsoft Azure

Flexibility to scale with Dell PowerFlex



Independent scale

Grow compute and storage separately across one, or multiple clusters

Support diverse workloads

Meet the performance needs of mission-critical databases and more

Exceptional availability

99.9999% availability to minimize downtime for key apps and workloads

Modular scale-out architecture

Seamlessly expand as data growth accelerates

¹Customers will purchase a deployment contract for the APEX Cloud Platform and another for PowerFlex and activate both to deploy APEX Cloud Platform and PowerFlex. The customer is responsible for establishing the connection between the APEX Cloud Platform and PowerFlex, per the Dell Validated Design guides.

Built on latest generation PowerEdge



Purpose-built

Scale AI, Edge &
Performance Anywhere



Intelligent

Accomplish more with
Automation & Improve
Operational Efficiencies



Cyber resilient

Accelerate Zero Trust
Adoption



Sustainable

Maximize power
efficient performance

Unleash your AI advantage with PowerEdge

Up to **10x faster**¹
model generation

Up to **4.5x faster**² than
prior generation GPU

Up to **50% more**
cores

Up to **121%**
Increased performance

Industry's most comprehensive accelerator-enabled Server Portfolio

¹ Forrester. Dell PowerEdge servers with NVIDIA GPUs boost productivity TEI Spotlight, August 2022

² NVIDIA. Full-Stack Innovation Fuels Highest **MLPerf** Inference 2.1 Results for NVIDIA, Sep 2022, [URL](#).

Azure Local solutions

Flexible, factory-ready configurations for distributed locations



CPU-dense nodes
in a small 1U footprint

AX¹ / MC-660



Balanced CPU/Storage for
demanding workloads

AX / MC-760



Flexible, ruggedized
multi-node edge solution

AX / MC-4000x/45x0x

Form factor:

1U rackmount

2U rackmount

2U rack or flex mount,
ruggedized multi-node chassis

OS Support:

AX: Azure Local & Windows Server | MC: Azure Local

Use cases:

Compute-dense edge, ROBO and core
use cases with moderate storage capacity

High performance app consolidation
with balance of performance and capacity

Compute optimized for space-constrained,
challenging edge and ROBO locations

CPU cores:

Intel 5th Gen Xeon Scalable - up to 128 per server

Intel 3rd Gen Xeon D - up to 20 per server

Memory:

Up to 8TB

Up to 512GB

Storage:

NVMe | SSD

NVMe | SSD | Hybrid

NVMe

Nvidia GPU²:

2 x A2 | L4

6 x A2 | 4 x L4
2 x A16 | A30 | A40 | L40 | L40S

2 x A2 | L4
1 x A30

¹ AX-660 (1U) available Q2 CY2025

² GPU support varies between AX and MC nodes, refer to spec sheets for confirmation: [AX](#) | [MC](#)

Backed by Dell services experts

Single source of solution-level support for Microsoft solutions from Dell. Includes collaborative support for Microsoft Azure Local if required.

ProSupport

Next Business Day or
4-hour response

Minimum required: ProSupport
Next Business Day

Comprehensive 24x7 proactive
and predictive support for Dell
hardware and software

ProSupport Plus

4-hour with Mission Critical
support

Adds Mission Critical
support, including a 6-hour
repair objective for hardware
issues and a Service
Account Manager

