Microsoft Global Network

Worlds Largest Hyperscale Cloud and Network
And Security Operations

Datacenter
Edge
Network

70 Azure regions

360k+ KMs of fiber

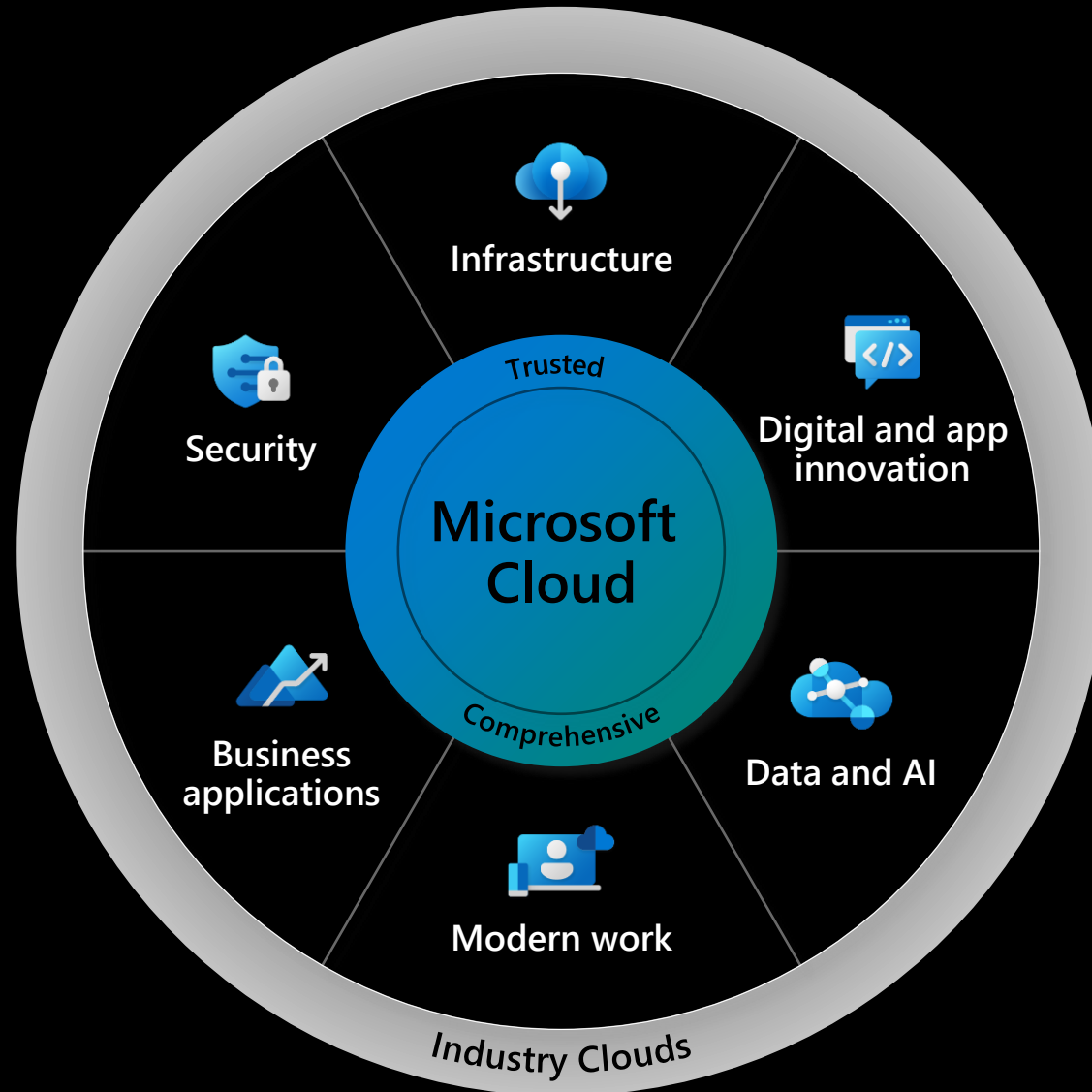1Pbps+ WAN Capacity

185T Peering Capacity

20k+ Peering Connections

Herbert Dr

Herbert Dr

Herbert Dr

Herbert Dr

Herbert Dr

100 m 30 m

Feedback

Microsoft Cloud

Azure Solution Categories

- AI + Machine Learning
- Analytics
- Blockchain
- Compute
- Containers
- Databases

- Databases
- DevOps
- Identity
- Integration
- Internet of Things
- Management and Governance

- Media
- Mixed Reality
- Mobile
- Networking
- Security
- Storage

Azure Platform Services

Security Services

- Security Center
- Portal
- Azure Active Directory
- Azure AD B2C
- Multi-Factor Authentication
- Automation
- Scheduler
- Key Vault
- Azure Marketplace
- VM Image Gallery & VM Depot

Media & CDN

- Media Services
- Media Analytics
- Content Delivery Network

Integration

- API Management
- BizTalk Services
- Logic Apps
- Service Bus

Compute Services

- Container Service
- VM Scale Sets
- Batch
- Dev/Test Lab

Application Platforms

- Web Apps
- Mobile Apps
- API Apps
- Cloud Services
- Service Fabric
- Notification Hubs
- Functions

