

Azure SQL Executions

Cloud Migration Factory (CMF)





What is the CSU Migration Factory?

Jumpstart Azure journey for Microsoft Cloud Workloads through Microsoft delivery at no cost

[Migrate or modernize first? - Cloud Adoption Framework | Microsoft Learn](#)









[7 Options To Modernize Legacy Systems \(gartner.com\)](#)

CMF | Workloads & Execution Focus

Jumpstart Azure journey for Microsoft Cloud Workloads through Microsoft delivery at no cost

Migrations

Jumpstart

WS & Linux Migration + AVS+ Windows Arc Enablement 	RDS to AVD Migration 	SQL Migration & SQL Arc enablement 	NoSQL & OSS Databases 	App Migration (PaaS) 	Security 	Analytics 	AI 
<ul style="list-style-type: none">Rehost of Windows and Linux servers From On-prem, AWS, GCP, To: Azure VMsAzure VMware Solution: Factory to migrate servers, apps, and DBs into AVSAutomated scripts for Azure Arc Enabled deployment (Current ESU Version)	<ul style="list-style-type: none">Modernize on-prem RDS to AVDMigrate on-prem Citrix to AVD	<ul style="list-style-type: none">Rehost/Refactor migration From SQL Server On-prem, AWS, GCP; To: Azure SQL MI, Azure SQL DB, SQL Server on Azure VMsAutomated scripts for SQL Arc Enabled deployment	<p>NoSQL:</p> <ul style="list-style-type: none">On-prem Cassandra to Azure MI for Apache CassandraOn-prem MongoDB to Azure Cosmos DB for MongoDB (vCore) <p>OSS Databases:</p> <ul style="list-style-type: none">MySQL/PostgreSQL to Azure DB for MySQL/PostgreSQLSingle Server to FlexServer	<ul style="list-style-type: none">.NET, Java Apps On-Prem to PaaSContainerized workloads On-Prem to AKS/ACAApps/Self Hosted K8's running on Azure VM's to PaaSWordPress migration to App ServiceOther Cloud providers to Azure: AWS EKS, ECS to AKS & ACAOpenShift to ARO migrations	<p>Defender for Cloud</p> <ul style="list-style-type: none">Cloud Security Posture Management (CSPM)Cloud Workload Protection (CWP) <p>Sentinel</p> <ul style="list-style-type: none">Accelerate Sentinel adoption with proven best practice use casesAccelerate migration from Splunk to Sentinel	<ul style="list-style-type: none">Lakehouse deployment (Data migration, Build MVP for initial use case)SQL Server Reporting Services to Power BISSAS/Analysis Services to Power BIP SKU to F SKU migrationReal-Time Analytics	<ul style="list-style-type: none">Deployment of AOAI use cases: Conversational AI/Search, Virtual Assistant, Doc Intelligence, Personalized content, LLMOps, Agentic Workflows, Image AnalysisPOC, Architecture Design, Landing Zone for AOAI, Prod deployment, Solution Optimization
Lift & Shift (rehost) of dependent applications to Azure VMs or App Service (no refactoring/code change)							

Current localized coverage:

