[MVP Session] Ochrona serwerów w środowisku Multicloud



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Agenda

- Multi-cloud security
- Azure Arc
- Azure Update Manager
- Defender for Cloud and AWS and GCP
- CSPM capabilities for AWS and GCP
- CWP(P) capabilities for AWS and GCP

Multicloud security challenges

- Data management and compliance
- Identity and access management
- Threat detection and management
- Complexity reduction in managing multi-cloud environment



https://www.fortinet.com/resources/reports/cloud-security

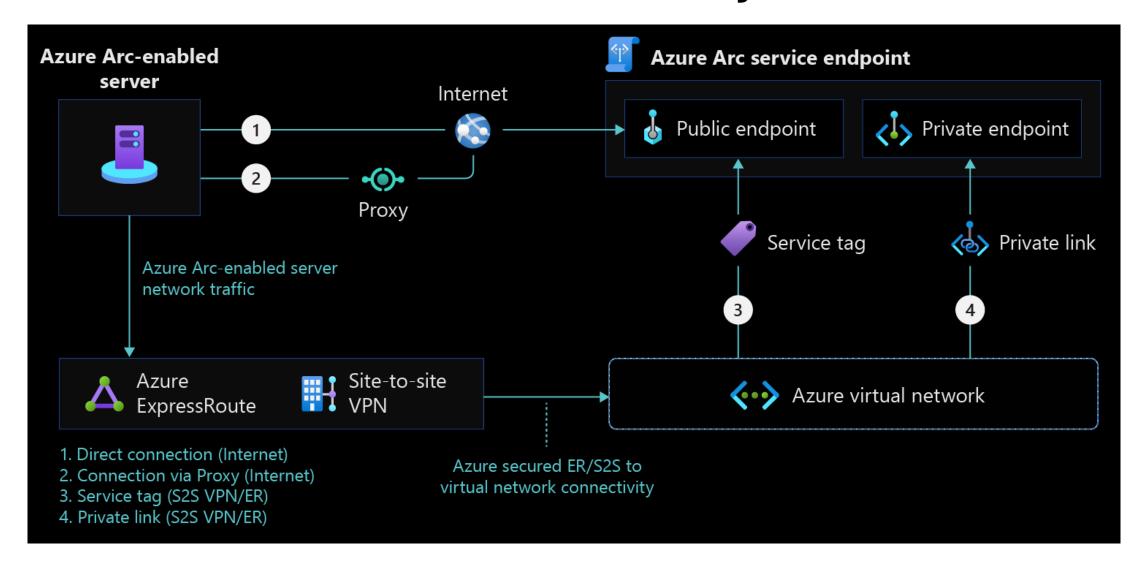
Azure Arc

Azure Arc is a bridge that extends the Azure platform to help you build applications and services with the flexibility to run across datacenters, at the edge, and in multicloud environments.

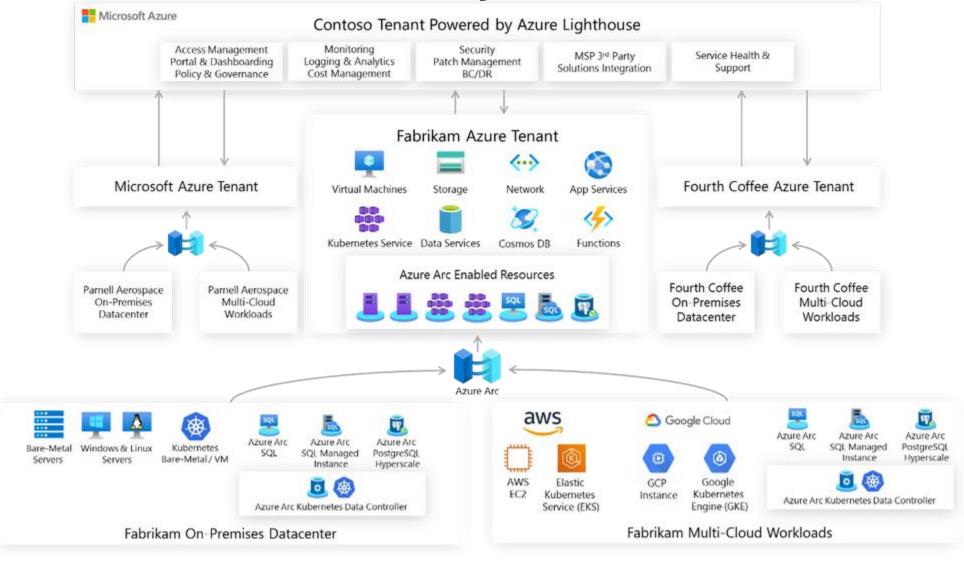
With Microsoft Defender for Servers Plan 2, Azure Policy guest configuration and Azure Update Manager are included at no additional cost. With Microsoft Defender for Cloud Plan 1, these two additional services are not included and can be purchased separately.