Developer Services

- Visual Studio
- Mobile Engagement
- VS Team Services
- Xamarin
- Application Insights
- HockeyApp

Data Management

- SQL Database
- SQL Data Warehouse
- Cosmos DB
- SQL Server Stretch Database
- Redis Cache
- Storage Tables
- Azure Search

Intelligence

- Cognitive Services
- Bot Framework
- Generative AI

Analytics & IoT

- HDInsight
- Machine Learning
- Stream Analytics
- Data Catalog
- Data Lake Analytics Service
- Data Lake Store
- IoT Hub
- Event Hubs
- Data Factory
- Power BI Embedded

Management Services

- Azure AD Health Monitoring
- AD Privileged Identity Management
- Domain Services
- Backup
- Operational Analytics
- Import/Export
- Azure Site Recovery
- StorSimple

Azure Infrastructure Services

Compute

- Virtual Machines
- Containers

Storage

- Blob
- Queues
- Files
- Disks

Networking

- Virtual Network
- Load Balancer
- DNS
- Express Route
- Traffic Manager
- VPN Gateway
- App Gateway

Datacenter Infrastructure (70+ Regions)

Microsoft's Unmatched Cyber Resilience Safeguarding the Public Sector's Digital Ecosystem
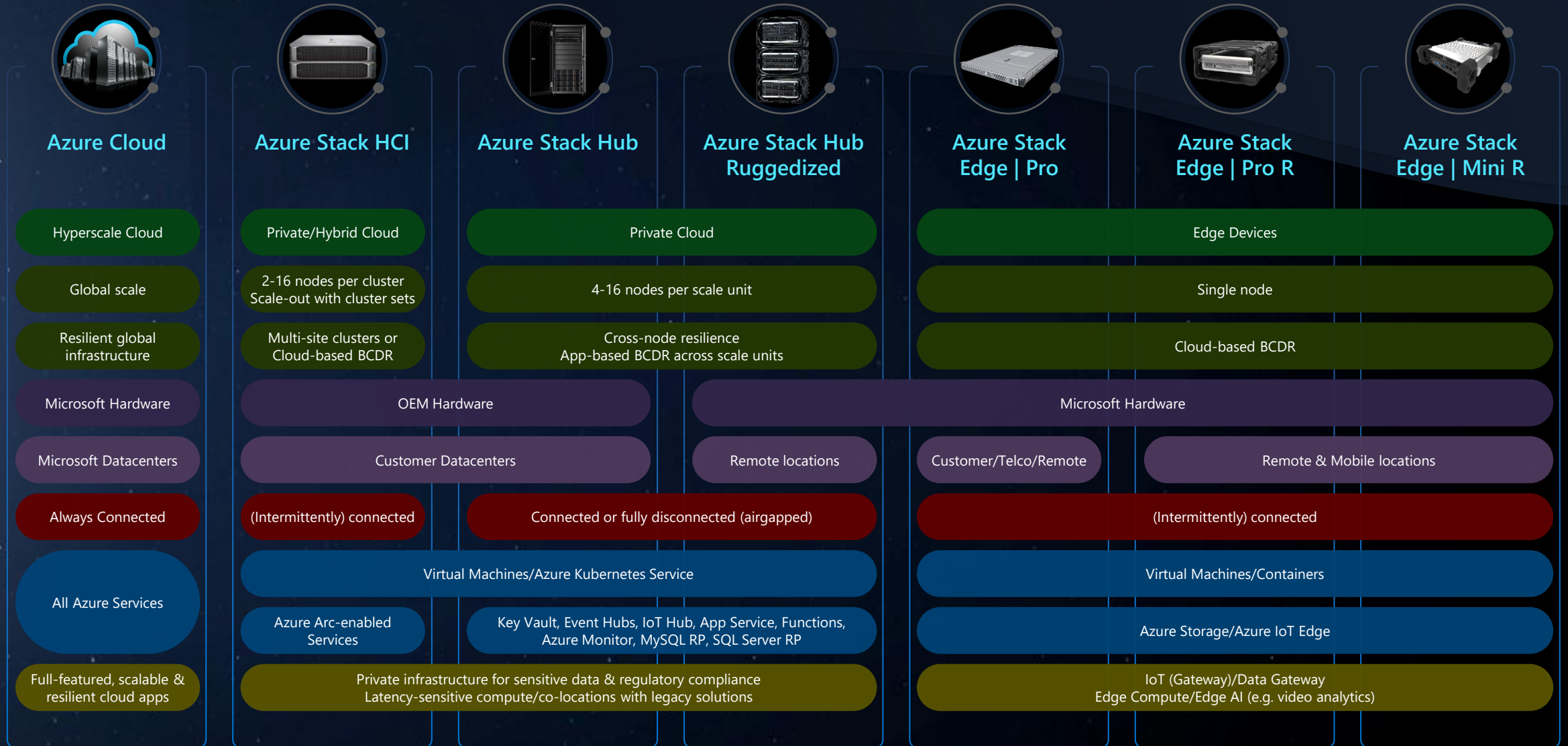
World's Largest Security provider

