

Mastering Azure Migrations

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Microsoft Azure & Microsoft Foundry MVP, Ergo



MC2MC
—CONNECT—

Introduction



- Azure Practice Lead, Ergo
- 14 year Microsoft MVP
(*Microsoft Azure & Microsoft Foundry*)
- Microsoft Certified Trainer
- Co-host at Microsoft Azure Community User Group



X.com - @kgreeneit



[YouTube – MAC-UG](#)



[LinkedIn - @kgreeneit](#)



[GitHub - @kgreeneit](#)

2Pint



robopack

wortell

INGRAM^{MICRO}®



The Collective



bechtle



lebon.IT



VirtualMetric



veeam



evri

Agenda

- **Migration Scenarios & Tooling**
- **Pre-Migration, Assessment & Migration Phases**
- **Post-Migration Management**
- **Security**

Migration Scenarios



To Cloud or Not to Cloud.....

Without Cloud

Reactive security: Perimeter-based, vulnerable

Resource waste: Over or under provisioning

High CapEx: Upfront investments, maintenance

Downtime: Outages, slow recovery

Rigidity: Slow to respond to market shifts

Manual strain: Error-prone processes, patches

Playing catch-up: Costly, risky compliance

With Cloud

Proactive security: Continuous, AI-driven, zero trust

Dynamic scaling: Elasticity based on demand

Financial efficiency: Only pay for what you use

Always-on: Built-in redundancy, failover

Adaptability: Deploy new, scale, integrate fast

Optimized operations: Auto-scaling, self-healing

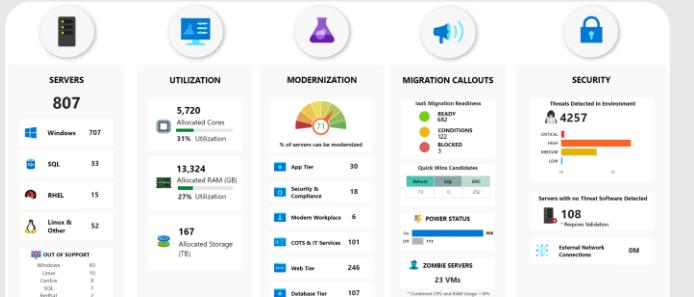
Never outdated: Ongoing updates, regulations



Most customers require a mix of solutions

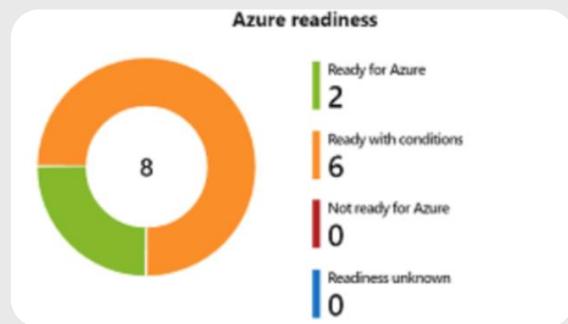
Decide

Evaluate your current environment to understand workloads, dependencies, and readiness



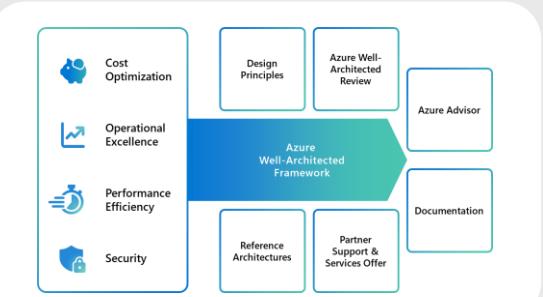
Plan

Identify which workloads are best suited for: Azure VMs (IaaS), Azure services (PaaS), Azure VMware Solution (AVS) or Azure Local

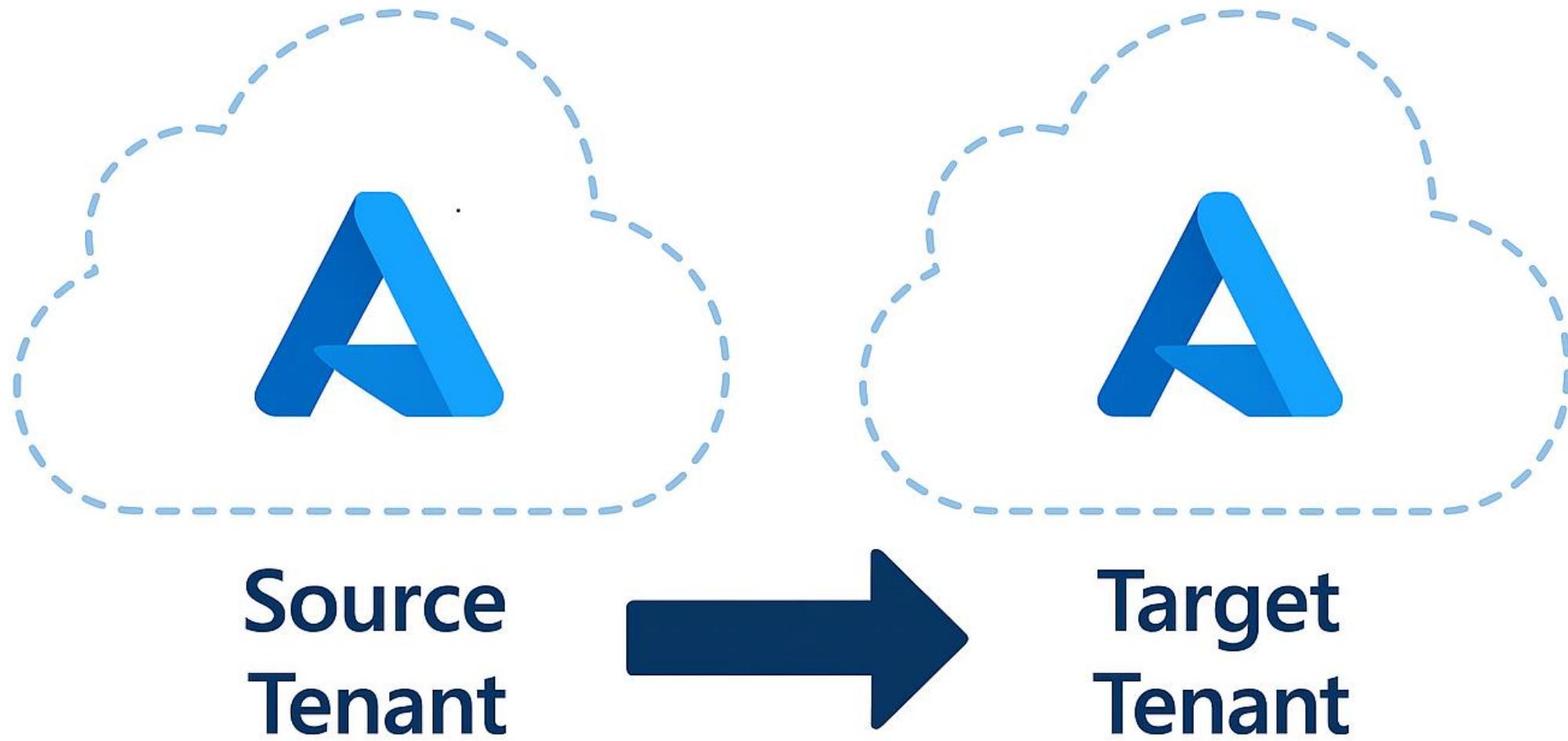


Execute & optimize

Build a tailored migration roadmap that supports your business goals and technical needs



Azure Tenant-to-Tenant Migration Scenario



Not all workloads are cloud-ready



Local AI inferencing

- Pipeline leak detection
- Personnel safety checks



Mission critical business continuity

- Production line operations
- Point of sale systems



Near real-time systems

- Quality assurance
- Manufacturing execution system



Custom sovereignty and regulatory requirements

- Highly regulated industries
- Defense and intelligence

Comprehensive Cloud Solutions with Azure



Bring the Azure control plane to your on-premises environment



Cloud



On Prem

1

Azure SaaS & PaaS Start modernizing

Top use cases

- Lower TCO
- Worldclass availability and security managed by Microsoft
- Modernize with flexible Azure cloud services (e.g., M365, Azure Virtual Desktop, Azure SQL)

Benefits

- Modern, cloud-based tooling
- No VMware subscription required

Azure IaaS Start modernizing

Top use cases

- Lower TCO
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- No VMware subscription required

2

Azure Local Cloud Connected Infrastructure

Top use cases

- Run all applications (VM and container based) with Arc-enabled infra
- Flexible hardware and software options from a variety of form factors
- Out-of-the box cloud-based operations and security

Benefits

- Integration with Azure Services like AVD
- No VMware subscription required
- SA customers can reuse existing benefits and licenses

3

Windows Server Arc-enabled infrastructure

Top use cases

- On-premises infrastructure in a variety of storage architectures
- Broad hardware ecosystem support

Benefits

- Traditional tooling with optional Arc-management
- No VMware subscription required
- SA customers can reuse existing benefits and licenses

Pre-Migration Phase



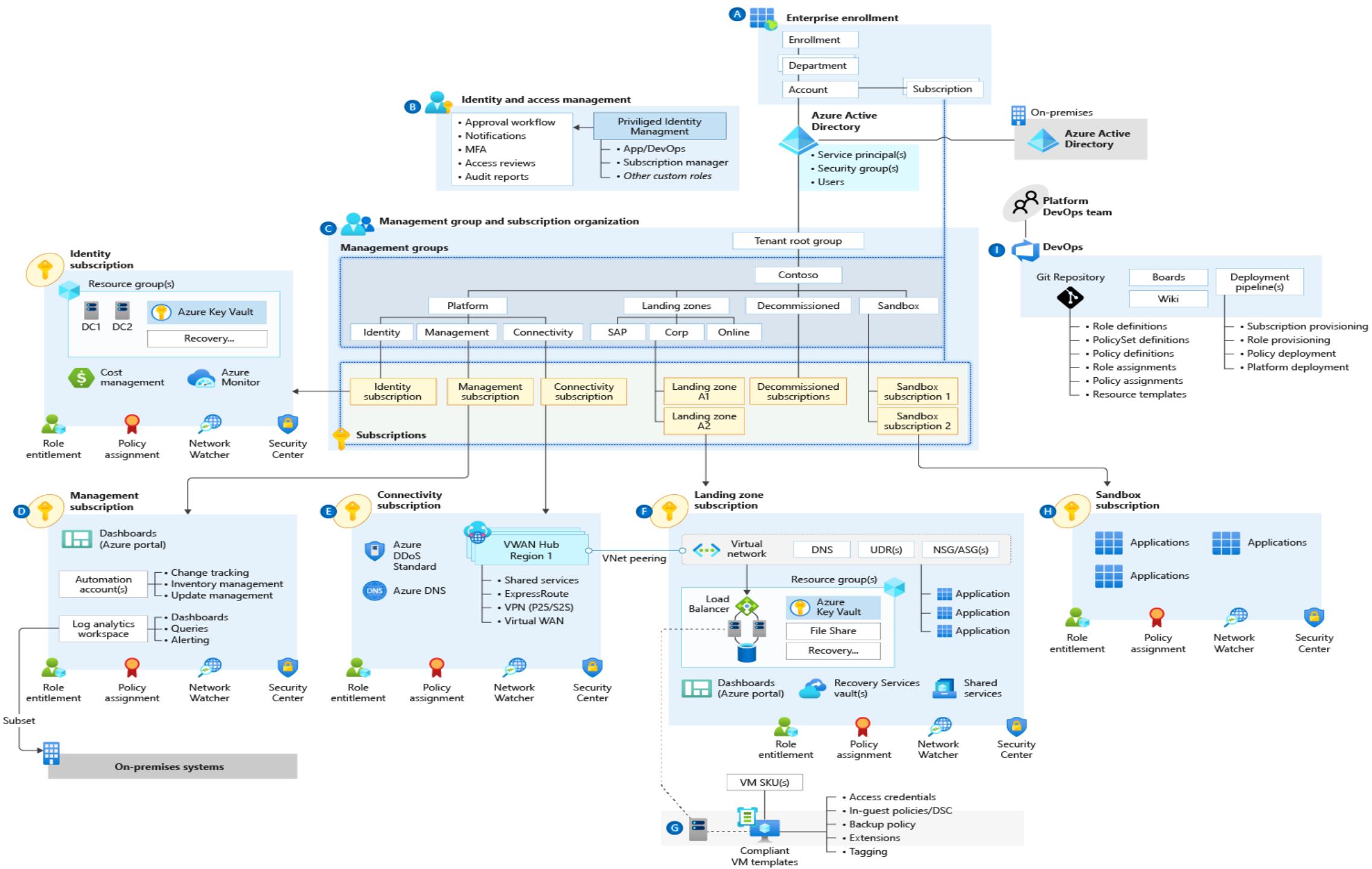
Microsoft Cloud Adoption Framework for Azure



