CMAP

Azure CI/CD Cloud Deployment Architecture Diagram (DEV)

**v1.0 as of 07.03.2025**

**Document Revision History**

Each time this document is modified, increment the version number appropriately and add a new row to the table below. In the Comments column, document the changes that were made in sufficient detail.

| **Date** | **Author** | **Version** | **Comments** |
| --- | --- | --- | --- |
| 07/03/2025 | Syneren Technologies Corp | 1.0 | Created |
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# Introduction

This document covers an architecture diagram of cloud deployment of CMAP frontend and backend on Azure with CI/CD pipelines, Cosmos DB database, Blob Storage for documents, Application Insights for logging, and Key Vault for secrets management.

# Cloud Services Overview

| **Component** | **Technology/Service** | **CI/CD Setup / Notes** |
| --- | --- | --- |
| Frontend | Azure Static Web Apps | Automatic CI/CD pipeline via Azure Repos |
| Backend (Node.js) | Azure App Service (Linux) | CI/CD via Azure Repos + YAML pipeline |
| Backend (Python) | Azure App Service (Linus) + Azure Container Registry (ACR) | CI/CD with Docker build & deploy pipeline |
| Database | Azure Cosmos DB (MongoDB API) | Connection string managed as env variable |
| Document Storage | Azure Blob Storage | For storing application documents |
| Logging | Azure Application Insights | Capture custom logs, traces, and telemetry |
| Key Management | Azure Key Vault | Secure storage of keys, secrets, and connection strings |
| Authentication | App Registrations | Secured Entra ID login |

# Architecture Diagram

A diagram of a computer

AI-generated content may be incorrect.