750 Billion **Security Signals/sec. analyzed using AI**

- Over 10,000 Security Experts across the Globe

- Over 15,000 Security Partners

- Over 300+ threat actors monitored 24/7 around the world

- Over 100,000 malicious domains removed in the last year

- Defending over 4,000 attacks per second

- 1,700 DDoS attacks mitigated/day

Hyperscale to Tactical Edge with Variety of ConOps

Azure Cloud	Azure Stack HCI	Azure Stack Hub	Azure Stack Hub Ruggedized	Azure Stack Edge | Pro	Azure Stack Edge | Pro R	Azure Stack Edge | Mini R
Hyperscale Cloud	Private/Hybrid Cloud	Private Cloud		Edge Devices		
Global scale	2-16 nodes per cluster Scale-out with cluster sets	4-16 nodes per scale unit		Single node		
Resilient global infrastructure	Multi-site clusters or Cloud-based BCDR	Cross-node resilience App-based BCDR across scale units		Cloud-based BCDR		
Microsoft Hardware	OEM Hardware		Microsoft Hardware			
Microsoft Datacenters	Customer Datacenters		Remote locations	Customer/Telco/Remote	Remote & Mobile locations	
Always Connected	(Intermittently) connected	Connected or fully disconnected (airgapped)		(Intermittently) connected		
All Azure Services	Virtual Machines/Azure Kubernetes Service			Virtual Machines/Containers		
	Azure Arc-enabled Services	Key Vault, Event Hubs, IoT Hub, App Service, Functions, Azure Monitor, MySQL RP, SQL Server RP		Azure Storage/Azure IoT Edge		
Full-featured, scalable & resilient cloud apps	Private infrastructure for sensitive data & regulatory compliance Latency-sensitive compute/co-locations with legacy solutions			IoT (Gateway)/Data Gateway Edge Compute/Edge AI (e.g. video analytics)		

Azure Cloud environments across all levels of authorization

CLOUD ENVIRONMENT	Commercial	Government	Secret	Top secret
AUTHORIZATION	FedRAMP High Canada PBMM CCCS TD4 DoD IL2 HIPAA	FedRAMP High DoD IL4, DoD IL5 CJIS, IRS 1075, ITAR, DFARS, CMMC, HIPAA, StateRAMP	DoD IL6 ICD 503, ICD 705 Joint Special Access Program (SAP) Implementation Guide (JSIG) PL3	ICD 503, ICD 705 Joint Special Access Program (SAP) Implementation Guide (JSIG) PL3
INFRASTRUCTURE	70+ Regions 2 Canadian Regions 35 countries	5 Regions (2 regions DoD exclusive) >150 miles apart	3 Regions >150 miles apart	2 Regions >150 miles apart

Deployment

Platform Landing Zone
- Networks and connectivity
- Identity
- Management
- GoC PBMM ESLZ

