

# System Requirements

The CMS is delivered as a .NET-based application backed by a MySQL database. It is packaged for deployment in containerized or virtualized environments and can be operated either alongside Azure Stack Hub infrastructure or on external platforms.

## Software Requirements

- **Database:** MySQL 8.0 or later
- **Application Runtime:** .NET 8
- **Frontend:** Blazor Server (runs as part of the API service or in a separate container)
- **Optional Components:** Docker or Kubernetes for container orchestration

## Hardware Requirements

- **Production Deployment**
  - Minimum 4 vCPUs
  - 16 GB RAM
  - 100 GB storage (expandable based on retention of usage and billing data)
- **Development or Evaluation Deployment**
  - Minimum 2 vCPUs
  - 8 GB RAM
  - 50 GB storage

## Network Requirements

- Outbound HTTPS connectivity to Azure Stack Hub administrative endpoints
- Inbound HTTPS (TCP 443) for API and portal access
- Optional VPN or ExpressRoute for hybrid or private connectivity scenarios

## Identity Requirements

- Integration with Microsoft Entra ID or another supported identity provider
- Federated authentication supported through token validation endpoints
- Role-based access control (RBAC) enforced throughout the portal and API

## High Availability and Recovery

The CMS can be deployed in a high-availability configuration using container clustering or database replication. Backup and recovery procedures should be established to protect the MySQL database and configuration state. For detailed operational guidance, see *Backups & DR* in the Operations chapter.

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