





25 ottobre 2024



Mauro Tronchin
Azure Meetup Veneto

Presentazione Gruppo



TD SYNnex



skybackbone
engenio

Il gruppo nasce con l'obiettivo di creare una community per la condivisione di informazioni ed esperienze su **Microsoft Azure** e **365**.

Si rivolge a professionisti del settore IT ma anche ad appassionati di tecnologia, studenti e imprenditori interessati ad approfondire le **soluzioni cloud** e **ibride messe** a disposizione da **Microsoft**.



Sessioni tecniche in
presenza ed eventi dedicati
al mondo Azure e M365



Sessioni tecniche **online** con
argomenti proposti dal gruppo







Prossimi Speaker:



Zeno Testoni
6 novembre 2024



Giuliano Latini
Dicembre 2024





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Agenda

14:45-15:15 - **Luigi Pandolfino** (Azure Meetup Veneto): Le novità di Windows Server 2025

15:15-16:00 - **Marco Moioli** (Microsoft): Hybrid Cloud con Azure Arc

16:00-16:15 - *Coffee Break*

16:15-17:00 - **Giuseppe Nale, Piero Malfona** (SkyBackBone): Il patch management senza WSUS

17:00-17:45 - **Thomas Forte, Vito Trentadue** (TDSYNnex): Proteggi le tue identità con Microsoft Entra

17:45-18:15 - **Davide Cenedese** (Azure Meetup Veneto): Governance delle risorse Azure

18:15-18:30 - Chiusura e ringraziamenti

18:30-19:30 - Preparazione gara e competizione

19:30-19:45 - Premiazione



25 ottobre 2024



Luigi Pandolfino
Coordinatore Azure Meetup Veneto

Le novità di Windows Server 2025

Standard
Core

Standard
Desktop

Datacenter
Core

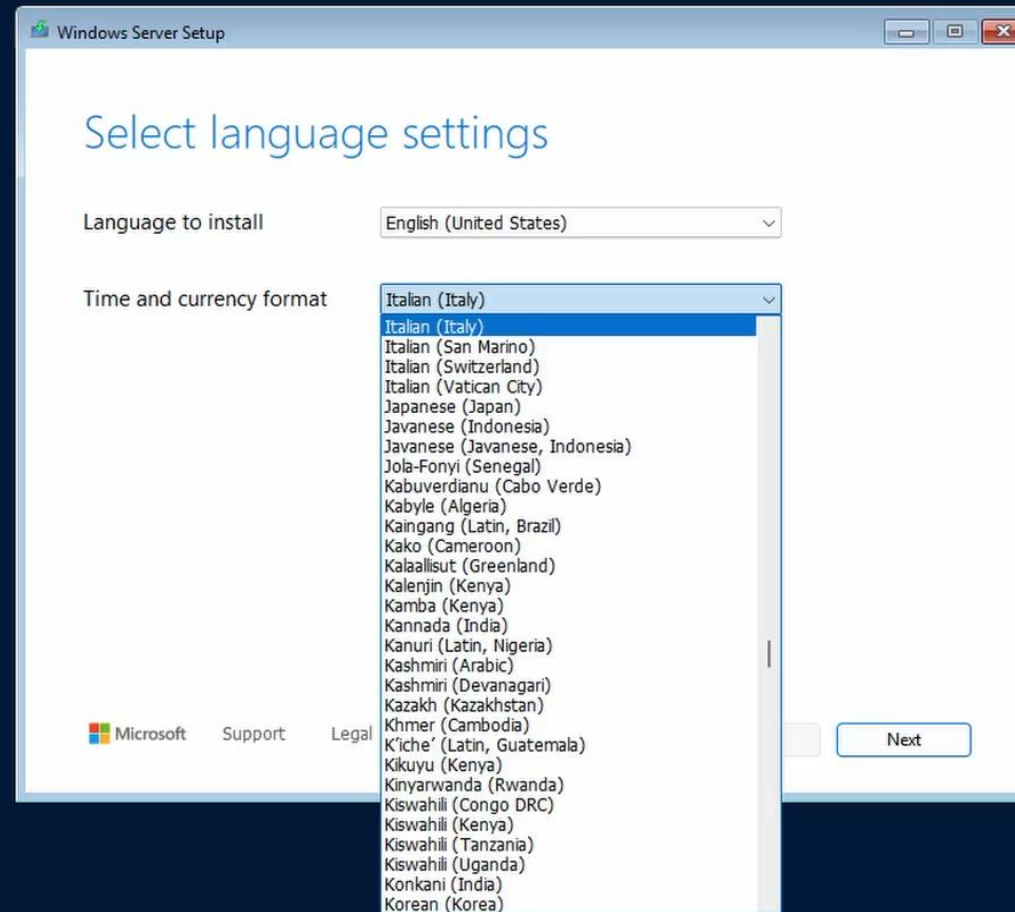
Datacenter
Desktop

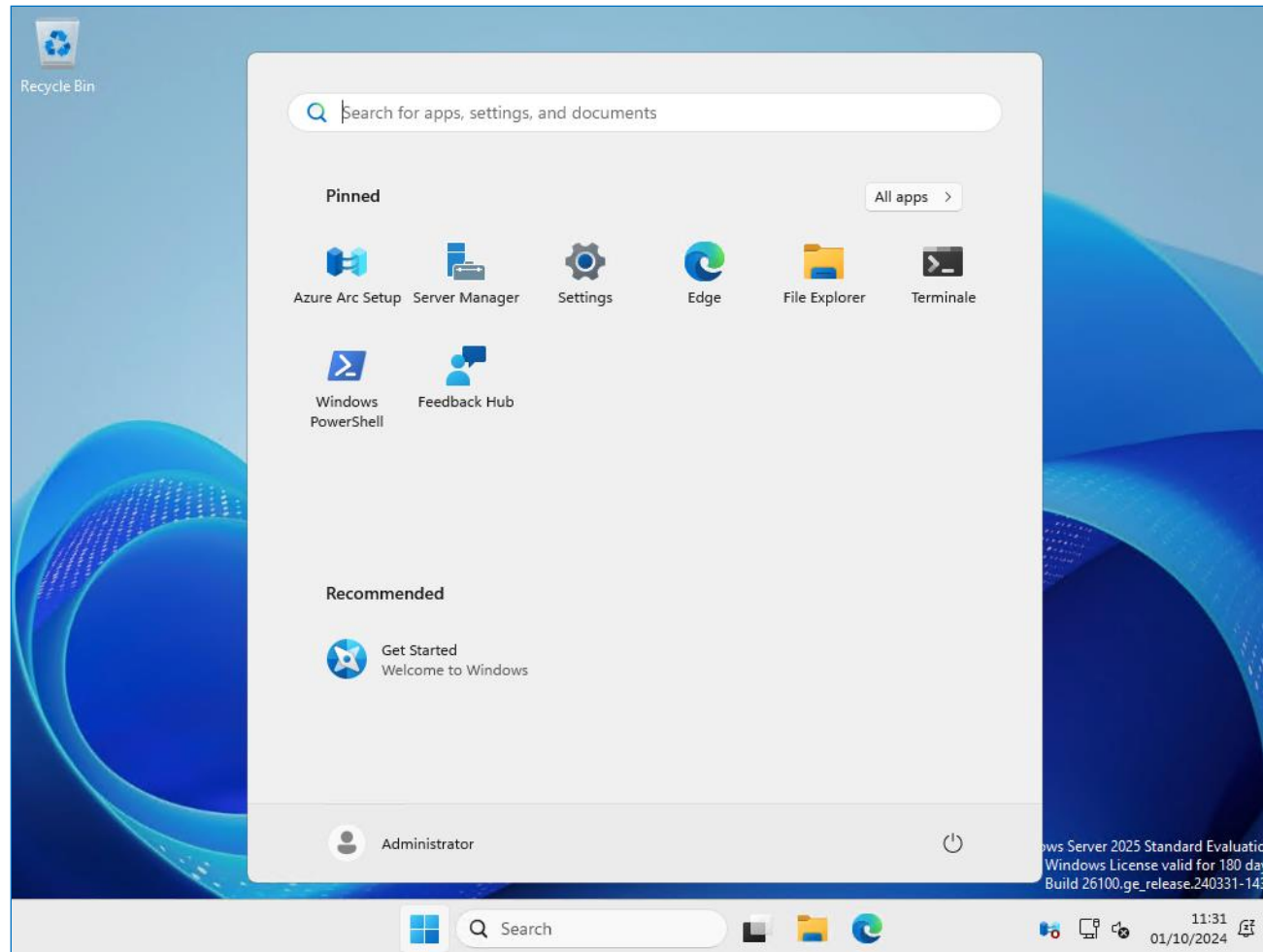


Server Core: la versione raccomandata, include i componenti essenziali di Windows e può essere gestito da remoto con Windows Admin Center e PowerShell.

Server Desktop Experience: la versione completa che include anche l'interfaccia grafica.

Stesse edizioni di Windows Server 2022: Windows Server Standard, Windows Server Datacenter, Windows Server Azure Edition.





Requirements	Description
Processor	1.4 GHz 64-bit processor Compatible with x64 instruction set Supports NX and DEP, CMPXCHG16b, LAHF/SAHF, and PrefetchW
Memory/RAM	512 MB (2 GB for Server with Desktop Experience installation option) ECC (Error Correcting Code) type or similar technology, for physical host deployments
Disk Space	Minimum 32 GB (Windows Server 2025 using the Server Core installation option)
Network Requirements	An Ethernet adapter capable of at least 1 gigabit per second throughput Compliant with the PCI Express architecture specification
Additional	UEFI 2.3.1c-based system and firmware that supports secure boot Trusted Platform Module Graphics device and monitor capable of Super VGA (1024 x 768) or higher-resolution

```
Administrator: Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Administrator> winget.exe search ssh
```

Nome	Id	Versione	Corrispondenza	Origine
Termius - SSH & SFTP client	9NK1GDVPX09V	Unknown		msstore
AbsoluteTelnet SSH Client	9N77H85H11VS	Unknown		msstore
Tempest - Ultimate SSH cli...	9PFV6RP97JB2	Unknown		msstore
SSH & SFTP Client: Termina...	9PKGBV7S35T0	Unknown		msstore
SSH Tunnel	9NR7P38PKLT4	Unknown		msstore
SSH Control	9P6BSH2W7BNZ	Unknown		msstore
SSH No Ports Desktop	9PBX5VRVQC2Z	Unknown		msstore
Bitvise SSH Client	Bitvise.SSH.Client	9.39	Tag: ssh	winget
Bitvise SSH Server	Bitvise.SSH.Server	9.39	Tag: ssh	winget
Brows	Brows.App	0.53.0.52	Tag: ssh	winget
Launcher	Devolutions.Launcher	2024.3.13.0	Tag: ssh	winget
Remote Desktop Manager	Devolutions.RemoteDesktopMa...	2024.3.13.0	Tag: ssh	winget
ultimatecube	G3G4X5X6.ultimate-cube	7.0.0	Tag: ssh	winget
Hiddify Next Beta	Hiddify.Next.Beta	2.3.1	Tag: ssh	winget
JetBrains Gateway	JetBrains.Gateway	2024.2.3	Tag: ssh	winget
OpenSSH Beta	Microsoft.OpenSSH.Beta	9.5.0.0	Tag: ssh	winget
MobaXterm	Mobatek.MobaXterm	24.2.0.5220	Tag: ssh	winget
WinSSH-Pageant	NathanBeals.WinSSH-Pageant	2.3.1	Tag: ssh	winget
PortX	NetSarangComputer.PortX	2.2.10	Tag: ssh	winget
PuTTY CAC	NoMoreFood.PuTTY-CAC	0.81.0.0	Tag: ssh	winget
PuTTY	PuTTY.PuTTY	0.81.0.0	Tag: ssh	winget
SSHFS-Win	SSHFS-Win.SSHFS-Win	3.5.20357	Tag: ssh	winget

WIFI

Il servizio Wireless LAN è installato per impostazione predefinita

Bluetooth

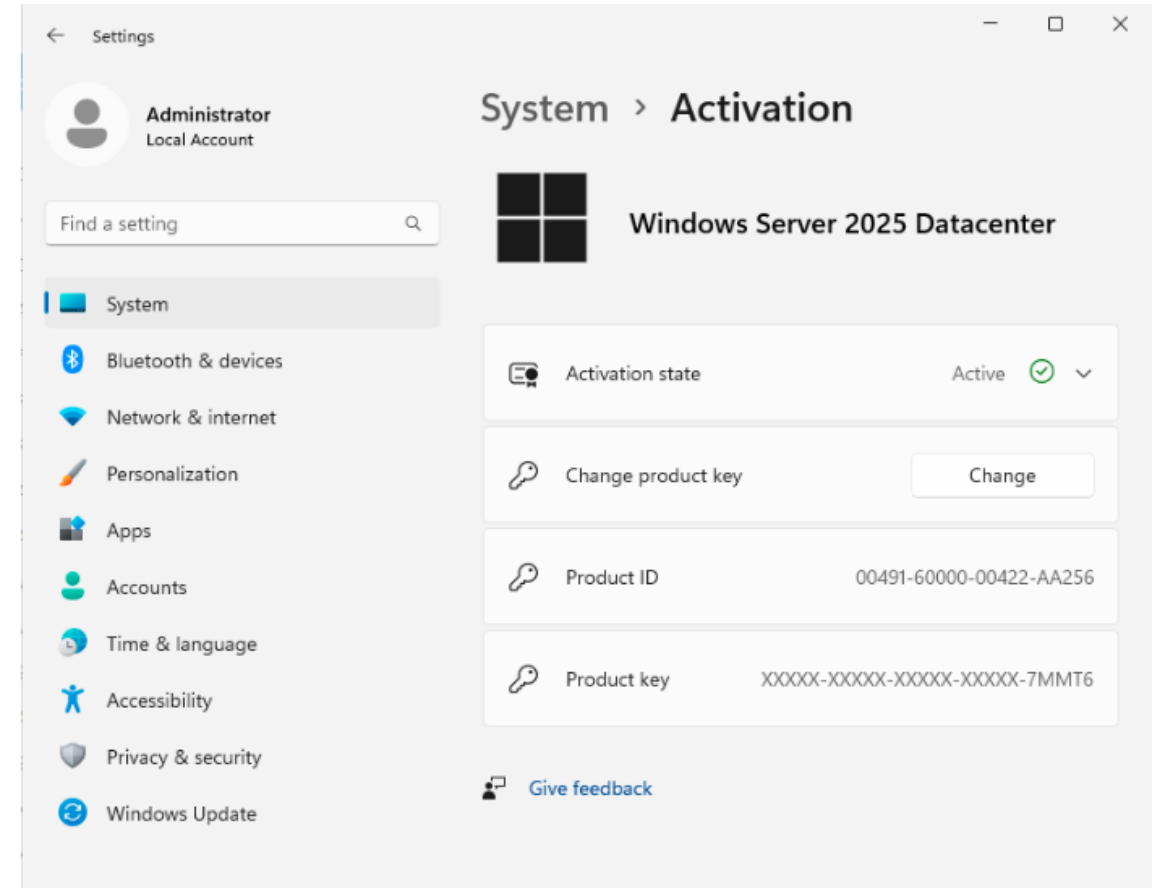
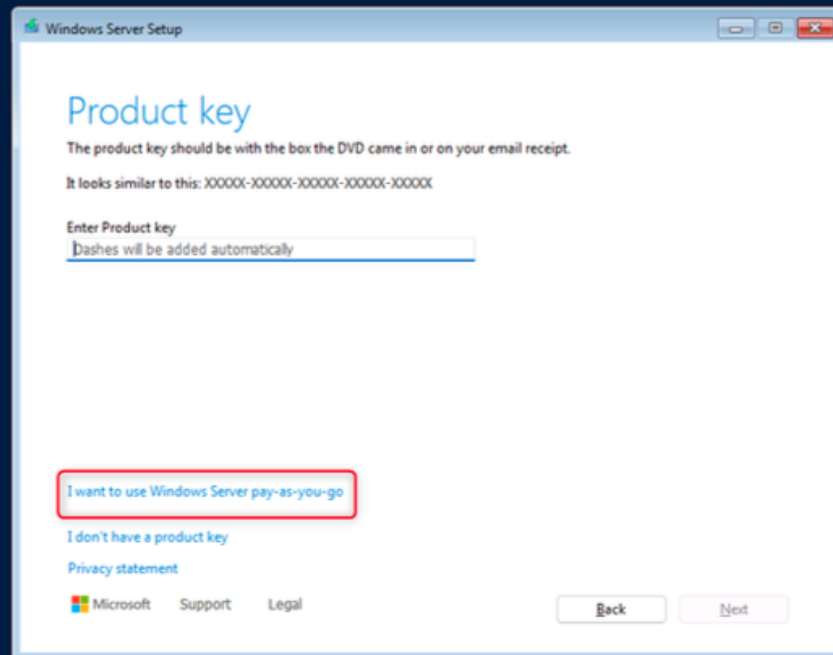
Ora possibile connettere mouse, tastiere, cuffie, dispositivi audio

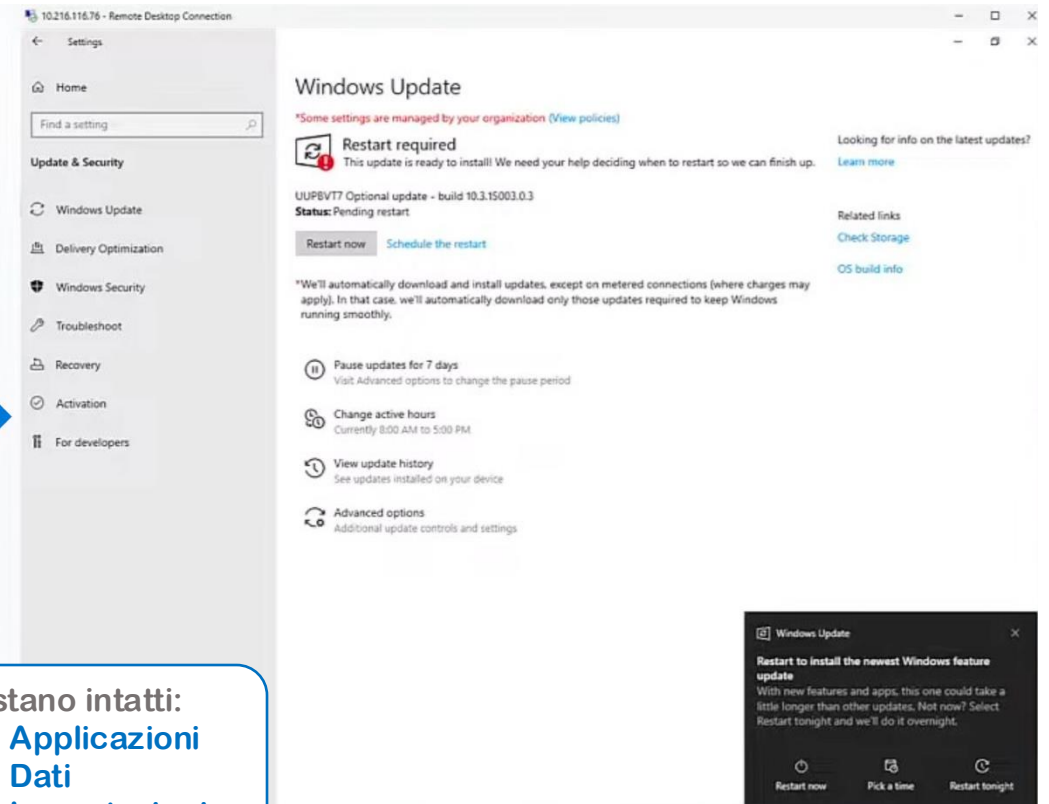
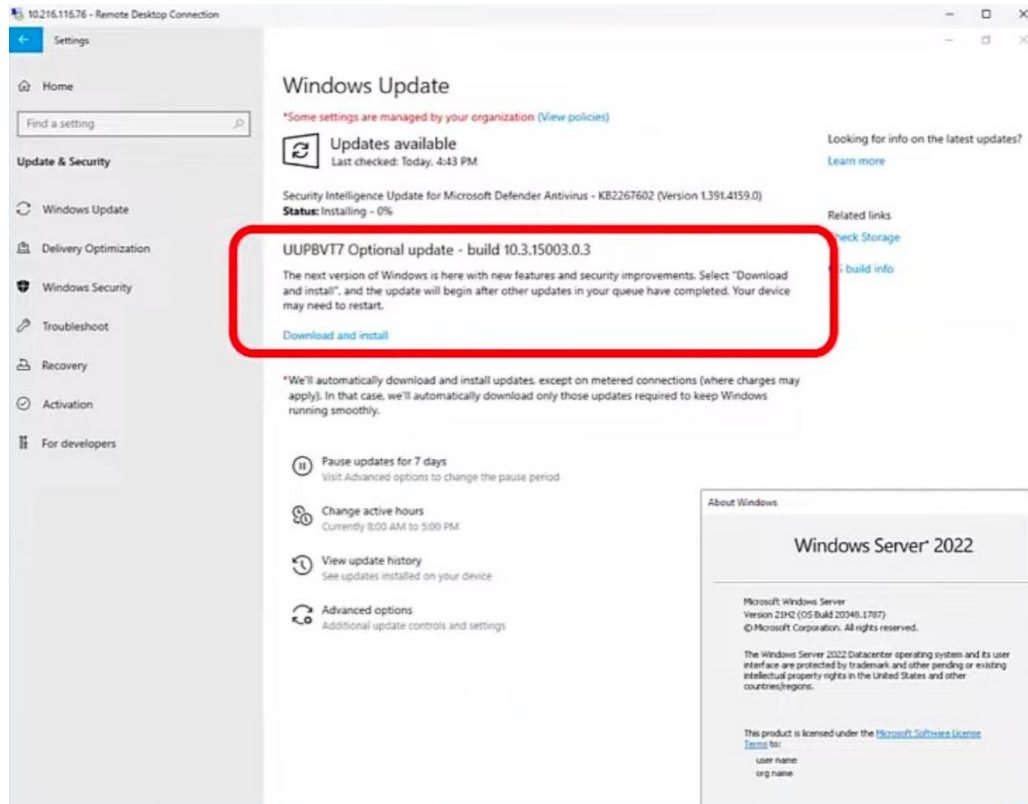
OpenSSH

Offre la possibilità di collegarsi e gestire via SSH i server

WinGET

Permette installazioni di software tramite terminale semplificando l'amministrazione

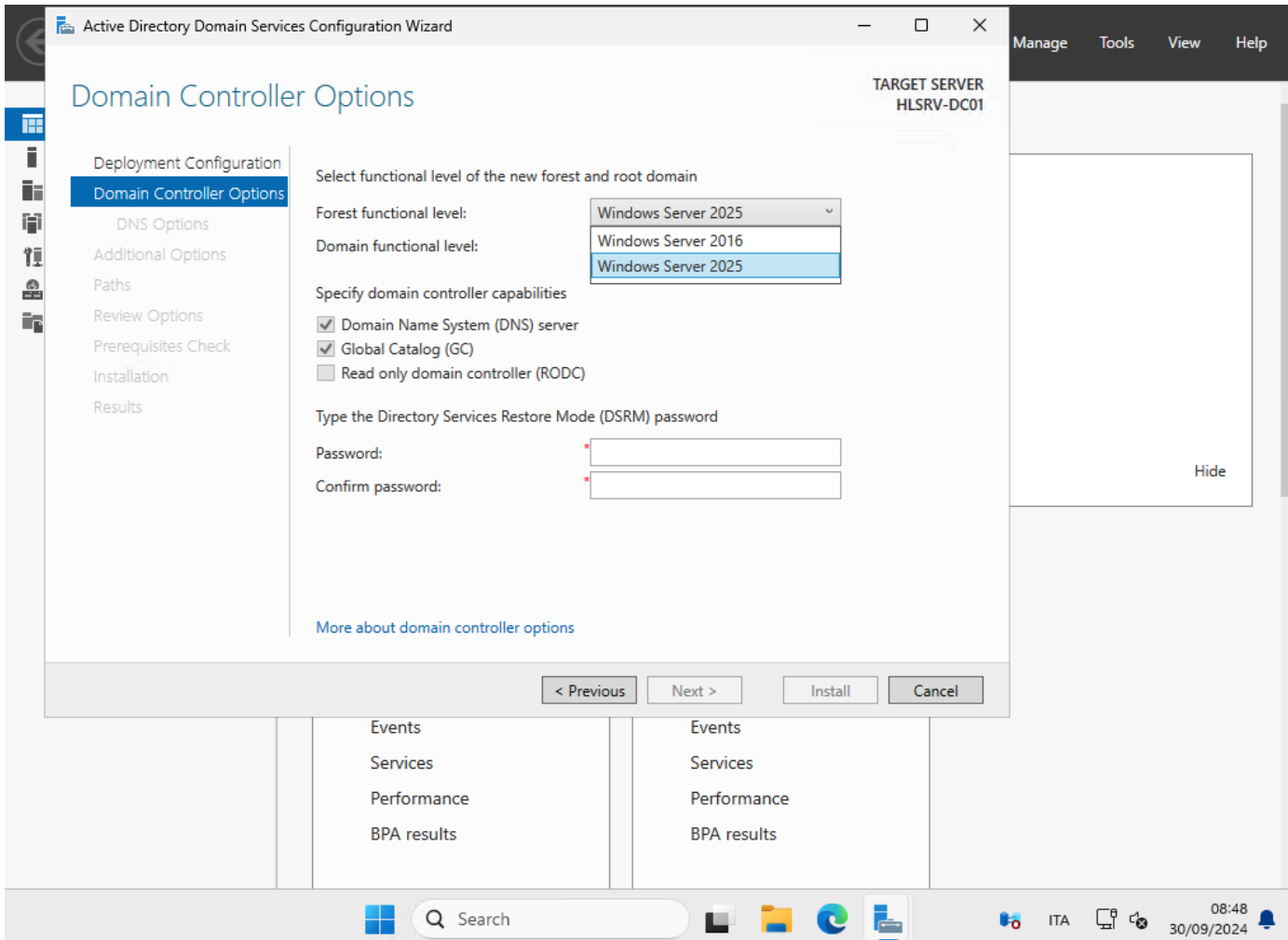




Restano intatti:

- Applicazioni
- Dati
- Impostazioni

| Upgrade in-place senza Downtime |



Livelli funzionali Active Directory

Forest functional level: Windows Server 2025
Domain functional level: Windows Server 2025

Microsoft non aggiungerà livelli intermedi per 2019 e 2022

Funzionalità deprecate

NTLM con passaggio a Kerberos
TLS 1.0 e 1.1 disabilitati di default
VBScript in favore di PowerShell
WSUS

Funzionalità rimosse

Server SMTP
WordPad
PowerShell 2.0 in favore di 5.0+
Console IIS 6.0

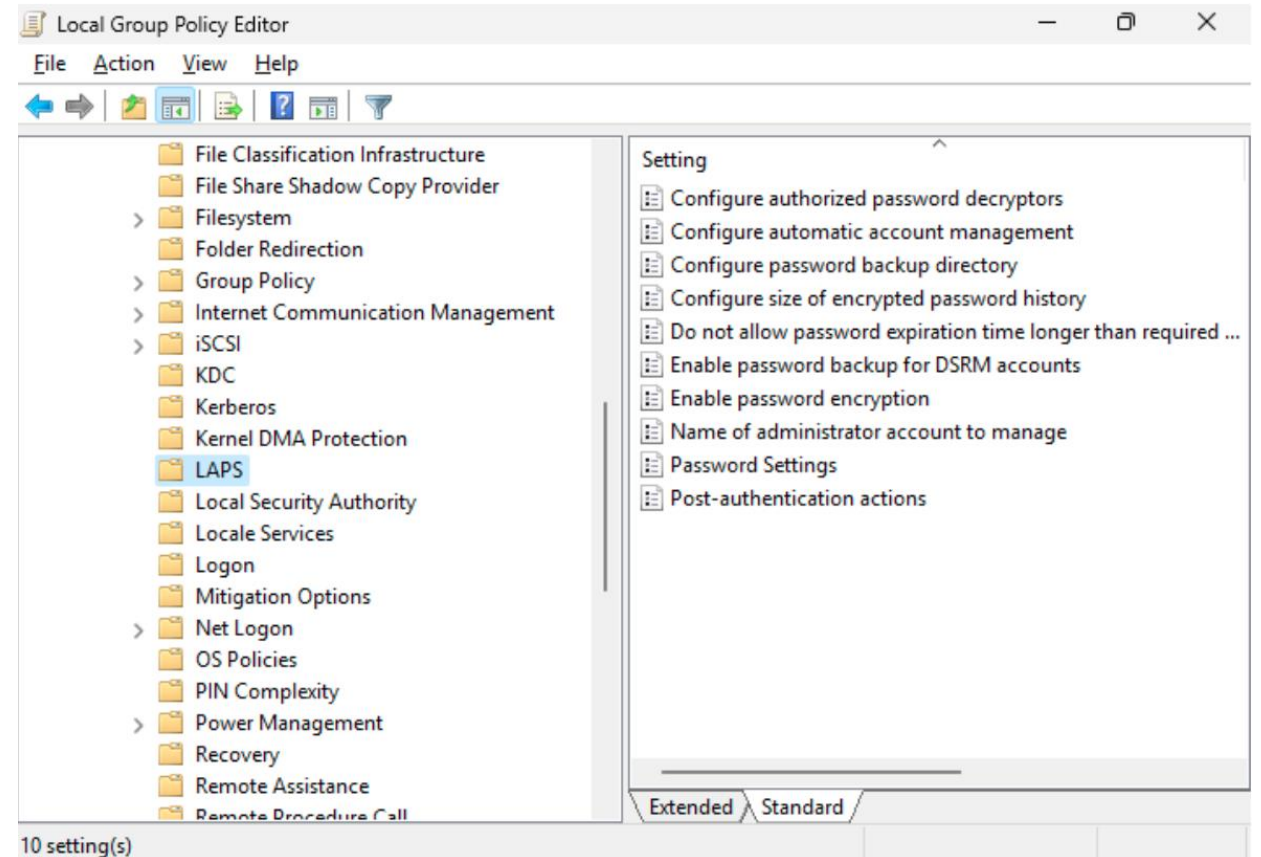
Funzionalità Aggiornate

Supporto TLS 1.3 per LDAP
Kerberos con migliore encryption
Active Directory 32k database page size

<https://learn.microsoft.com/it-it/windows-server/get-started/removed-deprecated-features-windows-server-2025>

Windows Local Administrator Password Solution

Gestione automatica degli account
Rilevamento del rollback dell'immagine
Funzionalità Passphrase
Miglioramento leggibilità dizionario delle password





E' una funzionalità di **Windows Server 2025** che protegge i sistemi dalle vulnerabilità grazie alla possibilità di fare patching **senza dover riavviare**.

Hot-patch applica le patch **direttamente al codice in memoria nei processi attivi**, senza la necessità di riavviare il processo stesso.



Velocizzazione processi di sicurezza

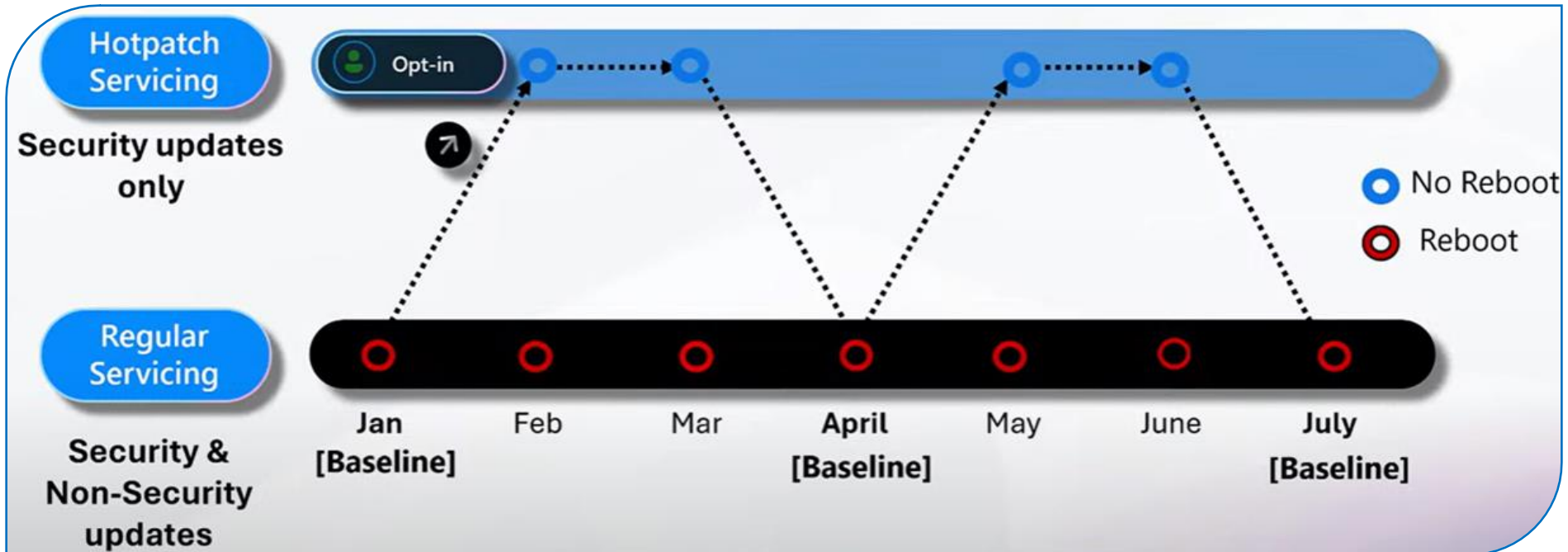


Miglioramento produttività



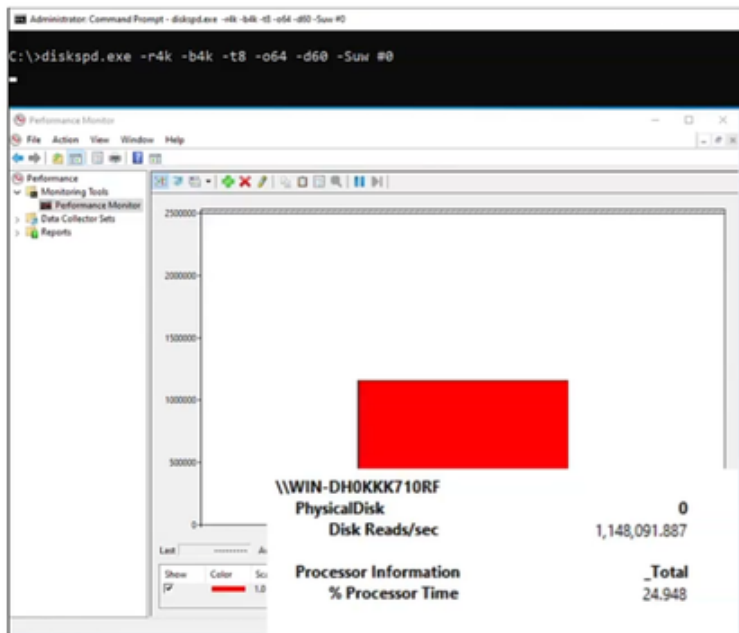
Riduzione Costi

Ciclo di rilascio trimestrale



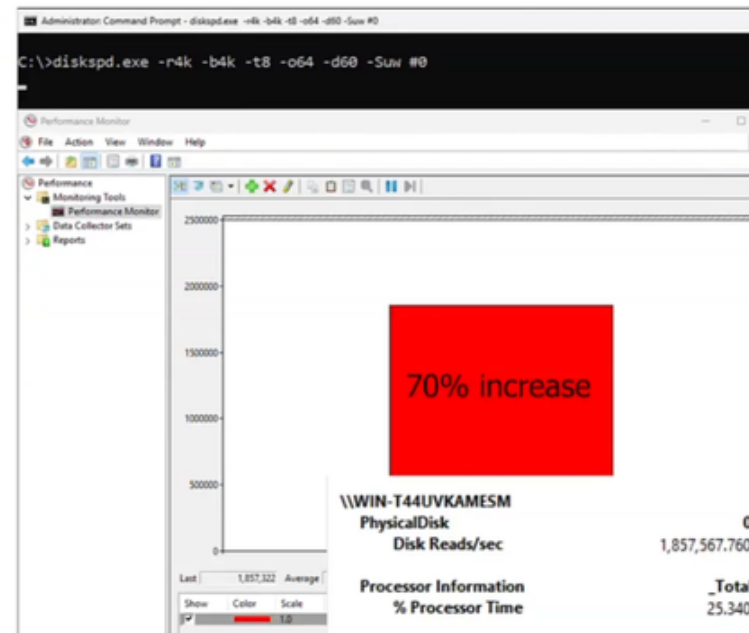
Gli aggiornamenti cumulativi che richiedono un riavvio sono pianificati **4 volte** all'anno
 Mediamente un **67% in meno di reboot**
 Le correzioni **zero-day** possono richiedere un riavvio

70% more IOPs on NVMe SSDs



Windows Server 2022

1.1M IOPs

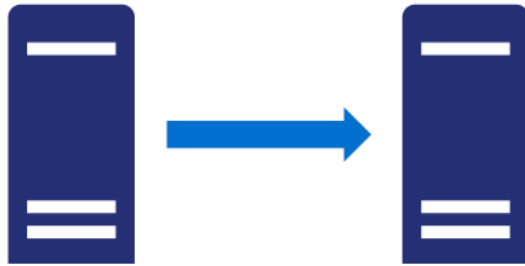


Windows Server 2025

1.86M IOPs

- Importanti ottimizzazioni:
- Riduzione utilizzo CPU
 - Uso migliore delle code
 - Cache ottimizzata

Storage Spaces Direct più performante con soluzioni all-flash basate su NVMe



Storage Replica

Prestazioni superiori con Enhanced Log

Storage Replica Compression disponibile per tutte le edizioni di Windows Server



ReFS

Maggiore ottimizzazione per deduplica e compressione

Ottimizzato anche per hot-data come le Virtual Machine

Fino al 60% di spazio risparmiato nei File Server e 90% per VHD, ISO e Backup



Storage Spaces

Thin Provisioning

Supporto Stretch Cluster



Alla base dei servizi di virtualizzazione di:

- Azure
- Azure Stack
- Windows Server
- Windows Client
- Container con Hyper-V isolation

Maximums for virtual machines

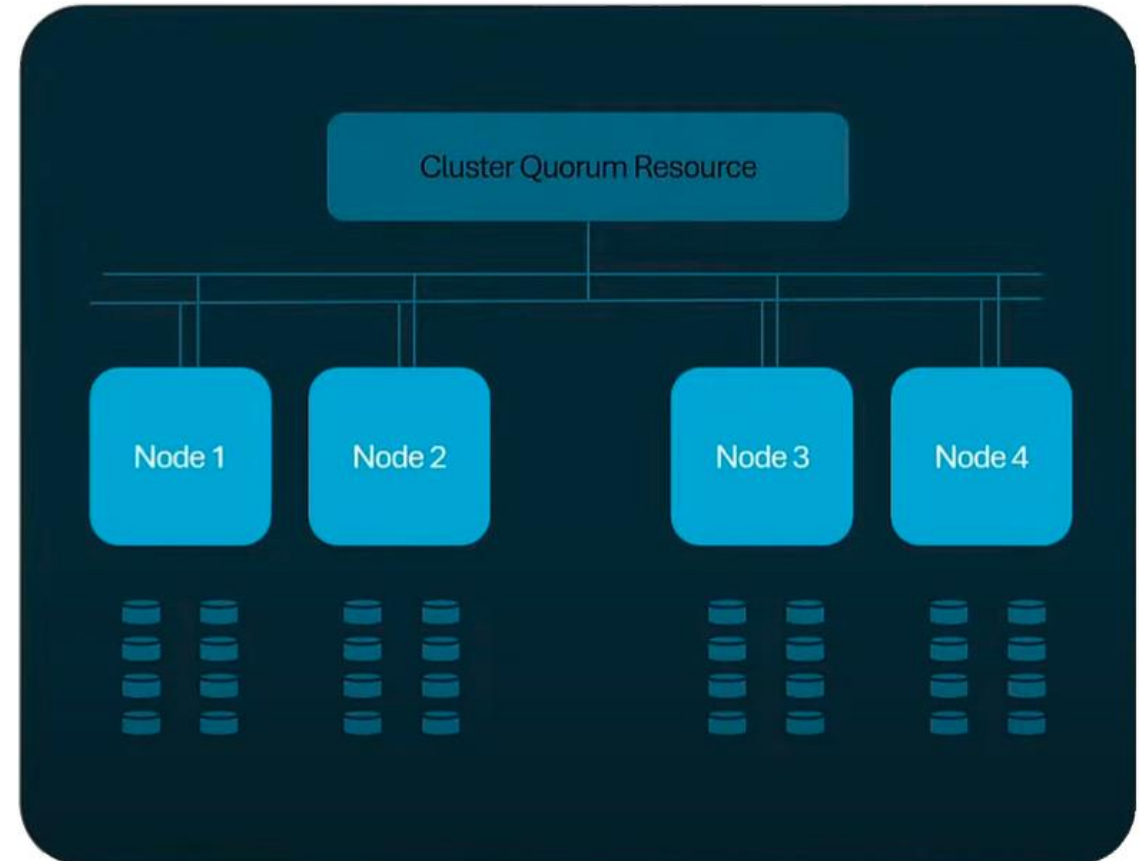
- 240 TB RAM for generation 2 VM
- 1 TB RAM for generation 1 VM
- 2048 vCPU for generation 2 VM
- 64 vCPU for generation 1 VM

Maximums for Hyper-V hosts

- 4 PB for hosts that support 5-level paging
- 256 TB for hosts that support 4-level paging
- 2048 logical processors per host

Failover Clustering

- Aggiornamenti Cluster-aware
- Workgroup Cluster (Certificate-based VM Live Migration)
- VM Live Migration con GPU-P
- Miglioramento delle performance di Storage Replica nelle configurazioni stretch cluster con Storage Spaces Direct



GPU Partitioning (GPU-P)

La possibilità di **condividere GPU** tra più VM:

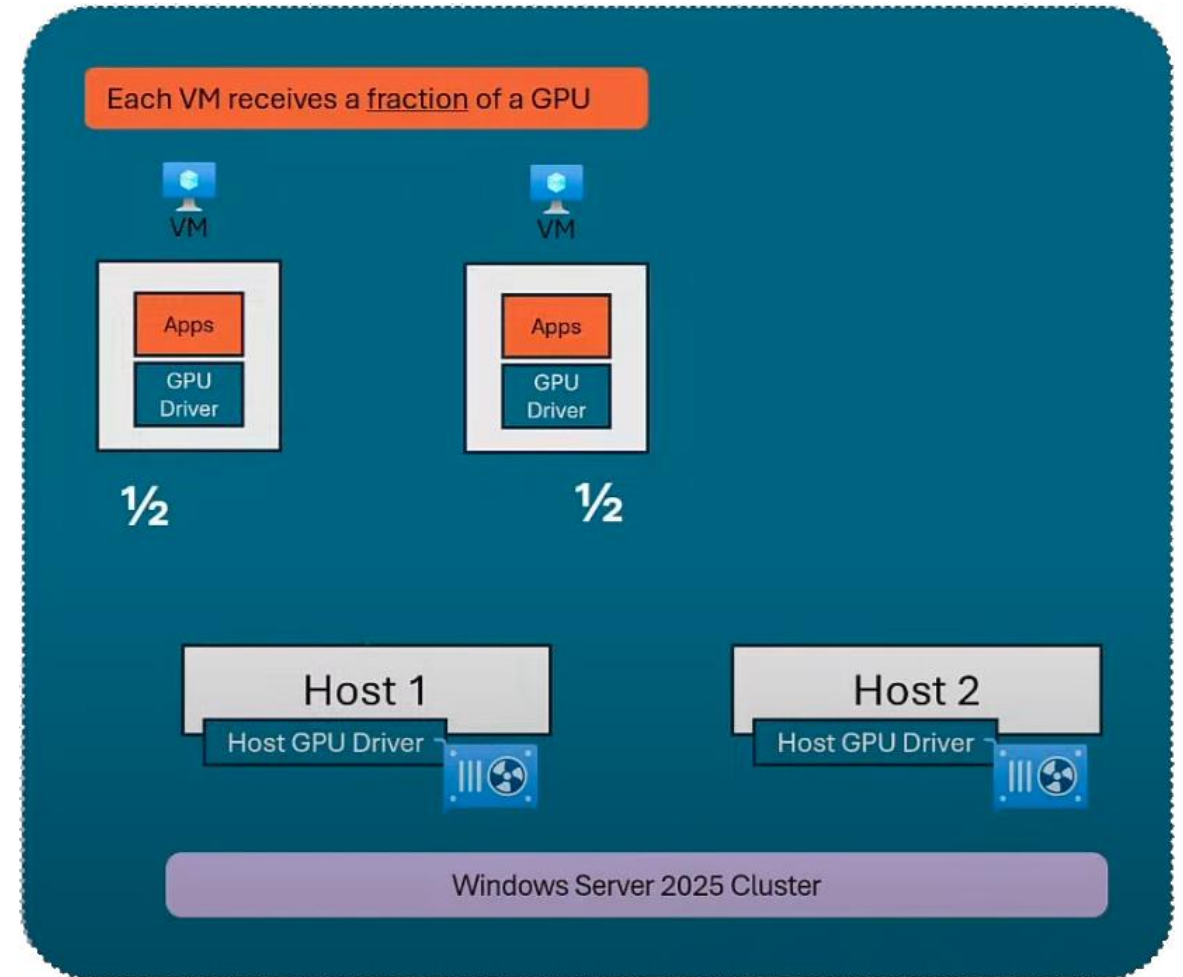
- Creare GPU partition
- Assegnare ogni partizione a una VM
- Gestire tramite WAC o PS

Supporto per Live Migration e Failover Cluster

Attualmente supportano GPU-P:

NVIDIA A2, A10, A16, A40

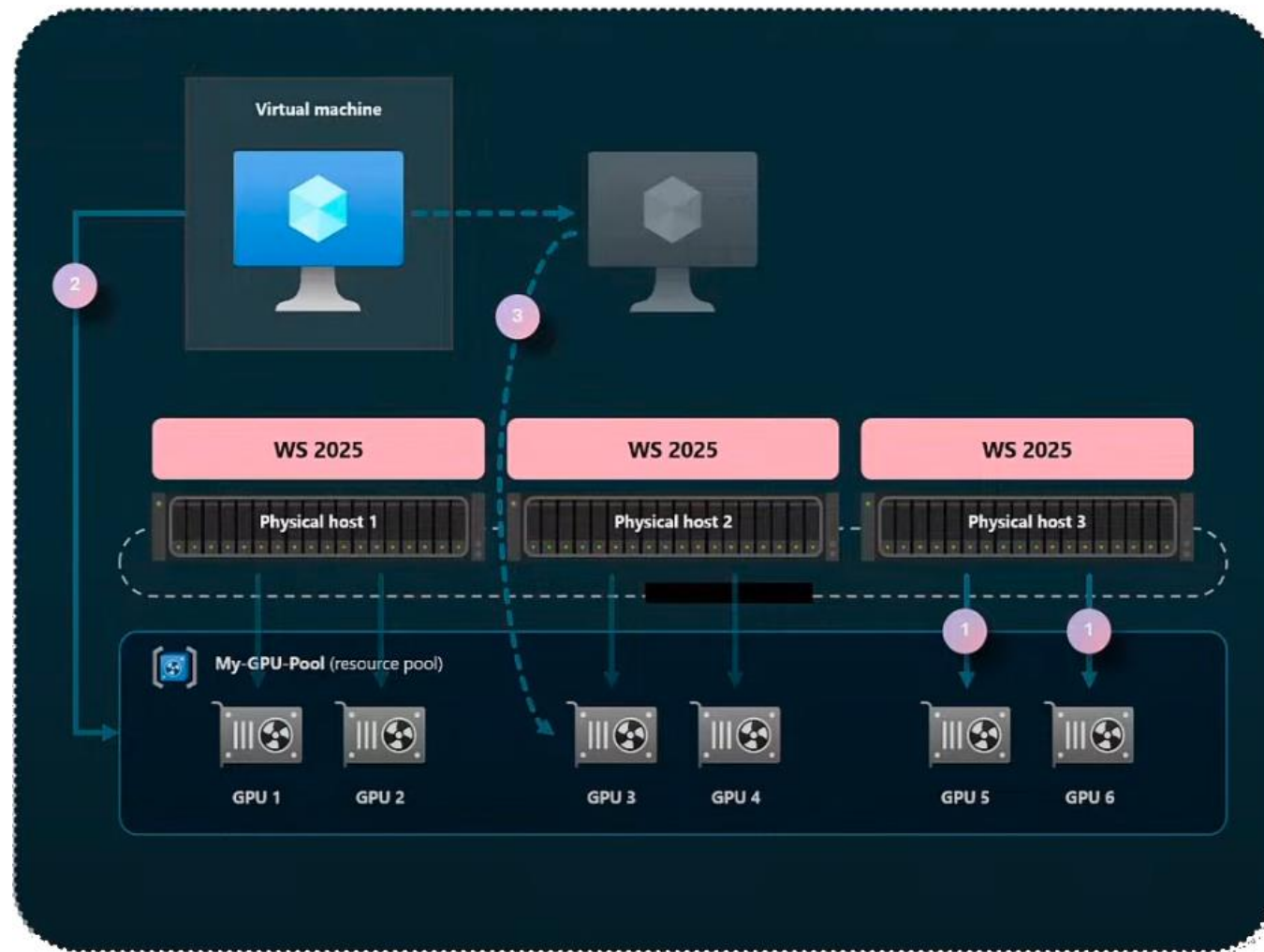
NVIDIA L2, L4, L40, L40S



GPU Pool

Tramite **Discrete Device Assignment (DDA)** abbiamo la possibilità di **dedicare una o più GPU fisica** a una macchina virtuale.

Live migration di VM non è al momento supportata, ma le macchine possono essere **riavviate automaticamente** in caso di necessità e posizionate dove le **risorse GPU** sono **disponibili**.