Application Landing Zone
- Predefined
- Automated
- Workload specific

SaaS
- Managed capability
- SAP/RISE
- M365

CSEC/CCCS Assessment
- PBMM ESLZ
- SAP/RISE on Azure
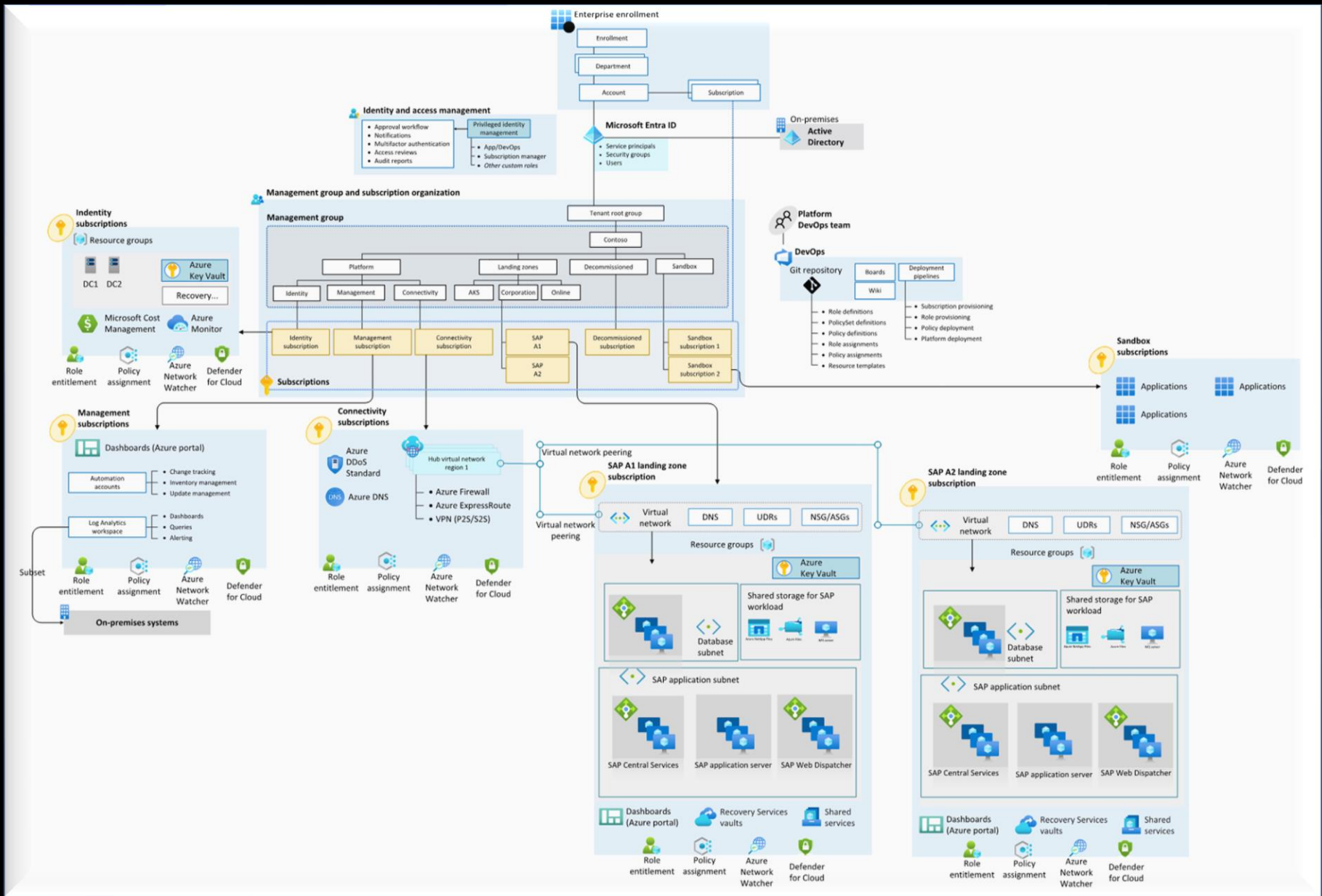
Microsoft partner ecosystem
Built on partnerships not competition

Microsoft Partner Ecosystem
- Independent Software Vendors
- System Integrators
- Managed Service Providers
- Cloud Security Partners
- Azure Solution Partners
- Business Applications Solution Partners
- Specialist Partners

- Over 15,000 offerings in Azure Marketplace

The Microsoft and SAP partnership
Move with confidence

30

Year partnership

Extensive customer overlap, serving most of today's largest enterprises*

SAP runs on Microsoft Azure and Microsoft runs on SAP

Ongoing global investments and an aligned ecosystem

RISE WITH SAP

Microsoft Adopted RISE with SAP to Drive Business Innovation**

"The case for digital transformation has never been more urgent. By bringing together the power of Azure and Teams with SAP's solutions, we will help more organizations harness the power of the cloud so they can more quickly adapt and innovate going forward"

Satya Nadella
CEO of Microsoft

"New ways of working, collaborating and interacting completely transform how we operate. By integrating Microsoft Teams across our solution portfolio, we will bring collaboration to the next level, jointly determining the future of work and enabling the frictionless enterprise"

Christian Klein
CEO of SAP SE

Microsoft   **SAP**

*Sources include SAP and Microsoft benchmarking and customer reference points
**Microsoft is the first public cloud provider to adopt RISE with SAP internally to transform some of its large SAP ERP deployments

13

Drivers for organizations with outdated SAP systems

Increased maintenance cost

Heightened security risk
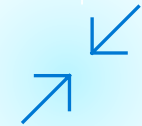
Constrained growth and innovation

Bringing AI to your SAP workloads with the Microsoft Cloud

Intelligent insights delivered faster

Create ideas and content faster, complete time-consuming tasks, and get AI-driven insights by integrating Azure AI services with your SAP data.

Microsoft solutions:
Microsoft Fabric, Azure Open AI Service

Enhanced productivity and collaboration

Enhance employee productivity by integrating and giving access to SAP data in Microsoft 365, and augment with Microsoft AI

Microsoft solutions:
Teams, Outlook, Excel, Word PowerPoint and M365 Copilot

Accelerated automation and innovation

Simplify business processes with AI-driven development and automation using your SAP data

Microsoft solutions:
Power Apps, Power Automate, Power Virtual Agent

Accelerating SAP developer productivity

Complete work faster with AI generated code and easily integrate AI capabilities into SAP ABAP applications

Microsoft solutions:
GitHub Copilot, Microsoft AI SDK for SAP

Unmatched security and compliance

Detect hidden patterns, harden defenses and respond to incidents in your SAP systems faster

Microsoft solutions :
Microsoft Sentinel, Security Copilot

Maximize
the value of
SAP on the
Microsoft Cloud

1 — Accelerate savings and optimization

2 — Secure your SAP and non-SAP environments

3 — Gain intelligent AI insights for real-time decision making

4 — Enhance productivity and accelerate innovation with the leading AI platform

Deploy and manage in one place

with Azure Center for SAP solutions

Azure Center for SAP solutions

Products and services
Fully integrated first-party Azure services that are fully supported, always up-to-date, and incorporate the latest cloud innovations

