

Azure Multi-Company Infrastructure

Below are the Azure resources required to host an iRely Multi-Company & MDM running in a single Azure SQL Database. This solution can use Docker Containers to deploy the updates.

Azure System Requirements

1. **App Service**
 - a. Description: Required to host the iRely application for the company and Master Data Manager (MDM).
 - b. App Service (Company)
 - c. App Service (MDM)
 - i. Only required if Master Data Manager is used for multi-company infrastructure.
 - d. Operating System: **Windows**
 - e. Plan: **App Service Premium plan** (based on usage)
 - f. Tier: **P2mv3** or greater (4 cores, 32 GB RAM minimum and can scale to higher tiers based on usage)
 - g. Microsoft Pricing Details
 - i. <https://azure.microsoft.com/en-us/pricing/details/app-service/windows/>
2. **Azure SQL Database**
 - a. Description: Required for the databases used in the App Service.
 - b. Company Database
 - i. Backup redundancy: **Geo-redundant (RA-GRS)**
 - ii. Replica: **Named Replica** (Recommend at least 1 for reporting)
 - iii. Replica: **High Availability**
 - c. MDM Database
 - i. Required if Master Data is required for multi-company.
 - ii. Backup redundancy: **Geo-redundant (RA-GRS)**
 - iii. Replica: **High Availability**
 - d. Test Environments
 - i. TE1, TE2, etc.
 - ii. Backup redundancy: **Locally-redundant (LRS)**
 - e. Type: **Elastic Pool**
 - f. Purchase Model: **vCore** (4 cores or higher depending on users and usage patterns)
 - g. Service Tier: **Hyperscale**
 - h. Hardware Type: **Gen 5**
 - i. Microsoft Pricing Details
 - i. <https://azure.microsoft.com/en-us/pricing/details/azure-sql-database/elastic/>
3. **Storage Account**
 - a. Description: Required for attachments/documents
 - b. Type: **Block Blob Storage**
 - c. File Structure: **Hierarchical Namespace**
 - d. Storage Account Type: **General Purpose V2**
 - e. Access Tier: **Hot**
 - f. Microsoft Pricing Details
 - i. <https://azure.microsoft.com/en-us/pricing/details/storage/blobs/>
4. **Service Bus Namespace**
 - a. Description: Required for MDM real-time data push to Companies
 - b. Tier: **Standard** or **Premium** (based on usage)
 - c. Microsoft Pricing Details
 - i. <https://azure.microsoft.com/en-us/pricing/details/service-bus/>
5. **Power BI Embedded**
 - a. Description: Required to host the Power BI Embedded instance.
 - b. Node Type: **A1** to **A8** (A1 or higher based on usage)
 - c. Microsoft Pricing Details
 - i. <https://azure.microsoft.com/en-us/pricing/details/power-bi-embedded/>

Azure SQL Hyperscale (Multi-Company)

Azure SQL Database Hyperscale with multi-company architecture running multiple companies in a Single Database with real-time company consolidated reporting

