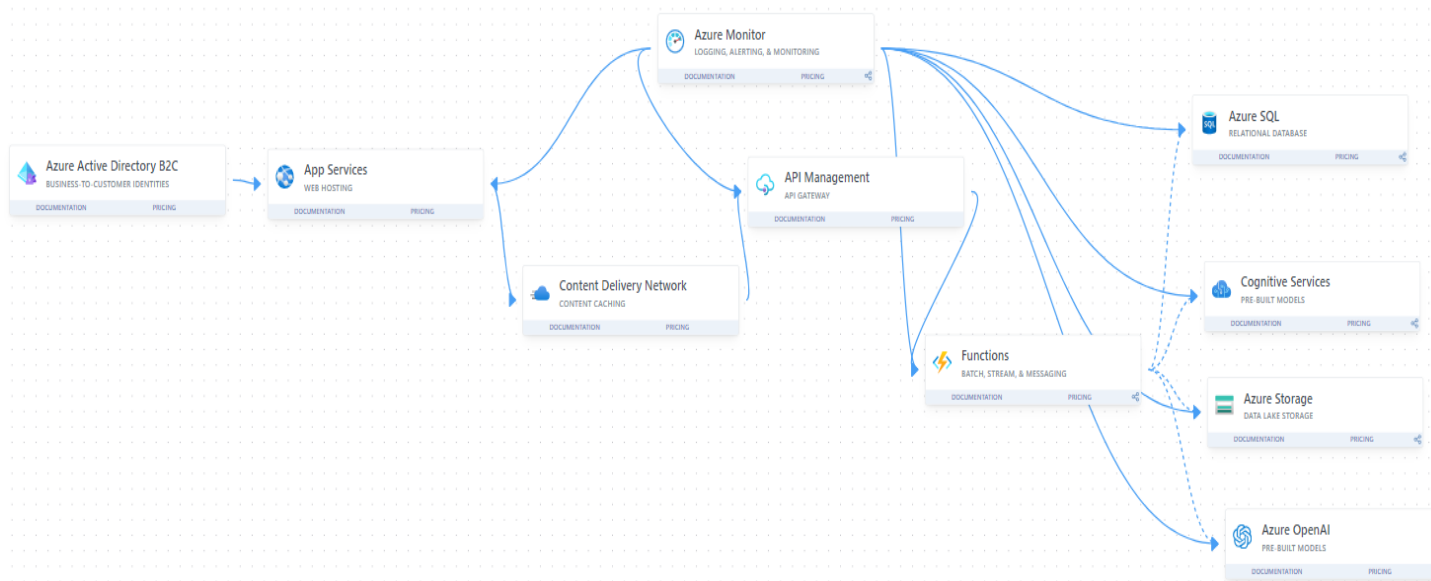


API DESIGN ARCHITECTURE



Justification.

- **Azure Active Directory** provides authentication service for users who require access to the front-end of the application hosted on the Azure App Service, ensuring that only authenticated users can make API requests, by providing JWT tokens for authorization.
- **Azure App Service** hosts the front-end React application, receives authenticated tokens from Azure Active Directory and forwards the API request to the Azure API Management. It enables users interact with the application interface.
- **Content Delivery Network (CDN):** This distributes static content to edge servers located close to users, thereby reducing latency and enhancing user experience.
- **Azure API Management** serves as a secure gateway that routes the requests to Azure Functions and manages, secures, and monitors API traffic.
- **Azure Functions** provides pre-processing or enhancement of text data before summarization, aiding in deeper analysis or text manipulation.
- **Azure SQL Database** stores user credentials, original notes, and generated summaries securely.
- **Azure Blob Storage** would be used for storing users' summarized notes.
- **Azure Monitor** is used to monitor the performance of the application.