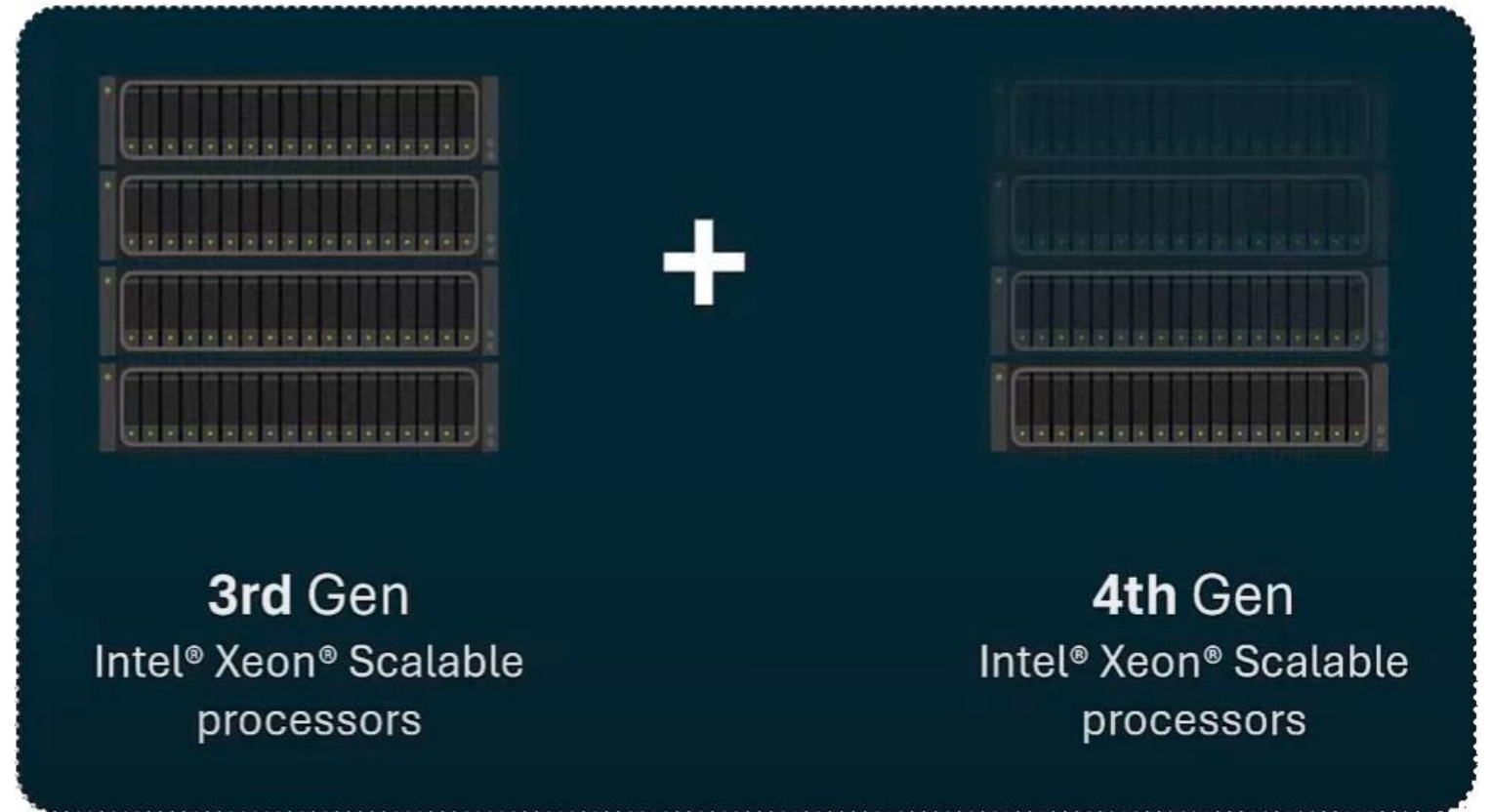


Dynamic Processor Compatibility

Migliorato in Windows Server 2025:
permette **Live Migration** tra server con
processori di famiglie differenti
(**capability sets**)

Ogni VM riceve dinamicamente il
**numero massimo di set di istruzioni
disponibili** su tutti i server del cluster

Non permette la migrazione tra Vendor
diversi (**Intel-to-AMD**)

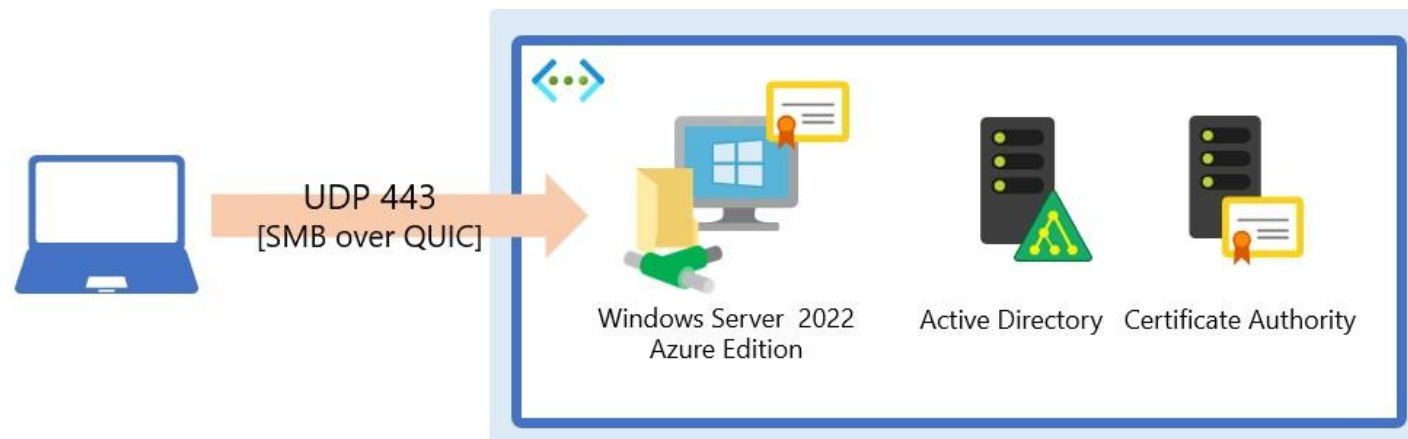


SMB over QUIC

Funzionalità ereditata da **Windows Server 2022 Azure Edition** che consente di accedere ai file server Windows **tramite Internet**.

La comunicazione è crittografata sulla porta **UDP 443**, quindi può essere utilizzata in sicurezza.

Disponibile in tutte le edizioni: Standard, Datacenter, Azure Edition





WSUS Deprecation

“We have no current plans of removing WSUS from in-market versions of Windows Server (including Windows Server 2025).

Microsoft will continue to ensure that existing WSUS features work.

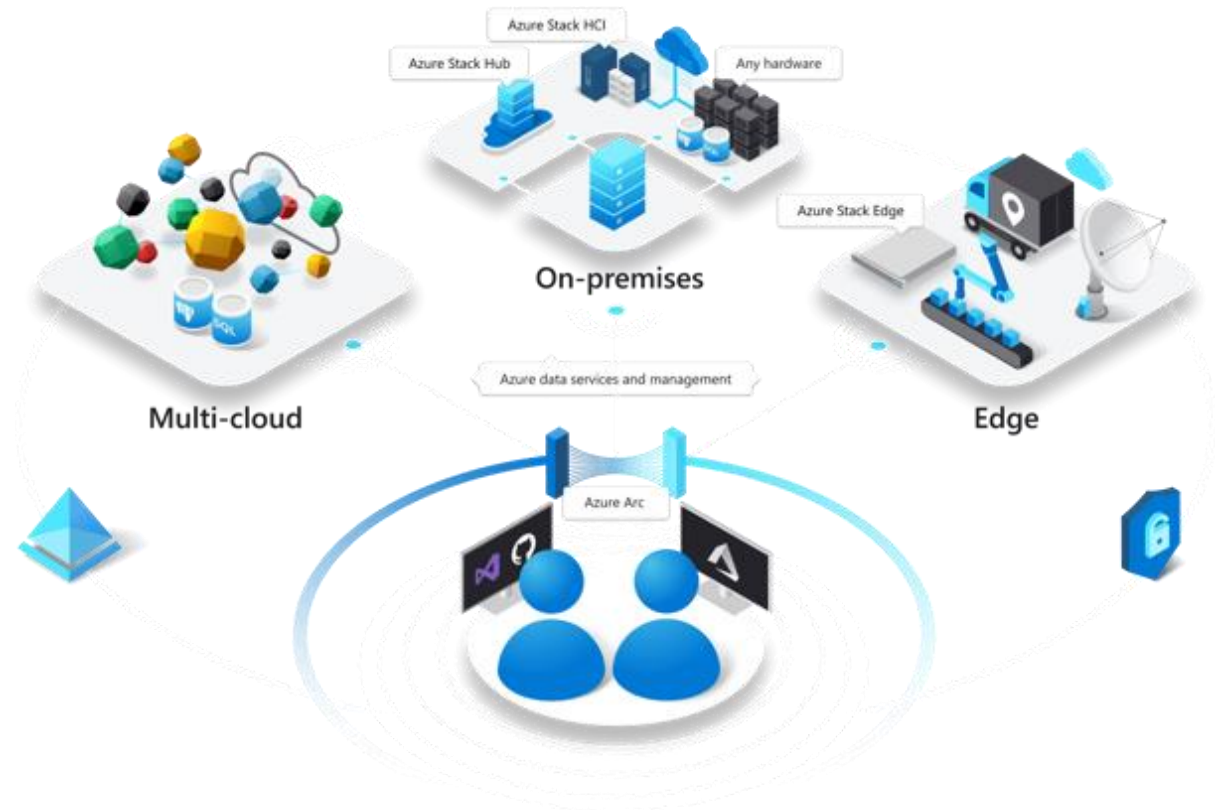
However, we do not plan to invest in new features going forward”

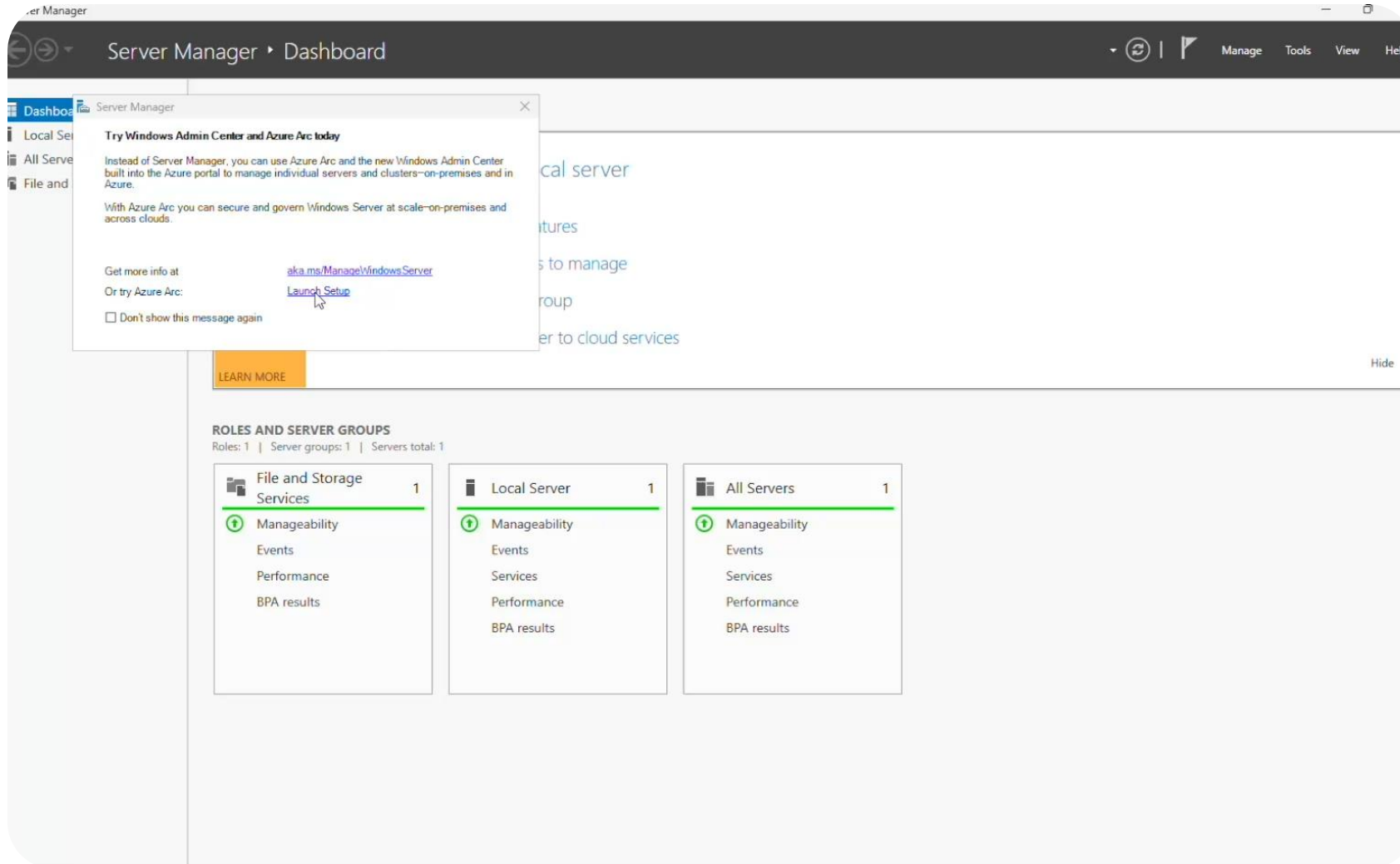
“While the WSUS role remains available in Windows Server 2025, we recommend organizations transition to cloud tools, including [Windows Autopatch](#) and [Microsoft Intune](#) for client update management and [Azure Update Manager](#) for server update management”

Azure Arc

Piattaforma di **governance** di risorse locali e multi-cloud:

- Server (Windows o Linux)
- Cluster Kubernetes
- Servizi dati Azure
- SQL Server esterni ad Azure
- Virtual Machine (VMware o Azure Stack HCI)





"Get Hybrid with Azure Arc"

Windows Server 2025 si avvantaggia di una più stretta integrazione con i servizi di **Azure**, in particolare tramite **Azure Arc**.

Estendere le potenzialità di Azure ai data center on-premises rende più semplice la gestione di ambienti **ibridi** e **multicloud**.



Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > Azure Arc | Machines >

WIN-VV82ED0IAIU

Machine - Azure Arc

Search

Delete Refresh Feedback

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
 - Settings
 - Operations
 - Windows management
 - Monitoring
 - Automation
 - Help

Essentials

Resource group (...)	: rg-test-guacamole	Computer name	: WIN-VV82ED0IAIU
Status	: Connected	FQDN	: WIN-VV82ED0IAIU
Location (move)	: Italy North	Operating system	: Windows Server 2025 Stan
Subscription (move)	: cdc-prod-001	Operating system v...	: 10.0.26100.1742
Subscription ID	: 21b6c89a-f998-4061-baed-5ca8f7a7ff77	Cloud provider	: N/A
Agent version	: 1.46.02809.1841	Manufacturer	: Microsoft Corporation
		Model	: Virtual Machine

Tags ([edit](#)) : [Add tags](#)

Capabilities Recommendations Tutorials

**Hotpatch (preview)**
Enroll in Hotpatch to receive monthly security updates without reboots.

Not enrolled

**Updates**
Customize updates for your Arc-enabled server.

Enable periodic assessment

**Logs**
Enable additional capabilities.

"Get Hybrid with Azure Arc"

Windows Server 2025 si avvantaggia di una più stretta integrazione con i servizi di **Azure**, in particolare tramite **Azure Arc**.

Estendere le potenzialità di Azure ai data center on-premises rende più semplice la gestione di ambienti **ibridi** e **multicloud**.

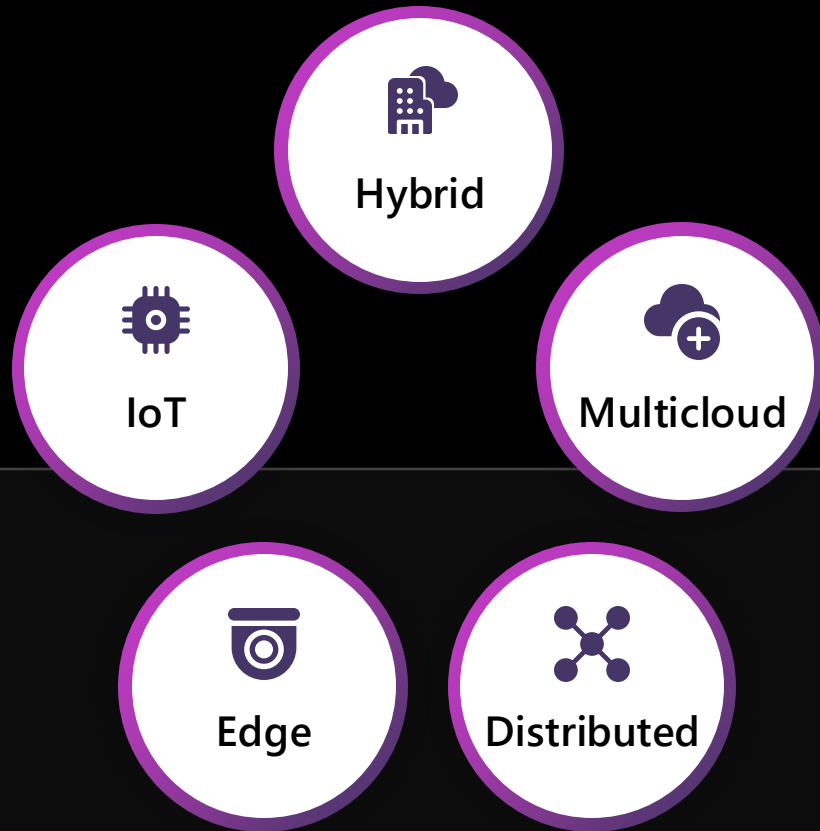


Azure Arc

Hybrid Cloud con Azure Arc

Marco Moioli
Cloud Solution Architect - Microsoft
25 Ottobre 2024



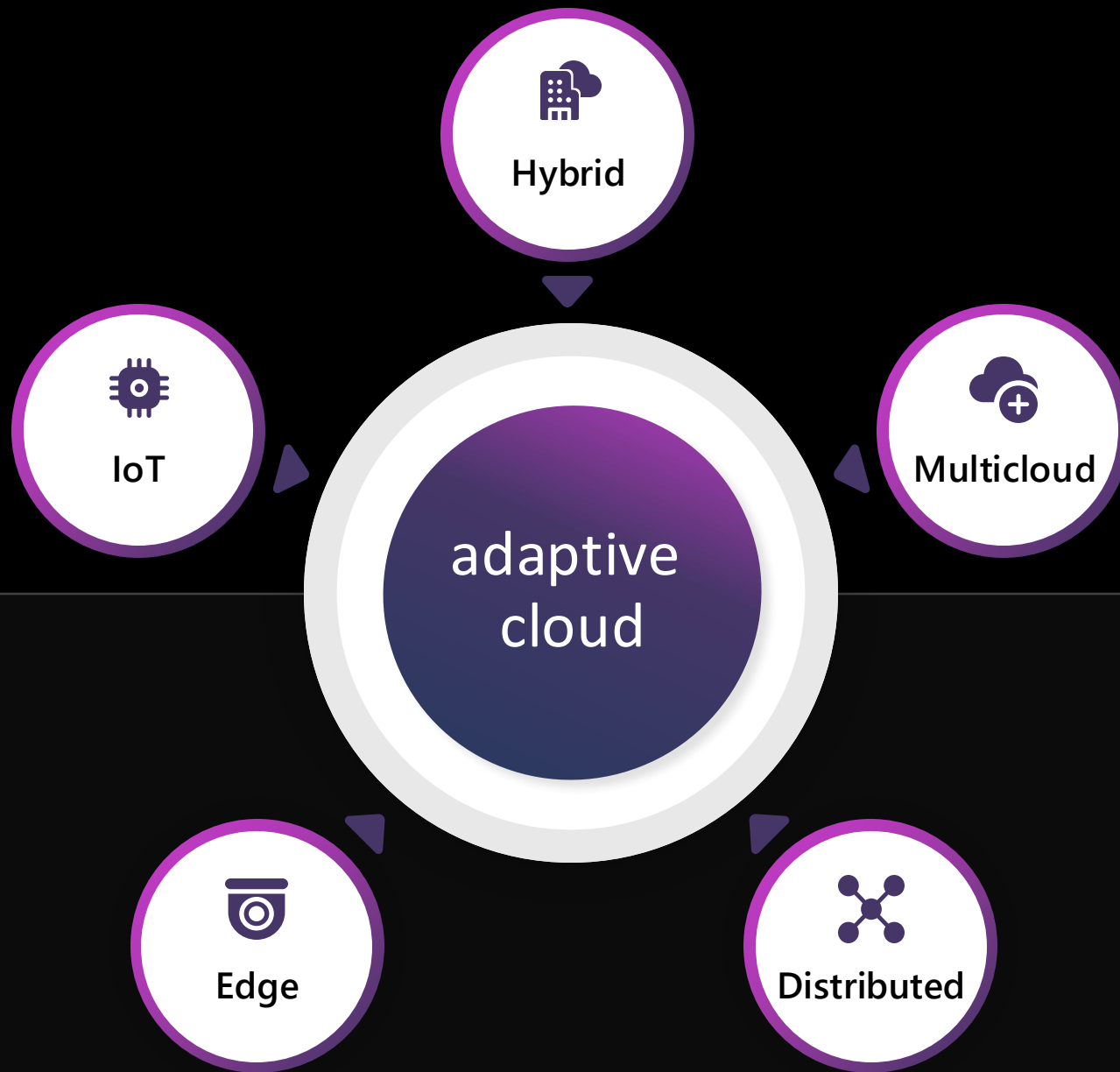


Common customer challenges

Sprawling systems

Information and process silos

Increased technical debt



Advancing hybrid cloud to adaptive cloud

Thrive in dynamic environments by unifying teams, sites, and systems across hybrid, multicloud, edge, and IoT.

Adaptive Cloud

f Operate with AI-enhanced central management

Microsoft Copilot
for Azure



Azure Monitor



Microsoft Defender
for Cloud



Microsoft
Azure

Windows
Server



b Rapidly develop and scale applications across boundaries

Visual Studio



GitHub



Azure Kubernetes
Service



SUSE



Red Hat

vmware®

Google Cloud

aws ORACLE

d Cultivate data and insights across physical operations

IoT Operations



Microsoft Fabric



Machine Learning



Enabled by
Azure Arc

Customer aspirations



• Deliver products as a service



• Transform data into new products



• Accelerate application development



• Secure and govern distributed digital estate



• Modernize facilities and assets



• Manage multicloud, datacenter and edge modalities in a single control plane

Microsoft Azure



Single control plane with Azure Arc

Infrastructure

Connect and operate
hybrid resources as native
Azure resources

Azure Arc-enabled infrastructure

Services

Deploy and run Azure services
outside of Azure while still
operating it from Azure

Azure Arc-enabled services



Arc
Server



K8s



Windows



SQL
Server



SQL
DB



PostgreSQL



Web
Apps



Functions



Logic
Apps



Machine
Learning



Multi-cloud

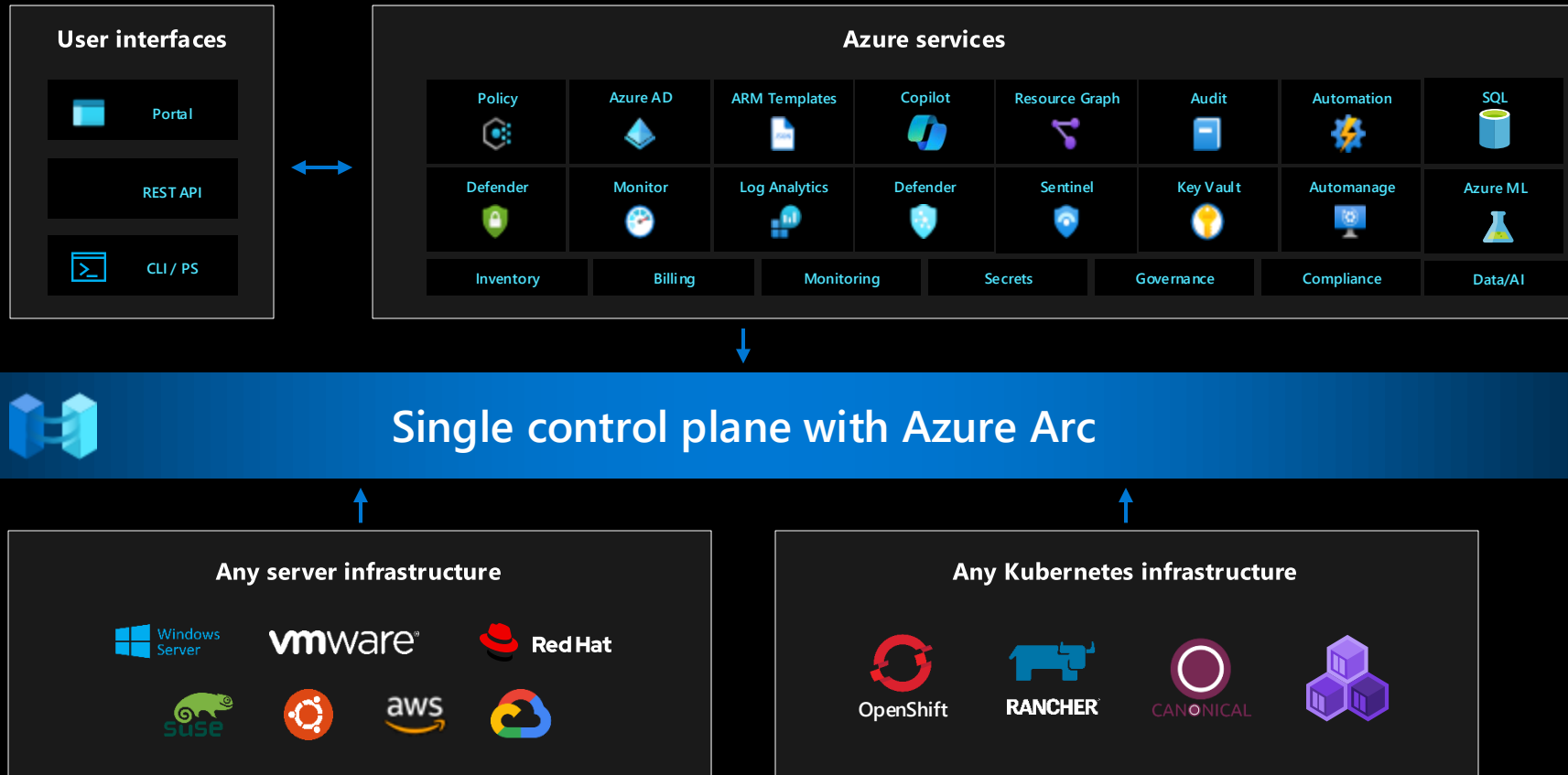


Datacenter



Edge

Azure Arc: extending Azure management & security to any infrastructure



Manage your private, public and edge environment in a consistent way



northwindrisk



Resource group

Directory: Microsoft



Search



Create



Manage view



Delete resource group



Refresh



Export to CSV



Open query



Assign tags



Overview



Activity log



Access control (IAM)



Tags



Resource visualizer



Events

Settings



Deployments



Security



Deployment stacks



Policies



Properties

Filter for any field...

Type equals all



Location equals all



Add filter

More (1)

Showing 1 to 13 of 13 records.



Show hidden types



Group by type



List view



Name ↑↓

Type ↑↓

Location ↑↓

type (tag) ↑↓



northwindserver3

Machine - Azure Arc

East US

VMware



northwindsql

Machine - Azure Arc

East US

On-premises



tailwindserver1

Machine - Azure Arc

East US

On-premises



tailwindserver3

Machine - Azure Arc

East US

On-premises



tailwindserver4

Machine - Azure Arc

East US

AWS



Machine - Azure Arc (VMware)



tailwindsql

Machine - Azure Arc (VM...