Tools
Ongoing integration with Products

Frameworks
Governance and guidance frameworks are updated periodically as required

Azure Virtual Instances for SAP solutions:
Bringing SAP workload awareness to Azure

SID

(A)SCS | **App Instance** | **Database**

Compute

Storage

Networking

SAP Deployment Automation Framework (open source)	Azure Monitor for SAP solutions	Azure Advisor recommendations via Quality Checks	Azure Cost Management + Billing	Azure Backup for SAP	Microsoft Sentinel solution for SAP
Available	Available	Available	Available	ACSS Integration preview	Available standalone

Contextual integration with virtual instance

Quality Checks for SAP workloads on Azure

Open source

Azure Inventory Checks for SAP

Azure workbook

Enterprise scale for SAP on Azure Assessment

Well-Architected Framework for SAP on Azure

Deployment Checklist for SAP on Azure

Speed end-to-end deployment
with SAP Landing Zone Accelerator

Accelerated

Helps define a strategic design path and target technical state

Guides review of critical design considerations and recommendations

Expedites a modular production-grade SAP deployment by building on the Azure Enterprise Landing Zone

Automation helps you get to production faster
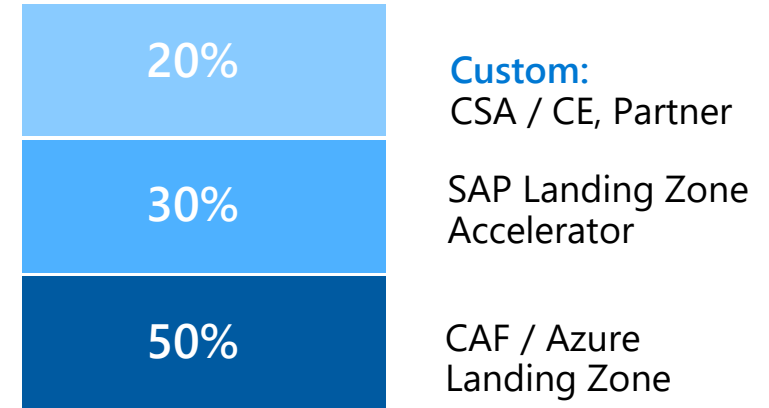
Scalable, Flexible

Sustainable and scalable foundation helps you meet SAP performance requirements while allowing customization based on business requirements

Trusted Technical Guidance

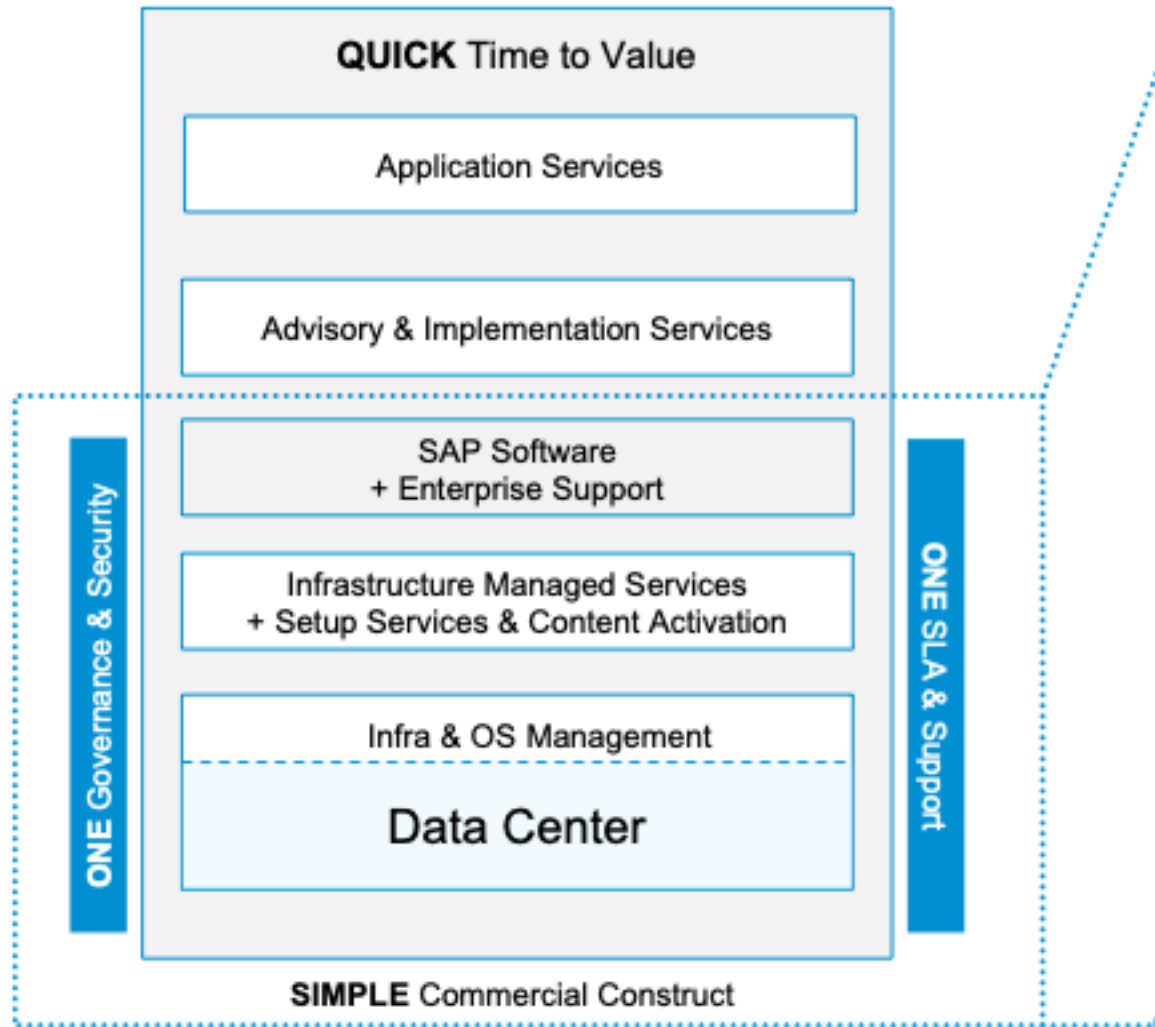Tap into Microsoft's technical and prescriptive guidance from experts