Services	Price
Inventory. Tag your resources, organize them into resource groups, subscriptions, and management groups, and query at scale with Azure Resource Graph to unify your environments.	FREE
Manage. Administrate your servers anywhere using SSH Arc, Run Command, and Custom Script Extension.	FREE
VM Self-service. Perform lifecycle management such as (create, resize, update and delete) and powercycle operations such as (start, stop, and restart on VMware vCenter and System Center Virtual Machine Manager Virtual Machines.	FREE

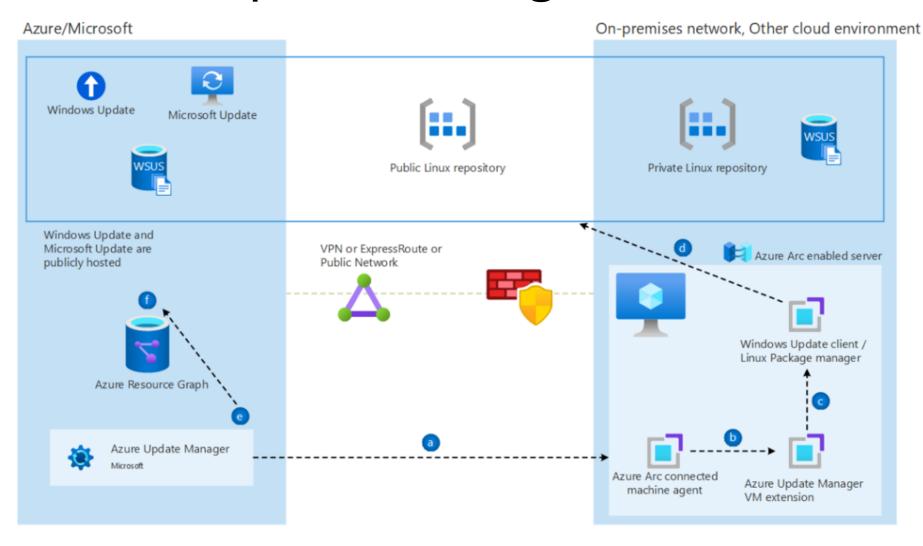
Azure Arc – server connectivity



Azure Arc – multitenancy and multicloud

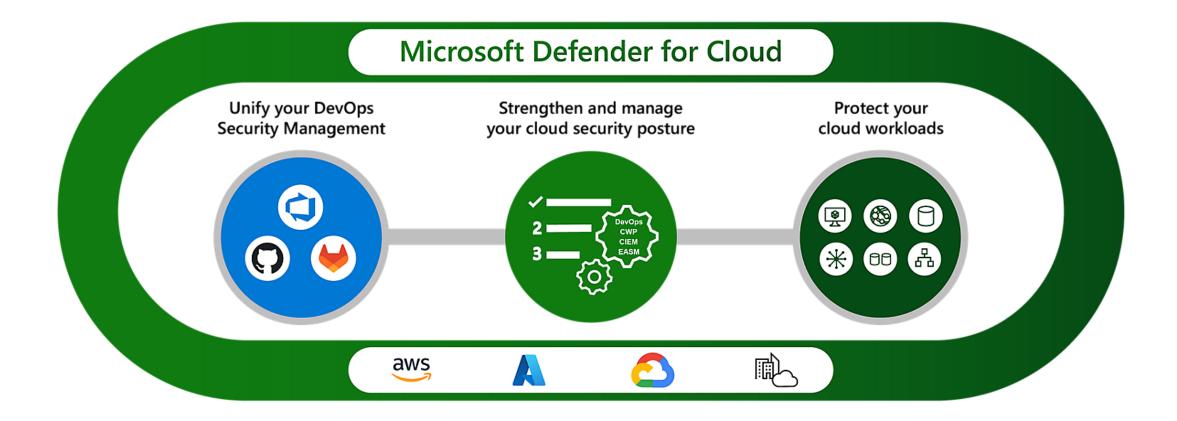


Azure Update Manager



- a Azure Update Manager operation
- For any 1st time-initiated Azure Update Manager operation, VM Guest Agent installs Azure Update Manager VM Extension