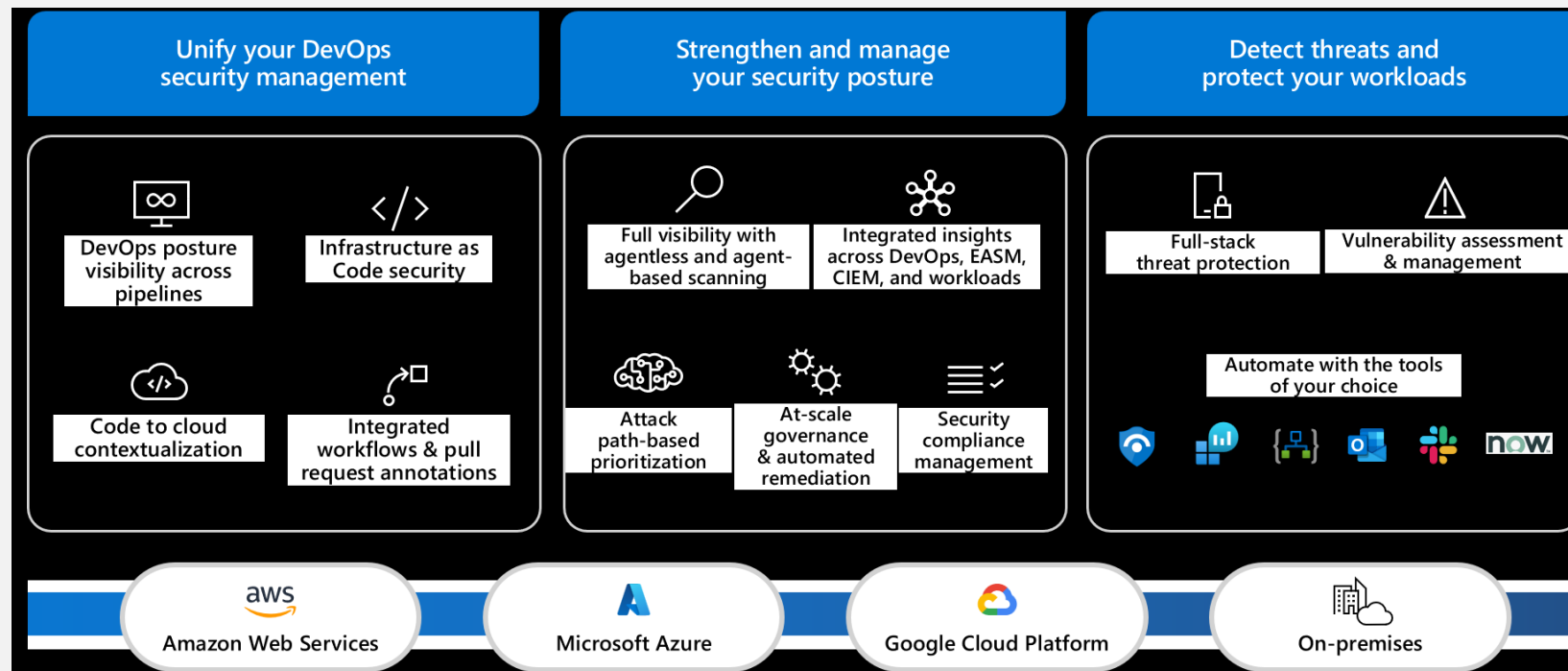
All Time Zones:	English
ASIA:	Chinese, Japanese
EMEA:	Germany, French
LATAM:	Spanish, Portuguese

Nomination Acceptance Criteria:

- Customer Sponsorship secured
 - Scope is confirmed and aligned with CMF scope
- All customers, any size Migration (**no minimum** size)
 - Execution Method (Hands-on-Keyboards or Screen-Share guidance)

CMF | Secure migrations

Deploy a highly secure cloud environment leveraging Microsoft Defender for Cloud



How will the CSU Migration Factory implement this policy?

- Built-into delivery/validation of Azure Landing Zones – in pre-requisite phase
- Validate customer commitment to deploy security services during Migration Plan delivery
- Enable applicable Azure Defender Services as scoped.

CMF | End to end process



Reduced Cost of operating the workload



Business Outcomes
Improved security by leveraging Cloud + AI



Enabling innovation and ability to leverage Azure AI to transform the business

What you can expect

1

Planning - Validating Commitment & Initial Scope

Agree Scope

- Scope of Services
- Build Backlog of Applications
- Agree Migration plan and responsibilities

2

Prepare Phase - Executing Pre-Requisites

Governance

- Setup Governance and reporting
- Collaboration Spaces
- Review Team Access for Migration

Assessment

- Run assessment on scoped Services
- Agree Target Architectures

3

Finalize Scope

Finalize Plan

- Finalize wave of Services
- Schedule Test Migration
- Schedule Live Migration
- Agree Change Control (Customer to Complete)
- Agree Testing plan (Customer to Complete)

4

Execute Migration

Migration

- Complete Test Migration
- Complete Live Migration

Validation

- Validate Connectivity and boot

Clean Up

- Complete removal VM tools, align disks, set page file

Testing

- Customer completes User Acceptance testing

1 – 2 weeks

Up to 1 week

Up to 1 week

Next Wave

Key deliverables

Comprehensive and repeatable migration at scale:

Accelerate your journey to Azure:

- Leverage the migration factory for any size and scale of workload that requires a rehost.

Proven Migration Journey

- Detailed Migration Plan
- Architectures and solutions that achieve results quickly leveraging benefits like AHB
- Migration Paths for Windows and SQL that have moved over 100k cores

Repeatable Waves

Building Waves

From the Backlog of Applications to be migrated, Migration Waves are built, based on logical groupings of services and servers. Once a migration wave has been built, this will be taken into the CMF process above.

Flexibility and Scale

Migration waves can be scoped down with up to 24h Notice. Migration factory can accommodate from 1 to 200 VMs a Week.