East US

On-premises



< Previous

Page

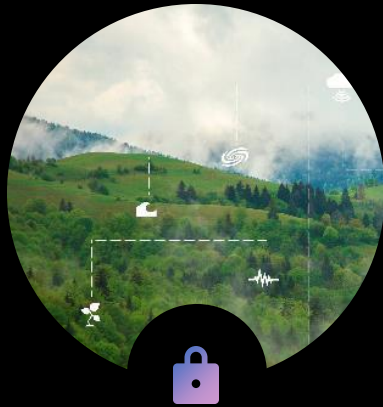
1

of 1

Next >

Give feedback

Innovate anywhere with Azure



Secure and
govern your
infrastructure and
apps

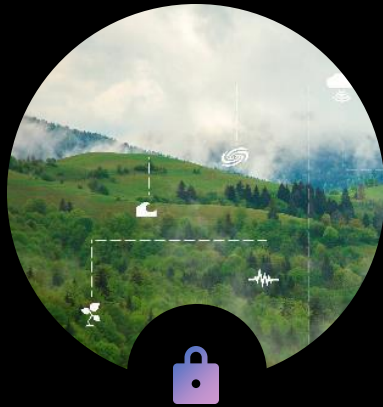


Build apps once,
deploy and manage
them anywhere



Run Azure data, app,
and AI/ML services
from cloud to edge

Innovate anywhere with Azure



Secure and
govern your
infrastructure and
apps



Build apps once,
deploy and manage
them anywhere



Run Azure data, app,
and AI/ML services
from cloud to edge

Secure and govern across environments

Customer needed

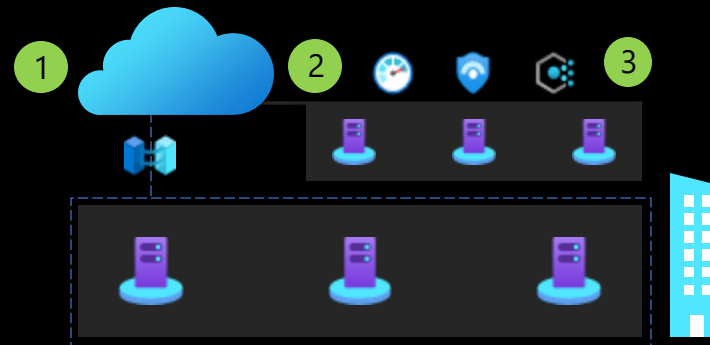
Simplified operations & management across thousands of remote sites with heterogenous assets

To leverage cloud-based threat detection, response, and analytics

To catalog and govern IT inventory with policy and role-based access control

Business continuity with observability across the stack and automated recovery from failures

How



- 1 Migrate WS/SQL/Linux to Azure regions
- 2 Arc-enable remaining WS/SQL/Linux in Datacenters and at the edge
- 3 Integrate operations, management, and security across all environments

Microsoft Offerings Enabled by Azure Arc

- Azure Resource Manager
- Microsoft Defender for Cloud
- Microsoft Sentinel
- Azure Policy
- Azure Monitor
- Microsoft Purview
- Azure Automanage
- Azure Update Manager
- Microsoft Copilot in Azure



Azure Arc-enabled servers

Bring Azure capabilities to your on-premises and multicloud servers with Azure Arc



Reach

Windows and Linux

VM and bare metal

At scale searchable inventory



Configure

Consistent VM extensions

Centralized agent
management—
monitoring, security,
update management



Govern

Built-in Azure policies

Compliance across
environments

Audit and enforce
OS settings



Secure

Entra ID Managed Identity

Server security baselines

Role-Based Access control



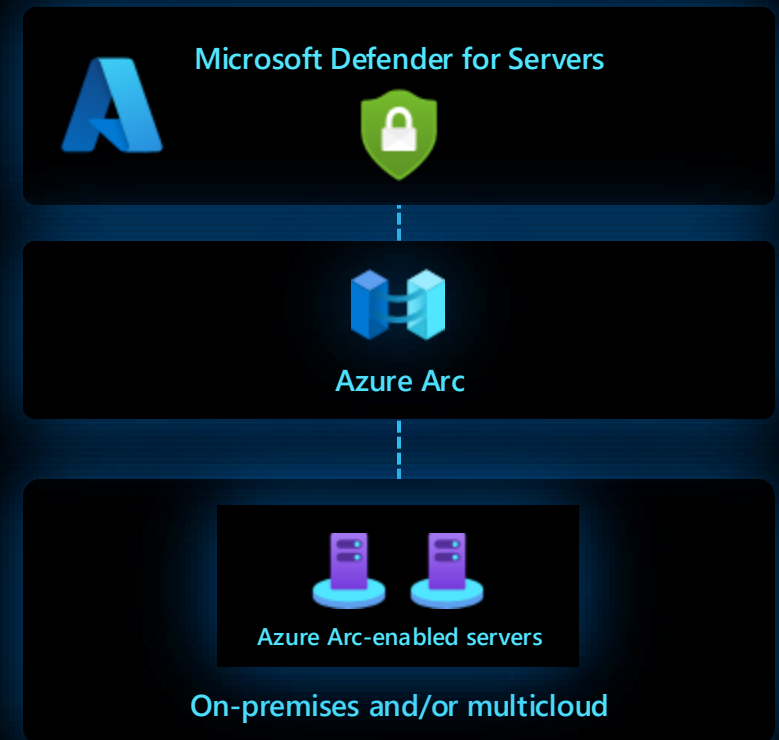
Any infrastructure, familiar tools



Deploy defender for servers anywhere

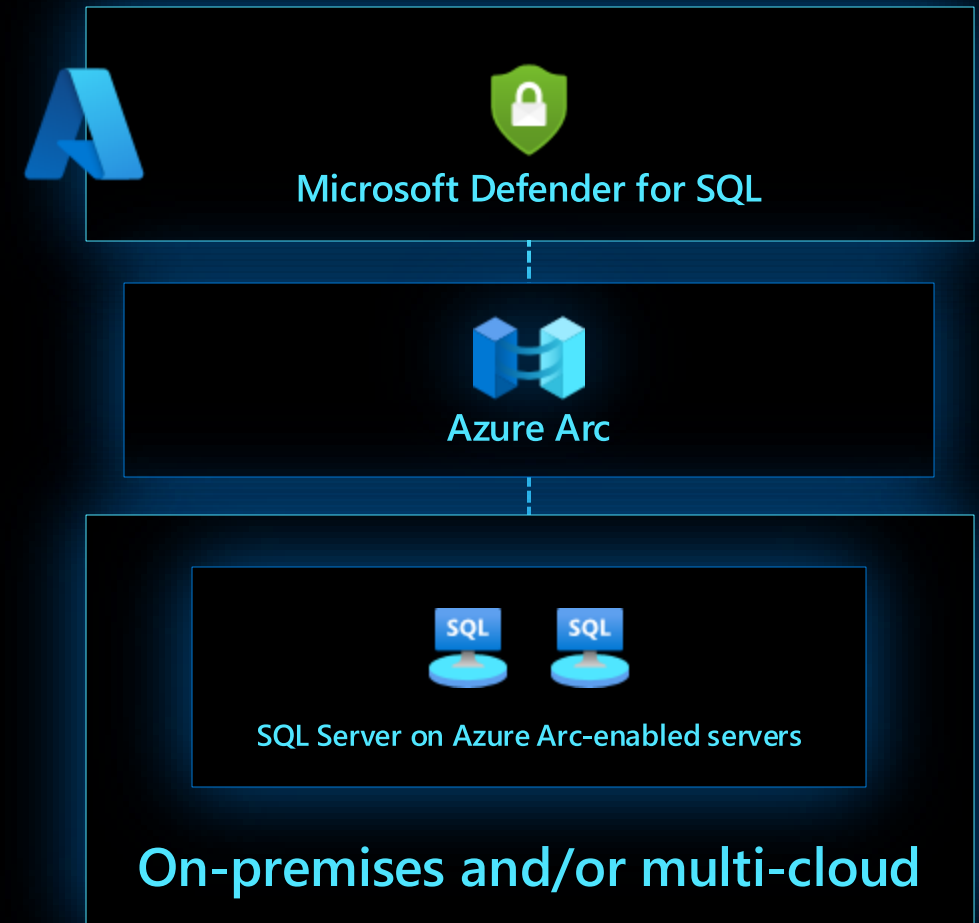
Secure hybrid and multicloud environments

- Reduce risk with contextual security posture management
- Get compliance benchmarks mapped to industry standards
- Vulnerability assessment built-in with flexibility to use tools, like Qualys, offering integrated vulnerability scanning for your connected machines
- Use Just-in-Time VM access to control access to commonly attacked management ports
- Block malware with adaptive application controls
- Set guardrails with Azure Policy integration, server owners can view and remediate to meet their compliance



Deploy Defender for databases (SQL) anywhere

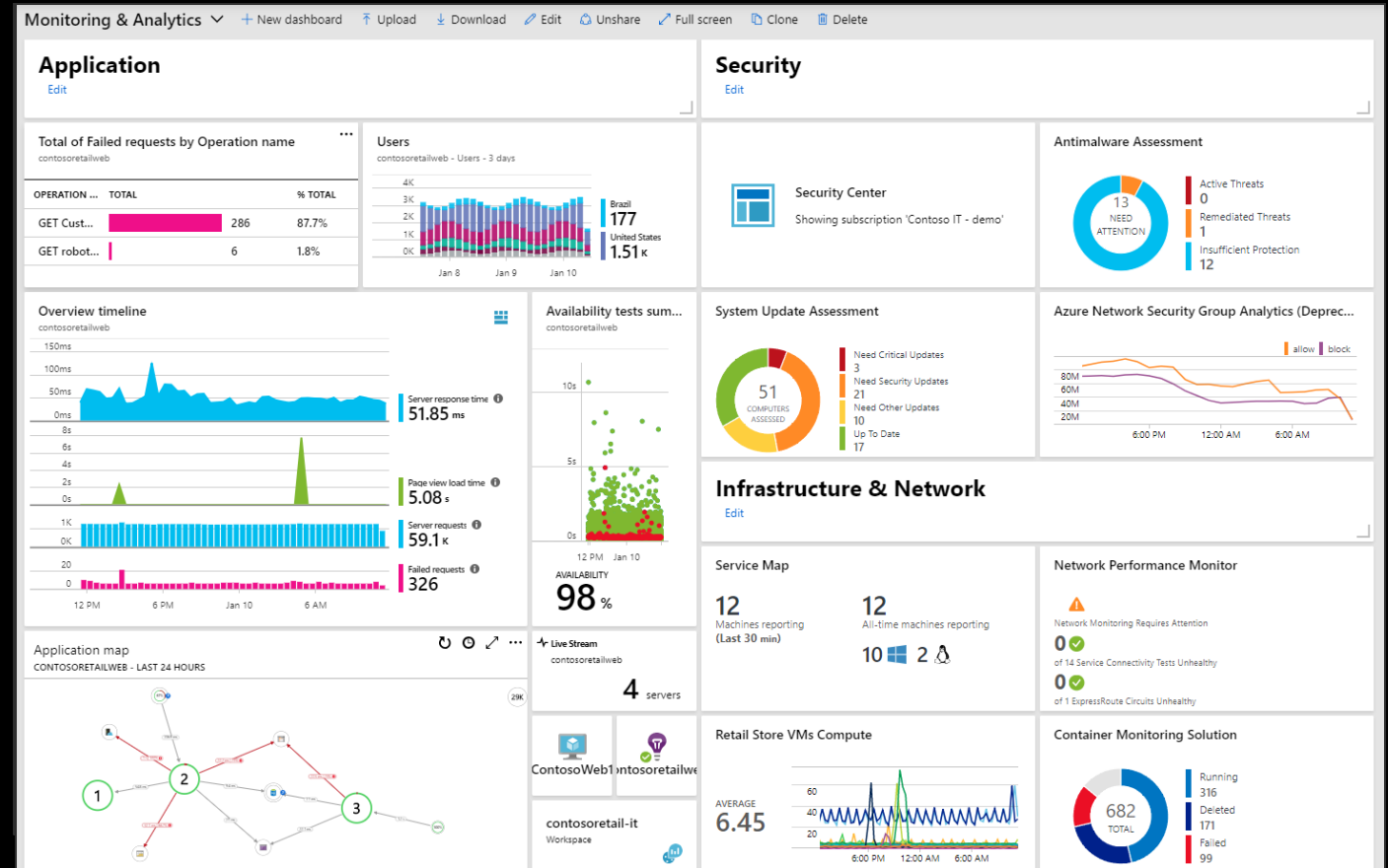
- Monitor and remediate potential vulnerabilities for SQL Servers in Azure, on-premises or in other clouds
- Discover, track, and remediate potential database vulnerabilities with assessment scans.
- Monitor for threats such as SQL injection, brute-force attacks, and privilege abuse with advanced threat protections



Azure Monitor anywhere enabled by Azure Arc

Consistent monitoring across your hybrid and multi-cloud compute

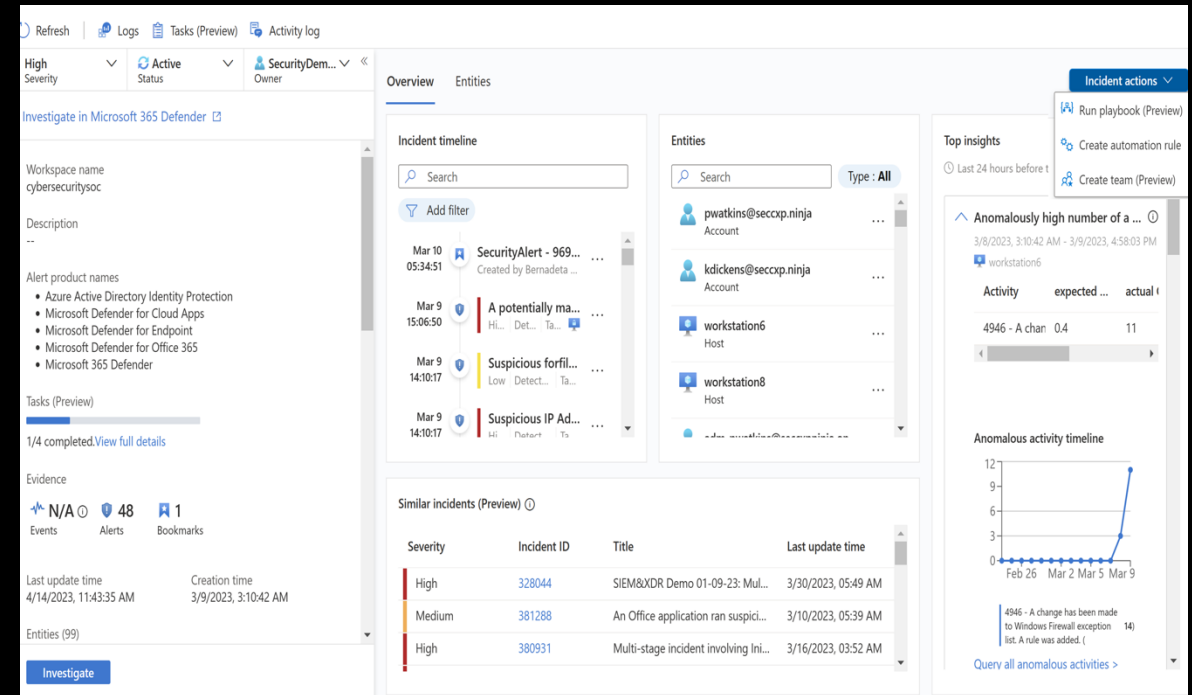
- Detect and diagnose issues across apps and dependencies with application insights
- Correlate issues at infra level with insights for VMs, containers, network, etc.
- Operationalize at scale with smart alerts and automated actions
- Drill down with Log Analytics for troubleshooting & deeper diagnostics
- Create visualizations with Azure dashboards, workbooks, and Grafana



Microsoft Sentinel, powered by AI, enabled by Azure Arc

Stay ahead of evolving attacks with a comprehensive solution to detect, investigate and respond to incidents

- Build-in enhanced UEBA, automation (SOAR), hunting capabilities, and threat intelligence (TI) to expedite investigation and response
- Industry's first unified experience for SIEM and XDR, with built in GenAI and Threat Intelligence
- Quick response to issues through collaboration with built-in case management for SOC teams
- Stay ahead of threats with built-in threat intelligence with the latest insights from Microsoft Defender Threat Intelligence (MDTI) and Microsoft threat research



Reduce mean time to respond (MTTR) by **80%¹**

Comprehensive patching with Azure Update Manager

Update and patch your Windows and Linux servers running anywhere with Azure Update Manager enabled by Azure Arc

→ Streamlined patch management

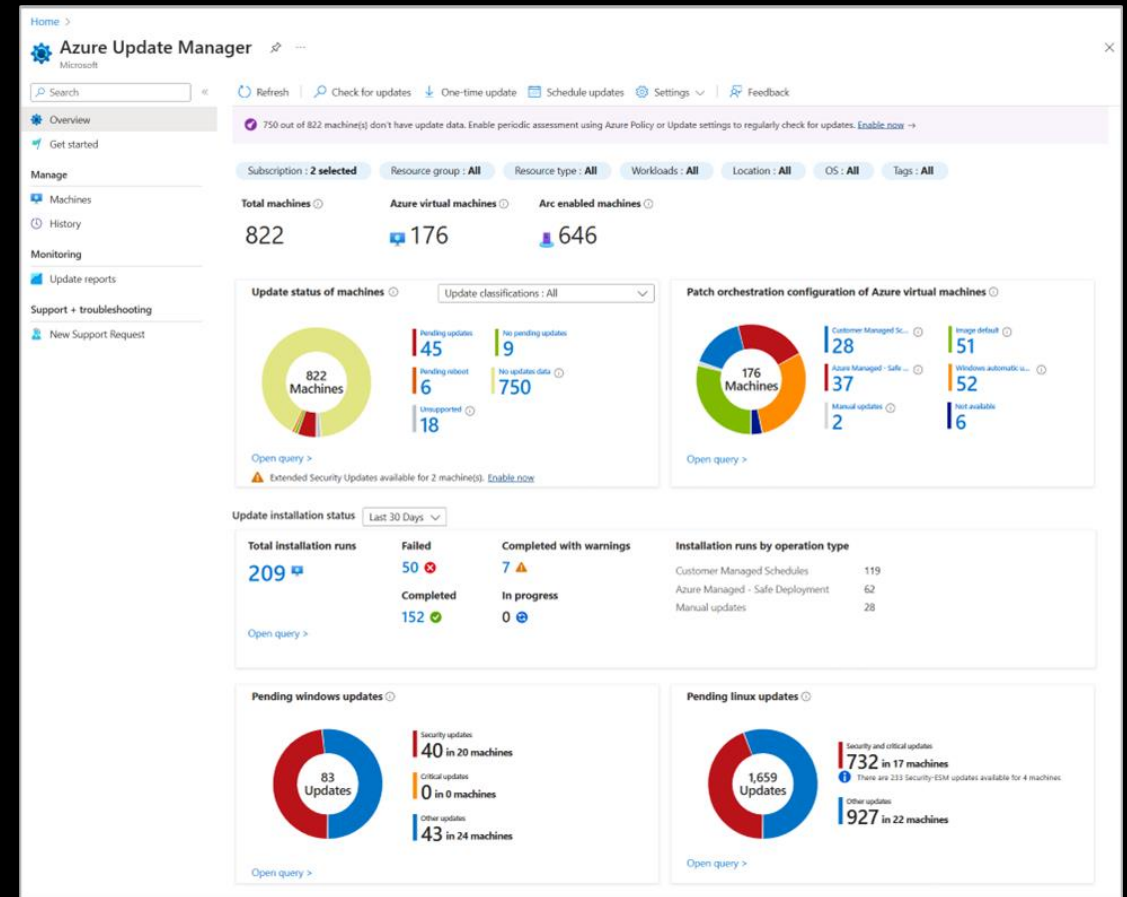
Oversee update compliance for your entire fleet of machines in Azure (Azure VMs), on-premises, and multicloud environments

→ Centralized control with RBAC

Inherit Azure RBAC configured on the machines to control who can perform update operations and edit schedules. Seamless access management to Azure resources with Azure roles and identity

→ Intelligent automation and scheduling

Automate and orchestrate securely with customized, defined maintenance schedules, hot-patching, and auto-patch to reduce reboots and optimize during VM downtimes



ESUs enabled by Azure Arc

Flexible PAYGO monthly billing and savings

Monthly billing model centralized in Azure to run end-of-support operating systems

Visibility and reliability

Ensure consistent Windows Server 2012/R2 and SQL Server 2012 performance with high availability and visibility over your entire data and server estate. Keyless delivery

Security and compliance

Seamlessly extend Azure security and governance to your environment and stay compliant with supported software



Microsoft
Defender
for Cloud



Azure
Update
Manager



Microsoft
Sentinel

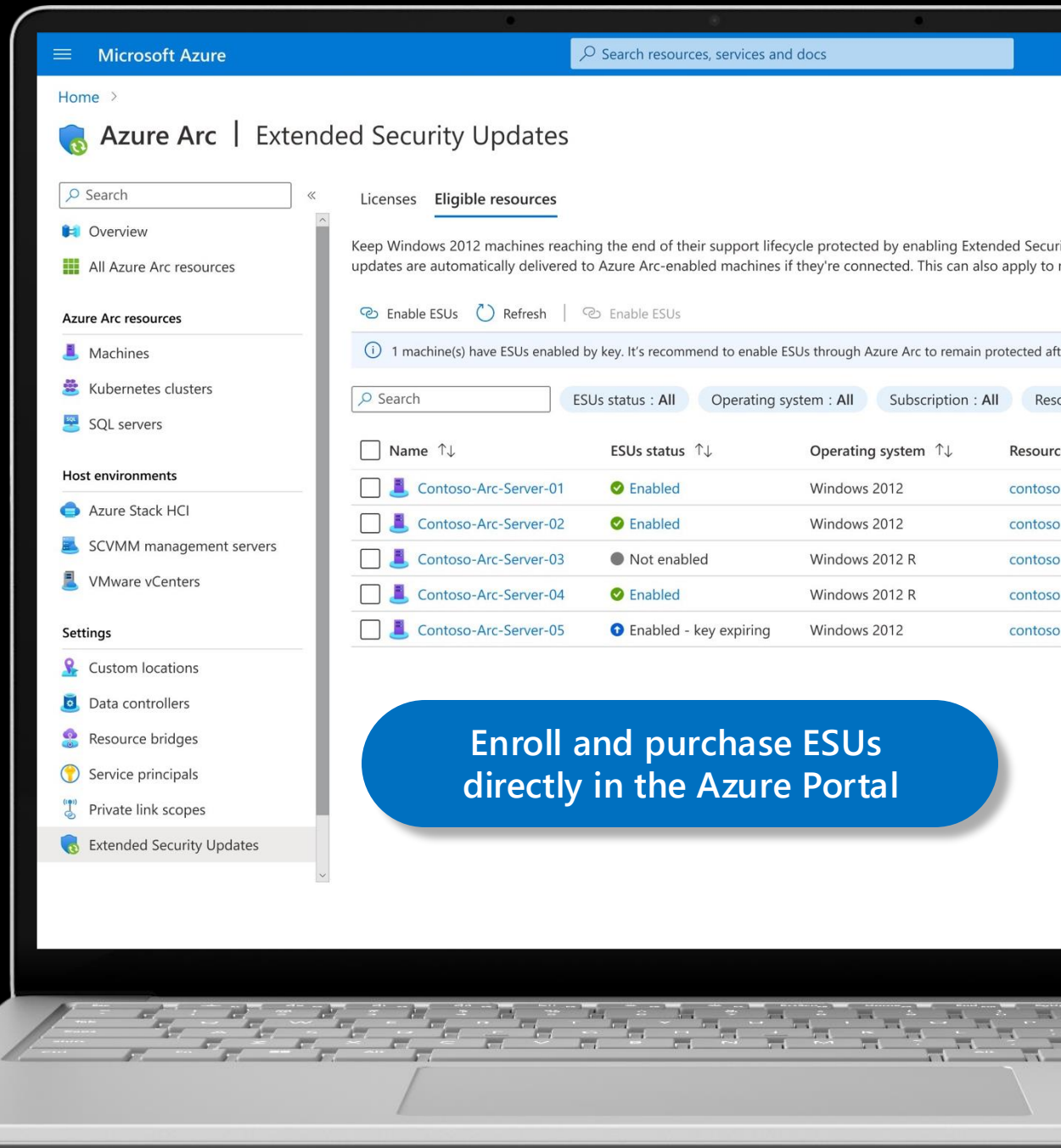


Azure
Policy



Azure
Monitor

For Windows Server 2012/2012 R2,
SQL Server 2012 and SQL Server 2014 (July 2024)



VMware vSphere and System Center VMM

GENERALLY AVAILABLE

Purpose built for VMware vSphere

Bring Azure capabilities your environments with Azure Arc

At-scale management for your VMware vSphere & SCVMM VMs in Azure



Connect at scale

Connect an entire environment managed by vCenter or System Center Virtual Machine Manager at scale



Automatic inventory discovery

Automatic up to date inventory synced from vCenter & SCVMM to Azure and available via Azure Resource Graph



Install Arc Agent at scale

Install Arc agent at scale using portal, CLI, or running the script yourself



Secure, govern and monitor

Perform governance, monitoring and security at scale using Azure Monitor, Microsoft Defender, Azure Policy, Azure Update Manager, and more



← VMware vSphere and System Center environments hosted anywhere →

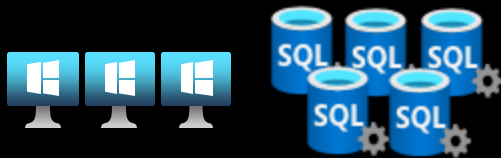
Unified experience with Arc-enabled Servers



Migrate and Modernize to Azure on your own terms

Azure Arc helps you consistently secure and govern infrastructure across environments as you migrate and modernize

1000 X on-premises and/or multicloud
Servers (Windows/Linux/SQL)



Servers that are ready
to move to the cloud

Migrate to Azure

Servers that are not ready
to move to the cloud

Onboard to Azure Arc

700 X Azure VMs



Turn on Azure security,
monitoring and governance
services for all servers
no matter where you are
in the migration journey