- Azure Update Manager VM Extension makes API calls to/from Windows Update client or Linux Package manager to check for update(s), download update(s), or deploy update(s)
- Searches, downloads, and installs updates from Windows Update, Microsoft Update, WSUS or a public/private Linux repository. Azure Update Manager honors VM setting, which specifies the updates repository that VM points to, and deploys updates accordingly
- Assessment and deployment compliance data is received by Azure Update Manager
- Assessment and deployment compliance data is stored in Azure Resource Graph

Microsoft Defender for Cloud



Microsoft Defender for Cloud

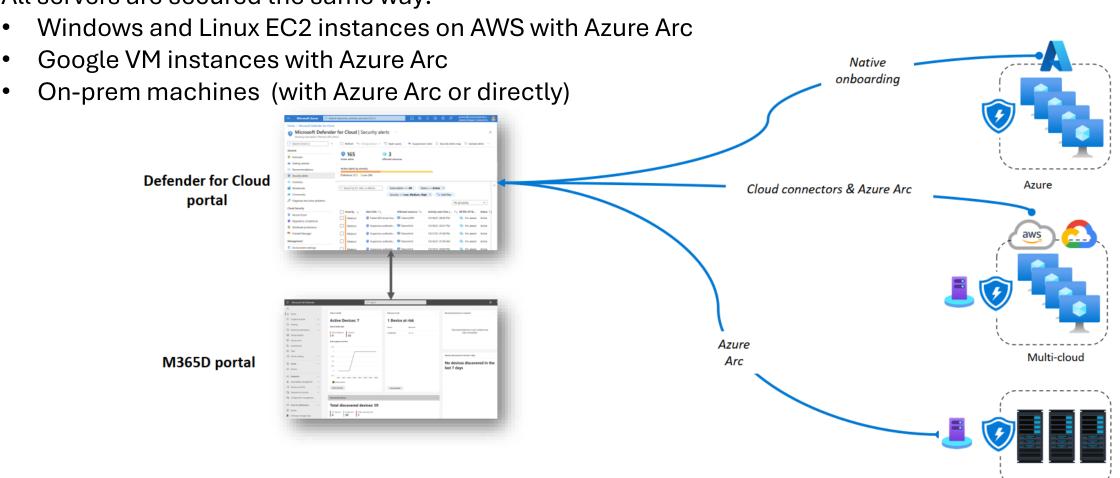
Secure your critical workloads running in AWS, Azure and Google Cloud



