Mo.net
Operational Modelling Centre
Hardware and Software Requirements (Azure)

June 2026
Revision 1
Published

Purpose

The purpose of this document is to describe the infrastructure requirements and recommended Azure services for deploying and operating the Mo.net Operational Modelling Centre (OMC) within customer-managed Microsoft Azure environments.

This document applies only to Microsoft Azure deployments. Requirements for customer-managed on-premise deployments are described in the separate Mo.net OMC Hardware and Software Requirements for On-Premise Deployments document.

Background

The Mo.net Operational Modelling Centre (OMC) provides a scalable browser-based environment for managing, executing and monitoring operational financial modelling workloads. Built on the Mo.net Financial Modelling Platform, OMC enables secure, distributed model execution and operational management across enterprise environments.

The platform is fully supported within Microsoft Azure and may be deployed using Azure Virtual Machines, Azure SQL services or equivalent customer-managed infrastructure.

Infrastructure sizing depends upon factors including:

- model complexity
- execution workload
- data volumes
- expected growth
- number of concurrent users
- required availability and resilience

Scope

This document applies to:

- Microsoft Azure Virtual Machines
- Azure Virtual Networks
- Azure SQL Server and SQL Managed Instance
- Azure Storage
- Azure Load Balancer and Application Gateway
- Customer-managed Azure subscriptions

This document does not apply to:

- Physical server deployments
- Customer-managed VMware or Hyper-V environments
- Software Alliance hosted environments
- Other public cloud platforms

Platform Components

OMC components may be deployed on separate Azure Virtual Machines or grouped on appropriately sized Azure Virtual Machines depending upon workload, resilience and operational requirements. The following table summarises each component of the OMC platform:

Component	Purpose / Role
Mo.net Identity Service	Cross-platform user, role and permissions service optionally integrated with Active Directory. Also responsible for platform-wide user auditing. The Mo.net Identity Service is a mandatory component for using OMC.
OMC Application Service	The main OMC web application
OMC Utility Service	OMC housekeeping service
OMC System Datastore	Database used for holding all OMC related system artefacts
OMC Reporting Services Datastore	Instance of SQL Server Reporting Services used to provide system and user-developed reports
Mo.net Execution Service	Service responsible for actually performing modelling jobs, with or without Mo.net Worker Services
Mo.net Worker Services (Optional)	Allows jobs to be split across multiple machines, to reduce runtime or increase the number of jobs that can be run in parallel

Table 1 - OMC Platform Components

The interaction between each of these components is summarised in the figure below.