Access reference architectures and reference implementation to automate and scale SAP workloads

Degree of Specialization: % of Total Solution

20%	**Custom:** CSA / CE, Partner
30%	SAP Landing Zone Accelerator
50%	CAF / Azure Landing Zone

How Does SAP Deliver RISE?
Foundational RISE Services

CCCS Certified

QUICK Time to Value

Application Services

Advisory & Implementation Services

SAP Software + Enterprise Support

Infrastructure Managed Services + Setup Services & Content Activation

Infra & OS Management

Data Center

ONE Governance & Security

ONE SLA & Support

SIMPLE Commercial Construct

SAP Software + Support
Continuous improvement & innovation
Mission critical support
Support advisory center
Continuous quality check
Basic SSO Capabilities – enhanced options available

Infrastructure Management & Technical Managed Services
Infrastructure footprint including HA & DR
Infrastructure setup, deployment and maintenance
Network & storage management
Standard Backup & retention

Cloud Managed Service
Client delivery manager, Technical and Project Lead, regular cadence, reporting
OS, DB management & operations
Best practice architecture & deployment
Technical Basis and operations support
Disaster recovery as service including annual test
SAP security framework & compliance reporting
24x7 monitoring & operational support

Execution of Technical Upgrades
Technical changes (parameters, client copies, system copies, etc.)
Patching / updating
Technical execution of support packages and version upgrades

Single SLA
99.7% SLA for Infrastructure, Technical Managed Services & Software.
Non-PRD SLA is 95%
DR RTO: up to 12 hours and RPO: up to 30 minutes

Capabilities

Secure and protect

Unified management tools designed to empower users with full visibility and control of their systems

Seamless identity and event management across your applications, both SAP and SaaS, for authentication and single sign on (SSO).

Largest compliance portfolio with more than 100+ international and industry-specific certifications

Industry standard for data privacy and confidentiality and **support for critical data protection regulations** such as GDPR and HIPAA.

Ensure business continuity

Detect and respond to threats quickly and effectively with leading AI and Microsoft global security expertise

Benefit from high availability, Azure Backup and Storage, and Azure Site Recovery services

Increase resilience with up to 99.99% SLAs across availability zones and dedicated high-performance, low latency network (<2ms round trip)

Detect threats across all layers, including SAP applications
## with Microsoft Sentinel for SAP applications

- The Microsoft Sentinel for SAP NetWeaver & S/4HANA data connector ingests data into Sentinel from SAP, including SAP BTP

- Continuously monitor SAP systems for threats across all layers: business logic, application, database, and OS

- Correlate SAP monitoring with other signals across your organization

- Build your own detections to monitor sensitive transactions and other business risks

- Wield analytics rules and watchlists for threat detection

- Master top down and drill through scenarios with workbooks for interactive data visualization

- Exercise watchlists for customization of the built-in solution parameters

- Respond to incidents in SAP using a built-in SAP connector (SOAR)

Be prepared with SAP on Azure

with high availability, disaster recovery, and backup business continuity solutions
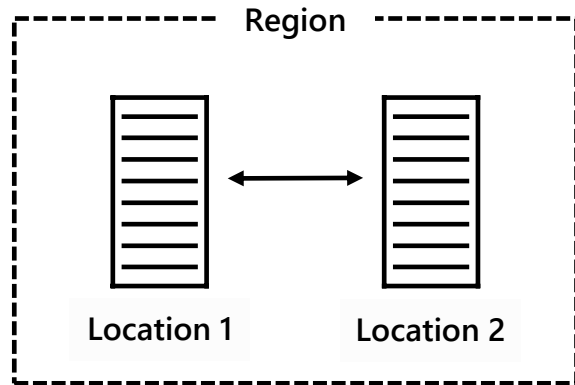
High Availability