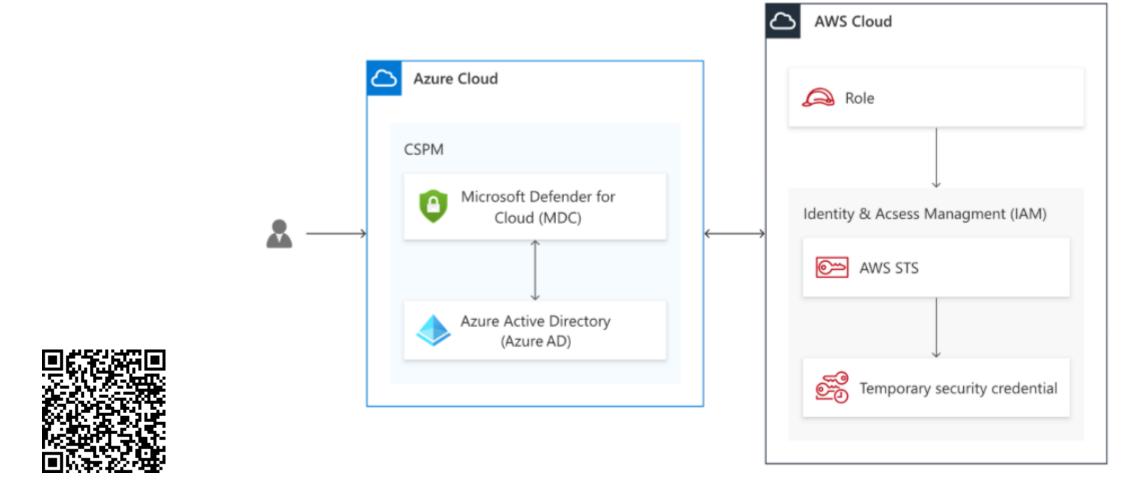
- Easy onboarding of AWS accounts and native support for Azure
- Assess and implement best practices for compliance and security in the cloud
- ➤ Get a bird's-eye view of your security posture and vulnerabilities across clouds with secure score
- Protect Amazon EKS and GKE clusters
- Protect GCP VM instances and AWS EC2 workloads

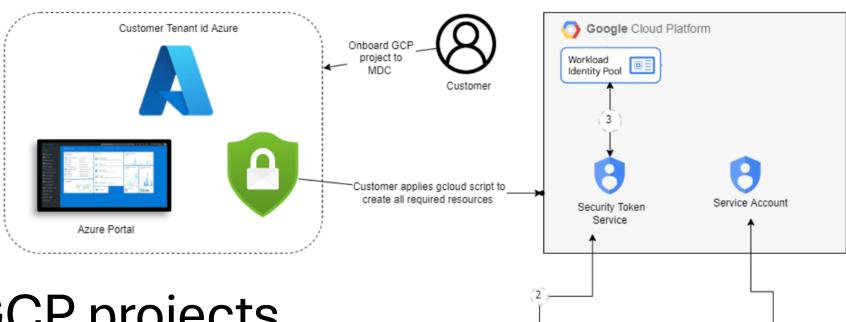
Defender for Servers in multicloud

All servers are secured the same way:



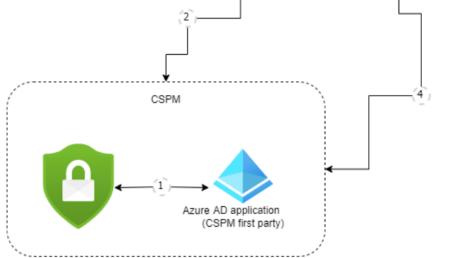
Connecting AWS accounts





Connecting GCP projects





Defender for Cloud - CSPM





and reporting | Integration with Microsoft Purview compliance manager

CSPM – security recommendations

- API based
- More than 160 out of the box recommendations for AWS
- More than 130 out of the box recommendations for GCP
- More than 30 resource types
- Regulatory compliance standards CIS, PCI DSS, Best Practices