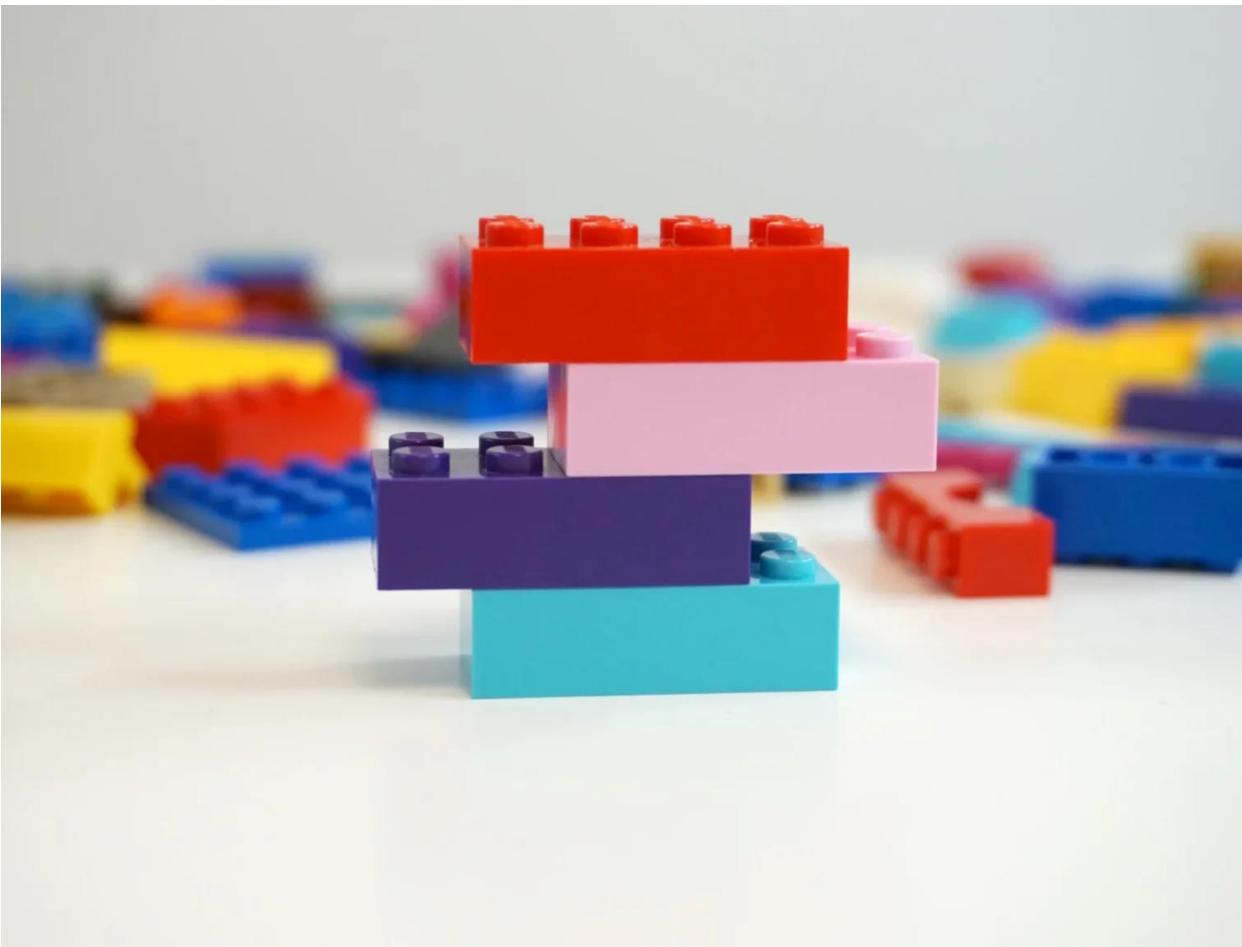
Actionable, efficient, and comprehensive Azure cloud guidance from Microsoft to accelerate your adoption journey

Microsoft Cloud Adoption Framework for Azure enables you align **business, people and technology strategy** to achieve your business goals

<http://azure.com/cloudadoptionframework>



But think of it like building Lego blocks....



Azure Landing Zone Review Tool

- Assess your Azure Landing Zone readiness
- Use it to identify areas for investment
- Improve your overall results by completing the recommended actions

Recommendations for your Azure environment

Actionable items to consider implementing to improve your landing zone across the 8 design areas of the Microsoft Cloud Adoption Framework Azure landing zone.

Your overall results

MODERATE

CRITICAL 0-67

Almost there. You have some room to improve but you are on track. Review the recommendations to see what actions you can take to improve your results.

MODERATE 67-133

EXCELLENT 133-200

Your result:
108/200

Categories that influenced your results

About your organization

Azure Billing and Active Directory

Identity and access management

Network topology and connectivity

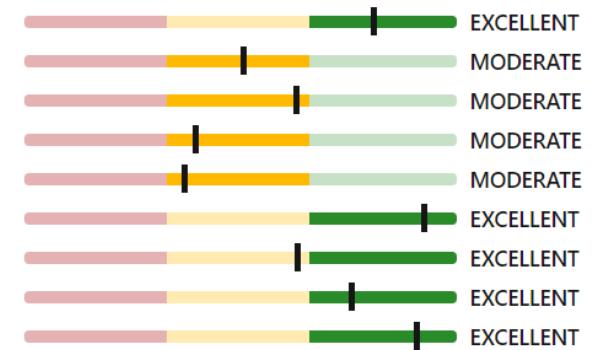
Resource organization

Governance

Management

Security

Platform automation and DevOps

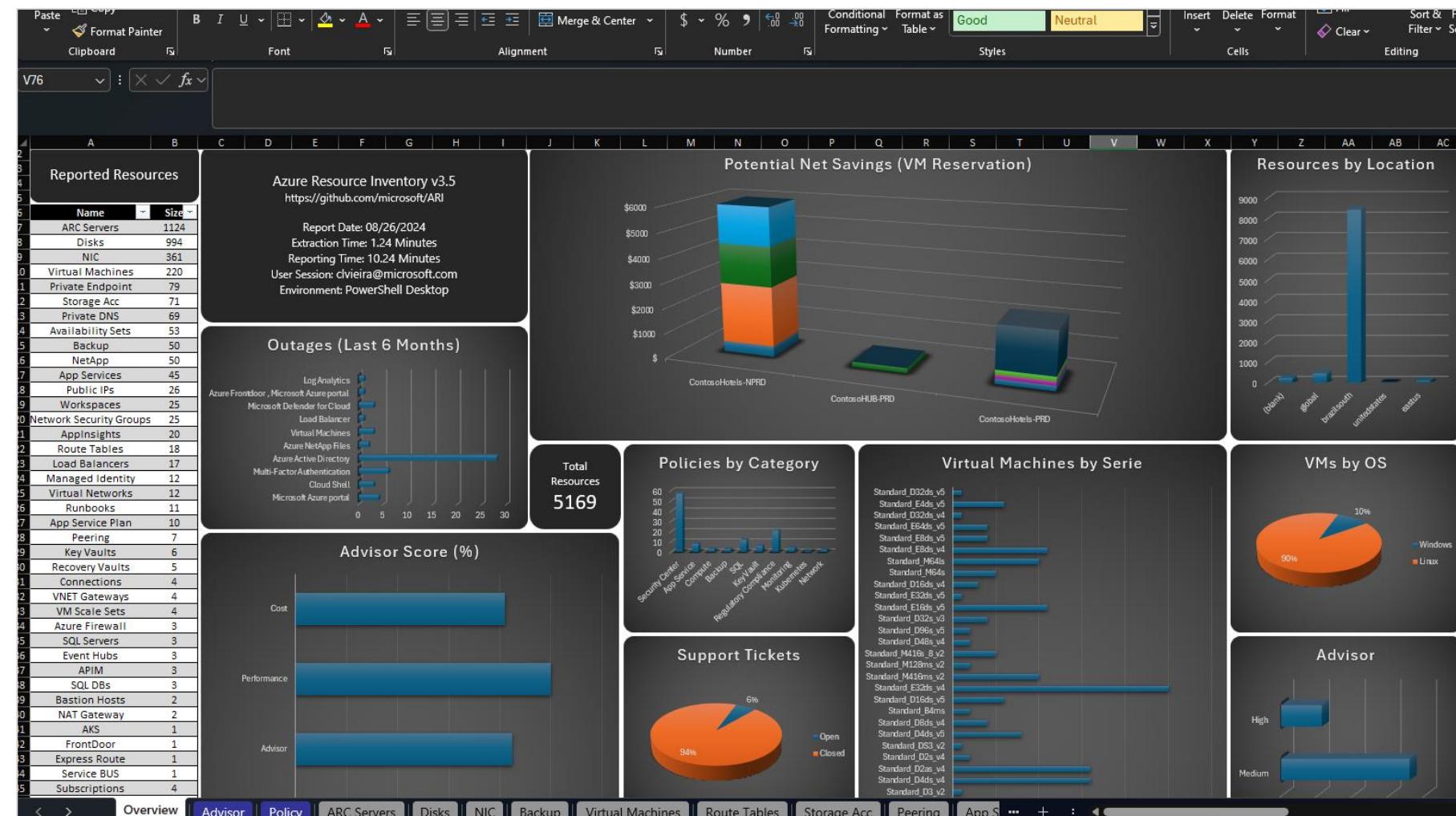


Azure Resource Inventory (ARI) Tool

→ Outputs a comprehensive inventory of all your Azure resources

→ Runs as a PowerShell module

→ Provides a breakdown of useful information such as Route Tables, Peerings, Backups, Advisor etc.



<https://github.com/microsoft/ARI>

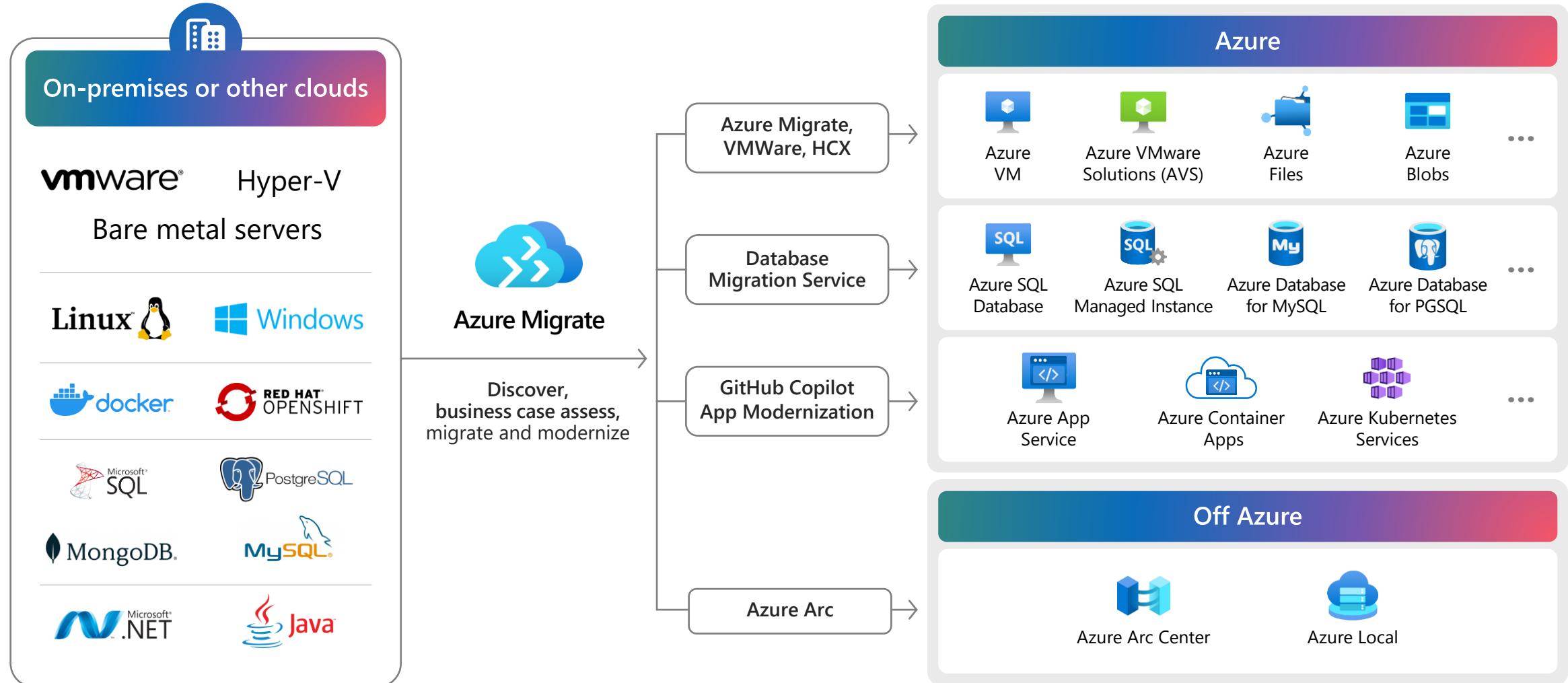
[ARI-Sample-Report](#)