Data replicates to at least one additional location at low latency, preserving data and application uptime.
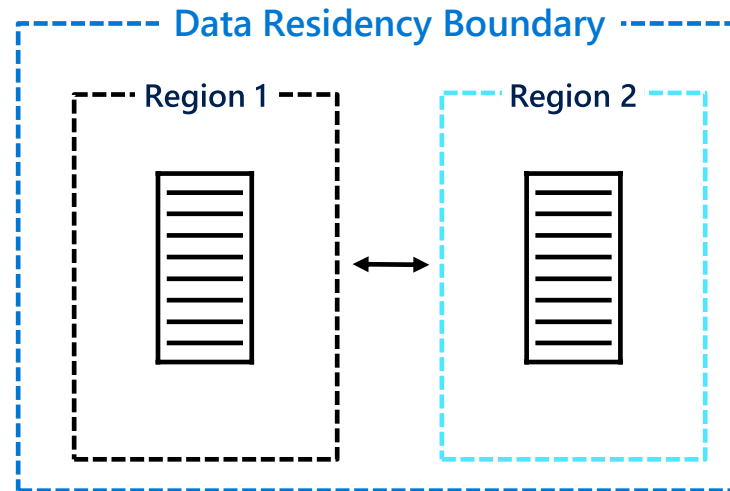
Disaster Recovery

Asynchronous replication from one region to another, with standby VMs in the other region. Azure offers protection between regions within data residency boundaries.

Backup

Data asynchronously replicates for healthy redundancy with data residency options.

3 Gain intelligent insights powered by AI for real-time decision making

Capabilities

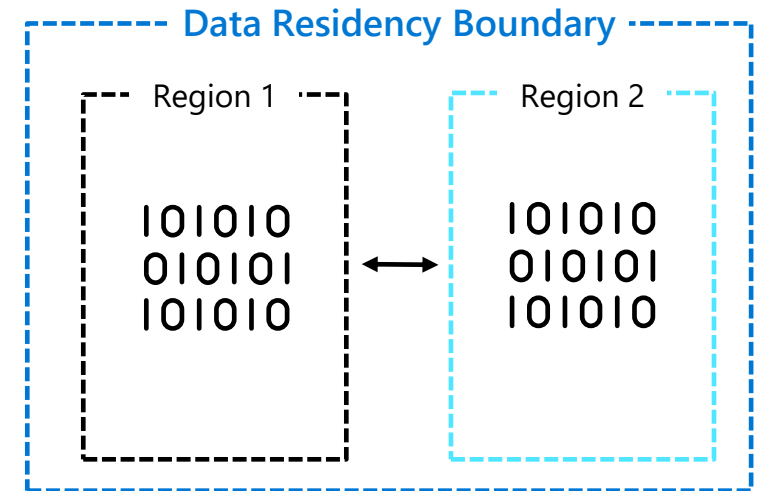## AI-powered insights

Enrich data and enable better business decisions with Azure AI services

Securely, selectively access and manage **large volumes of** data across various sources

Apply data governance across entire landscape to promote data integrity and relevance

Share information with business and technical decision makers using **data visualization and reporting services**

Smart, predictive analytics

Power business decisions with cloud-scale analytics

Drive continuous innovation with first-party cloud services, such as cognitive services, that reduces the cost to innovate

Integrate with third-party tools and analytics services

4 Enhance productivity and accelerate innovation with the leading AI platform

Capabilities

Enhance employee and customer experiences, augmented with AI

Integrate widely used Microsoft Teams and Office 365 with SAP solutions like SAP S/4HANA, SAP Analytics Cloud, and SAP Sales Cloud

Skill up employees with contextual learning capabilities enabled by the integration between **SAP SuccessFactors and Microsoft Viva Copilot**

Streamline recruiting processes enabled by the integration between **Azure OpenAI and SAP SuccessFactors**