CMF | Azure Arc for Windows & SQL Server scope



In Scope

Arc-enabled servers

Customers can onboard their existing Windows Server 2012 and above (physical servers or virtual machines) as Azure Arc-enabled servers, from:

- On-premises (Hyper-V or VMWare environments)
- Other cloud environments (AWS, GCP)

Arc-enabled SQL Servers (two-step process)

- The first step will onboard the server where the SQL Server is installed
- The second step will onboard the installed *SQL Server 2012 and above* instances as Azure Arc-enabled SQL Servers
 - Windows and Linux [supported versions](#) are in scope

Extended Security Updates (ESUs) through Azure Arc

- *Windows Server 2012/R2*
- *SQL Server 2012/2014*
[Strong partnership needed with nominators to determine the optimum number of needed ESU licenses.](#)

Note: Enrollment to ESUs can be done at any moment up to three years after the End of Support (EOS) dates. When enrolled, the servers will receive ESUs, and the customer will be billed a one-time upfront charge for the months they missed after the end of support date.

- Windows Server 2012/R2 EOS: Oct 10, 2023.
- SQL Server 2012 EOS: July 12, 2022.
- SQL Server 2014 EOS: July 9, 2024.



Out of CMF Scope

Enabling Azure services post onboarding (Azure Monitor, Azure Update Manager, etc.)

Change request process, including internal communication

Any changes in the source (any time) & target environments (after handover)

Any Application/Services related configurations and testing (Pre and Post Migration)

Configuring Backups, Monitoring & Alerts (Pre & Post Migration) etc.

High availability setup, configuration

Disaster Recovery setup, configuration

Any other migration path not listed in the Scope

CMF | Azure SQL migration scope



In Scope

- SQL migrations with near-zero code changes
- Migration scenario's supported:
Targeting Migration Paths:
 - On-Premises SQL Server to Azure SQL Database
 - On-Premises SQL Server to Azure SQL Managed Instance (MI)
 - On-Premises SQL Server to SQL Server on Azure VM (IaaS)
 - SQL IaaS to Server to Azure SQL Managed Instance (MI)
 - SQL IaaS to Server to Azure SQL Database
 - AWS EC2 SQL Server to Azure SQL Database/ Azure SQL MI/ Azure VM
 - AWS RDS for SQL to Azure SQL Database / Azure SQL MI/ Azure VM
 - Cloud SQL for SQL to Azure SQL Database / Azure SQL MI/ Azure VM
 - GCP Compute Engine - SQL Server to Azure SQL Database/ Azure SQL MI/ Azure VM
- Supported SQL Servers for Migration:
 - SQL Server 2012 and above



Out of CMF Scope

- Heterogeneous DB Migration (SQL to MySQL, SQL to PostgreSQL, Oracle to SQL)
- SQL to Synapse Analytics/Fabric/Azure SQL Edge
- Migration of SSIS packages
- Application Dependency Testing
- Any Application/Services related configurations and testing (Pre and Post Migration)
- SQL Server upgrade (in-place) or SQL/OS patch management
- Pre/Post Migration Configuration - Backups, Monitoring & Alerts
- Data Archival solutions / Database Performance Testing
- High availability (HA) / Disaster Recovery (DR) setup, configuration
- Advisory services & consulting
- Third party tools setup or configuration
- Source environment configuration changes
- Kubernetes cluster setup & configuration
- Any other migration path not listed in the scope

Azure SQL Motions

- Azure SQL Arc deployment
- Azure SQL Arc ESU registration
- Enable Azure SQL Arc for SQL VMs in AVS
- Enabled policy placement for SQL VMs in AVS
- Migrate Arc enabled SQL Servers to Azure SQL VM/MI/DB
- Migrate non-Azure SQL Servers to Azure SQL VM/MI/DB
- Modernize Azure SQL VMs to Azure SQL MI/DB
- Enable SQL IaaS Extension on Azure SQL VMs
- Enable Business Continuity and Disaster Recovery (BCDR) on Azure SQL Databases and Managed Instances
- Change Azure SQL Database tier to Azure SQL Database Hyperscale

Call to Actions


Deep dive event series on the CMF workloads – register [here](#)

Nomination your projects today:
<https://aka.ms/cmf-partner>

If you have questions for the CMF team,
reach out at:
MFpartnerdesk@microsoft.com

If you still have questions, please reach
out to your PDM or Indirect Provider.



 CMF for SMB October 8th 15:00 - 15:30 CEST Register Here	CMF for Arc for Windows Servers and lift and shift (Win + Lin) October 10th 15:00 - 15:30 CEST Register Here
CMF for Analytics October 15th 15:00 - 15:30 CEST Register Here	CMF for Azure Arc & SQL October 17th 15:00 - 15:30 CEST Register Here
CMF for Azure VMWare Solution (AVS) October 22nd 15:00 - 15:30 CEST Register Here	CMF for Azure Virtual Desktop (AVD) October 24th 15:00 - 15:30 CEST Register Here
CMF for AI November 5th 15:00 - 15:30 CET Register Here	CMF for Apps Migration November 7th 15:00 - 15:30 CET Register Here