Demo: Azure Resource Inventory Tool

Migration Tools



Introducing Azure Migrate

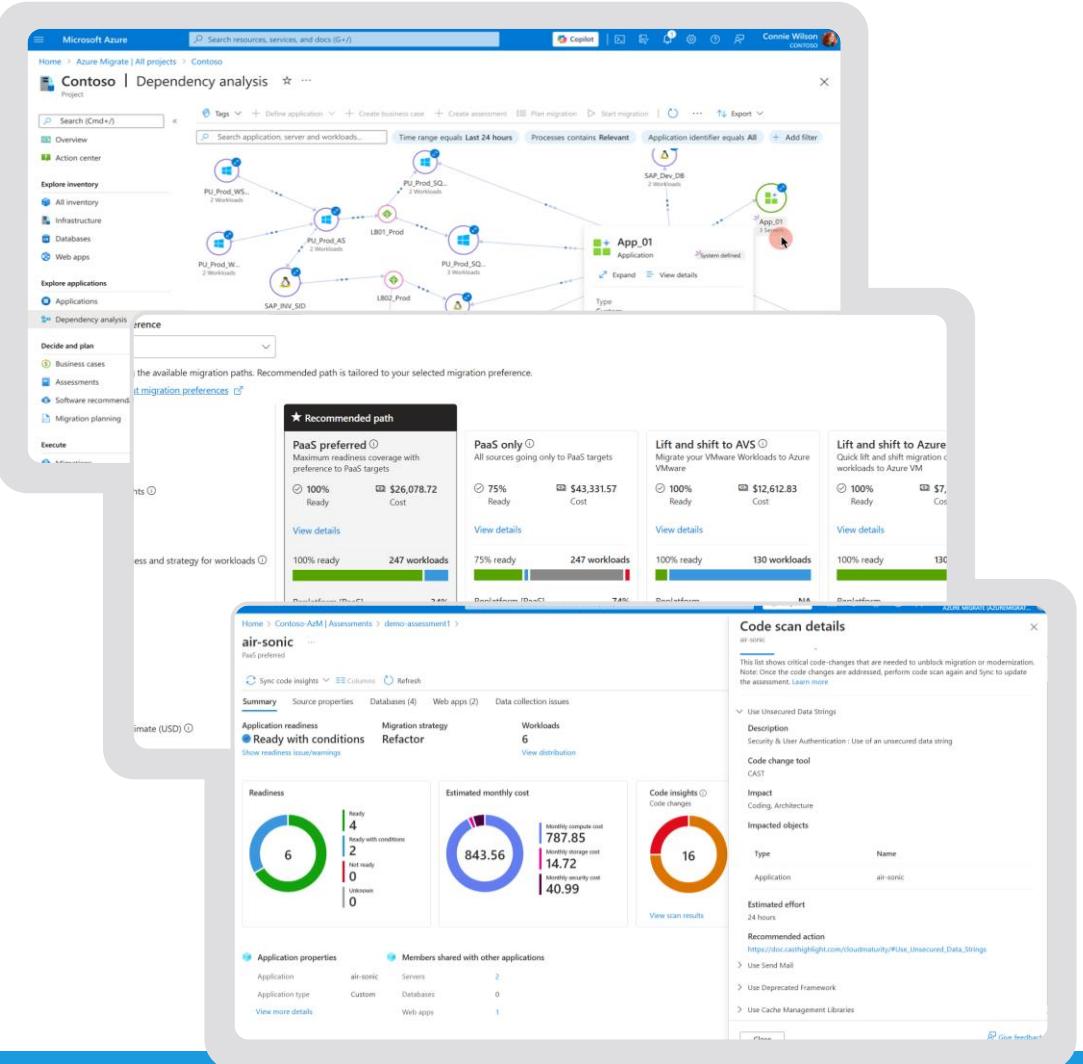


Application Aware Planning

→ Identify dependencies and define applications as custom or packaged with greater accuracy using enhanced multi-server dependency visualization

→ Optimized migration paths with burstable SKUs, negotiated pricing and enhanced storage sizing

→ Enhance assessments with code insights with GitHub Copilot Application Modernization and CAST integration.



The screenshot displays the Microsoft Azure Migrate interface, specifically the Dependency analysis and Assessment sections.

Dependency analysis: Shows a network graph of server dependencies. Nodes include PU_Prod_WS_1, PU_Prod_WS_2, PU_Prod_AS, SAP_APP_3D, PU_Prod_SQL_1, PU_Prod_SQL_2, LB01_Prod, LB02_Prod, and App_01. Edges represent dependencies between these servers.

Migration paths: A central panel shows migration paths from on-premises to the cloud. It highlights a "Recommended path" for PaaS preferred migration, which covers 100% of workloads at \$26,078.72. Other options include PaaS only (75% ready, \$43,331.57) and Lift and shift to AVS/Azure VM (100% ready, \$12,612.83).

Assessments: The "air-sonic" assessment summary shows application readiness (6/8), estimated monthly cost (\$843.56), and code changes (16). It also lists impacted objects and recommended actions related to GitHub Copilot Application Modernization and CAST integration.

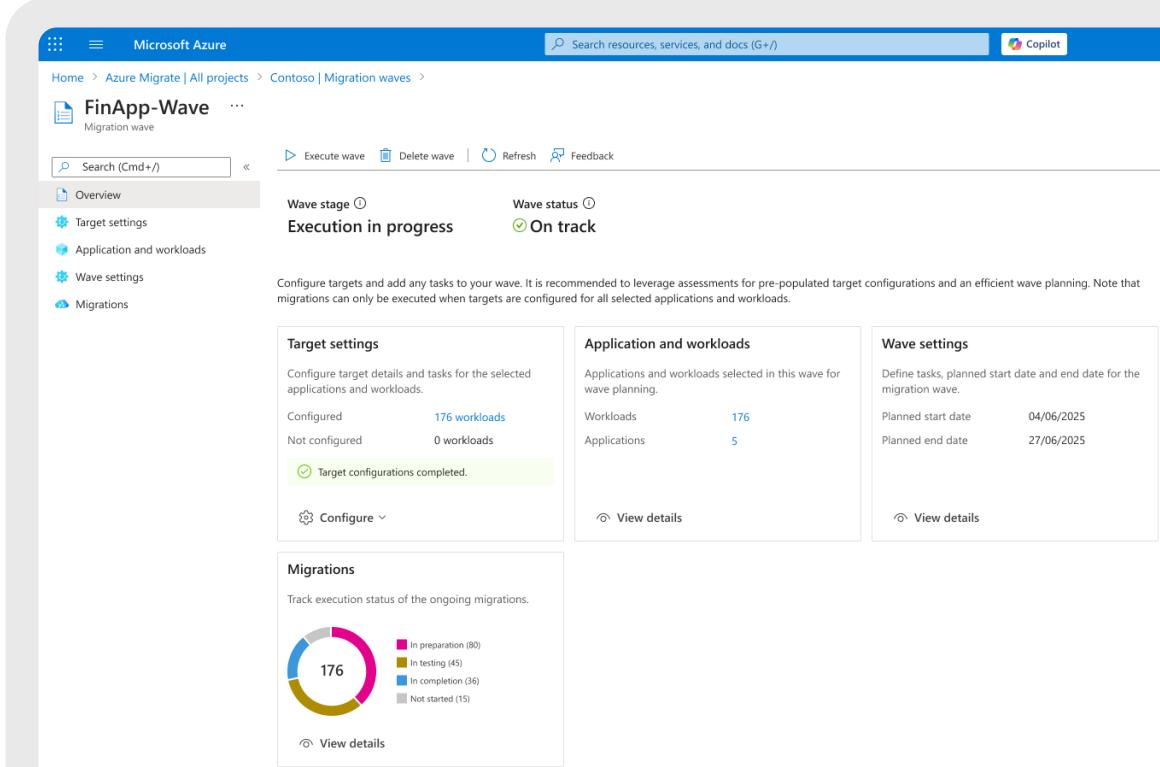
Structured migrations with trackable waves

- **End to end experiences**
Planning to execution at single place

- **Guided executions**
Step by step execution flows through tasks

- **Deliver at-scale**
Standardize tasks and tools

- **Central tracking**
Track progress against the plan





Introducing Dr Migrate

Dr Migrate is an AI-powered migration planning platform geared to accelerate your customer engagements.

Metric Collection



Light Weight Collection

No infrastructure or agents required.
One-time run from Jumpbox.
In memory credentials only.

VMware & Physical Discovery

Read-only access needed.
Metric collection in minutes to hours.

Server Discovery

All Windows and Linux VMs.
OS, software & network dependencies.
No PII data, no external comms.

Migration Planning

+100 Interactive Dashboards

Dynamic insights and visualizations

AI Assisted

Simplifies complex planning decisions.

Total Cost of Ownership

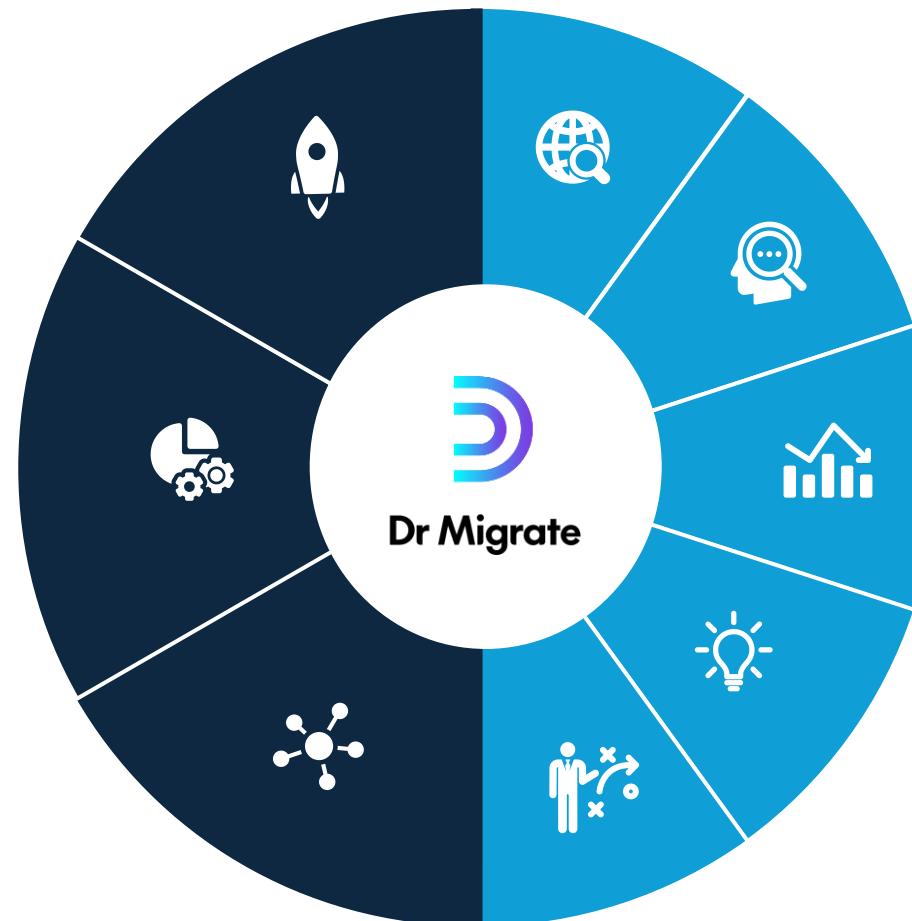
Compare current vs cloud cost.

Application Analysis

Deep dive your application estate

Wave Planning

Automated, risk-based migration grouping.

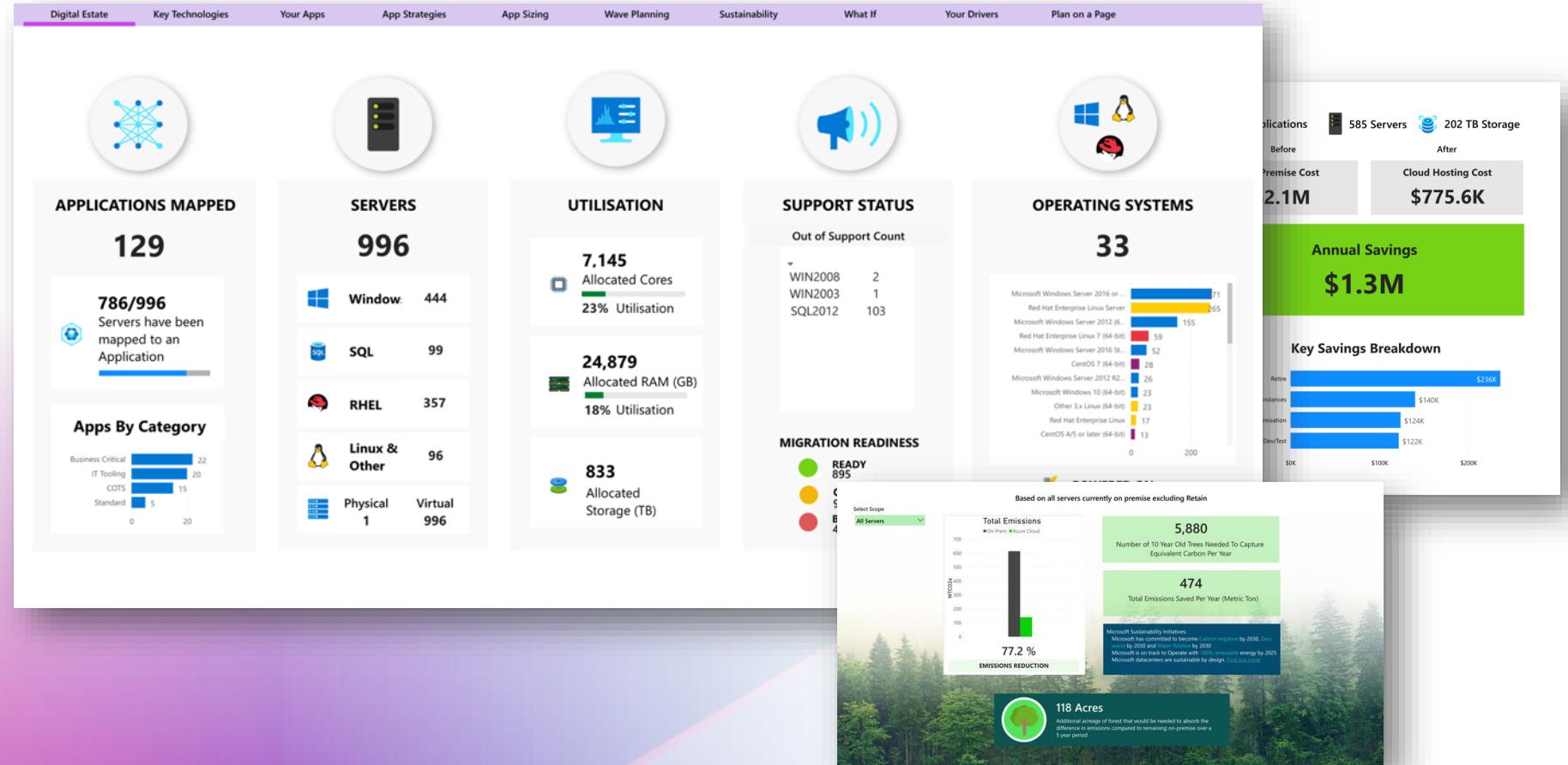


Sneak Peak: What You'll See

Complete Overview of your Digital Estate

Estate Overview

- Interactive drill-down dashboards:**
Navigate areas of interest across your estate with dynamic, clickable insights
- Migration readiness at a glance:**
Instantly spot which apps are ready, blocked, or conditional
- Support risk flagged:**
Identify out-of-support OS and aging workloads
- Optimisation insights:**
Get recommendations for right-sizing, Azure-native replacements, and PaaS migration paths

