

Enterprise Azure Integration Services Framework



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1. Enterprise Azure Integration Services Framework

The ANS Enterprise Azure Integration Services Framework will design and deliver a central and secure integration platform to migrate current integrations and build future integrations upon. The platform will enable you to integrate and manage data across various applications and systems.

The deployment and configuration of the platform is made up of a combination of the below logical components of Azure Integration Services based upon ANS looking at the entire data landscape in Azure and matching this to your unique requirements, taking into consideration service maturity, support status and future roadmap.

Azure Data Factory – A service for orchestrating data workflows across sources, integrating seamlessly with on-premises, cloud, and hybrid environments. It facilitates data transformation tasks like cleansing and aggregation while efficiently moving data between stores and applications. Integrating with Azure services, it offers monitoring and management features for optimal performance. Its scalability caters to diverse needs, from small-scale to enterprise-level deployments, streamlining data workflows for effective insights.

Logic Apps - A cloud-based service that enables you to build and run workflows that integrate with various systems and applications. Logic Apps provides a visual designer for creating workflows and a large number of pre-built connectors for integrating with popular services such as Salesforce, Dynamics 365, and Office 365.

Function Apps - A serverless compute service that enables you to run code in response to events or HTTP requests. Function Apps are ideal for building small, single-purpose applications that can be executed on demand and scaled automatically. Azure Functions allow developers to pick the language based on their skillsets and include languages such as C#, Python, Java, Javascript, and PowerShell providing flexibility to choose the best language for the developer and the task at hand.

Event Grid -A fully managed event routing service that enables you to build event-driven architectures that respond to changes in your data and systems. Event Grid provides a scalable and reliable way to route events to multiple endpoints, including Azure Functions, Logic Apps, and Event Hubs.

API Management - A cloud-based service that enables you to create, publish, and manage APIs for your applications and services. API Management provides a rich set of features for securing, monitoring, and analyzing API usage, as well as for controlling access and throttling for your APIs.

Service Bus - A cloud-based messaging service that enables you to build reliable, scalable,

and asynchronous architectures for your applications and services. Service Bus provides a publish-subscribe model for messaging, as well as support for queues and topics.

Event Hub - A cloud-based data streaming service that enables you to ingest and process large volumes of data in real-time. Event Hub provides a scalable and reliable way to stream data from various sources, including IoT devices and applications.

Azure Data Lake - Azure Data Lake Storage Gen2 is a set of capabilities dedicated to big data analytics, built on Azure Blob storage. Data Lake Storage Gen2 is the result of converging the capabilities of two existing Azure storage services, Azure Blob storage and Azure Data Lake Storage Gen1. Gen2 still retains the features from Azure Data Lake Storage Gen1, such as file system semantics, directory, and file level security and scale are combined with low-cost, tiered storage, high availability/disaster recovery capabilities from Azure Blob storage.

Azure Monitor - Azure Monitor maximises the availability and performance of your applications and services by delivering a comprehensive solution for collecting, analysing, and acting on telemetry from the data platform environment. It will help CUSTOMER understand how your platform is performing and proactively identifies issues affecting them and the resources they depend on.

2. Service Descriptions and Prerequisites

The following is an outline of what is and is not provided within this engagement:

- ANS Group requires access to the necessary services / applications as required for the duration of the project:
 - Azure Subscriptions (Contributor Role)
 - Usernames
 - Passwords
 - IP Addresses
- ANS Group will be delivering this project remotely and all meetings will be arranged in advanced and using Microsoft Teams.
- ANS expect you to make Subject Matter Experts (SMEs) available

What is included within project scope?

- Integration Platform and associated security ready for production use
- Design Workshop Covering Patterns & Practices
- Production of High Level & Low-Level Design (HLD / LLD)
- Implementation of required resources as per design
- Access Control design and configuration
- Firewall configuration
- Encryption configuration
- Logging and auditing configuration
- HA & DR Configuration
- 3-Tier environments
- DevOps Pipelines
- Final Documentation