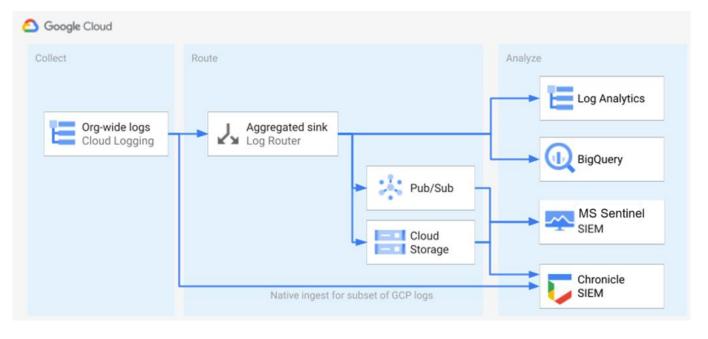
Compliance management

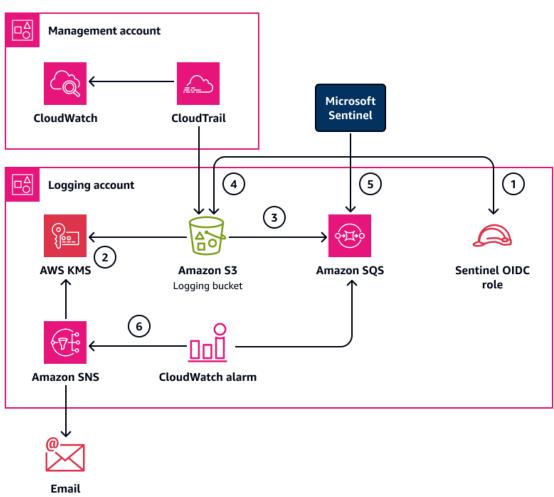
- Show compliance status, based on continuous assessments of Azure, AWS and GCP resources
- Monitor AWS and GCP resources
- Microsoft Cloud Security Benchmark monitoring enabled by default
- Mapped to the MITRE ATT&CK framework
- Support for common regulatory and compliance standards
- Reports of compliance status
- Custom recommendations possible

Microsoft Sentinel in multicloud

Connectors for AWS and GCP:

 Terraform (or Cloud Formation) code to configure integration with specific cloud





Tools integration – Azure View **Azure Services** Server VMs SQL Storage Azure Storage Network Traffic Azure DNS Azure Resource Industrial IoT Third-party Other SaaS On-premises **Endpoints** Microsoft Azure App Services Manager SaaS and and PaaS AD DS and Entra ID (devices) with Azure Arc-enabled Azure Key Vault Microsoft 365 PaaS apps AD FS Azure App Service apps Intune resources Microsoft Microsoft Microsoft Microsoft Microsoft Microsoft Defender Defender for Defender for Defender for Defender for Entra ID for Cloud Office 365 Endpoint Cloud Apps Identity Protection Signals Microsoft Defender XDR SIEM data

Third-party &

partners

Microsoft Sentinel

Multicloud

Tools integration – Defender View **Azure Services** SQL Server VMs Storage Azure Storage Network Traffic Azure DNS Azure Resource Industrial IoT Third-party On-premises Other SaaS Microsoft Azure App Services Manager Endpoints SaaS and AD DS and and PaaS Entra ID Microsoft 365 Azure Arc-enabled Azure Key Vault (devices) with PaaS apps AD FS apps Azure App Service resources Intune Microsoft Microsoft Microsoft Microsoft Microsoft Microsoft Defender for Defender for Defender for Defender for Entra ID Defender Cloud Apps Office 365 Protection for Cloud Third-party & Endpoint Identity partners Signals Microsoft Defender XDR SIEM data Microsoft Microsoft Defender portal for SecOps analysis and response Sentinel Multicloud

Feedback

Zeskanuj kod i zostaw swoją opinię





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https://mstechsummit.pl/user.html#!/lecture/MSTS25-78a9/rate