300 Arc-enabled
servers



Microsoft Copilot in
Azure



Microsoft Defender
for Cloud



Microsoft Sentinel



Azure Policy



Azure Monitor



Azure Update Manager

Azure Stack HCI

Modern subscription for flexible, familiar hyperconverged infrastructure



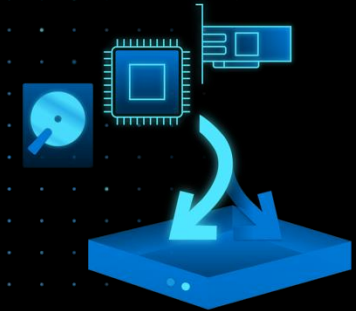
Azure hybrid
by design



Enterprise scale and
price performance



Familiar
management
and operations



Choice of
deployment options

When to use Azure Stack HCI

Distributed compute anywhere for low latency with central cloud management



Affordably run
intelligent edge and
remote branch office
solutions



Industry-best
performance for SQL
Server databases

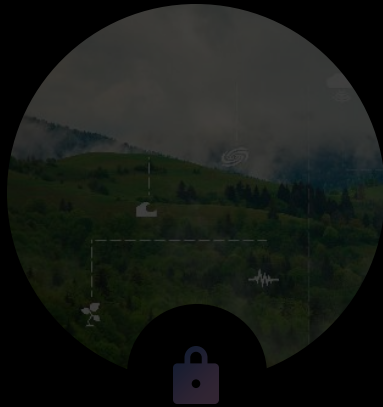
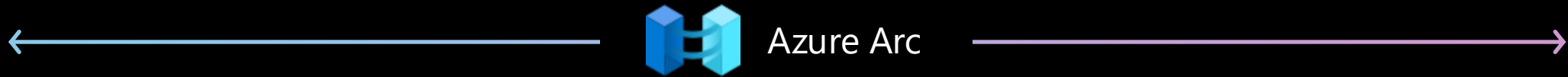


Deploy cloud native apps
and Azure Arc enabled
services through tight
integration with AKS on-
prem



Best in class virtual desktop
experience with Azure
Virtual Desktop for Azure
Stack HCI

Innovate anywhere with Azure



Secure and
govern your
infrastructure and
apps



Build apps once,
deploy and manage
them anywhere



Run Azure data, app,
and AI/ML services
from cloud to edge

Deliver cloud agility anywhere and modernize applications from cloud to edge using Kubernetes

Customer need to

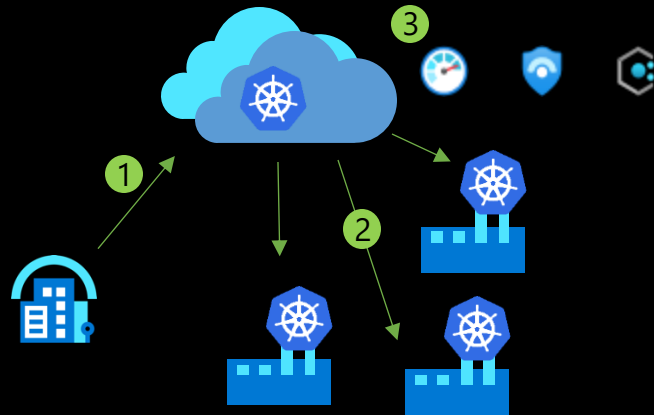
Run Azure services on-premises for low-latency, compliance and distributed computing needs

Build cloud-native Kubernetes applications and deploy in your enterprise and at the edge

Ops-as-Code: Automate repeatable configuration and deployment tasks

Deploy to new or existing infrastructure
– Windows Server, VMware and more

How



- 1 Dev/Test Kubernetes apps in Azure regions
- 2 Continuously deploy and update production apps on Arc-enabled K8s at the edge
- 3 Operate, manage, and secure with the same tools

Microsoft Offerings

Enabled by Azure Arc

- AKS on Azure Stack HCI, Windows Server, Windows IoT
- At-scale Kubernetes management (CNCF)
- GitOps pipelines
- Flux
- Azure monitoring and security for containers
- Open Service Mesh
- Azure Container Apps - preview
- Azure Application Services – preview

Entain

Millennium
bcp

uni
per

Build apps once, deploy and manage them anywhere with Azure Arc



Build and modernize
to cloud-native apps
on any Kubernetes



Bring cloud data
management
to any infrastructure



Consistent GitOps and
policy driven
deployment on any
Kubernetes



Integrate Azure
Security, governance
and monitoring into
your DevOps toolkit



Azure Arc-enabled
Kubernetes



Azure Arc-enabled SQL
Managed Instance



Azure Arc-enabled
PostgreSQL



Azure Stack HCI

vmware



aws



Azure IoT

On-premises, multicloud, and edge

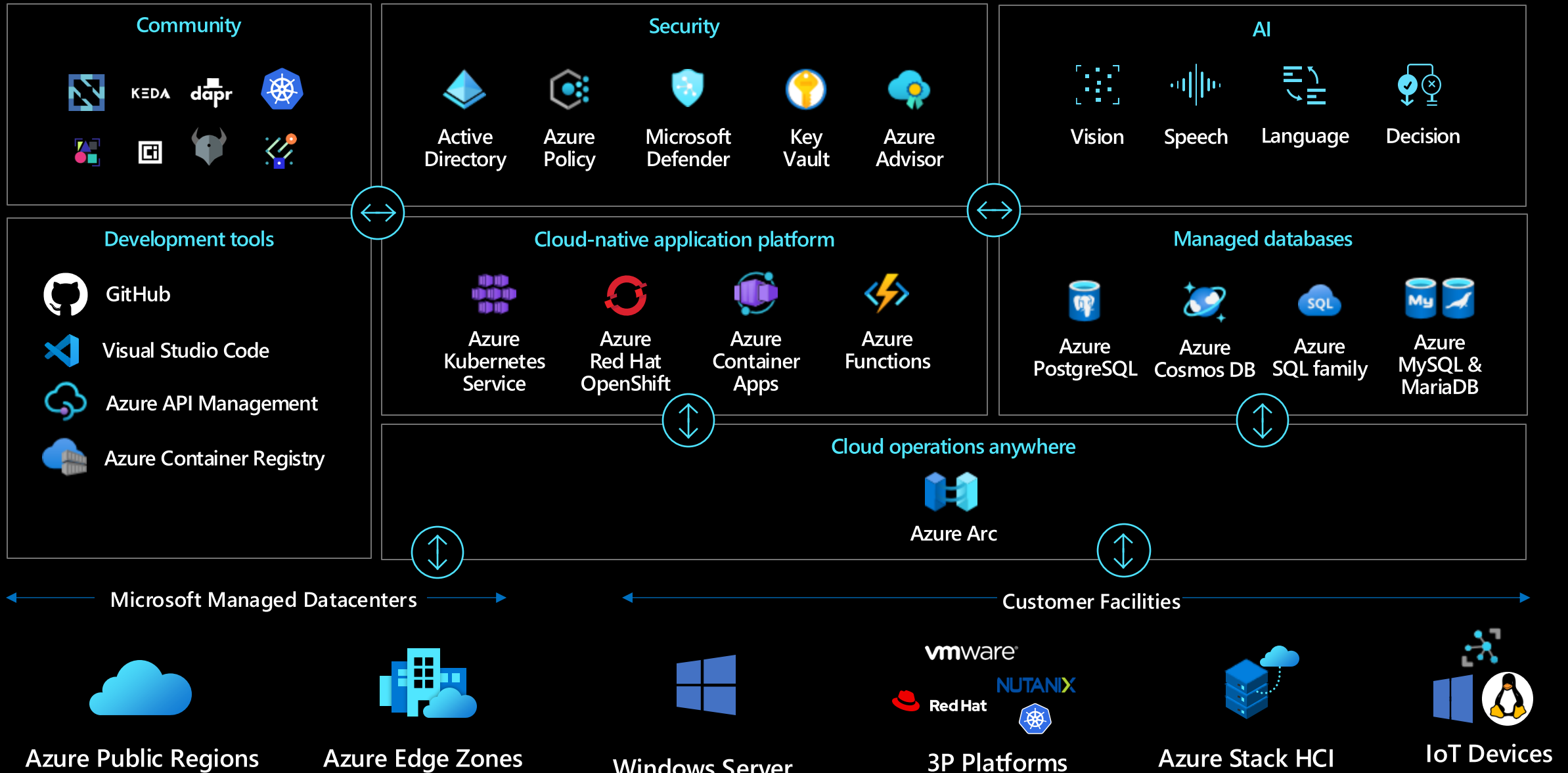
Managed Kubernetes from cloud to edge

GENERALLY AVAILABLE

Flexible deployment options on the infrastructure of your choice



Cloud-native on Azure



Azure Arc-enabled Kubernetes

GENERALLY AVAILABLE

Connect, manage, and operate Kubernetes clusters and applications running anywhere



AKS on Azure Stack
HCI or Windows
Server



Multiple 3P
Kubernetes flavors
supported



Deploy apps and
configurations at-
scale with GitOps



Secure, govern and
monitor all your
clusters, from Azure



AKS



Kubernetes



OpenShift



EKS



GKE



VMware Tanzu

NUTANIX



PLATFORM9

CANONICAL

RANCHER

WINDRVR



MIRANTIS

Create Kubernetes clusters and manage them from the Azure Portal

Home > Azure Arc

Azure Arc | Kubernetes clusters

Microsoft

Search

+ Add Manage view Refresh Export to CSV Open query Assign tags

Create an AKS hybrid cluster (preview)
Add a Kubernetes cluster with Azure Arc

Overview
All Azure Arc resources

Management

- Custom locations
- Data controllers
- Resource bridges (preview)
- Service principals
- Private link scopes

Infrastructure

- Azure Arc virtual machines (preview)

Name	name (tag)	function (tag)	Type	Resource
27405892-b9b8-474d-a5db-fe...	Cafe-Capitol-Hill	AKS Control Plane	Kubernetes - Azure Arc	S2010-ak
68cf9c2a-3e88-4ede-8c10-9d8...	Cafe-Belltown	AKS Control Plane	Kubernetes - Azure Arc	S1010-ak
ba60dc04-25c4-4271-a5d2-68...	RoasteryHQ	AKS Control Plane	Kubernetes - Azure Arc	Roastery
c424a846-5dbd-4249-ac0a-f93...	Cafe-Fremont	AKS Control Plane	Kubernetes - Azure Arc	S3010-ak
f0b9c1db-446f-4467-94e5-0afc...	Cafe-U-District	AKS Control Plane	Kubernetes - Azure Arc	S4010-ak

Home > Azure Arc

Azure Arc | Kubernetes clusters

Microsoft

Search

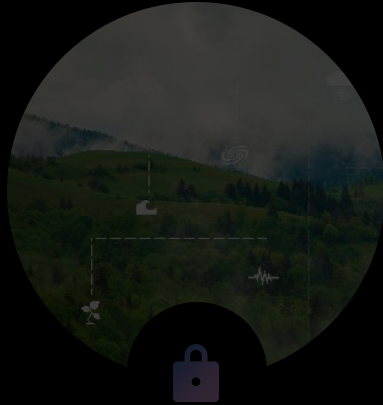
+ Add Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter

No grouping List view

Name	name (tag)	function (tag)	Type	Resource group	Kubernetes version	Location
ba60dc04-25c4-4271-a5d2-68...	RoasteryHQ	AKS Control Plane	Kubernetes - Azure Arc	Roastery-aks	1.23.8	East US
77df868a-793e-4fc3-bea0-2f02...	Cafe-Belltown	AKS Control Plane	Kubernetes - Azure Arc	S1010-aks	1.23.8	East US
27405892-b9b8-474d-a5db-fe...	Cafe-Capitol-Hill	AKS Control Plane	Kubernetes - Azure Arc	S2010-aks	1.23.8	East US
c424a846-5dbd-4249-ac0a-f93...	Cafe-Fremont	AKS Control Plane	Kubernetes - Azure Arc	S3010-aks	1.23.8	East US
f0b9c1db-446f-4467-94e5-0afc...	Cafe-U-District	AKS Control Plane	Kubernetes - Azure Arc	S4010-aks	1.23.8	East US
cafe-belltown-foursale	Cafe-Belltown	FourSale	Kubernetes - Azure Arc	S1010-aks	1.23.8	East US
cafe-capitolhill-foursale	Cafe-Capitol-Hill	FourSale	Kubernetes - Azure Arc	S2010-aks	1.23.8	East US
cafe-fremont-foursale	Cafe-Fremont	FourSale	Kubernetes - Azure Arc	S3010-aks	1.23.8	East US
cafe-u-district-foursale	Cafe-U-District	FourSale	Kubernetes - Azure Arc	S4010-aks	1.23.8	East US

Innovate anywhere with Azure



Secure and
govern your
infrastructure and
apps



Build apps once,
deploy and manage
them anywhere



Run Azure data, app,
and AI/ML services
from cloud to edge

Transform physical operations with cloud and AI

Customer needed

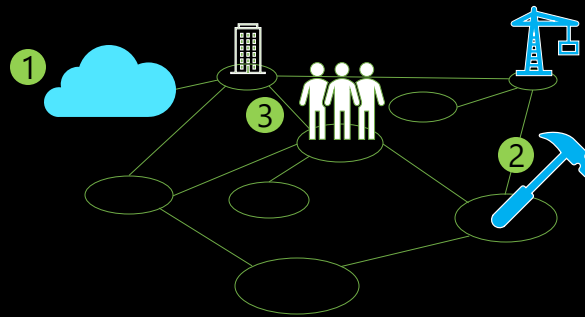
Data connections from physical operations to the cloud, to harness AI and insights

Automated and improve site workflows centrally, from the cloud across multiple locations

Reliable edge solutions that could operate with intermittent connectivity

Distributed compute at the edge for low latency with central cloud management

How



- 1 Model & describe physical processes in Azure
- 2 Collect data, create context, derive insights where needed
- 3 Make decisions and take actions. Repeat.

Microsoft Offerings Enabled by Azure Arc

- SQL MI
- Azure SQL MI Business Critical
- PostgreSQL – preview
- Azure Machine Learning
- Azure IoT Hub
- Azure Digital Twins
- Azure Stack HCI
- Windows IoT



Run Azure data, app, and ML services

Configuration management | Observability | Governance | Security



Microsoft
Copilot
for Azure



Microsoft
Defender
for Cloud



Azure
Monitor



Microsoft
Sentinel



Azure
Policy



Azure
Update
Manager



Configuration
Management



Inventory
Management

Azure Services across your infrastructure



Azure
Stack HCI

vmware



ORACLE



Azure
IoT



Datacenter, multicloud, and edge

Bring cloud manageability to SQL Server anywhere

Manage, govern, and protect your SQL Server from Azure



Manage all SQL estate with better observability

Single view of all SQL Servers deployed on-premises, in Azure and other clouds

Capture key performance metrics and realize faster time-to-value with **monitoring**

Gain proactive & actionable insights with automated **best practices assessment**



Enhance business continuity

Manage **Availability Groups** inventory and track real-time health status

View Always-on **Failover Cluster Instances** and protect with Defender

Automated backups and point-in-time restore for seamless application of policy



Govern and protect all SQL estate using Azure

Protect your on-premises & multicloud data using **Microsoft Defender** for Cloud

Enhance security using **Extended Security Updates** as a service & **auto patching**

Central insights and governance across all SQL Servers with Microsoft Purview



Azure billing enabled by Azure Arc for SQL Server anywhere, with simplified onboarding

Management Capabilities Comparison

 Not supported  Supported  Future support

Customer Infrastructure or 3P Clouds			Azure
Built-in capabilities	SQL Server	Arc Enabled SQL Server	SQL Server Azure VM
Pay-as-you-go billing			
Azure AD auth			
Best practices assessment			
Inventory management			
Auto patching			
Auto backup			
Monitoring			
Defender for SQL Server			
TDE with Azure Key Vault			
HA/DR inventory management			
License usage management			
Cluster aware patching and upgrades			
Purview premium			
Point-in-time restore			
Backup long-term retention to Azure			

*Some information regarding product roadmap may be substantially modified before it's commercially released. Microsoft makes no warranties, express or implied, with respect to the information provided here.

**bwsqlserver2022**

☆ ...

Server - Azure Arc

🔍

Search

🗑️

 Delete

🔄

 Refresh

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
- Connect (preview)
- Windows Admin Center (preview)
- Security
- Extensions
- Properties
- Locks
- Operations
- Policies
- Machine Configuration
- Automanage
- Updates
- Inventory
- Change tracking
- Monitoring

Essentials

JSON View

Resource group (move)	: bwvmsrg	Computer name	: bwsqlserver2022
Status	: Connected	FQDN	: bwsqlserver2022
Location (move)	: East US	Operating system	: Windows Server 2022 Datacenter
Subscription (move)	: Microsoft Azure Sponsorship	Operating system version	: 10.0.20348.1487
Subscription ID	: e1775f9f-a286-474d-b6f0-29c42ac74554	Cloud provider	: N/A
Agent version	: 1.25.02203.713	Manufacturer	: Microsoft Corporation
		Model	: Virtual Machine

Tags ([edit](#)) : [Click here to add tags](#)

Capabilities Recommendations Tutorials



Updates
Customize updates for your Arc-enabled server.



Logs
Enable additional monitoring capabilities.



Monitoring insights
Enable additional monitoring capabilities.



Policies
View compliance by assigning guest configuration policies to your machine.

● Not configured



Change tracking and inventory
Enable consistent control and compliance of this machine with Change tracking and inventory.



Security
Continuously monitor for potential security vulnerabilities and recommendations.



Windows Admin Center (preview)
Manage your operating system from anywhere — without needing a VPN

Azure Arc-enabled data services

Bring cloud data management to any infrastructure

GENERALLY AVAILABLE

Azure Arc-enabled SQL Managed Instance –
Business Critical

PREVIEW

Azure Arc-enabled PostgreSQL



Supports all connectivity modes



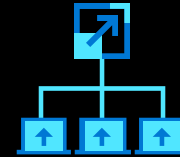
Always up to date

Automated updates
No downtime, evergreen



Multi-layer security

Comprehensive encryption
Azure RBAC & Policy



Elastic scale

Scale up and down
Pay for what you use



Simplified DevOps

Deploy in seconds
Built in HA/DR



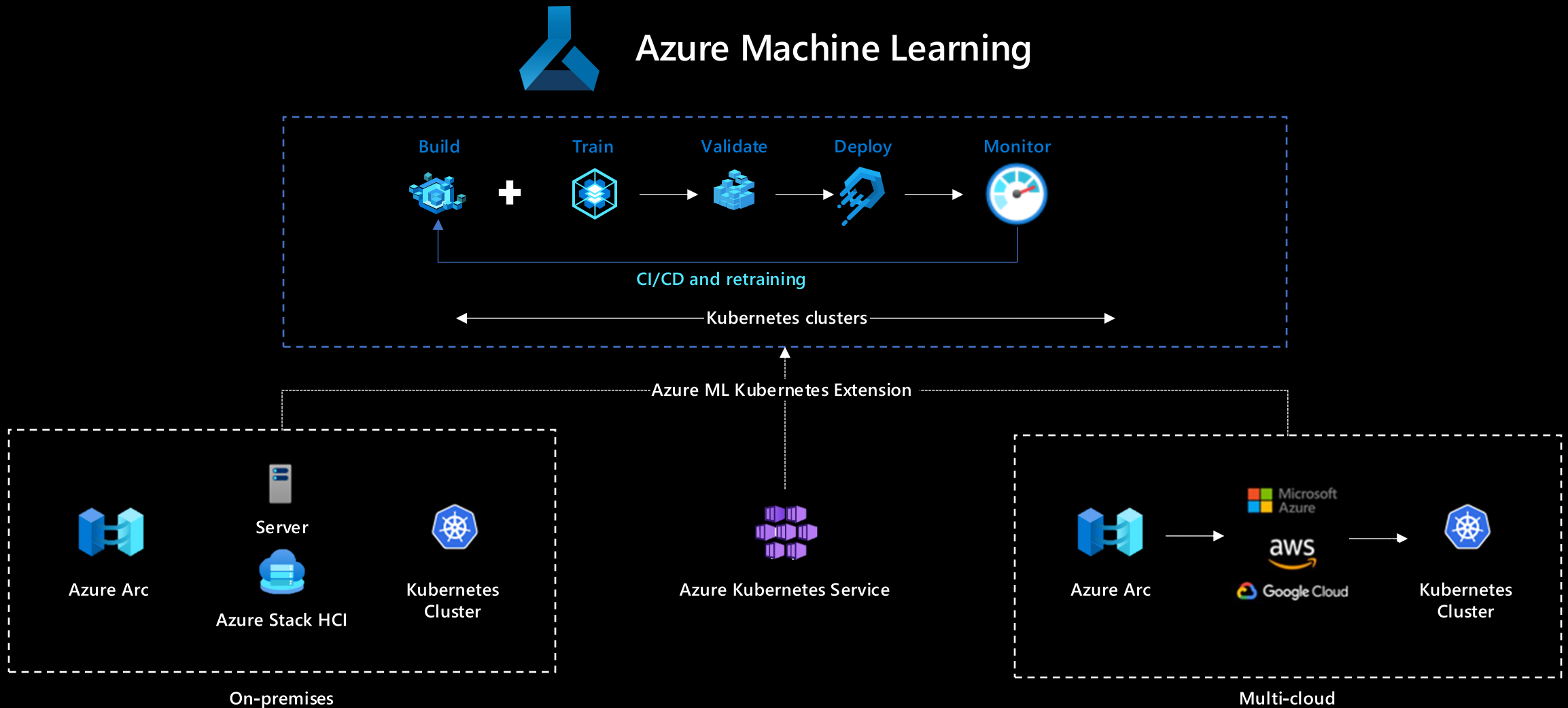
Any infrastructure



Azure Arc-enabled machine learning

GENERALLY AVAILABLE

Bring fully operationalized machine learning to on-premises and multicloud





Azure Arc-enabled Servers pricing

Azure Arc is free to install. Basic management services like inventory, tagging, server organization, RBAC, and querying with Azure Resource Graph are free. Paid services are:



Microsoft Defender for Cloud **\$5/server/month (Plan 1) or \$15/server/month (Plan 2)**

Free for the first 30 days, with 500MB/server included data. \$0.02/server/hr.



Azure Monitor **\$2.30/GB [pay-as-you-go]**

Billed for log analytics, tests, metrics, alerts, and notifications. 5GB per billing account/month is included



Microsoft Sentinel **\$2/GB-ingested [pay-as-you-go]**

Billed for volume of data ingested for analysis in Microsoft Sentinel, stored in the Azure Monitor Log Analytics workspace



Azure Update Manager **\$5/server/month [pay-as-you-go]**

Charged at a daily prorated value of \$0.16/server/day. Only charged for days when Arc servers are connected and managed



Azure Policy Guest Configuration **\$6/server/month**

Policies assigned by Defender for Cloud, ESUs, or on Azure Stack HCI resources are exempt

New cloud billing model for SQL Server (pay-as-you-go*)

Better cost efficiency when paying only for what you use



SQL Server pay-as-you-go
licensing enabled by Azure Arc
(per core per month/hour)

Pricing	Monthly rate	Hourly rate
Standard Edition	\$73	\$0.100
Enterprise Edition	\$274	\$0.375



Optimize asset capitalization

- Organizations that focus on EBITDA and capitalized expenses prefer to purchase their licenses
- Customers that bill on a cost-plus or other expense-based chargeback model will prefer the Pay-As-You-Go model



Optimize upfront costs

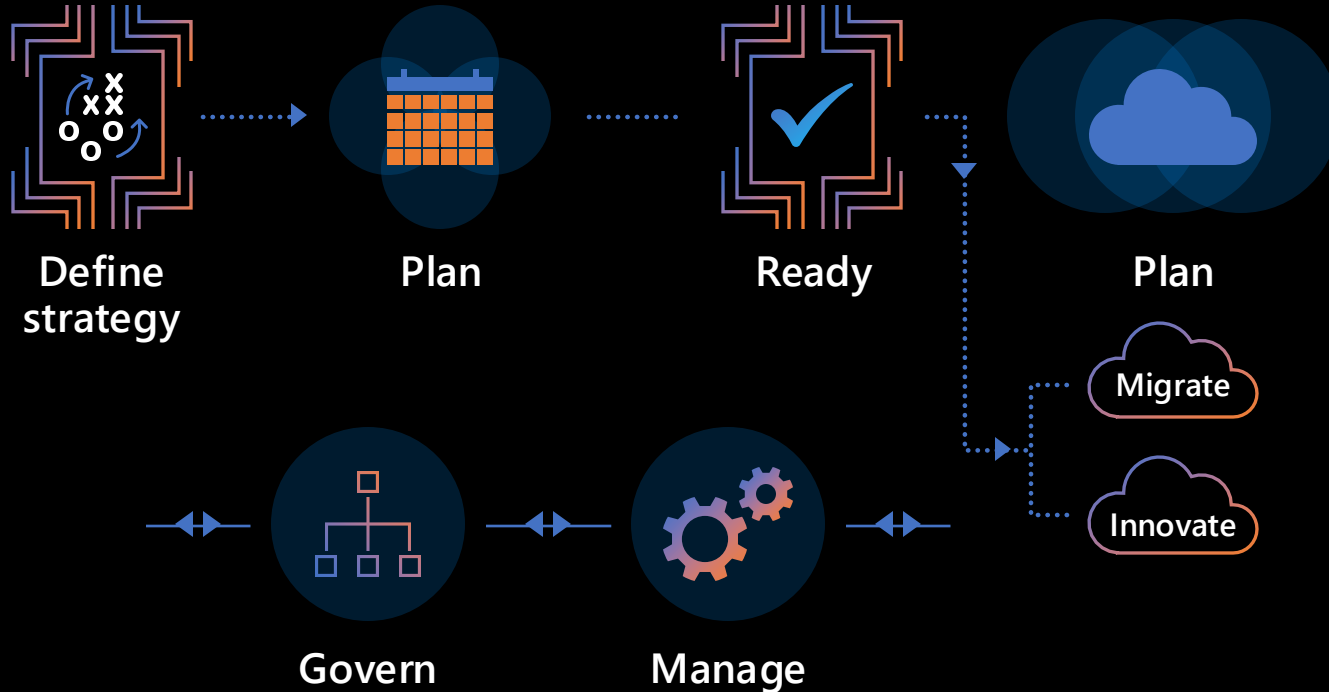
- Pay-As-You-Go doesn't have any upfront costs and is billed monthly but in the long term it may have a higher TCO



Optimize for periodic consumption

- Reduced IP cost of periodic workloads such as of ERP, payroll, giving campaigns and others
- Scale down the entire VM or stop SQL Server instance

Complete guidance for an adaptive cloud approach



[Microsoft Cloud Adoption Framework for Azure](#) | [Microsoft Azure](#)

Start with the cloud adoption framework to guide your cloud journey and build on it using the hybrid adoption scenario guidance

-  Build skills across your team with [Microsoft Learn](#)
-  Accelerate deployment with [Reference Architectures](#)
-  Optimise workloads with [Azure Well-Architected](#)
-  Apply [best practices](#) to rapidly onboard
-  Review [technical documentation](#) on featured products

Next steps

Install Azure Arc

Gain visibility into your entire on-premises and multicloud estate for a single pane of glass

Manage and secure

Get started using Microsoft Defender for Cloud, Azure Monitor, Copilot, and more

Azure Migrate and Modernize

Utilize the Azure Migrate and Modernize program to deploy Arc at scale and securely move to the cloud with proven best practices and incentives to accelerate

Learn more

Azure Arc Jumpstart:

<https://aka.ms/AzureArcJumpstart>

Technical documentation:

<https://aka.ms/AzureArcDocs>

Azure Arc Learning Path:

<https://aka.ms/AzureArcLearn>

Azure Arc Learning Companion:

<https://aka.ms/pathways>

Azure Arc ESU Docs:

<https://aka.ms/arcesudocs>

Azure Arc Total Economic Impact Report:

<https://aka.ms/arcforresterstudy>

SQL Arc:

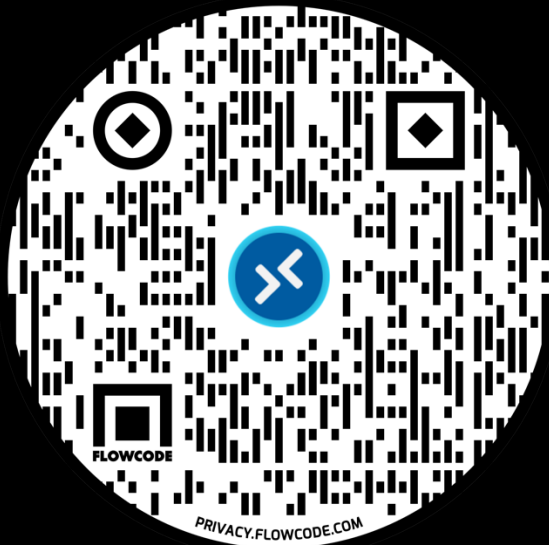
<https://aka.ms/ArcSQL>



Azure Arc

Any Infrastructure, Any Cloud





**Azure Virtual Desktop
& Windows 365 Italian User Group**



Intune Italian User Group



Microsoft Security Italian User Group

Thank you



Presentazione aziendale

skybackbone engenio



Sommario

01

Presentazione
aziendale

02

eREACT

03

eVA

04

eSIEM+

Chi siamo ?