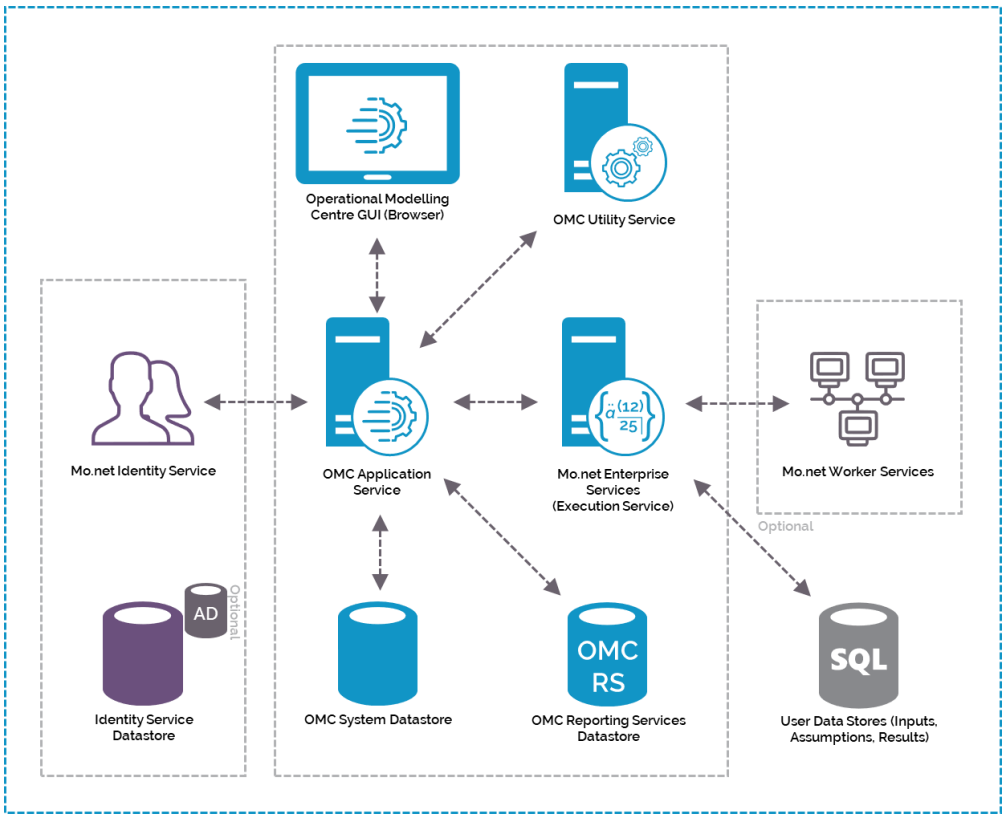

Figure 1 - OMC Component Architecture

Browser Support Levels for OMC

OMC supports most commonly used modern browsers:

Browser	Supported
Microsoft Edge (latest stable release)	✓
Google Chrome (latest stable release)	✓
Mozilla Firefox (latest stable release)	✓
Apple Safari	✓

Table 2 - OMC Browser Support

Mobile Browser Support

OMC supports the following tablet-based browsers:

- Latest Chrome on Android
- Latest Safari on iOS
- Latest Microsoft Edge mobile

Azure Infrastructure Requirements

The following requirements apply to all components of OMC:

Component	Description
Operating System	Windows Server 2022 Azure Edition or Windows Server 2022
.NET Framework	.NET Framework 4.8
Display Resolution	1920x1080 recommended
Internet	Azure internet connectivity required for licensing, updates and external integrations
Virtual Machine Generation	Generation 2
VM Series	Dsv5 or Dasv5
Storage	Premium SSD
Availability	Availability Zones recommended
Backup	Azure Backup recommended
Monitoring	Azure Monitor and Log Analytics recommended

Processor, Memory and Additional Software Requirements

The following table describes the requirements of each component of the OMC platform:

Component	Element	Requirement
Mo.net Identity Service	Virtual Machine	Standard_D2s_v5 or equivalent
	Memory	Minimum 8 GB Recommended 16 GB
	Storage	Premium SSD
	Operating System	Windows Server 2022
OMC Application Service	Virtual Machine	Standard_D4s_v5 or larger
	Memory	Minimum 16 GB
	Web Server	IIS 10
	Storage	Premium SSD
OMC Utility Service	Virtual Machine	Standard_D2s_v5 or equivalent
	Memory	Minimum 8 GB Recommended 16 GB
	Storage	Premium SSD
	Operating System	Windows Server 2022
Mo.net Execution Service	Virtual Machine	Standard_D16s_v5 or equivalent
	Memory	Minimum 16 GB Recommended 32 GB
	Storage	Premium SSD
	Operating System	Windows Server 2022

Mo.net Worker Services

Mo.net Worker Services should be deployed on Azure Virtual Machines that mirror the main Mo.net Execution Service host. This is to ensure appropriate response levels are maintained between the master and the workers.

Virtual Machine Scale Sets

Mo.net Worker Services can also be provisioned using Virtual Machine Scale Sets. Further information regarding the provision and licensing of the Worker Service using VMSS is available separately.

OMC System and User Data Stores

Option 1 (recommended)

Azure SQL Managed Instance

Option 2

Microsoft SQL Server 2022 on an Azure Virtual Machine

OMC Reporting Services Data Store

Software Alliance recommends using a dedicated SQL Server 2022 Virtual Machine running SQL Server Reporting Services due to limited functionality offered when using an Azure SQL Managed Instance.

Azure Networking

Software Alliance recommends deploying OMC within a dedicated Azure Virtual Network.

Where appropriate:

- separate subnets for application and database tiers
- Network Security Groups
- Private Endpoints for Azure SQL
- Azure Application Gateway for external access
- Azure Load Balancer where multiple Application Services are deployed

High Availability

For production Azure deployments Software Alliance recommends:

- Availability Zones
- Azure Backup
- Azure Site Recovery (where required)
- Premium SSD storage
- Azure Monitor
- Log Analytics
- Recovery Services Vault

Security

Software Alliance recommends:

- Microsoft Entra ID integration (where appropriate)
- Azure Key Vault
- Azure Defender
- Network Security Groups
- Private DNS Zones
- Managed Identities where supported

Further Information

For more information regarding the infrastructure requirements of the Mo.net Financial Modelling Platform, please contact us:

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