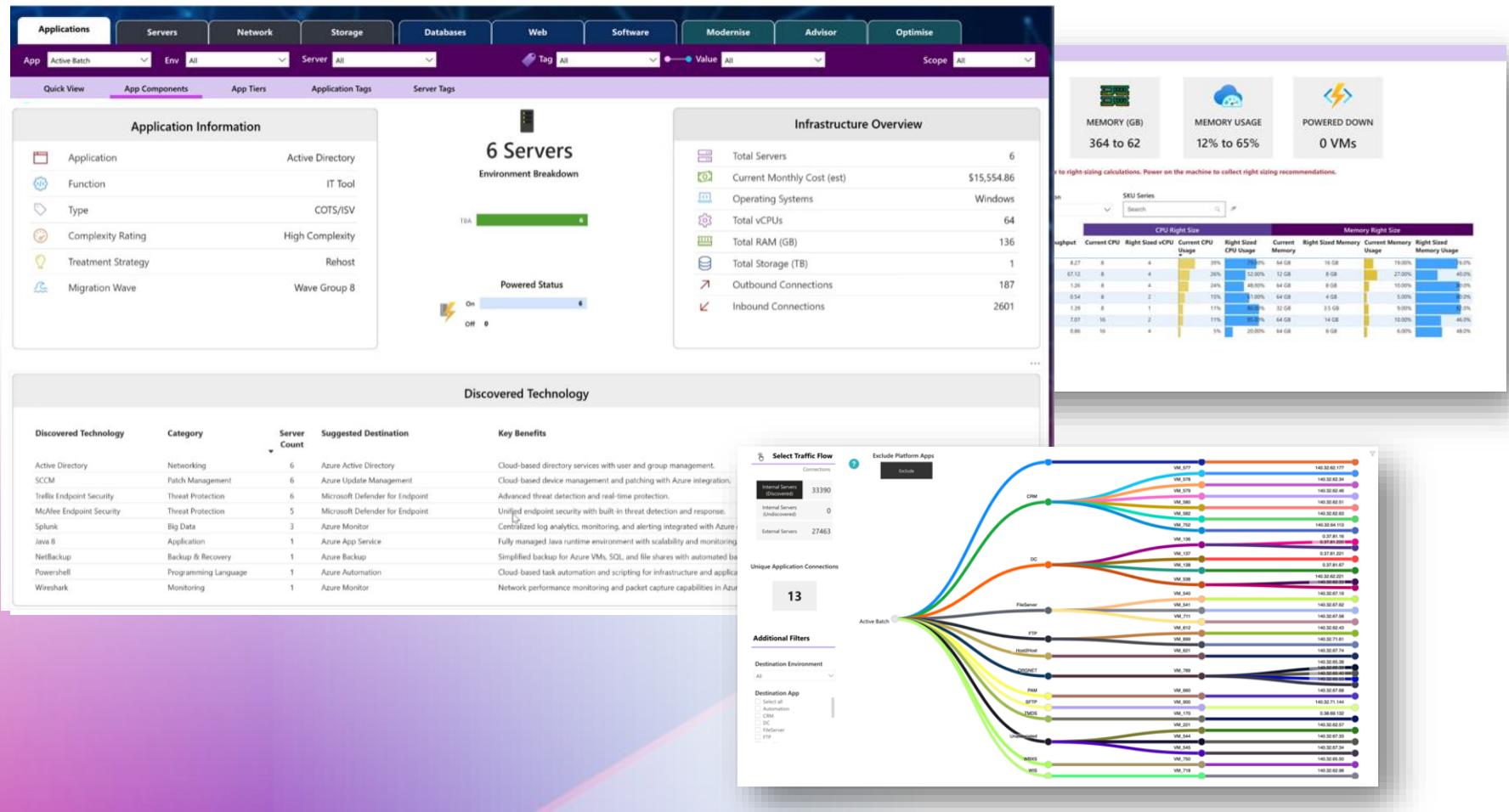


Sneak Peak

Application-Level Insights

App Insights

- Single-click access to app context**
Browse everything about an app in one place: its infrastructure, software, dependencies, modernization fit, usage, and risks.
 - Deep app-to-infrastructure mapping**
See the full stack servers, databases, OS, and services powering each app to uncover hidden dependencies and blockers.
 - Architecture and dependency visibility**
Trace app-to-app and app-to-platform flows across runtime, data, network, and security layers.



Sneak Peak

Modernization and 6R Planning

Modernization

Automated 6R strategy assignment

Quickly categorize workloads across Rehost, Refactor, Re-architect, Replace, Retain, and Retire, accelerating planning and alignment.

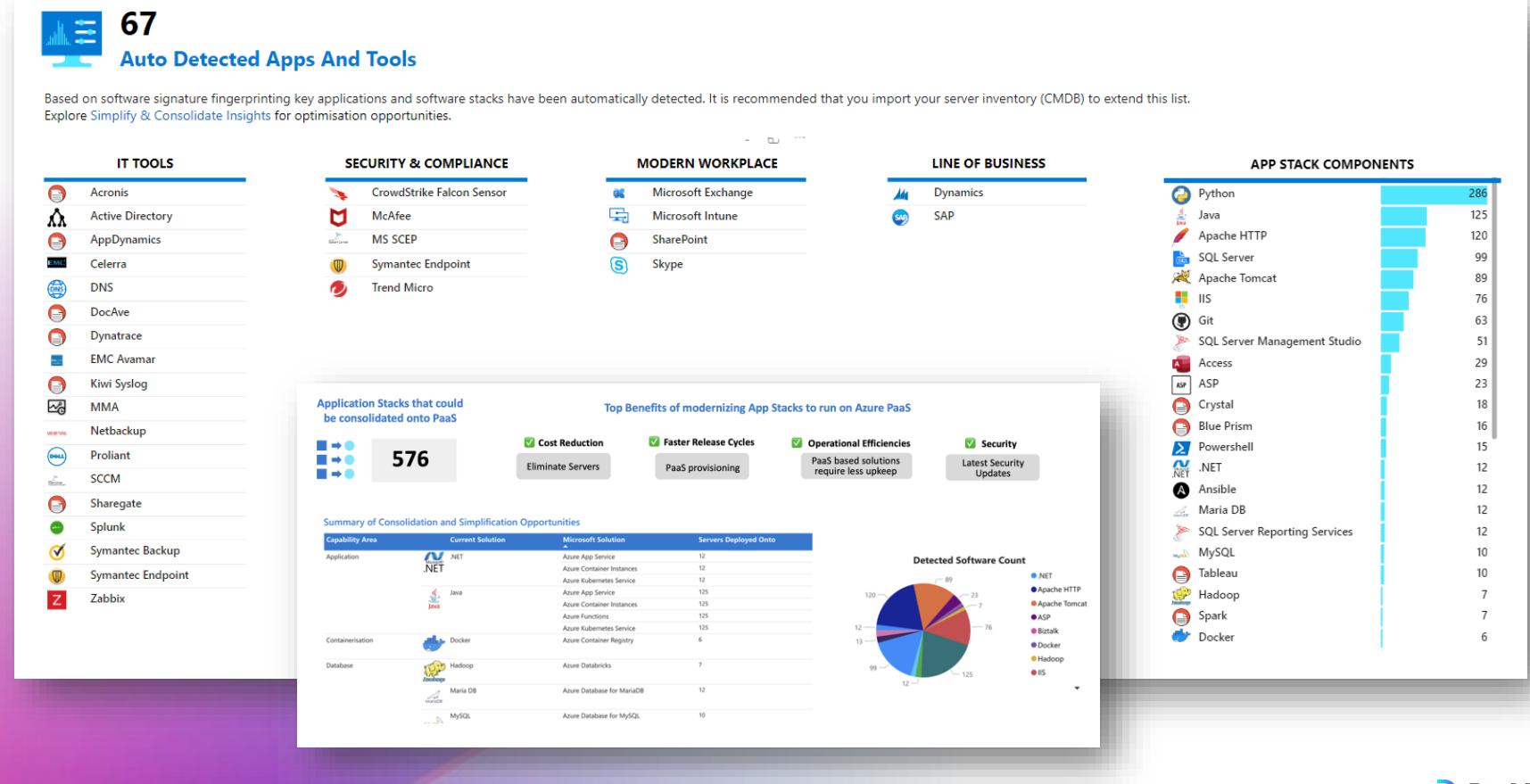
PaaS fit and modernization insights

Uncover high-fit candidates for Azure App Services, SQL MI, Functions, and other platform services based on actual stack components.

Automated 6R strategy assignment

Quickly categorize workloads across Rehost, Refactor, Re-architect, Replace, Retain, and Retire, accelerating planning and alignment.

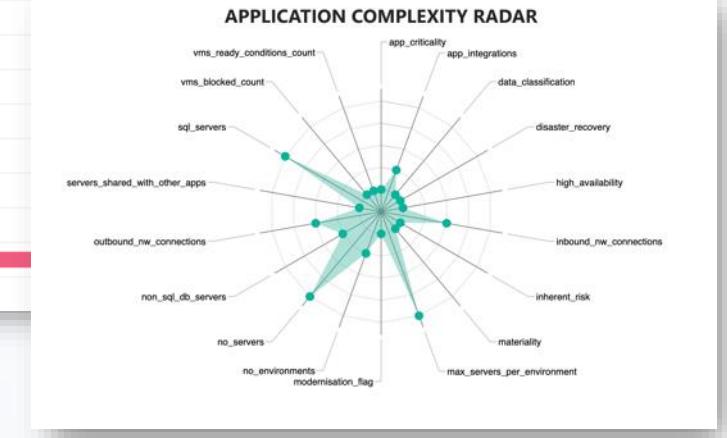
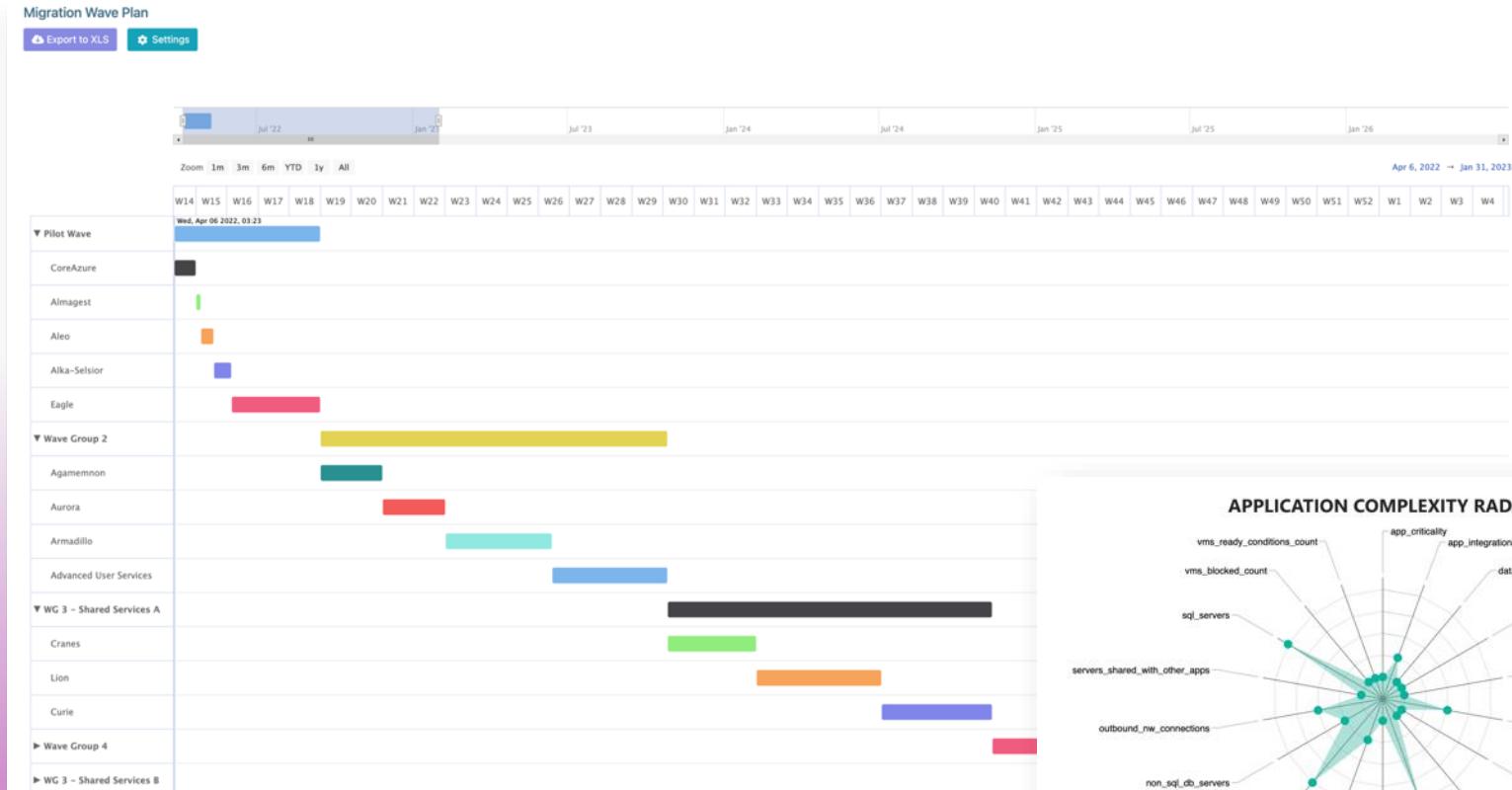
Rehost	Replatform/Refactor	Re-Architect	Replace	Retain	Retire	Unassigned
Migrate	Modernize / PaaS	Innovate	SaaS / Cloud Equivalent / ISV	Leave on Premises	Decommission	Assign a Strategy
Apps: 12 VMs: 120	Apps: 4 VMs: 19	Apps: 0 VMs: 0	Apps: 20 VMs: 31	Apps: 0 VMs: 0	Apps: 0 VMs: 0	Apps: 1 VMs: 637