Fondata nel 2011 a Modena, da un team con **esperienza pluri-decennale**, siamo una **Società di Consulenza** nella **gestione dei Sistemi Informativi Aziendali** con particolare **focus sulla Cyber Security** e sulle applicazioni ERP in Cloud.

Cosa facciamo ?

Forniamo **servizi innovativi** con l'obiettivo di **ottimizzare ed automatizzare tutti i processi di gestione del sistema ICT** di un'azienda.

| Cloud |

| Servizi Automatici |

| Servizi Gestiti |

| Security |





Managed Services



Il futuro è a portata di mano.

Il futuro è **gestito**.



eREACT servizio di Patch Management



eREACT - Patch Management

Windows | Linux | SQL Server

Perché le Aziende non applicano le Patch?



1) E se poi qualcosa va storto? Mancanza di piano per tornare velocemente a «Prima dell'Attività».

eREACT



Snapshot/Cloni/Backup automatizzati, con successiva pulizia



2) Downtime... Riavvio dei Server, dei servizi, delle applicazioni. Per quanto tempo saranno fermi i miei sistemi?

eREACT



Riavvio orchestrato = minimo fermo possibile

eREACT – cosa può fare?

eReact si adatta «sartorialmente» alle infrastrutture e alle dipendenze specifiche di ogni cliente.

Riavvio ordinato: Database, Application Server, Gateway, DMZ, Bilanciatori ...

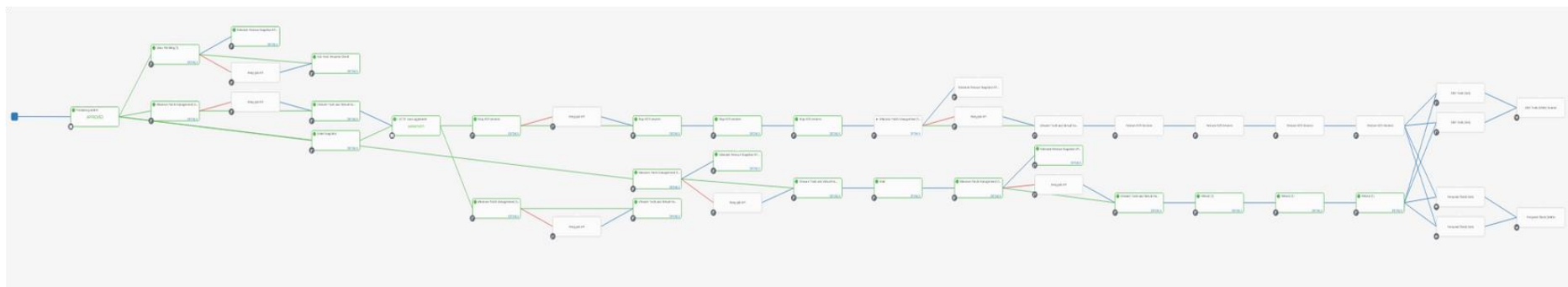
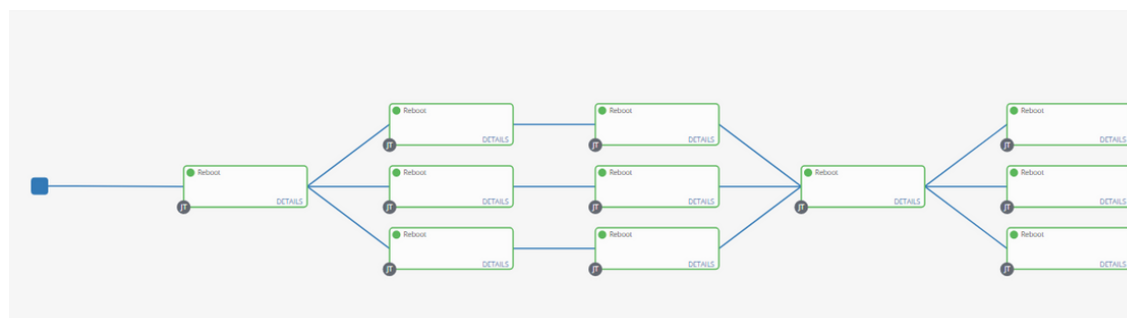
①

- Crea/Rimuovi Snapshot
- Attiva Backup su richiesta
- Aggiorna Windows/Linux/SQL
- Avvia/Arresta Servizi
- Spegni/Accendi Server
- Riavvia/Reset

②

- Switch Cluster
- Aggiorna VMware Tools
- Check URL
- Check Process
- Gestisci Attività Pianificate

eREACT - esempi di Workflow



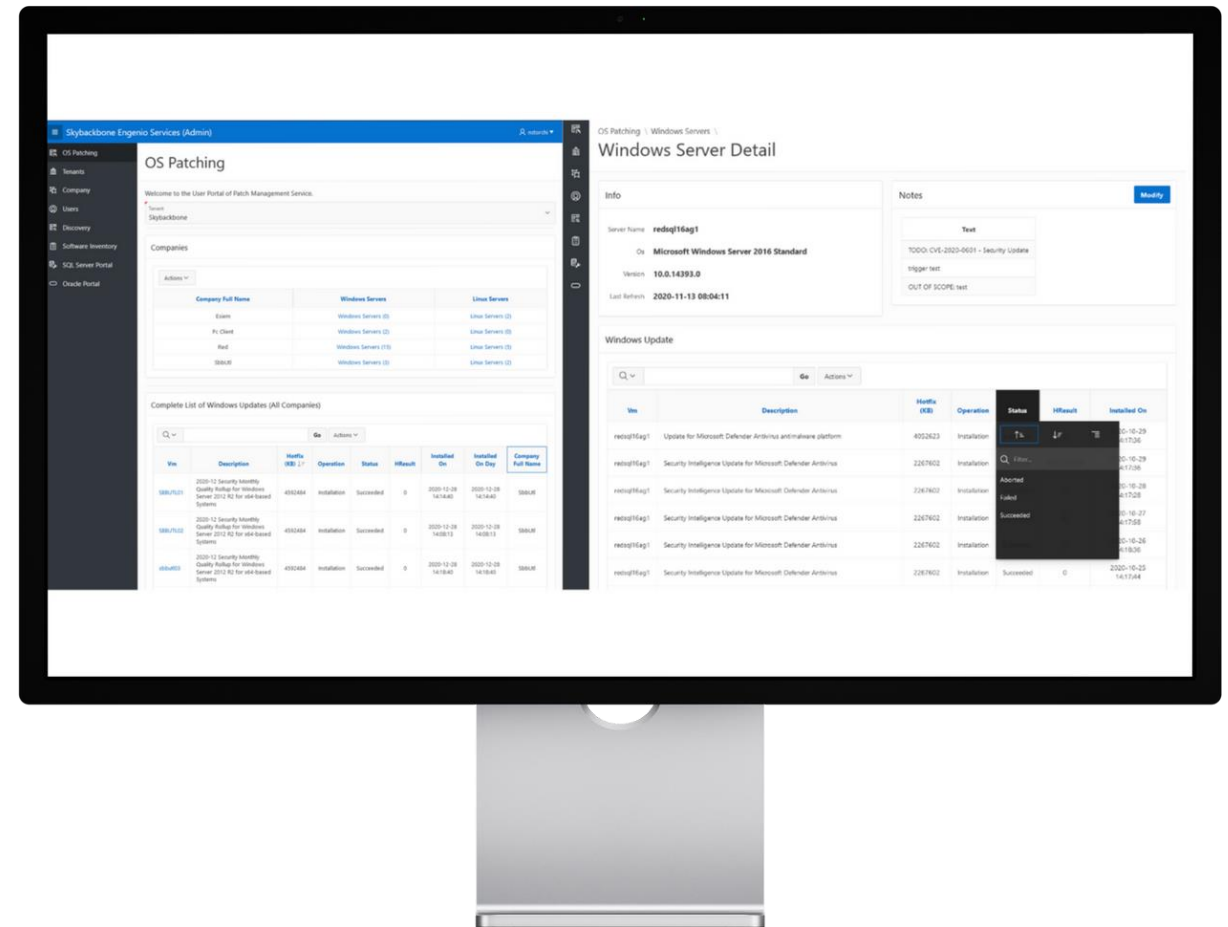
eREACT - Portale Web



Dati aggregati o in dettaglio



Divisione per ambiente produttivo



eREACT - Portale Web



Divisione per sistema operativo



Report interattivi e scaricabili

Server info

Q Go Actions

Vm	Os	Reboot Pending	Boot Time	Free Space	Last Update (KB)	Installed On
REDUTL01	Microsoft Windows Server 2012 R2 Standard	False	2020-11-16 09:52:59	20.68 GB [51.7%]: Increase Free Space	4586845	2020-11-16 09:51:09
eng-sql-mm-2	Microsoft Windows Server 2012 R2 Standard	False	2020-09-30 14:34:22	42.69 GB [53.36%]	4577066	2020-09-30 14:29:07
red-win2008-dc	Microsoft Windows Server 2008 R2 Standard	False	2020-02-28 17:05:52	9.1 GB [22.75%]: Increase Free Space	4503548	2020-02-15 03:15:01
red-win2008-ora	Microsoft Windows Server 2008 R2 Standard	False	2020-04-28 17:00:28	32.38 GB [40.48%]	4536952	2020-02-16 03:00:15
red-win2008-sql	Microsoft Windows Server 2008 R2 Standard	False	2020-01-28 13:53:31	3.14 GB [7.85%]: Increase Free Space	4525251	2019-11-26 11:30:28
redcel01	Microsoft Windows Server 2012 R2 Standard	False	2020-11-16 09:50:32	21.91 GB [54.78%]: Increase Free Space	4586845	2020-11-16 09:49:01
reddc02	Microsoft Windows Server 2019 Datacenter	False	2020-09-30 14:41:33	80.07 GB [80.88%]	4570333	2020-11-16 14:11:58
redsql16ag1	Microsoft Windows Server 2016 Standard	False	2020-11-05 10:01:04	34.66 GB [43.33%]	4577015	2020-10-29 14:17:36
redsql16ag2	Microsoft Windows Server 2016 Standard	False	2020-09-30 15:43:47	31.4 GB [39.25%]	4577015	2020-11-16 15:15:45
redsql16agwtn	Microsoft Windows Server 2016 Standard	False	2020-09-30 14:49:47	35.57 GB [44.46%]	4577015	2020-11-16 14:20:43
redsql16fc1	Microsoft Windows Server 2016 Standard	False	2020-11-05 04:36:56	28.02 GB [35.03%]: Increase Free Space	4577015	2020-11-17 04:58:31
redsql16fc2	Microsoft Windows Server 2016 Standard	True	2020-02-20 12:46:26	27.09 GB [33.86%]: Increase Free Space	4534307	2020-06-09 13:51:14
redsql16fcwtn	Microsoft Windows Server 2016 Standard	False	2020-09-30 15:04:09	39.6 GB [49.5%]	4577015	2020-11-16 14:35:15
redsql19a	Microsoft Windows Server 2019 Datacenter	False	2020-09-30 14:59:43	15.27 GB [31.16%]: Increase Free Space	4570333	2020-11-16 14:29:32
redsql19b	Microsoft Windows Server 2019 Datacenter	False	2020-09-30 14:56:44	15.67 GB [31.98%]: Increase Free Space	4570333	2020-11-16 14:26:41

1 - 15

Dashboard
19097 HOSTS

Perchè scegliere eREACT ?

Dashboard
14391 HOSTS

| Servizio Gestito |

| Integrazione Sistemi |

| Agentless |

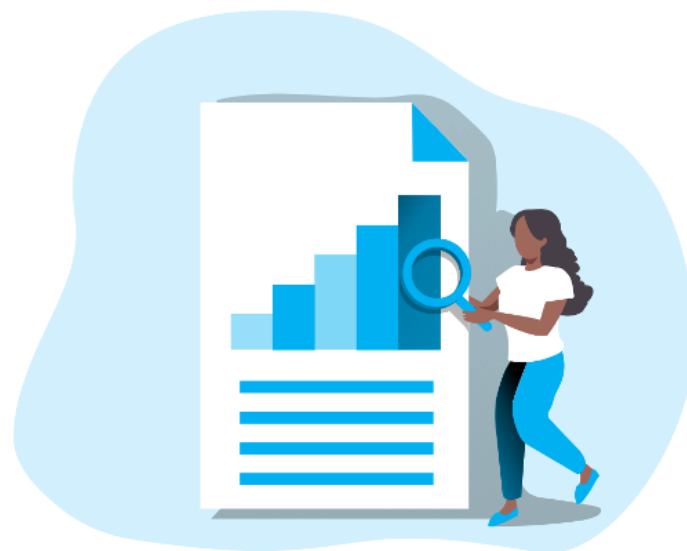
VMware, Azure, Hyper-V, Nutanix AHV (gestione delle snapshot, backup, cloni)

| Servizio personalizzato |

| Automatico |

| Reports self-service Portal |

eVA servizio di Vulnerability Assessment



Le vulnerabilità vanno gestite.

Ogni settimana vengono individuate più di 2000 vulnerabilità e ogni giorno una 0 day (Vulnerabilità zero-day) viene scoperta.

L'approccio "only patch" oltre ad essere difficilmente attuabile è diventato inefficace e le aziende sono continuamente esposte a nuovi rischi.



| 65 giorni |

Normale tempistica per applicare le patch.



| 7 mesi |

Per scoprire un nuovo data breach.



| 80% dei data breach |

Derivano da un patch management insufficiente.

Cosa fa eVA.

Solo attraverso un **monitoraggio costante** delle **vulnerabilità** si **riduce** notevolmente la **superficie** di **attacco** dell'infrastruttura IT e quindi la possibilità che si verifichi **un incidente cyber**.

eVA è il servizio gestito da Skybackbone che **scansiona** periodicamente le **infrastrutture**, permettendo di **identificare e trattare le vulnerabilità prima** che vengano sfruttate dagli hacker.



| Sorveglianza |

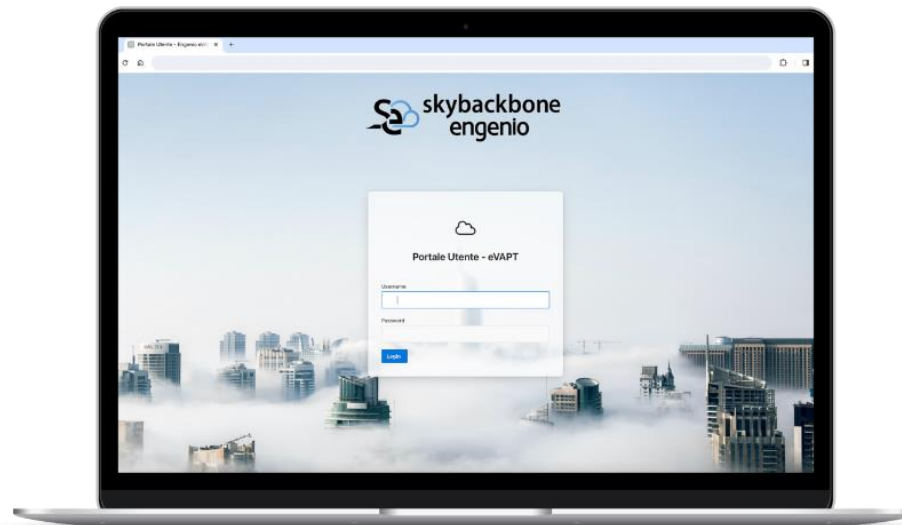
Costante



| Infrastruttura IT |

Sicura

Punti chiave di eVA.



| Periodic Reports |

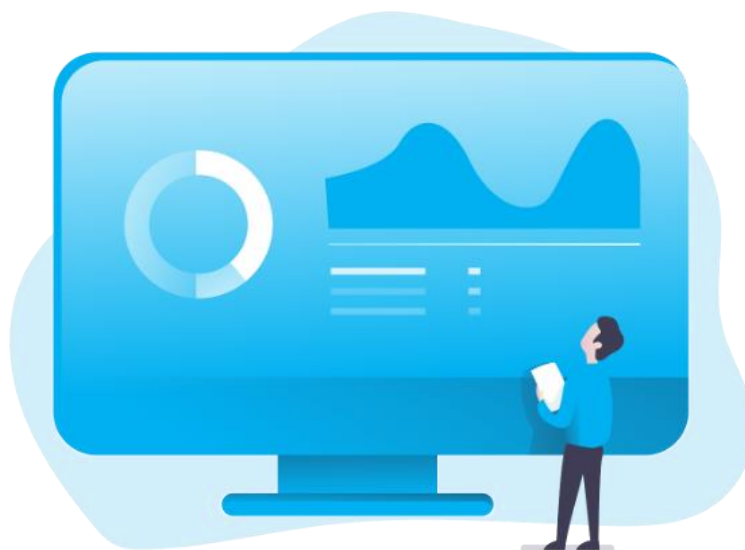
| Remediation Tips |

| No System Impact |

| Cyber Team Dedicated |

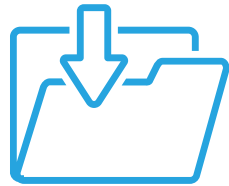
Semplifica attività complesse di analisi automatizzandole e dona alla tua azienda le competenze di un team cyber.

eSIEM+ servizio di Log Management



Gestione dei Log: estrarre il massimo valore

E tu cosa fai con i log che raccogli?



Vuoi solamente
conservarli ?

oppure



Vuoi **ricavare informazioni**
utili ?

Una volta **estratti i log**, sei **pronto** per **procedere**.

Cosa fa eSIEM+

All in one solutions.



Machine
Learning



Logging
Analytics



Vulnerability
Scanning



Threat
Defense



Alarms



Monitoring

Soluzione Cloud Completa per il Log Management.

Più di **300 applicazioni supportate**...ma il numero è costantemente in crescita!



Sistemi Operativi Supportati

Windows, Linux, Solaris, AIX, AS400

Database Supportati

SQL Server, Oracle, Postgres, MySQL, DB2, Cassandra, MongoDB

Web Server

Apache HTTPD, NGINX, Microsoft IIS

Application Server

Tomcat, Jboss, Weblogic



Hypervisor / Orchestrator

VMWare, Xen, Docker, Kubernetes, Oracle VM

Apparati Networking

Fortigate, Cisco, F5, CheckPoint

Suite di Sicurezza

QRADAR, TrendMicro, McAfee

Storage

NetApp FAS, Hadoop

Software Gestionali

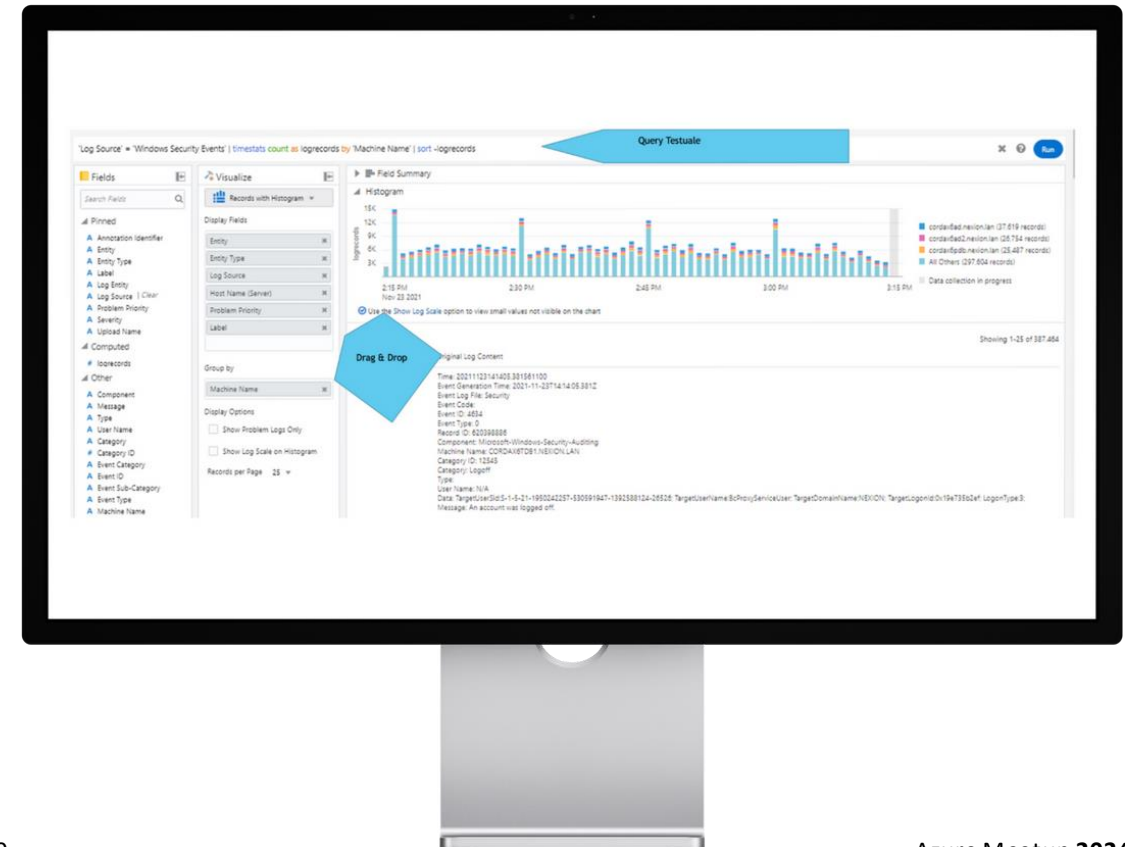
SAP, PeopleSoft

Front End per Ricerche ed Analisi.