Automate and accelerate innovation

Business process automation with low-code platform enabling users to simplify processes and focus on what matters most
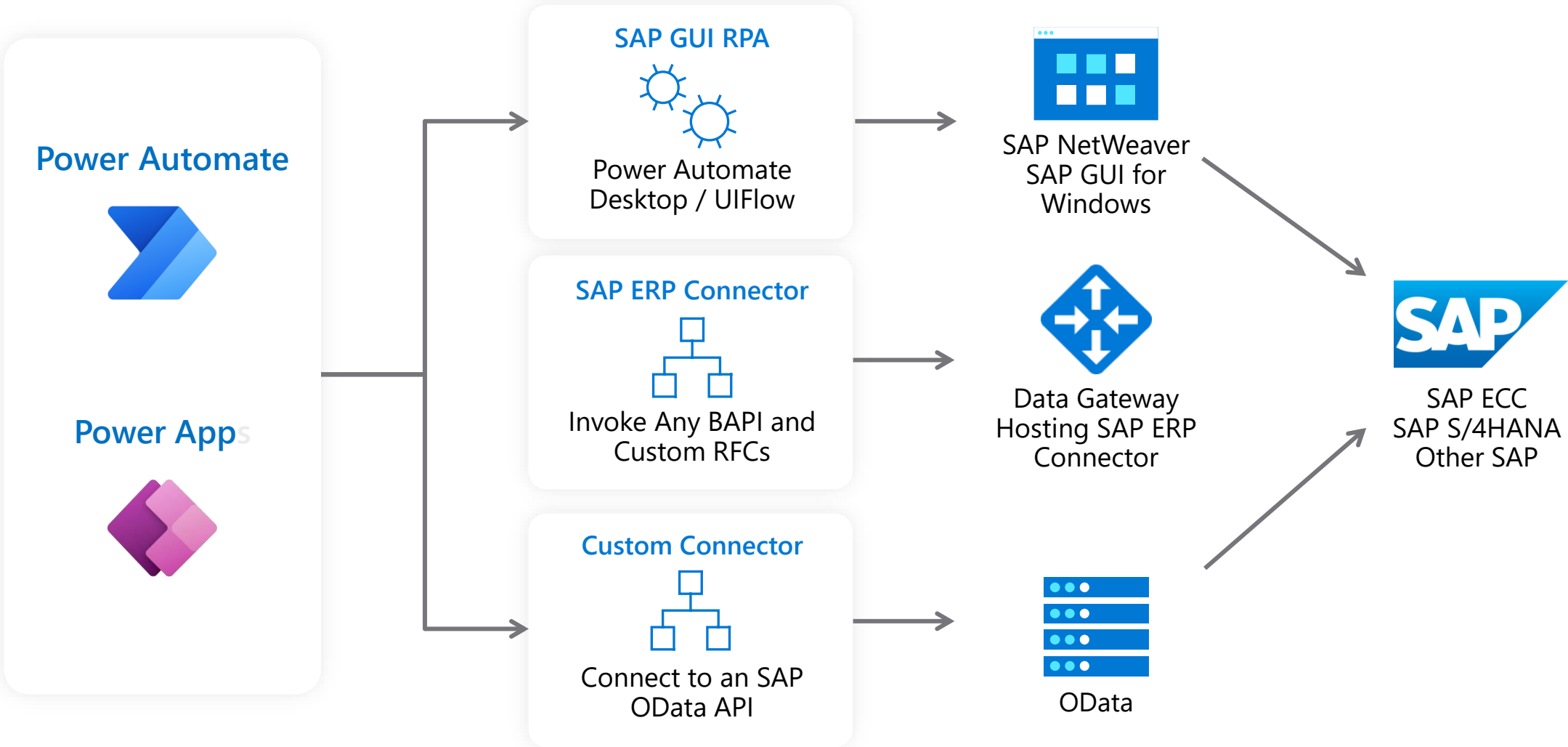
Pre-built app dev templates and tools helping users to quickly create and deploy new applications

Support for modern developer experience with Continuous Integration and Continuous Development (CI / CD) and integration with most programming languages, and leading dev ops platforms

Extend and innovate

with SAP data and Power Platform

Power Automate

Power Apps

SAP GUI RPA
Power Automate Desktop / UIFlow

SAP ERP Connector
Invoke Any BAPI and Custom RFCs

Custom Connector
Connect to an SAP OData API

SAP NetWeaver SAP GUI for Windows

Data Gateway Hosting SAP ERP Connector

OData

SAP ECC SAP S/4HANA Other SAP

Maximize the value of SAP on the Microsoft Cloud

1

Migrate to the cloud to accelerate savings and optimization

- Premium SSD and Azure NetApp Files
- Azure ExpressRoute
- Azure Private Link
- Azure Center for SAP solutions
- Azure Monitor for SAP
- Dedicated SAP cloud architects and engineers
- SAP S/4HANA certified compute platform

2

Secure your environment, both SAP and non-SAP

- Azure Active Director
- Microsoft Sentinel Solution for SAP
- Microsoft Defender
- Azure Monitor for SAP solutions
- Microsoft Intelligent Security Graph
- Azure Center for SAP solutions
- Azure Backup
- Azure Site Recovery
- Azure Private Link

Gain immediate, intelligent insights for real-time decision making

- Azure Synapse Analytics
- SAP Change Data Capture (CDC) for Azure Data Factory and for Azure Synapse
- Azure AI services
- Azure Machine Learning
- Azure IoT and edge services
- Microsoft Power BI
- Azure Purview
- BTP and 3rd party integration

3

Enhance productivity and accelerate innovation

- Microsoft Teams
- Microsoft Viva
- Integrated SAP workflows
- SAP ERP connector
- Microsoft Graph
- Microsoft Power Platform
- AI and Digital Twins
- SAP Event Mech
- Azure Event Grid
- GitHub
- Azure DevOps

4

Thank You

Q&A