Wave Planning & App Complexity Sizing

Wave Planning

- Auto-generated wave plan** based on network topology and business unit alignment
- Flexible sequencing** by application owner, data centre, software lifecycle, or complexity
- Customizable waves** to align with business priorities and migration timelines
- Effort & complexity scoring** – Prioritizes low-risk apps first, improving velocity and partner delivery confidence



Sneak Peak

Total Cost of Ownership

Financial Planning

- TCO, cloud cost modelling, and right-sizing insights to drive financially sound decisions
- Sustainability metrics and energy impact analysis to support ESG goals and green IT initiatives

Scope:

46 Applications 585 Servers 202 TB Storage

Before

After

On Premise Cost

\$2.1M

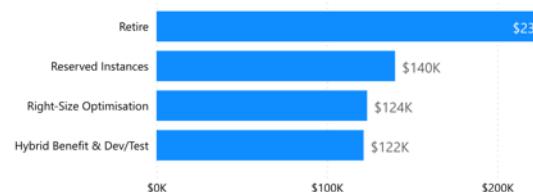
Cloud Hosting Cost

\$775.6K

Annual Savings

\$1.3M

Key Savings Breakdown



Current vs Future State Breakdown

	On-Premises	Azure
Compute	\$1,439,017	\$88,032
PaaS	\$0	\$610,385
Storage	\$525,234	\$56,682
Operational Services	\$159,018	\$20,513
Total	\$2,123,270	\$775,612

63% Savings Annually

*Annual costs shown
** Doesn't include Retain costs in either Before or After

For Rehost servers, 135 server(s) are using 3 Year Reserved Instance, 1 server(s) are using PAYG. For Rehost servers, 136 are using Azure Hybrid Benefit. For Replatform/Refactor servers, all SQL Servers are right-sized onto SQL MI General Purpose on 3YR RI with a 70% utilisation target with consolidation. For Replatform/Refactor servers, servers that have a modernisation technology (i.e. Java, .NET, etc) are priced at a 30% discount over Azure IaaS 3YR RI. Remaining Replatform/Refactor servers are moved to Azure IaaS on 3YR RI. All Re-Architect servers are priced at an industry benchmark of 30% discount over Azure IaaS 3YR RI. All Replace servers are priced at an industry benchmark of 30% discount over Azure IaaS 3YR RI.



Tenant to Tenant Migration Support Tool

→ Use the [Azure Resource Migration Support Tool](#) (created by Jack Tracey – Azure Community FTW!)

→ Use it to understand which resources can be migrated and which ones need to be rebuilt

→ Make sure to update the resource support CSV from GitHub before running the tool

Customer Name: Ergo **Date Completed:** 15/12/2025

Azure Resources Migration Analyser (Resource Group & Subscription Levels)

Instructions
Either run the following PowerShell command yourself using the 'AZ' module (details on how to install can be found here: <https://docs.microsoft.com/en-us/powershell/azure/install-az-ps?view=azps-1.1.0> or provide the customer with the below command and get them to send the exports back to us.

PowerShell Command: "Get-AzResource | Select-Object Name,ResourceGroupName,Location,ResourceType | Export-Csv PATH\FILENAME.csv"
Please change the "PATH\FILENAME.csv" part of the script to an actual path and file name e.g. "c:\users\john.smith\desktop\Azure-Subscription1-Export.csv"

Once you have the exported .csv files back open one of them and copy the data into one of the various subscription tabs along the bottom of this workbook and follow the instructions in the header row for details on what data goes where. Please rename the Subscription tabs to the name of the subscriptions if known.

Please see the "EXAMPLE SUBSCRIPTION" for assistance of what data goes where.

Intro Page Azure Resource Support Matrix EXAMPLE SUBSCRIPTION SUBSCRIPTION 1 SUBSCRIPTION 2 SUBSC ... + : ← →

Name	Resource Group Migration Supported?	Subscription Migration Supported?	Resource Group Migration Limitations	Subscription Migration Limitations
DefaultWorkspace-2825d8c1-fb86-4422-b3c7-302ccdd58b46-WEU	Yes	Yes	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations
ContainerInsights(DefaultWorkspace-2825d8c1-fb86-4422-b3c7-302ccdd58b46-WEU)	Yes	Yes	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations
SecurityCenterFree(DefaultWorkspace-2825d8c1-fb86-4422-b3c7-302ccdd58b46-WEU)	Yes	Yes	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations
jti-fs-02	Yes	Yes	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations
jti-fs-02/AzureNetworkWatcherExtension	Yes	Yes	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations
jti-fs-02/IaaS.Diagnostics	Yes	Yes	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations
jti-fs-02/MicrosoftMonitoringAgent	Yes	Yes	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations
jti-fs-02/SiteRecovery-Windows	Yes	Yes	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations	Various limitations regarding: Scale Sets, Backup, Key Vaults, Marketplace Plans https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-machines-limitations
jti-test-sql31	Yes	Yes	Various limitations, https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-networks-limitations	Various limitations, https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-networks-limitations
Intact.en.lnne	Yes	Yes	Various limitations, https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-networks-limitations	Various limitations, https://docs.microsoft.com/en-gb/azure/azure-resource-manager/resource-group-move-resources#virtual-networks-limitations

Demo: Tenant-to-Tenant Migration Support Tool

Assessment Phase



Inventory & Risk Assessment Checklists

→ It's super-important that you work with all stakeholders to create an inventory of all workloads in scope for assessment

→ Create your own Risk Assessment Checklist

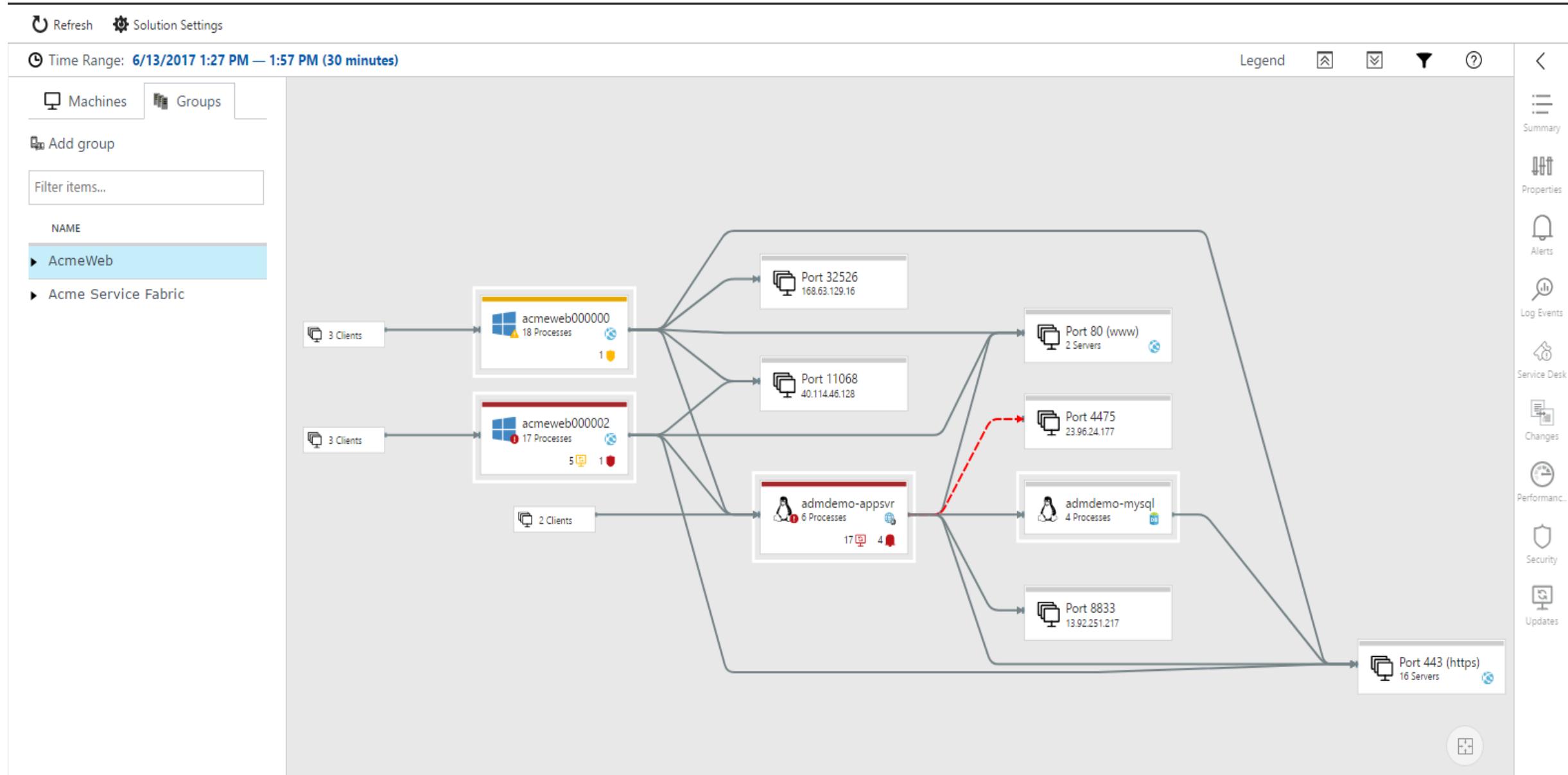
→ Maintain Risk Assessment Checklists for different workload types (e.g. servers, databases, applications)

A	B	C	D	E	F	G
Servername	OS	Application	Role	Migration Priority Tier	NewLocation	MigrationType
2012R2STD0X	Microsoft Windows Server 2012 (64-bit)		22012 R2 Template	N/A	To be decommissioned	N/A
auto-docker	Red Hat Enterprise Linux 7 (64-bit)			TBC	TBC	TBC
automation-dynamic1	Red Hat Enterprise Linux 6 (64-bit)			TBC	TBC	TBC
aws-cent01	CentOS 6 (64-bit)			TBC	TBC	TBC
AWS-MS-Connector	FreeBSD Pre-11 versions (64-bit)			TBC	TBC	TBC
AZ-DISCOVER	Microsoft Windows Server 2016 or later (64-bit)		Azure Vmware discovery	N/A	To be decommissioned	N/A
bugzilla (Do Not Delete - Mic	Red Hat Enterprise Linux 6 (64-bit)			TBC	TBC	TBC
build4	Red Hat Enterprise Linux 6 (64-bit)			TBC	TBC	TBC
build6	Red Hat Enterprise Linux 6 (64-bit)			TBC	TBC	TBC
build-nexus	Red Hat Enterprise Linux 6 (64-bit)			TBC	TBC	TBC
Config-App	Microsoft Windows 7 (64-bit)			TBC	TBC	TBC
DEVO1PAM01	Microsoft Windows Server 2016 or later (64-bit)	Secret Server - DEV	Application Server	Bronze	Azure	Lift&Shift
DEVO1PAM02	Microsoft Windows Server 2016 or later (64-bit)	Secret Server - DEV	Application Server	Bronze	Azure	Lift&Shift
DEVO1PAMDB01	Microsoft Windows Server 2016 or later (64-bit)	Secret Server - DEV	Database Server	Bronze	Azure	Rebuild/Modernise
DUB01ADDS01	Microsoft Windows Server 2012 (64-bit)	AD Sync	Azure Active Directory Sync	Silver	Azure	Rebuild/Modernise
DUB01ADFS01	Microsoft Windows Server 2012 (64-bit)	SSO - MFA	Active Directory Federation - SSO	Gold	Azure	Rebuild/Modernise
DUB01ADFSPO1	Microsoft Windows Server 2012 (64-bit)	SSO - MFA	Active Directory Federation - SSO	Gold	Azure	Rebuild/Modernise
DUB01ADRAP	Microsoft Windows Server 2016 or later (64-bit)			Silver	Azure	Lift&Shift
dub01-airwave01	CentOS 6 (64-bit)		Network monitoring Aruba wifi	Gold	Azure	Rebuild/Modernise
dub01-ansible01	CentOS 7 (64-bit)			N/A	To be decommissioned	N/A
dub01-atom-02	Red Hat Enterprise Linux 6 (64-bit)			TBC	TBC	TBC
dub01buildjnk01	Microsoft Windows Server 2016 or later (64-bit)			TBC	TBC	TBC
DUB01CA01 - Offline Root	Microsoft Windows Server 2012 (64-bit)			Gold	Azure	Rebuild/Modernise
DUB01CA02	Microsoft Windows Server 2012 (64-bit)			Gold	Azure	Rebuild/Modernise
DUB01CA03 - Offline Root	Microsoft Windows Server 2016 or later (64-bit)	Certificate Authority	Offline Root Certificate Authority	Gold	Azure	Lift&Shift
DUB01CA04	Microsoft Windows Server 2016 or later (64-bit)	Certificate Authority	Enterprise Certificate Authority	Gold	Azure	Lift&Shift
dub01-cent01 (Do Not Delete)	CentOS 4/5 or later (64-bit)			TBC	TBC	TBC
dub01-checkmk01	CentOS 7 (64-bit)	Check with Mark		Gold	Azure	Rebuild/Modernise
dub01-clustercontrol	CentOS 7 (64-bit)			N/A	To be decommissioned	N/A
dub01-conf01 (Do Not Delete)	Red Hat Enterprise Linux 6 (64-bit)			N/A	To be decommissioned	N/A
dub01-conf1	CentOS 7 (64-bit)			N/A	To be decommissioned	N/A