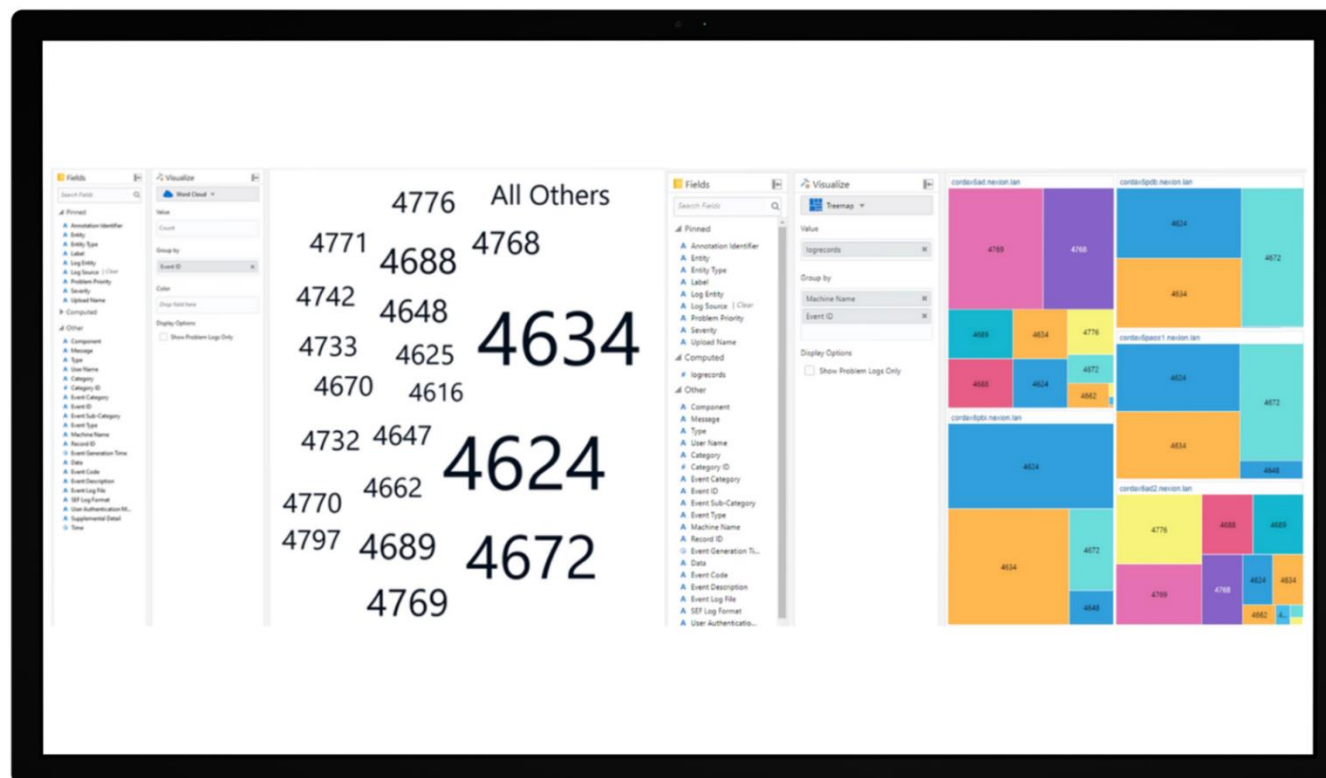
Pagina Web su cui fare Query semplici e complesse:

(A) query semplici utilizzando Drag & Drop degli Elementi

(B) query complesse raffinando il Testo della Query



Front End per Ricerche ed Analisi.



GRAZIE

Dal **Team** di **skybackbone**
engenio

Contatti.



+39 059 868 0754



marketing@skybackbone.it



www.engenio.it





Proteggi le Tue Identità con Microsoft Entra: *Innovazione e Sicurezza*

Vito Trentadue – Pre-Sale & Cloud Solution Architect Microsoft & Microsoft Certified Trainer – TD SYNnex

About me

- **Vito Trentadue**
- **Pre-Sale & Cloud Solution Architect Microsoft**
- **Microsoft Certified Trainer**
- **Focus su Azure AVD, Infrastruttura**
- **Altri focus, AI, Copilot, Fabric**

[Profilo LinkedIn](#)



Agenda

- **Microsoft Entra – Prodotti Free**
- **Microsoft Entra – Prodotti SMB**
- **Microsoft Entra Plans**
- **Microsoft Secure Future Initiative**
- **Defender for Cloud App**

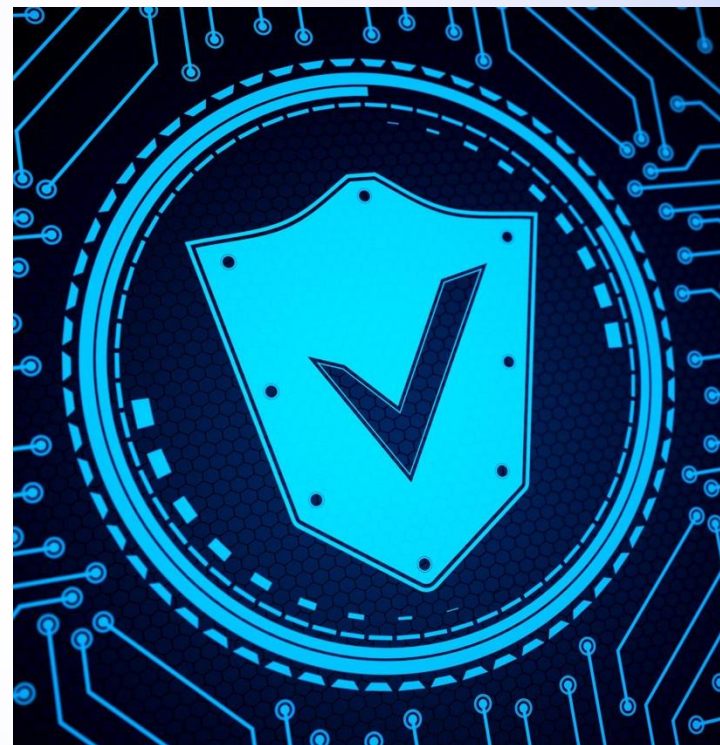
Microsoft Entra – Security Default

Cosa sono i Security Default:

Servono a semplificare la protezione dell'organizzazione da attacchi correlati all'identità, ad esempio password spraying, riproduzione e phishing comuni negli ambienti attuali.

A chi sono destinate queste impostazioni?

- Alle organizzazioni che vogliono aumentare la propria postura di sicurezza ma non sanno come o da dove iniziare.
- Alle organizzazioni che usano il livello gratuito delle licenze Microsoft Entra ID.



Microsoft Entra – Security Default

Feature	Description
Multifactor Authentication (MFA)	Requires all users to register for MFA and perform MFA when necessary.
Blocking Legacy Authentication	Prevents the use of older, less secure authentication protocols.
Protecting Privileged Activities	Ensures that privileged activities, such as access to the Azure portal, are protected by MFA.
Automatic Enablement	Security defaults are automatically enabled for new tenants created on or after October 22, 2019.
Administrator Requirements	Administrators are required to perform MFA.
User Registration	Users must register for MFA within 14 days of security defaults being enabled.
Revoking Active Tokens	Administrators should revoke all existing tokens to require all users to register for MFA.
Disabling Security Defaults	Security defaults can be disabled if other security protections, such as Conditional Access, are in place.
Fraud Alert	Allows users to report fraudulent verification requests. This feature will be removed on March 1, 2025, and replaced by the "Report suspicious activity" feature.
Identity Protection	Configures reports and alerts to protect identities.

Microsoft Entra – Altri strumenti free

- **Microsoft Entra Audit log**
- **Microsoft Entra Sign-in log**
- **Azure Activity Log**
- **Office 365 Audit Log**
 - **SharePoint activity**
 - Exchange admin activity
 - Teams
- **Alerts** from Microsoft Defender for Cloud, Microsoft 365 Defender, Microsoft Defender for Office 365, Microsoft Defender for Identity, Microsoft Defender for Endpoint and Microsoft Defender for Cloud Apps

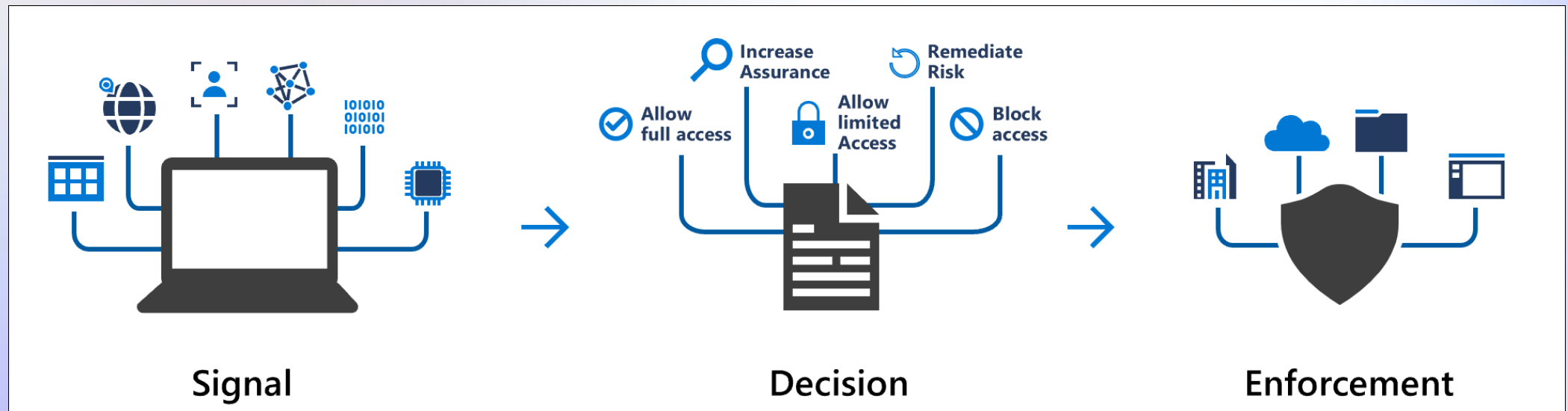


Microsoft Sentinel

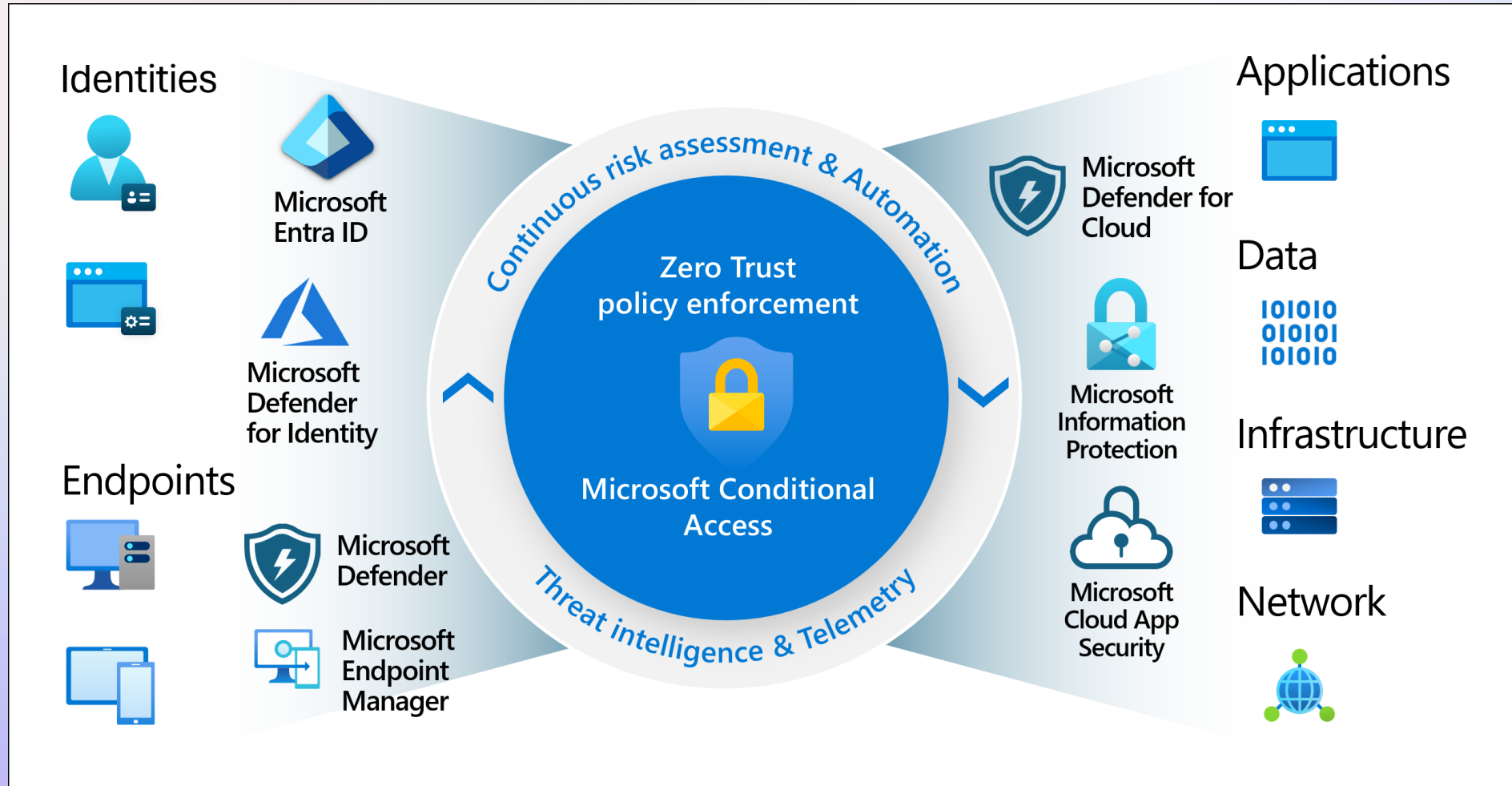
Microsoft Entra – Conditional Access

Cos'è

L'accesso condizionale di Microsoft Entra riunisce i segnali per prendere decisioni e imporre i criteri dell'organizzazione



Microsoft Entra – Conditional Access





Decisioni comuni:

- Blocca accesso
 - Decisione più restrittiva
- Concedere l'accesso
 - Decisione meno restrittiva, può comunque richiedere una o più delle opzioni seguenti:
 - ✓ Richiedere l'autenticazione a più fattori
 - ✓ Richiedere un livello di autenticazione
 - ✓ Richiedere che il dispositivo sia contrassegnato come conforme
 - ✓ Richiedere un dispositivo aggiunto a Microsoft Entra ibrido
 - ✓ Richiedi app client approvata
 - ✓ Richiedere criteri di protezione dell'app
 - ✓ Richiedere la modifica della password
 - ✓ Richiedere le condizioni per l'utilizzo

Microsoft Entra – Plan Comparison

Feature	Microsoft Entra ID Free - Security defaults (enabled for all users)	Microsoft Entra ID Free - Global Administrators only	Office 365	Microsoft Entra ID P1	Microsoft Entra ID P2
Protect Microsoft Entra tenant admin accounts with MFA	✓	✓ (Microsoft Entra Global Administrator accounts only)	✓	✓	✓
Mobile app as a second factor	✓	✓	✓	✓	✓
Phone call as a second factor			✓	✓	✓
SMS as a second factor		✓	✓	✓	✓
Admin control over verification methods		✓	✓	✓	✓
Fraud alert				✓	✓
MFA Reports				✓	✓
Custom greetings for phone calls				✓	✓
Custom caller ID for phone calls				✓	✓
Trusted IPs				✓	✓
Remember MFA for trusted devices		✓	✓	✓	✓
MFA for on-premises applications				✓	✓
Conditional Access				✓	✓
Risk-based Conditional Access					✓
Self-service password reset (SSPR)	✓	✓	✓	✓	✓
SSPR with writeback				✓	✓

Microsoft Entra – Microsoft Secure Future Initiative



Secure by design

Security comes first when designing any product or service.



Secure by default

Security protections are enabled and enforced by default, require no extra effort, and aren't optional.



Secure operations

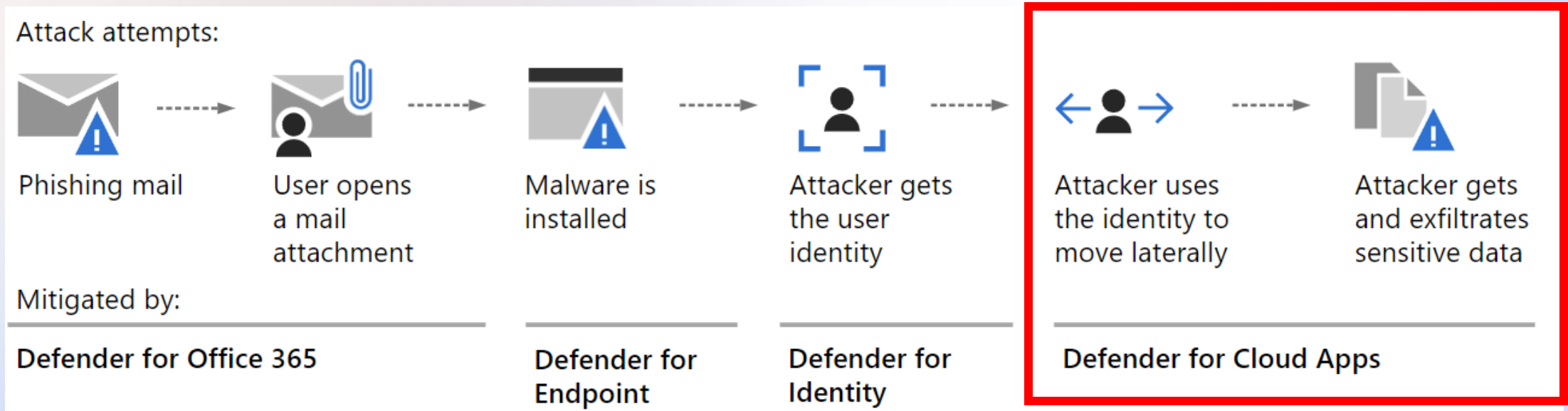
Security controls and monitoring will be continuously improved to meet current and future threats.

Fasi temporali

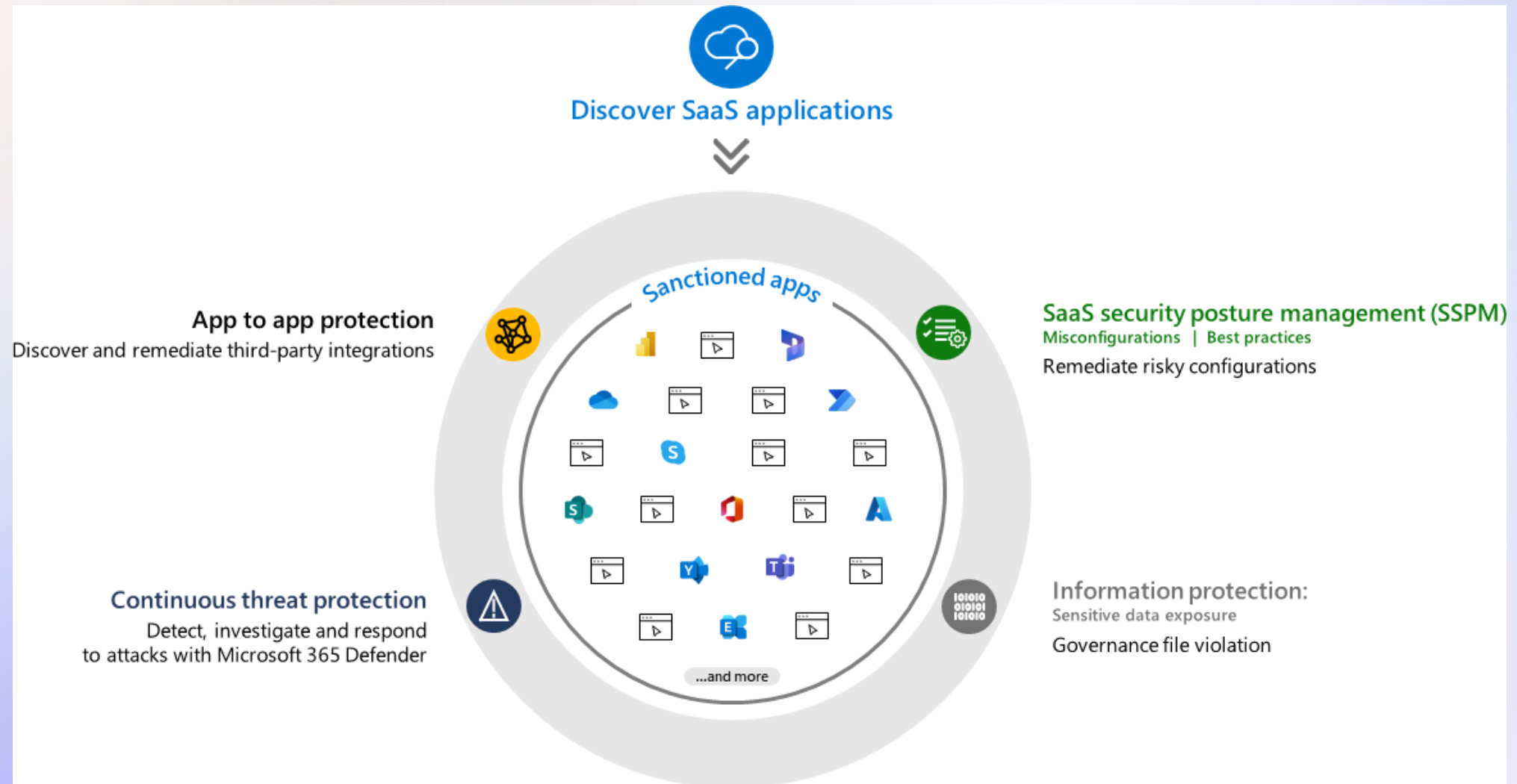
1. Security Default attivi di default nei nuovi tenant
2. Security Default forzati
3. Policy di Accesso Condizionale generate da Microsoft
4. Obbligo di MFA per accesso ai portali Azure/Entra/Intune
5. Disattivazione delle sottoscrizioni di Azure non utilizzate
6. Obbligo di MFA per accesso ad Azure tramite Powershell/CLI/mobile app/Infrastructure as Code tools (ARM, Bicep, Terraform,...)



Microsoft Entra – Defender for Cloud Apps



Microsoft Entra – Defender for Cloud Apps

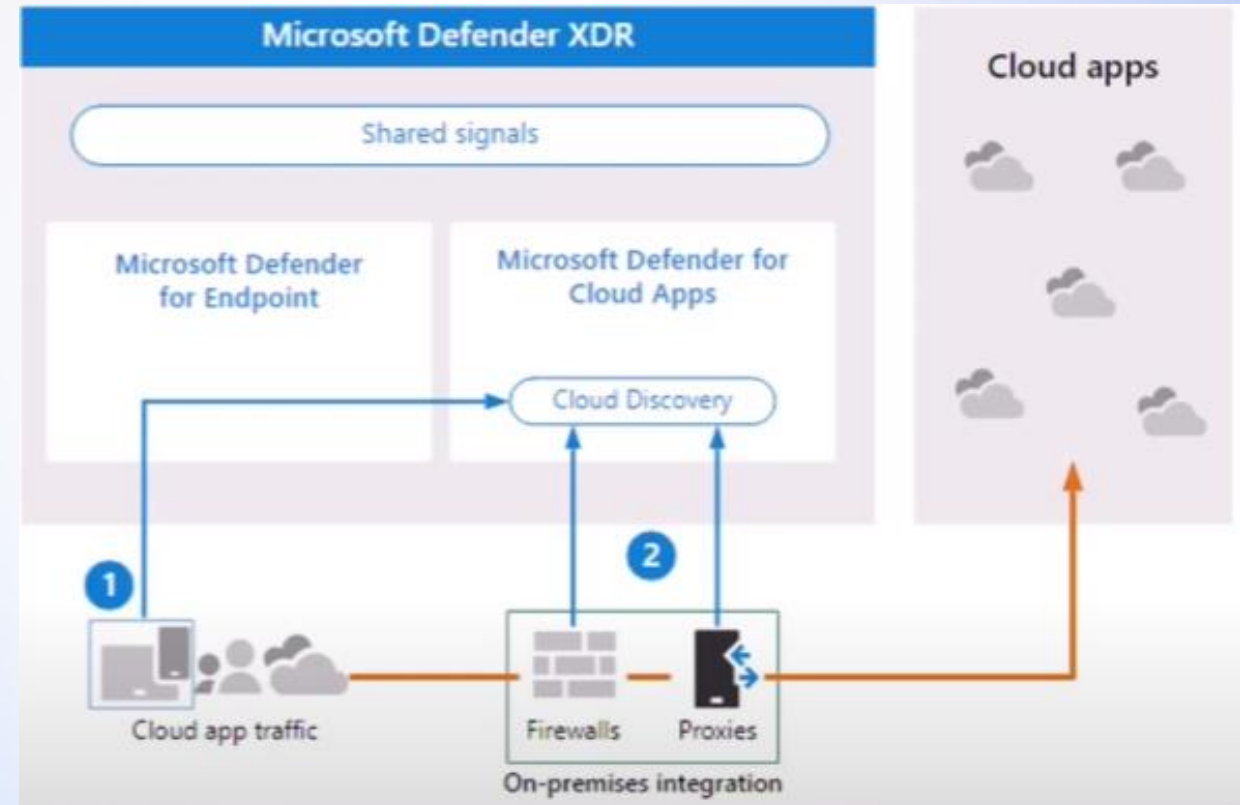


Microsoft Entra – Defender for Cloud Apps

Discover SaaS Applications

Cloud Discovery analizza i log del traffico rispetto al catalogo delle app di Microsoft Defender per il cloud di oltre 31.000 app cloud. Le app vengono classificate e classificate in base a più di 90 fattori di rischio per offrire visibilità continuativa sull'uso del cloud, shadow IT e sul rischio che Shadow IT pone nell'organizzazione.

