# **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)
- - 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)
- 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 External ERP (SAP) Master Data Management (MDM) Power BI Embedded Vendor, Customer, Items, Terms, etc. Master Data made available to one or more Power BI Gateway to ETL data to company databases. Power BI Azure Server/Region (Europe) Multi-company Single Database architecture with Named Replicas for Reporting and Read-Only data Integrated Real-time company consolidated reporting on Named Replicas based on user permissions Single Azure SQL Hyperscale Database with multiple companies Company 11 Company 16 Company 2 Company 7 Company 12 Company 22 Company 27 Company 32 Company 3 Company 8 Company 13 Company 18 Company 23 Company 28 Company 33 Company 19 Company 29 Company 4 Company 9 Company 14 Company 24 Company 34