A	B	C	D	E
Area	Task	Yes-No + Notes-Detail	Person Responsible	
Assessment	Assess the servers to be migrated – Assessment tool	Yes- Azure Migrate configured and assessment report prepared.	Ergo Consultant	
	Are Operating Systems ready for migration?	Yes - Windows Server 2008 R2 and higher.	Ergo Consultant	
	Are the workloads geo-dispersed and if so, where are they located?	Yes - Located across Ireland, UK, Luxembourg, Cayman Islands and USA.	Customer Contact	
	Do you have more than one office branch, if so, provide details?	Yes - Five branch offices with HQ located in Dublin, Ireland.	Customer Contact	
	Any third-party application compatibility/support issues?	No - vendor confirmed support is good.	Customer Contact	
Networking	Are the servers eligible to change their IP range? (IP Changing)	Yes - discussed this change with app owner and confirmed good.	Ergo Consultant - Customer Contact	
	Have you reserved a private IP address range that can be used exclusively for cloud virtual network segmentation (e.g. Hub-Spoke VNet address spaces)?	Yes - we have agreed an IP address space of 10.150.0.0/16 which can be used	Customer Contact	
	Have you assessed which Intersite Connectivity method will be required to meet your bandwidth and latency needs (e.g. VPN Gateway or Express Route)?	Yes - An Azure S2S VPN Gateway using the VPNGw1 SKU (650Mbps) is more than sufficient for our on-premises intersite connectivity needs.	Ergo Consultant - Customer Contact	
	Is there a preference for a specific Network Virtual Appliance (firewall) vendor and should high-availability be included in the design?	Yes - Azure Firewall should be used (which has native HA).	Ergo Consultant - Customer Contact	
	Is there a requirement for outbound or inbound internet connectivity on the migrated workloads?	Yes - most workloads will require outbound internet connectivity and some will require inbound internet connectivity (to be controlled via the Firewall).	Ergo Consultant - Customer Contact	
	Is remote access required and if so, detail internal and/or external needs?	Yes - Remote access will be required with a combination of VPN access for internal staff and external vendor access for third-parties.	Customer Contact	
	Have the target regions been determined?	Yes - North Europe	Ergo Consultant - Customer Contact	

Demo: Inventory & Risk Assessment Checklists

Assess your environments with Azure Migrate



Machine Learning and AI-driven Assessments with Dr Migrate

Overview

Data Health

Digital Estate

Key Technologies

Your Apps

App Strategies

App Sizing

Wave Planning

Sustainability

What If

Plan on a Page



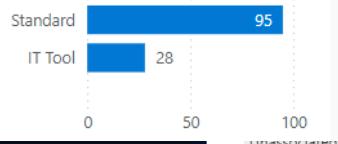
APPLICATIONS MAPPED

123

792/999

Servers have been mapped to an...

Apps By Category



SERVERS

999

Windows 449

SQL 100

RHEL 358

Linux & Other 92

Physical Nodes Detected 29



UTILIZATION

7,189

Allocated Cores

22% Utilization

25,759

Allocated RAM (GB)

17% Utilization

853

Allocated Storage (TB)



SUPPORT STATUS

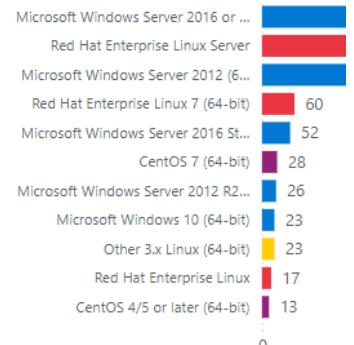
Out of Support Count

Windows	189
Centos	45
Linux	37
SQL	35
Redhat	8
VMWare	1

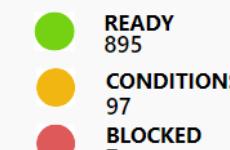


OPERATING SYSTEMS

35



POWERED ON



Building a Business Case

azmig-bus-case-demo01 ... X

Business Case

Search Export Edit Assumptions Refresh Feedback

Overview [New] The business case recommendations have now been enhanced. You can also scope servers and workloads running on Microsoft Hyper-V and Physical/ Bare-metal environments as well as IaaS services of other public cloud. Please update the Azure or on-premises assumptions to recalculate the business case. [Learn more](#)

Business case reports

On-premises vs Azure

Azure IaaS

Azure PaaS

Essentials

Target location : North Europe

Migration strategy : Azure recommended approach to minimize cost

Performance history duration : Aug 16 2023 to Sep 13 2023

Currency : USD

Help me understand this report

Assumptions

Azure cost

On-premises cost

TCO comparison

Estimated on-premises cost for 8 servers	\$366,997	
Estimated Azure cost for servers and workloads ready for migration	\$264,264	
IaaS cost	\$235,598	
PaaS cost	\$28,666	
Savings	\$102,733	Save up to 28%

View Details

YoY estimated current vs future state cost

Year	Current	Future	Net Cash Flow
2024	~350k	~350k	~0
2025	~360k	~340k	~20k
2026	~380k	~320k	~60k

Help me understand this report

Savings with Azure Hybrid Benefit

\$2.46K

Bring your existing Windows and SQL Server licen to Azure. [Learn more](#)

Savings with Extended Security Updates

in next 3 years

\$576.75

Bring your out of support Windows and SQL Serv versions to Azure, and avail the benefit of extend security updates for 3 years after the end of supp date at no additional cost. [Learn more](#)

→ Use Azure Migrate to help you build a Business Case for your Migration

→ Create reports for on-prem vs Azure, IaaS & PaaS migrations

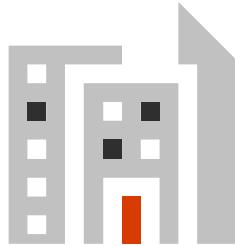
→ Create reports for on-prem vs Azure, IaaS & PaaS migrations

Demo: Azure Migrate Assessments

Migration Phase



Migrate to Azure with Azure Migrate or ASR



On-premises



CentOS



redhat



debian



ubuntu



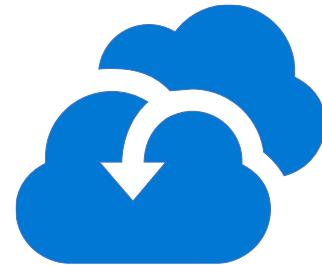
ORACLE



SUSE



Zero app data loss | Near-zero downtime | Test migration to minimize risk | Free usage during migration



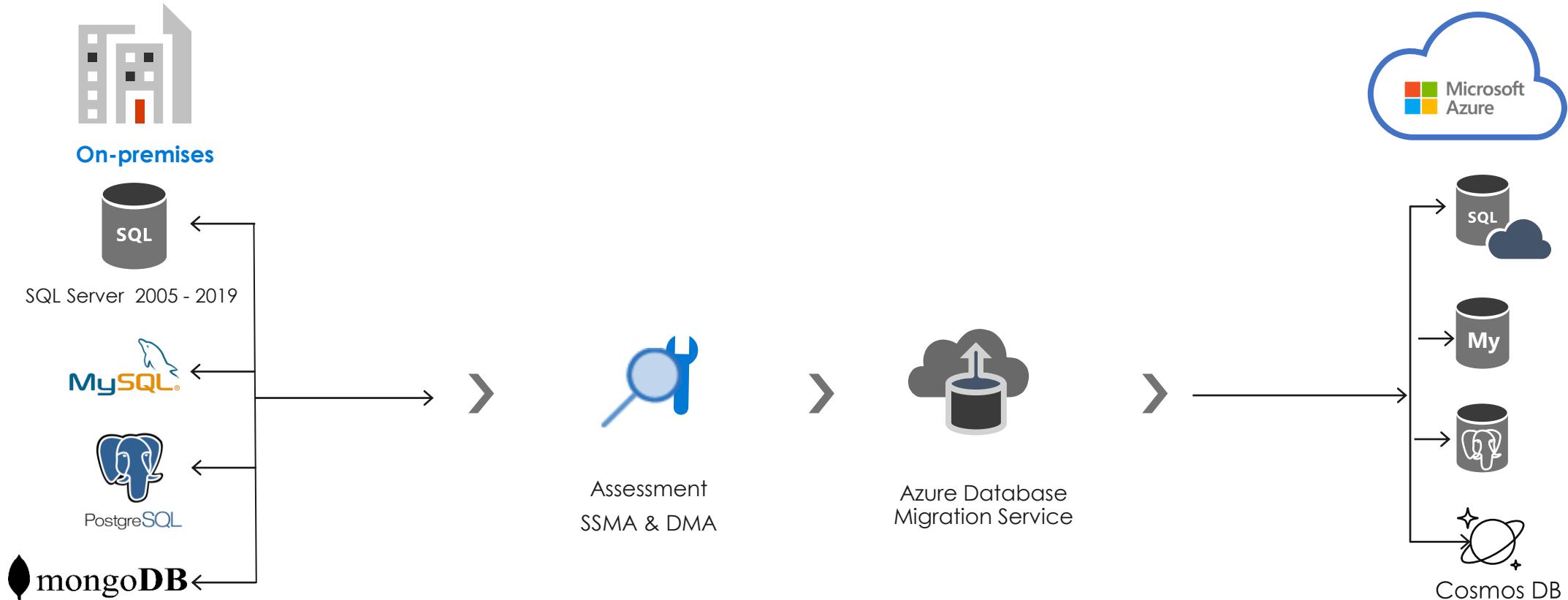
Azure Migrate/
Azure Site Recovery
(ASR)

Set up source & target environments
Set up replication policy
Begin replication
Run test migration
Failover to Azure



Azure

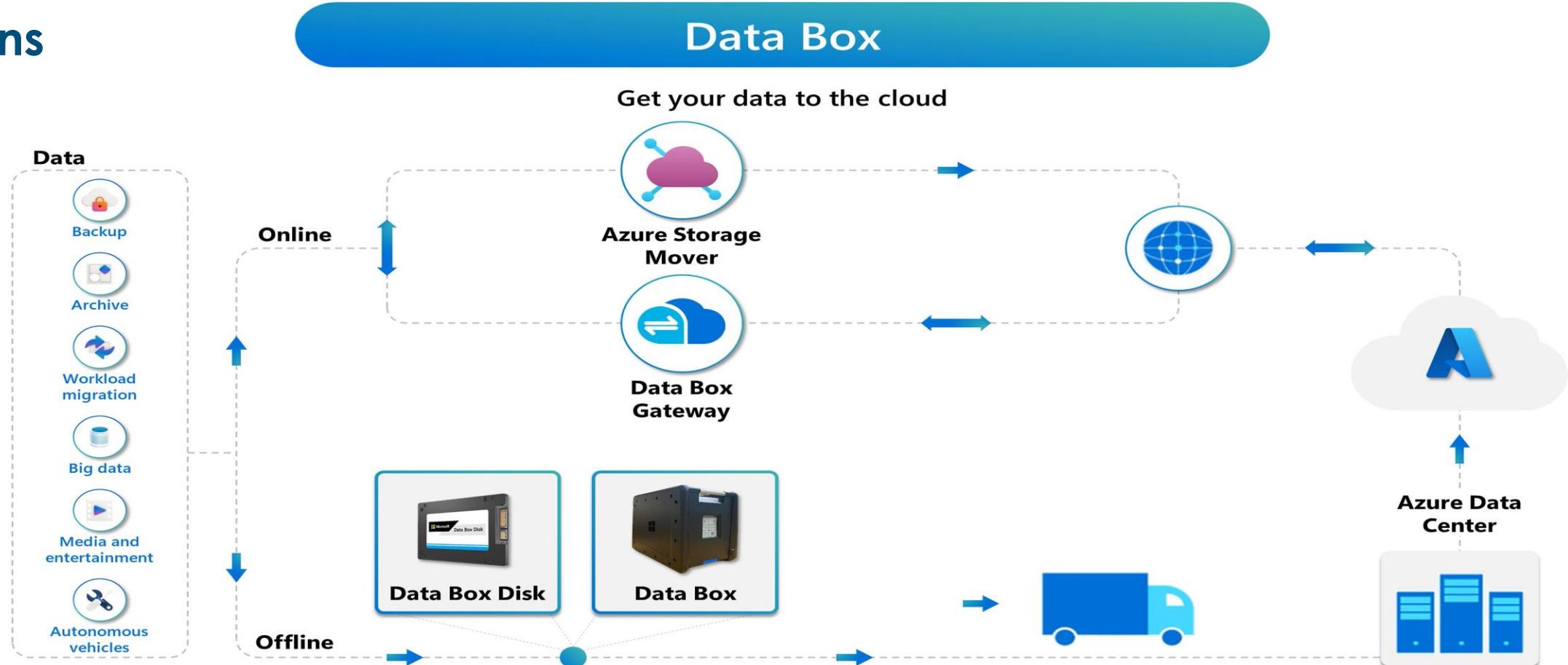
Refactor databases using Azure Database Migration Service



Seamless, end to end solution | Near-zero downtime | Migrate at-scale from multiple sources

Azure Data Box – Bulk-move data to Azure

**40TB, 120 TB,
525 TB & 1PB
Options**



Optimise Costs



Contoso | Overview

Billing account

Search



Get started

Summary

Tutorials & what's new

Overview

Access control (IAM)

Billing scopes

Cost management

Cost analysis

Cost alerts

Budgets

Advisor recommendations

Billing

Invoices

Payment methods

Reservation transactions

Billing profiles

Products + services

Azure subscriptions

Recurring charges

Amount due

\$10,047.00

Automatic payment on 07/31 with VISA ***1234.