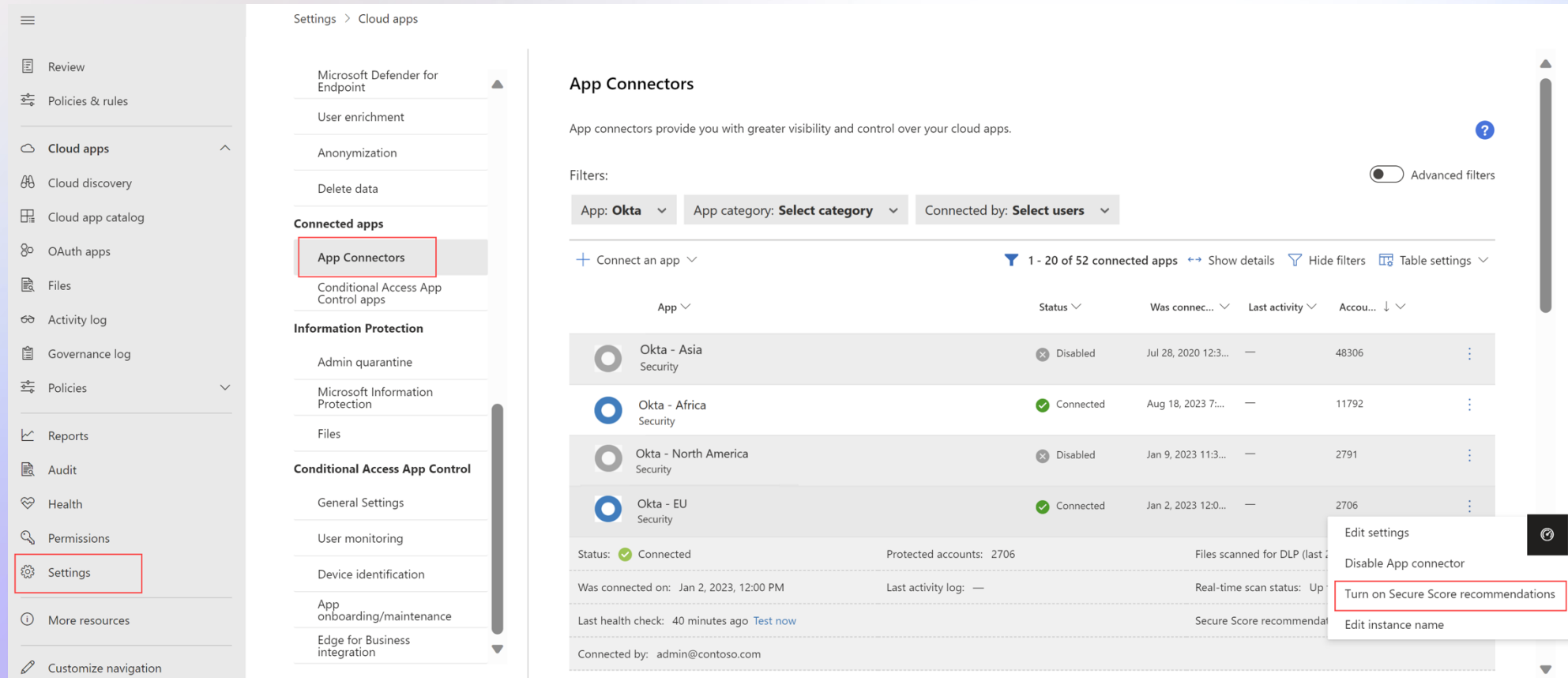
Dopo aver esaminato l'elenco delle app individuate nell'ambiente in uso, è possibile proteggere l'ambiente approvando le app sicure (approvate) o vietando le app indesiderate (non approvate) nei modi seguenti.



Microsoft Entra – Defender for Cloud Apps

SaaS security posture (SSPM)

Gli ambienti dell'applicazione SaaS possono essere configurati in un comportamento rischioso. Microsoft Defender per il cloud App offre valutazioni della configurazione della sicurezza dei rischi per le applicazioni SaaS per evitare possibili rischi. Queste raccomandazioni vengono visualizzate tramite Microsoft Secure Score dopo aver creato un connettore per un'applicazione



Settings > Cloud apps

Microsoft Defender for Endpoint

User enrichment

Anonymization

Delete data

Connected apps

App Connectors

Conditional Access App Control apps

Information Protection

Admin quarantine

Microsoft Information Protection

Files

Conditional Access App Control

General Settings

User monitoring

Device identification

App onboarding/maintenance

Edge for Business integration

App Connectors

App connectors provide you with greater visibility and control over your cloud apps.

Filters:

App: **Okta** App category: **Select category** Connected by: **Select users**

+ Connect an app

1 - 20 of 52 connected apps Show details Hide filters Table settings

App	Status	Was connec...	Last activity	Accou...
Okta - Asia Security	Disabled	Jul 28, 2020 12:3...	—	48306
Okta - Africa Security	Connected	Aug 18, 2023 7...	—	11792
Okta - North America Security	Disabled	Jan 9, 2023 11:3...	—	2791
Okta - EU Security	Connected	Jan 2, 2023 12:0...	—	2706

Status: **Connected** Protected accounts: 2706 Files scanned for DLP (last...

Was connected on: Jan 2, 2023, 12:00 PM Last activity log: — Real-time scan status: Up...

Last health check: 40 minutes ago [Test now](#) Secure Score recommenda...

Connected by: admin@contoso.com

Edit settings

Disable App connector

Turn on Secure Score recommendations

Edit instance name

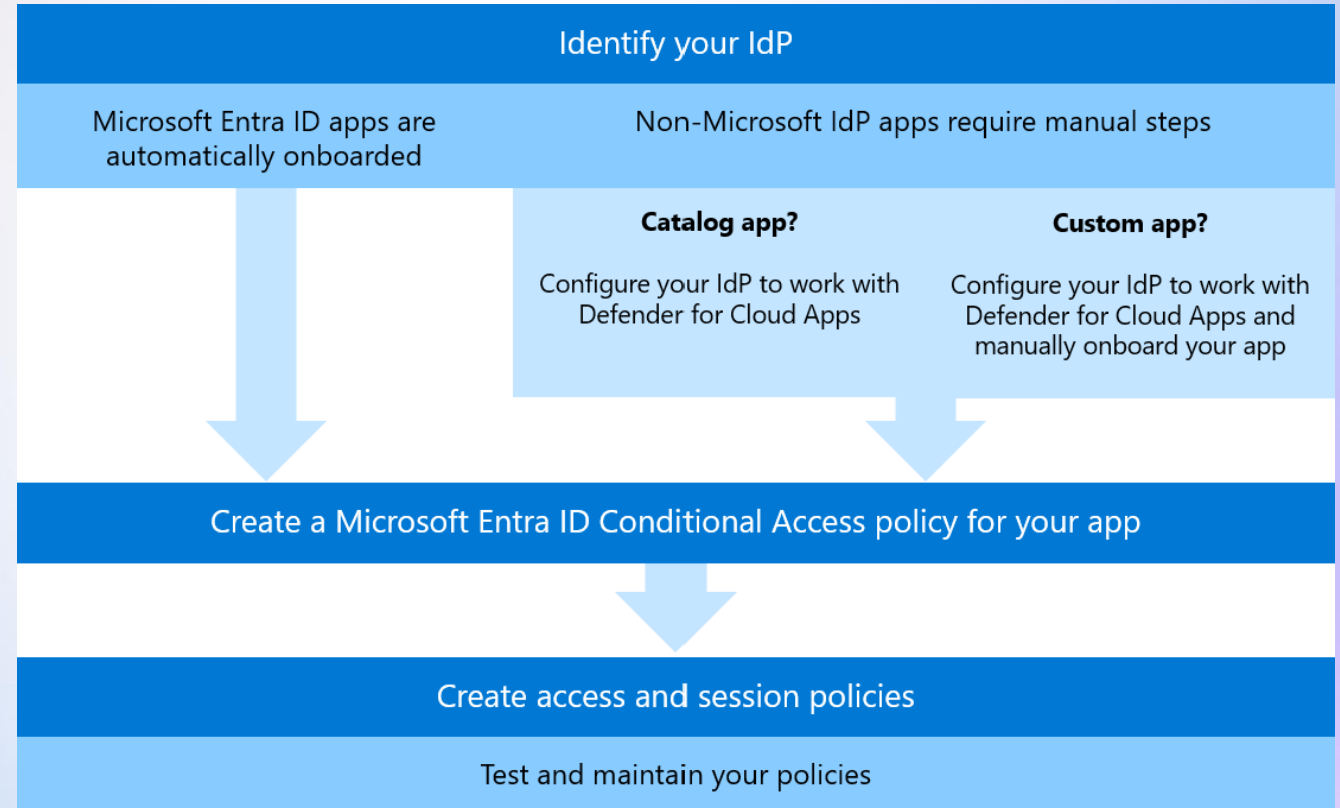
Microsoft Entra – Defender for Cloud Apps

Icona tipo di criterio	Tipo di criterio	Categoria	Usare
	Criteri attività	Rilevamento di minacce	I criteri di attività consentono di applicare un'ampia gamma di processi automatizzati usando le API del provider di app. Questi criteri consentono di monitorare attività specifiche eseguite da vari utenti o di seguire frequenze inaspettatamente elevate di un determinato tipo di attività. Ulteriori informazioni
	Criteri di rilevamento anomalie	Rilevamento di minacce	I criteri di rilevamento anomalie consentono di rilevare attività insolite nel cloud. Il rilevamento si basa sui fattori di rischio impostati per avvisare l'utente quando si verifica un evento diverso dalla baseline dell'organizzazione o dall'attività regolare dell'utente. Ulteriori informazioni
	Criteri per le applicazioni OAuth	Rilevamento di minacce	I criteri delle app OAuth consentono di analizzare le autorizzazioni richieste da ogni app OAuth e approvarla o revocarla automaticamente. Si tratta di criteri predefiniti inclusi in app Defender per il cloud e che non possono essere creati. Ulteriori informazioni
	Criteri di rilevamento malware	Rilevamento di minacce	I criteri di rilevamento malware consentono di identificare i file dannosi nell'archiviazione cloud e di approvarlo o revocarlo automaticamente. Si tratta di un criterio predefinito fornito con app Defender per il cloud e non può essere creato. Ulteriori informazioni
	Criteri file	Protezione delle informazioni	I criteri file consentono di analizzare le app cloud per identificare file o tipi di file specifici (condivisi, condivisi con domini esterni) e dati (informazioni proprietarie, informazioni personali, informazioni relative alle carte di credito e altri tipi di dati). Consentono anche di applicare azioni di governance ai file (le azioni di governance sono specifiche delle app cloud). Ulteriori informazioni
	Criteri di accesso	Accesso condizionale	I criteri di accesso consentono il monitoraggio in tempo reale e il controllo degli accessi degli utenti alle app cloud. Ulteriori informazioni
	Criteri della sessione	Accesso condizionale	I criteri di accesso consentono il monitoraggio in tempo reale e il controllo delle attività degli utenti alle app cloud. Ulteriori informazioni
	Criteri di individuazione delle app	Ombreggiatura IT	Come già menzionato, i criteri di individuazione delle app consentono di impostare avvisi di notifica quando vengono rilevate nuove app all'interno dell'organizzazione. Ulteriori informazioni
	Criteri di rilevamento anomalie di Cloud Discovery	Ombreggiatura IT	I criteri di rilevamento anomalie di Cloud Discovery esaminano i log usati per l'individuazione delle app cloud e la ricerca di occorrenze insolite. Ad esempio, quando un utente che non ha mai usato Dropbox prima carica improvvisamente 600 GB in Dropbox o quando sono presenti molte più transazioni del solito in una determinata app. Ulteriori informazioni

Microsoft Entra – Defender for Cloud Apps

Conditional Access App Control

Non è sufficiente sapere cosa è successo nell'ambiente cloud dopo il fatto. È necessario arrestare le violazioni e le perdite in tempo reale. È anche necessario impedire ai dipendenti di mettere intenzionalmente o accidentalmente a rischio i dati e l'organizzazione. Si vuole supportare gli utenti dell'organizzazione mentre usano le migliori app cloud disponibili e portare i propri dispositivi per funzionare. Tuttavia, sono necessari anche strumenti per proteggere l'organizzazione da perdite di dati e furti in tempo reale. Microsoft Defender per il cloud App si integra con qualsiasi provider di identità (IdP) per offrire questa protezione con criteri di accesso e sessione.





25 ottobre 2024



Davide Cenedese
System Architect

Governance delle risorse Azure



TD SYNnex



skybackbone
engenio

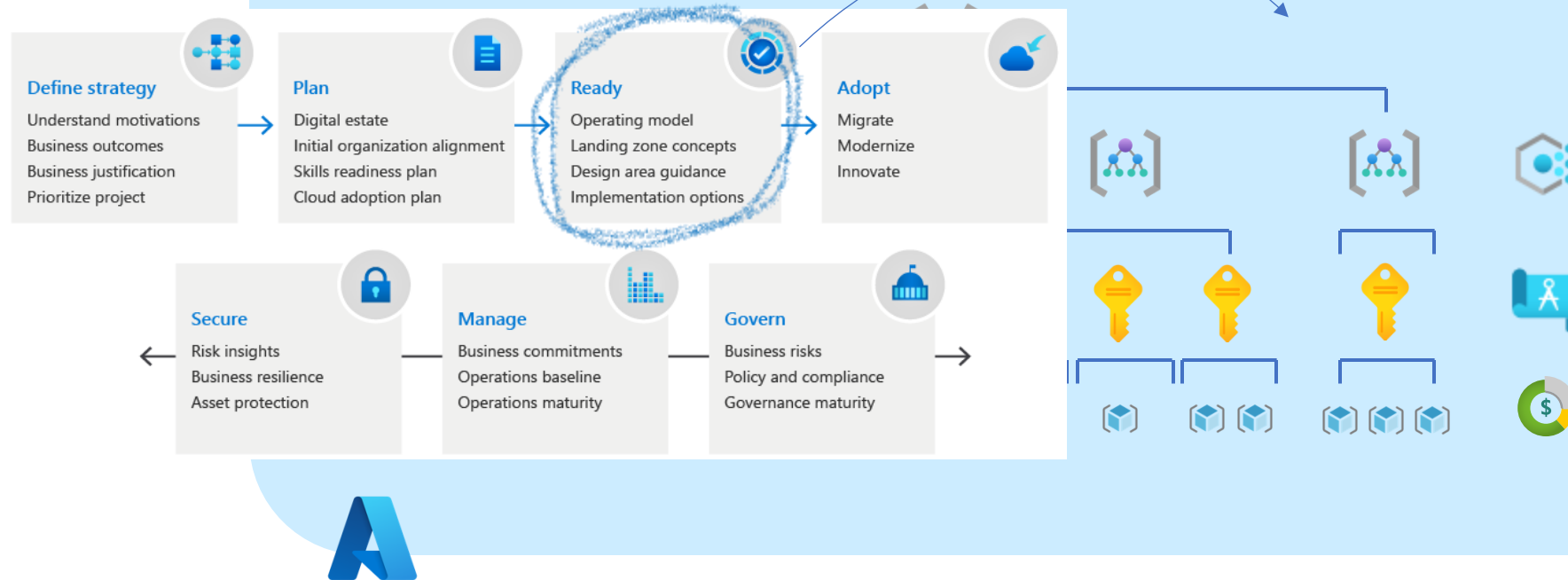
Linee guida per mitigare i rischi e favorire la produttività

- Standard e procedure aziendali e normative
- Sicurezza
- Budget
- Efficienza operativa e continuità di servizio

Microsoft Cloud Adoption Framework for Azure

aka.ms/caf

Contoso.com





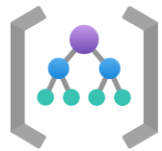
Soluzioni di governance

- **Compliant**
- **Monitorato**
- **Sicuro**



**Gestione dei
costi**

**Stabilità della
soluzione**



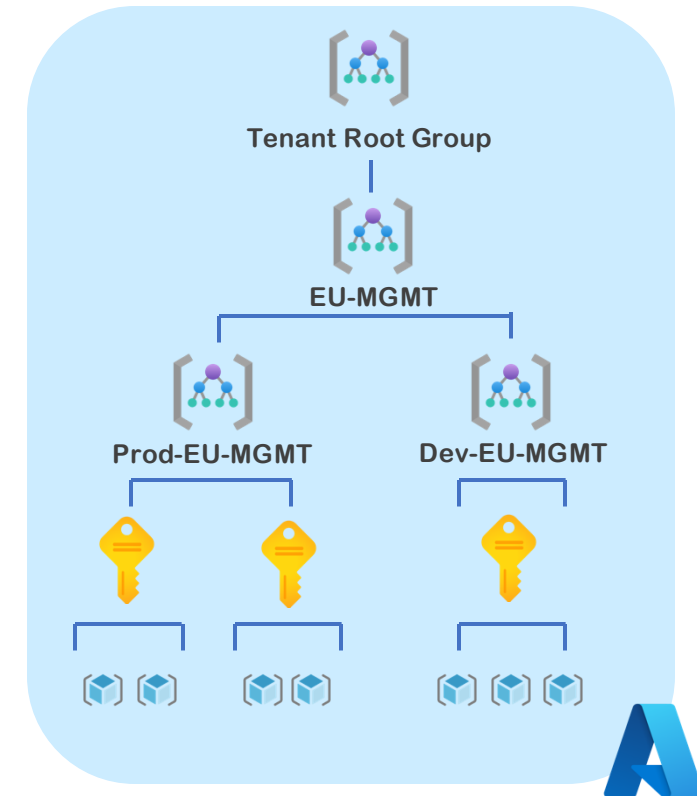
Management groups



Subscriptions



Resource groups





Role-based Access Control (RBAC)



Attribute-based Access Control (ABAC)

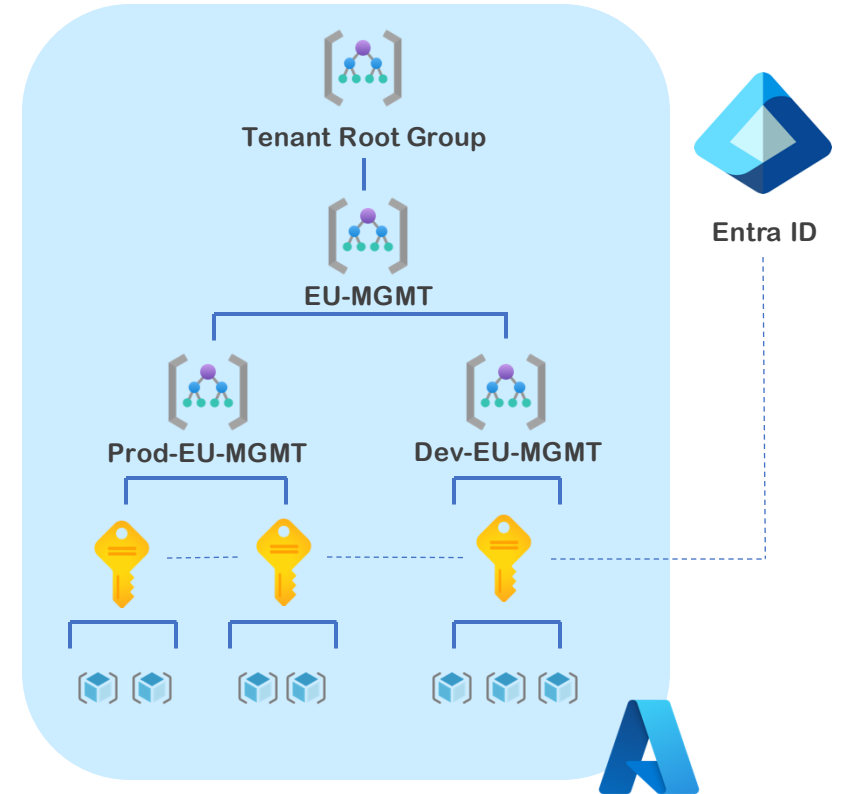


Resource Locks

Read-only
Do not delete

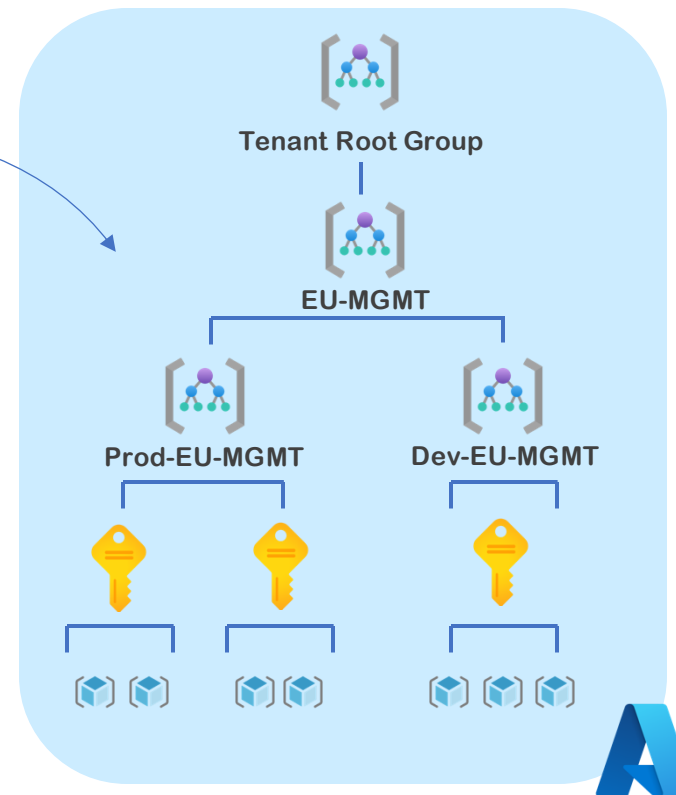


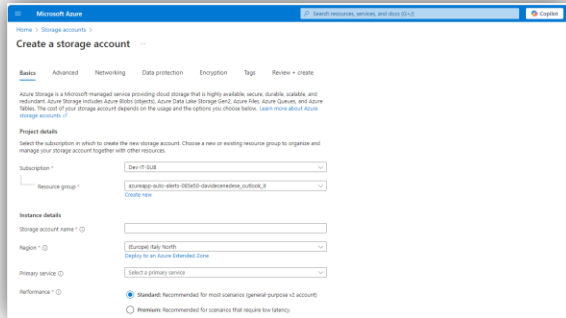
Tags



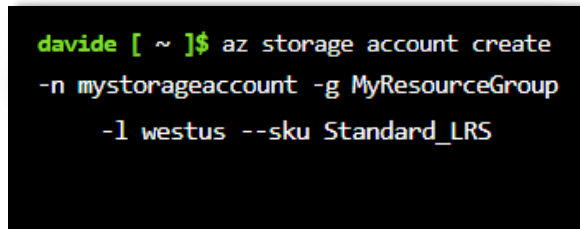


Scope

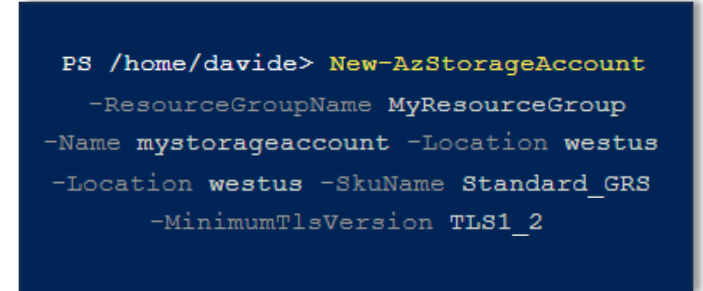




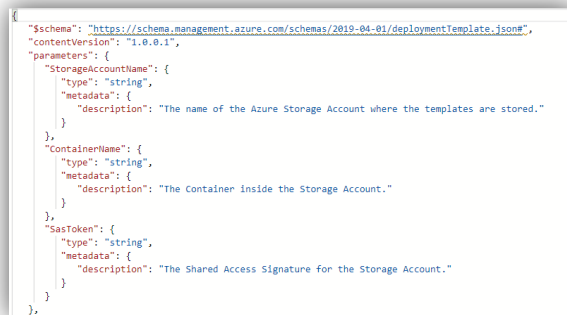
Azure portal



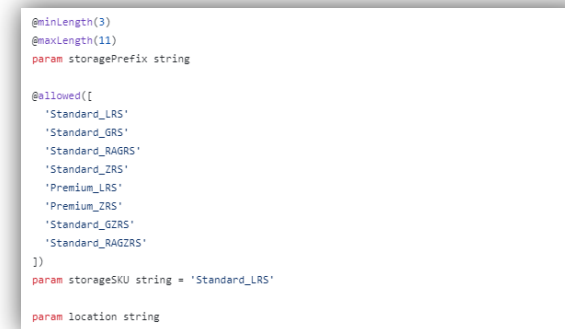
Azure CLI



Azure PowerShell



ARM templates



Bicep templates



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Template Specs

- Template ARM o Bicep
- Versioning
- Access control



Deployment stacks

Collezione di risorse gestite

- Deny assignments
- Gestione via CLI o PS



Home > Cost Management: Prod-IT-SUB

Cost Management: Prod-IT-SUB | Cost analysis

Subscription

Overview

Change scope

Access control

Diagnose and solve problems

Give feedback about this menu

Reporting + analytics

Cost analysis

Exports

Monitoring

Cost alerts

Alert rules

Budgets

Optimization

Advisor recommendations

Reservations + Hybrid Benefit

Savings plans

Settings

Configuration

Preview features

Billing

Usage + charges

Invoices

Scope: Tenant Root Group / EU-MGMT / Prod-EU-MGMT / Prod-IT-SUB (change)

* Accumulated c...

Save | Share | Download | Subscribe

Oct 2024

Add filter

ACTUAL COST (EUR ONLY)

€0.27

FORECAST: CHART VIEW ON

€0.45

BUDGET: MONTHLY-SEUROS

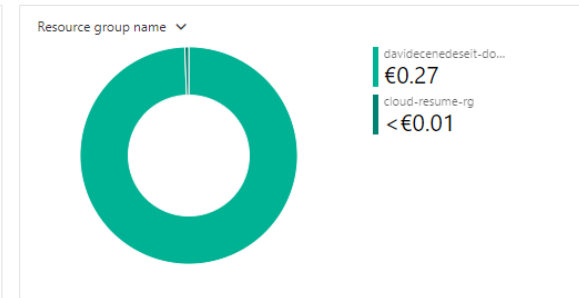
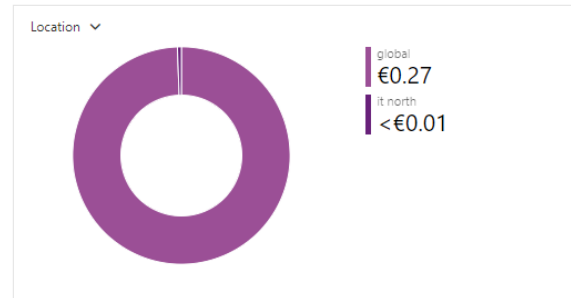
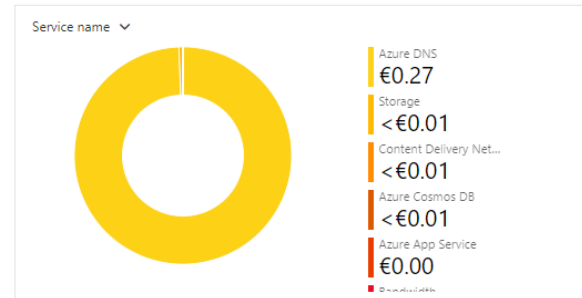
€5/mo

Group by: None

Granularity: Accumulated

Column (stacked)

Pin to dashboard





thank
you