Benefits of support services¹



62%

Maximized workload
availability



58%

Increased IT staff
productivity



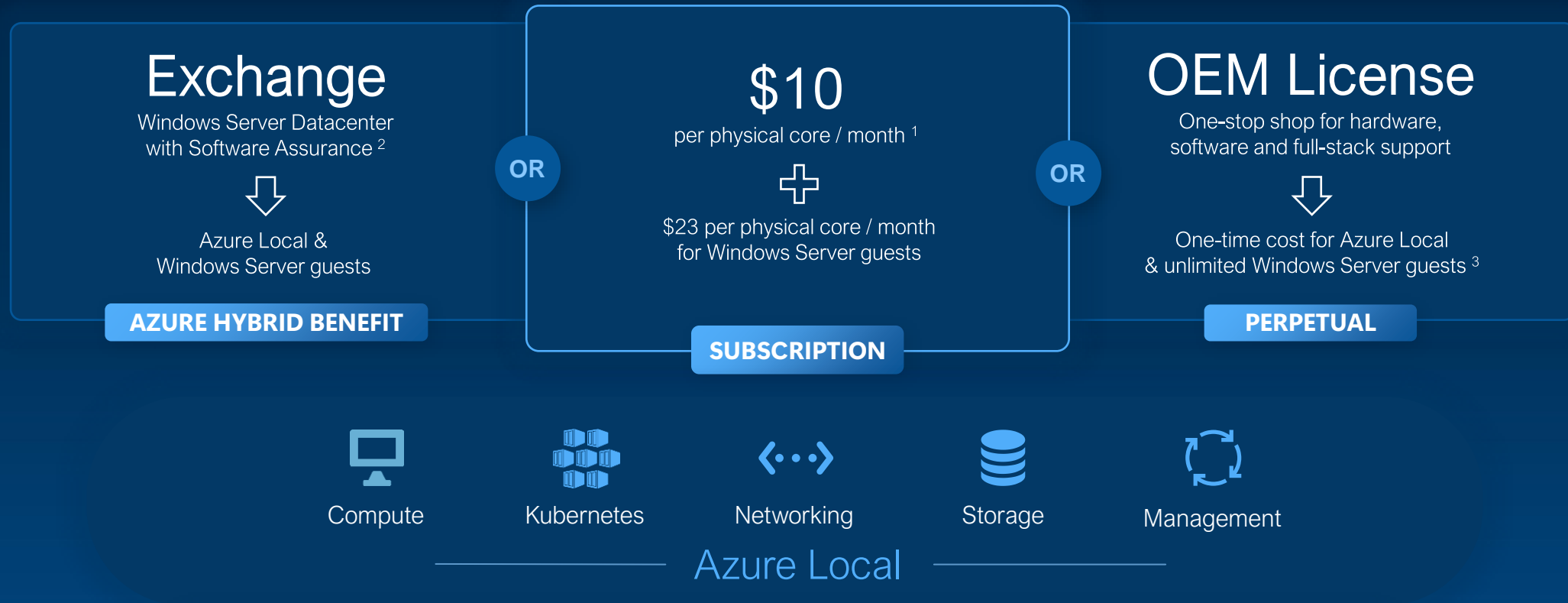
54%

Increased employee
satisfaction with IT
and support

¹Source: A commissioned study conducted by Forrester Consulting on behalf of Dell Technologies Services, "IT Leaders Need IT Services To Achieve Business Outcomes", March 2023

Azure Local

Packaging and pricing options



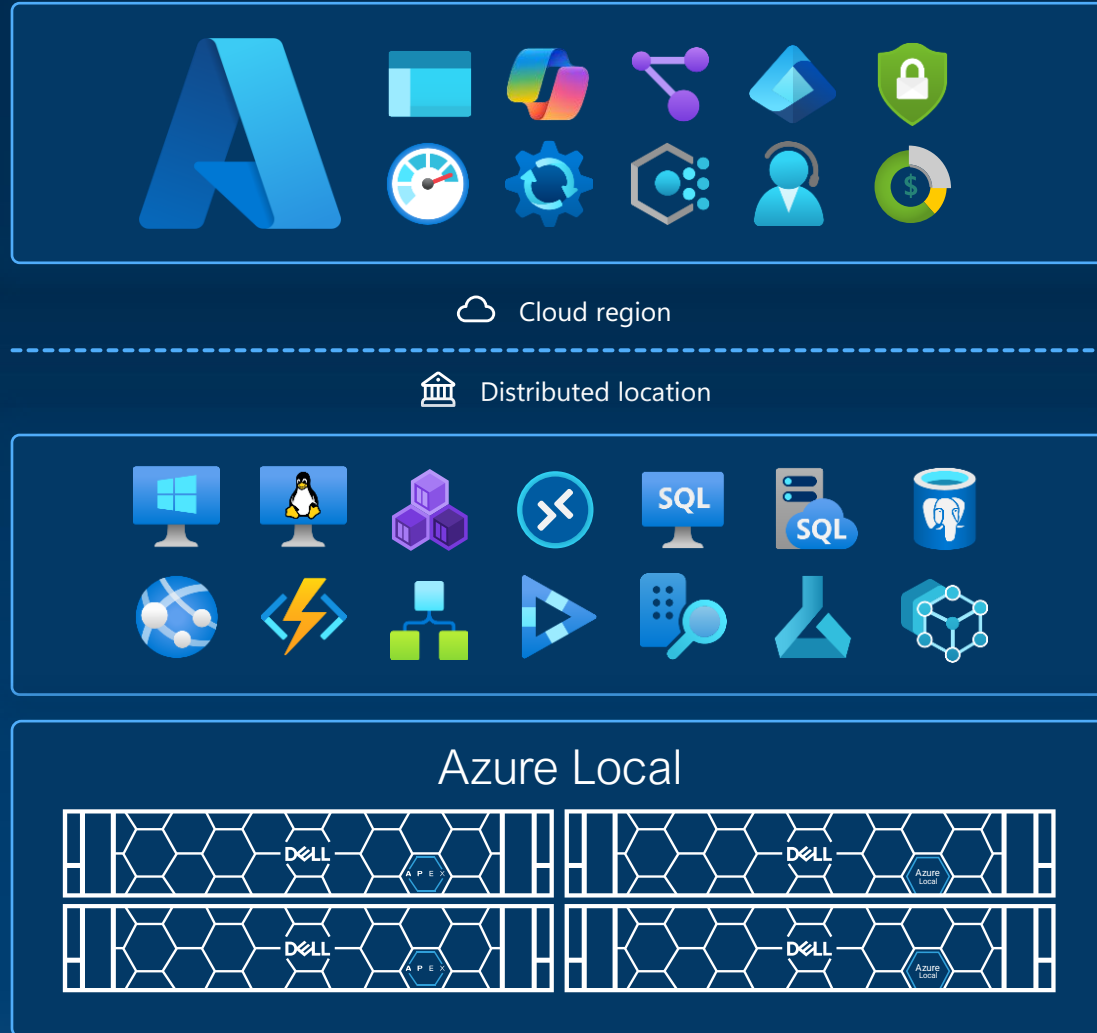
Dell hardware and management solutions available as CAPEX or OPEX

¹ \$10 and \$23 (USD) charges assumes systems in operation for 730 hours per month

² Requires VL with active Software Assurance or a CSP subscription

³ Only available at time of hardware purchase

Summary



Azure Local

Run virtual machines, containers, and select Azure services on a hyperconverged, distributed infrastructure solution in connected and disconnected environments.

Dell Integrated System for Azure Local

Preconfigured, tightly integrated hyperconverged infrastructure, certified and backed by Dell's engineering expertise.

Dell APEX Cloud Platform for Microsoft Azure

Collaboratively engineered, continuously validated Premier Solution, delivering the highest levels of automation and efficiency in a turnkey experience.

Industry-first disaggregated storage

Flexible, independent scaling of compute and storage, delivering the highest levels of availability and performance for your mission-critical workloads.