Pay now

View invoice

Spending rate and forecast



View details

Upcoming invoices

Available on 8/15/2023

Billing period
July 2023Pre-tax total so
\$8,850.20

This month's top product categories



View details

AI assistant (preview)

4 references

AI-generated content may be incorrect



My business is growing and I think we will need to double our storage to scale. How much would my bill be then?

You have spent an average of \$5672.22 per month on storage during the past 6 months. If you doubled your storage without additional reservations or savings plans, your storage costs would average \$11,344.44 per month.

Based on this average, your invoice would be approximately \$15,719.00 per month.

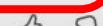
Recommendation:

Consider buying a reservation or adding a savings plan to optimize costs.

[Buy a reservation](#)[Add a savings plan](#)

3 references

AI-generated content may be incorrect

[Tell me about reservations](#)[Tell me about savings plans](#)[What's my forecasted cost this month?](#)[Show me costs over time](#)[Ask a question](#)

AI-infused Cost Management experience

Azure Advisor is Underrated!

→ Up to date recommendations on **Cost**, **Security**, **Reliability**, **Operations** and **Performance**

The screenshot shows the Azure Advisor Cost interface. On the left, a sidebar lists categories: Overview, Getting started, Advisor score, Workbooks, Recommendations, Cost, Security, Reliability, Operational excellence, Performance, All recommendations, Monitoring, Alerts (Preview), and Recommendation digests. The 'Cost' category is selected. The main area displays the following information:

- Total recommendations:** 3
- Recommendations by impact:** 3 High impact, 0 Medium impact, 0 Low impact
- Impacted resources:** 12
- Potential yearly savings based on retail pricing:** 22,488 EUR + 5,520 USD

An info icon points to a note: "For more cost management and optimization capabilities, visit Cost Management". Below this, a table lists three recommendations:

Impact ↑↓	Description ↑↓	Potential yearly savings b... ↑↓	Impacted resources ↑↓	Last updated ↑↓
High	Purchasing a savings plan for compute could unlock lower prices	8,290 EUR	3 Subscriptions	06/9/2023, 17:26
High	Consider virtual machine reserved instance to save over your on-demand costs	14,198 EUR	3 Subscriptions	06/9/2023, 14:41
High	Right-size or shutdown underutilized virtual machines	5,520 USD	9 Virtual machines	06/9/2023, 16:32

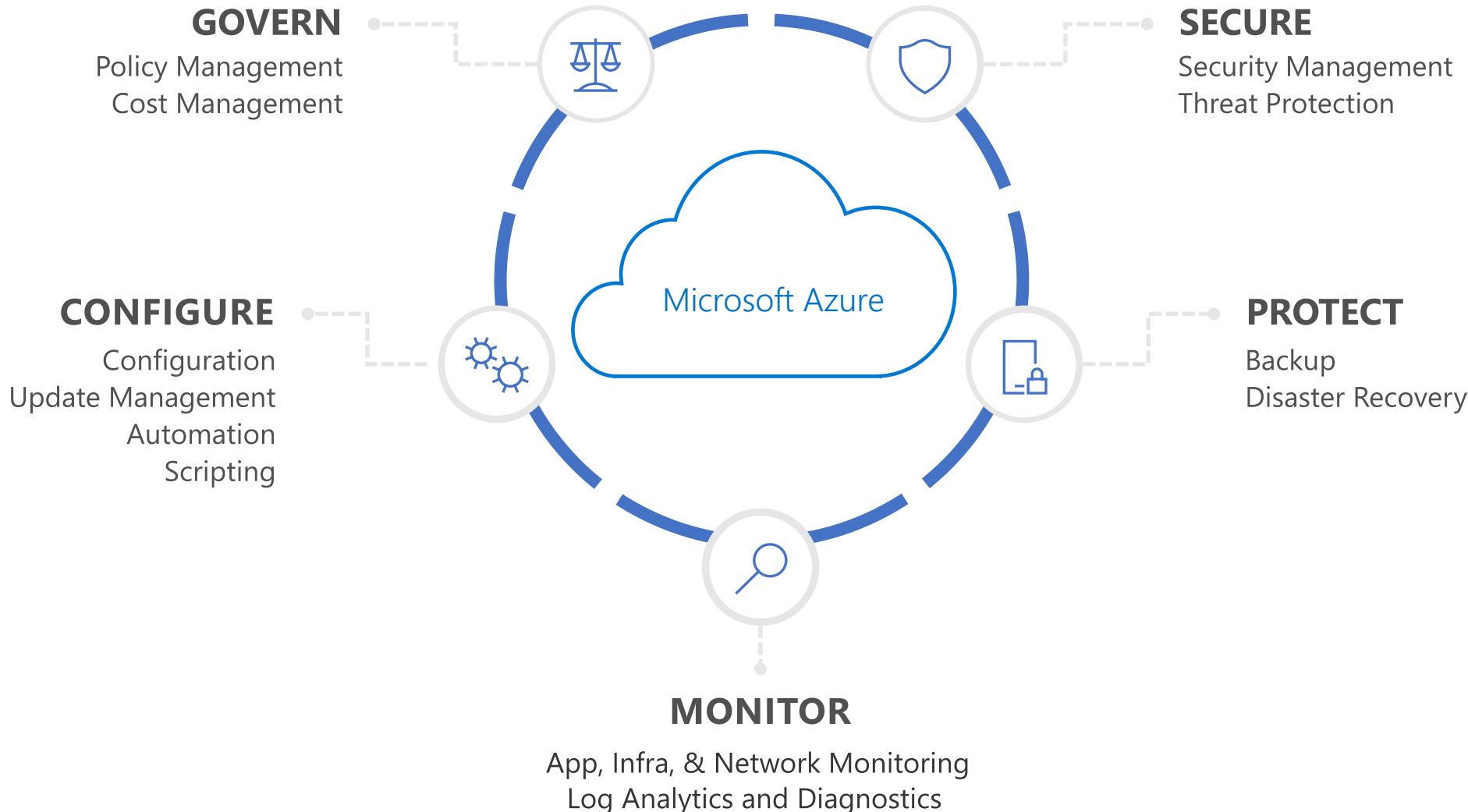
→ Create recommendation digests

→ Configure advisory alerting

Management



Full set of cloud management and governance capabilities

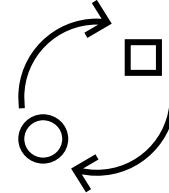


Azure Policy for enterprise-level compliance



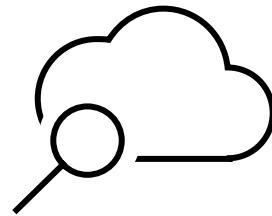
- ❯ Turn on built-in policies **or build custom** ones
- ❯ Enforce configurations like restricting deployment to specific datacenters
- ❯ Establish tagging standards to help drive accountability

Add policies to your resources



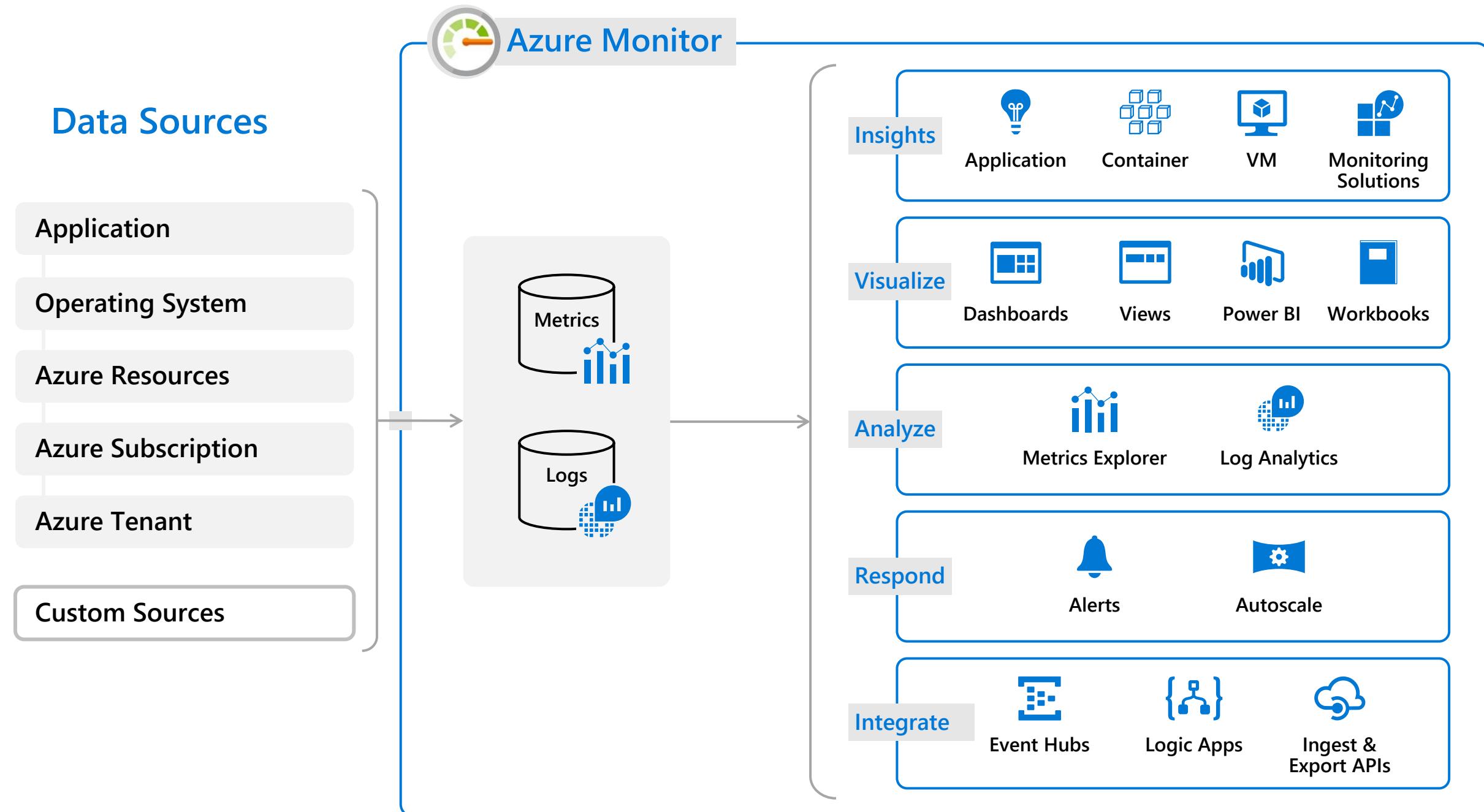
- ❯ Enable policy-based management for all your Azure resources
- ❯ Apply policies to a Management Group with control across your entire organization

Apply policies at scale



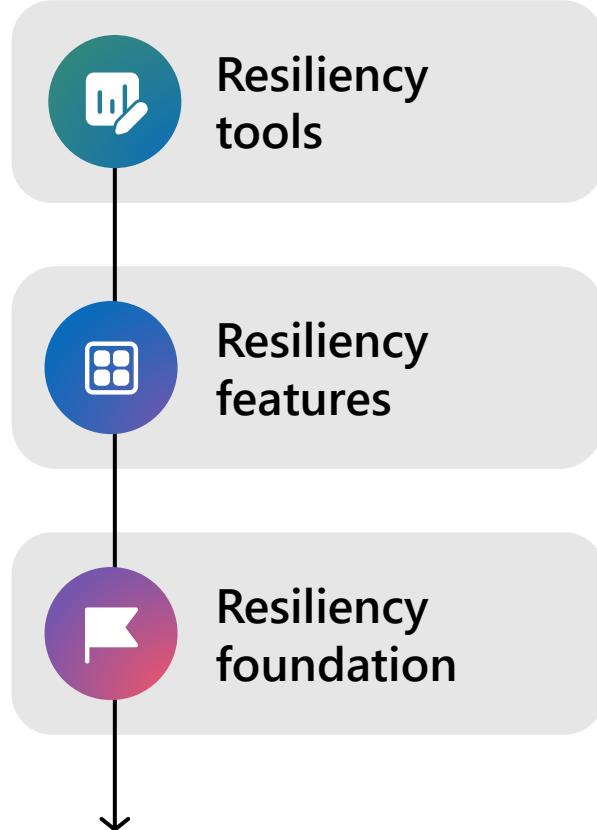
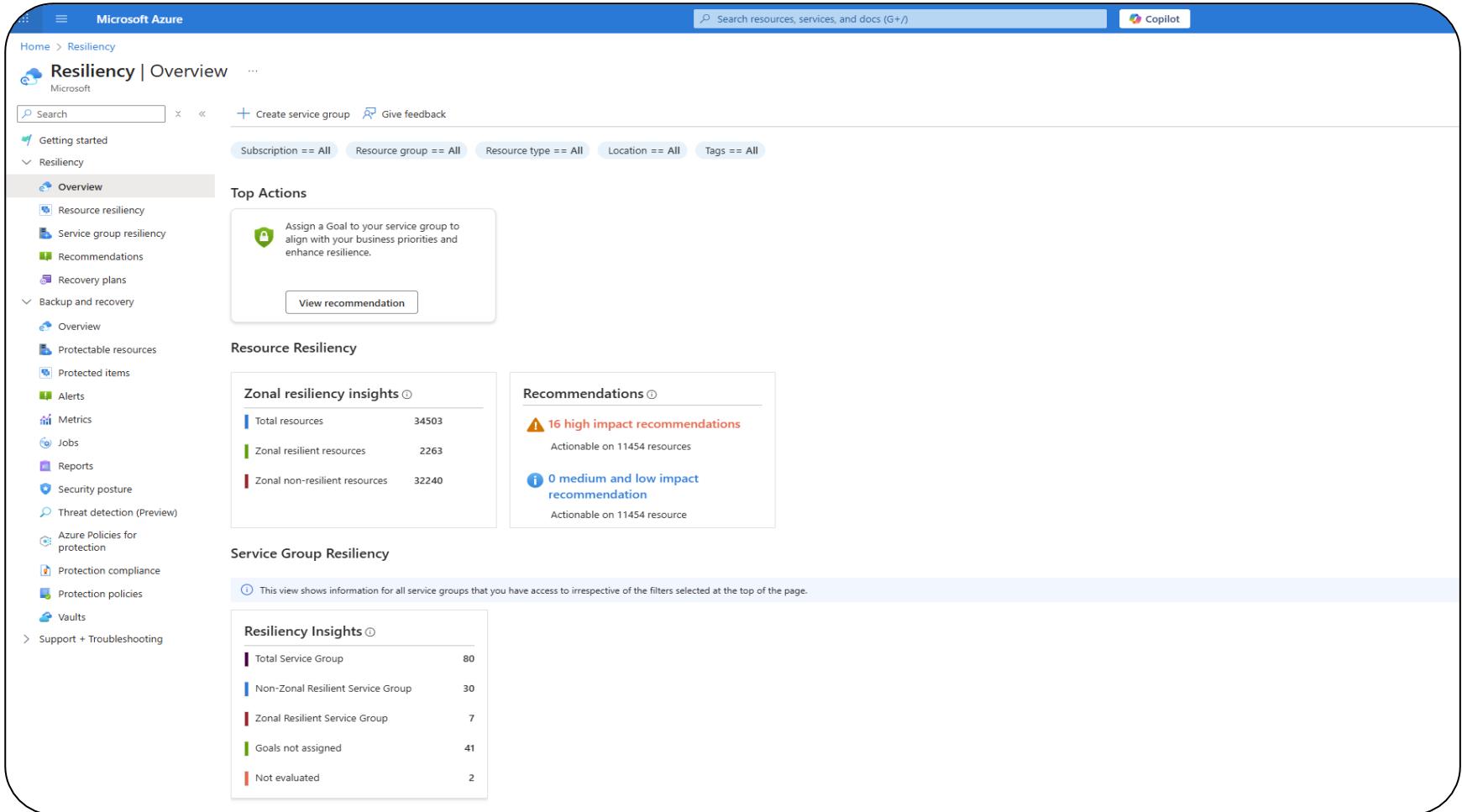
- ❯ Audit policy compliance against best practices
- ❯ View policy compliance and trends over time
- ❯ Aggregate multiple policies together to gain visibility on an initiative

Monitor compliance



Introducing Azure Resiliency

New

The screenshot shows the Microsoft Azure Resiliency Overview page. The left sidebar lists various resiliency-related services and features. The main content area includes sections for Top Actions, Resource Resiliency (Zonal resiliency insights), Recommendations, and Service Group Resiliency.

Top Actions:

- Assign a Goal to your service group to align with your business priorities and enhance resilience.

Resource Resiliency:

Zonal resiliency insights	Total resources	34503
	Zonal resilient resources	2263
	Zonal non-resilient resources	32240

Recommendations:

- 16 high impact recommendations (Actionable on 11454 resources)
- 0 medium and low impact recommendation (Actionable on 11454 resource)

Service Group Resiliency:

This view shows information for all service groups that you have access to irrespective of the filters selected at the top of the page.

Resiliency Insights	Total Service Group	80
	Non-Zonal Resilient Service Group	30
	Zonal Resilient Service Group	7
	Goals not assigned	41
	Not evaluated	2

Azure “Resiliency” Service Overview



Application centric experience

Built on top of Service Group that allows customers to define their applications/workloads in a standard way across Azure



Azure Service Group



Resiliency goals & recommendation

Goals with contextual Advisor recommendation enabling improved resiliency
Azure Copilot guided experience for managing resiliency



Advisor



App health observability

Define App SLI/O and monitor with service health to get alerts and troubleshoot failures



Monitor



Service Health



Validate application resiliency

Drills built on top of Chaos Studio faults to validate app workflows for resiliency posture & compliance



Chaos Studio



App recovery against disruptions

Define & Execute an app-centric Recovery Plan to recover during disruptions and outages

Built-in recovery readiness checks



BCDR

Resiliency for Mission-Critical Applications and Key Azure services used by customers

Provides a unified solution across infra, data and cyber recovery that surfaces high-impact risks, simplifies remediation, and enables proactive resilience planning through AI-driven insights

Security

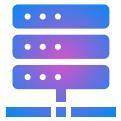


Secure and defend your apps and data



Identity and access management

- Microsoft Entra ID (identity protection)
- Multi-factor authentication
- Role-based access control
- Managed Identities



Data protection

- Encryption (disks, storage, SQL)
- Azure Key Vault
- Azure confidential computing
- Azure Files and Azure NetApp Files data protection



Network security

- ExpressRoute
- Virtual WAN
- Private Link
- Route Server
- Virtual Gateway
- Firewall



Threat protection

- Microsoft Defender for Cloud
- Defender for Servers
- Microsoft Antimalware for Azure
- Azure DDoS Protection



Security management

- Log Analytics
- EventHub
- Azure Monitor
- Azure Advisor
- Microsoft Sentinel

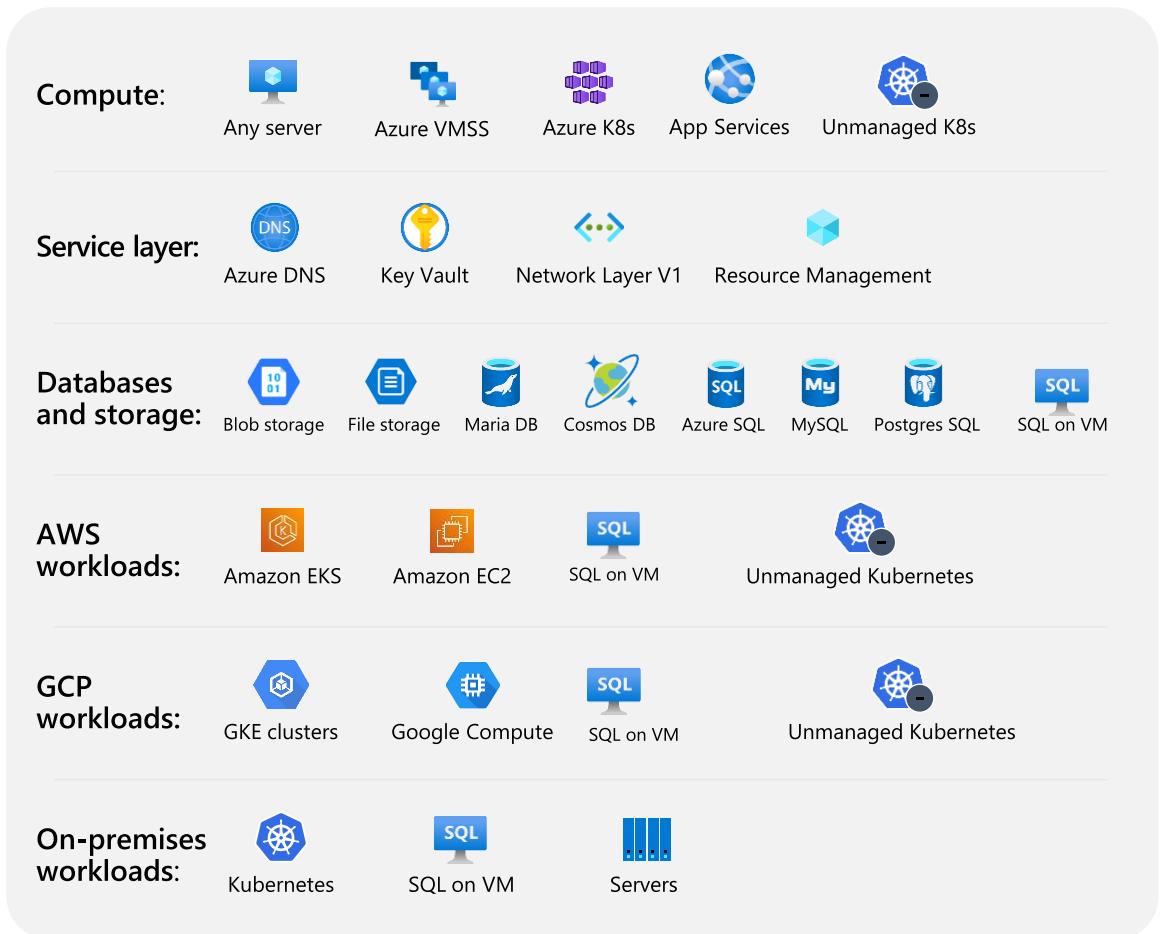
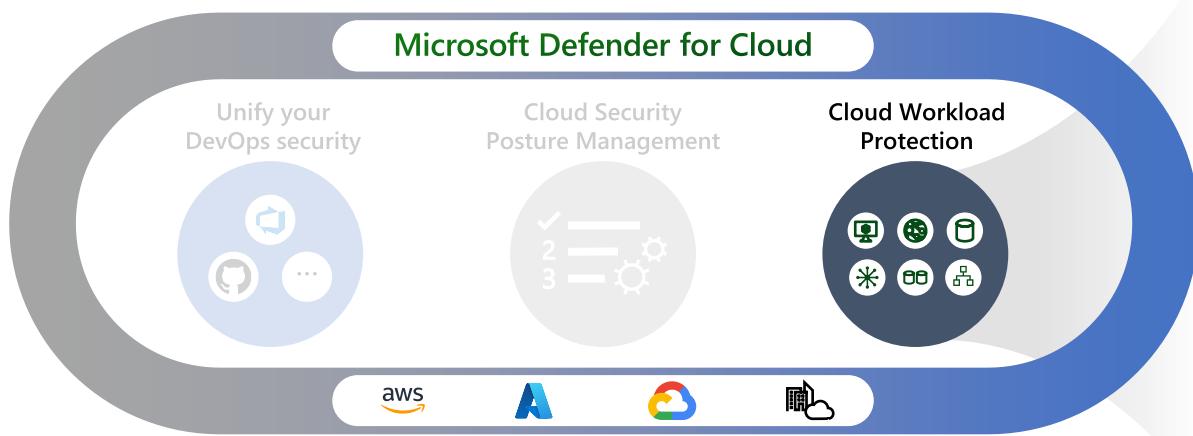
Additional partner solutions

Protect

| Detect

| Analyze and Respond

Cloud workload protection

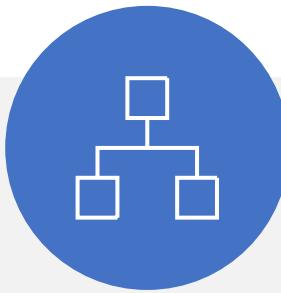


Threat protection for all layers of the cloud and on-premises



Threat detection

Prioritized alerts across compute, databases, the cloud service layer, and more



MITRE ATT&CK® framework mapping

Understand the effect across the adversary's attack lifecycle



Leading threat intelligence

Rely on highly sophisticated and resource-specific alerts based on Microsoft's global threat intelligence



Agentless vulnerability assessment & management

Identify and remediate vulnerabilities before they are exploited



Alert correlation

Prioritize more easily with connected alerts that are grouped into incidents

Demo: Defender for Cloud

Win a Book!

Q. – Name 2 tools that can be used for cloud migration assessments?

Session feedback available in home feed of the app after the session





MC2MC
—CONNECT—