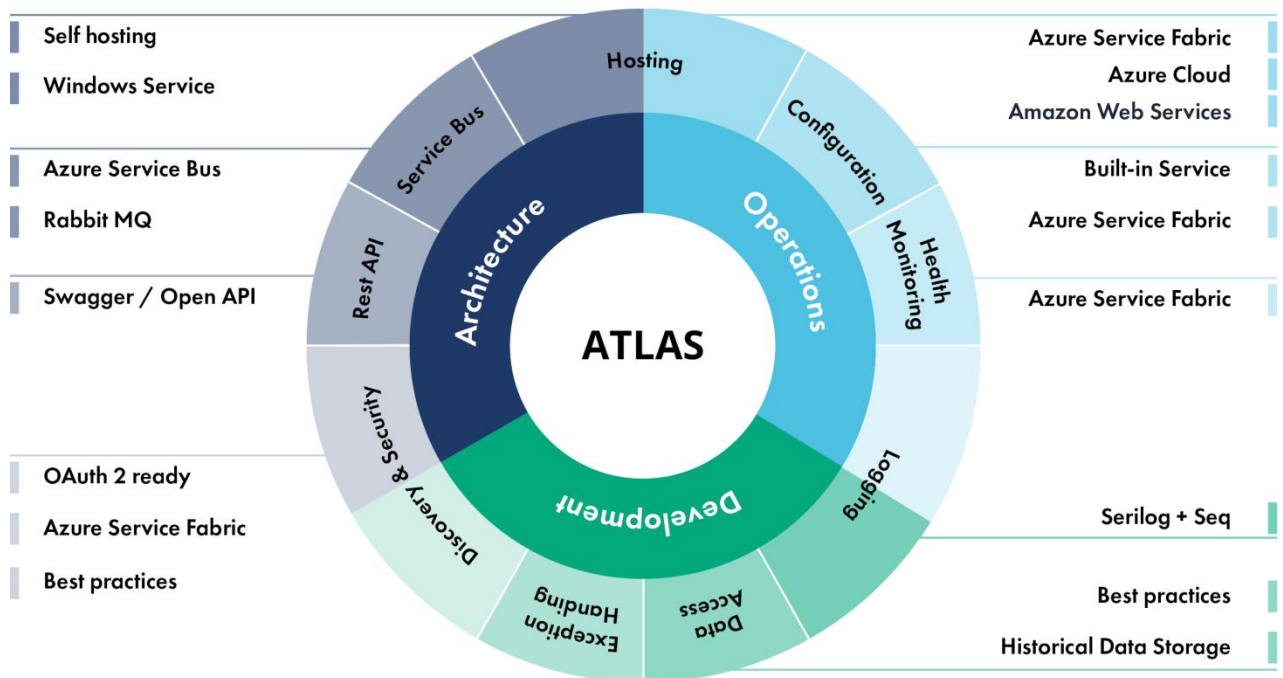# DataArt

Atlas

An accelerator framework designed to improve the business agility of cloud based .NET applications

Azure

Atlas is a comprehensive set of infrastructure tools for jump-starting development projects, designed to accelerate the delivery of business functionality in the cloud.

Atlas supports the microservice design approach, i.e. building independent, small, loosely coupled and highly cohesive services, and simplifies application lifecycle management. It contains modules for service hosting, logging, correlations, health monitoring, messaging, and historical storage, — all essential components of any modern application.

A fine-tuned, proven set of integrated components optimized for modern cloud-based application development, Atlas can help development teams save many weeks (and possibly months) of effort, improve application quality, accelerating time-to-value and minimizing overall delivery costs.

Self hosting		Azure Service Fabric
Windows Service		Azure Cloud
		Amazon Web Services
Azure Service Bus		Built-in Service
Rabbit MQ		Azure Service Fabric
Swagger / Open API		Azure Service Fabric
OAuth 2 ready		Serilog + Seq
Azure Service Fabric		Best practices
Best practices		Historical Data Storage

Diagram labels: Hosting, Service Bus, Rest API, Architecture, Discovery & Security, Exception Handling, Data Access, Development, Logging, Health Monitoring, Configuration, Operations, ATLAS

Atlas Library Modules

Module	Description	Estimated time to implement from scratch
Service Hosting	Cloud-agnostic base classes to host runtime for microservices on various public or private cloud platforms, including platforms for local debugging	4 – 8 weeks
Logging	Proven structured logging approach with useful tools for incidents investigation	1 – 3 weeks
Correlations	Ability to track connected sequences of events throughout the system, across multiple independent services	1 – 2 weeks
Health Monitoring	Ability to monitor services and their health in real-time	1 week
REST API Support	Base classes encapsulating API registration, declaration, documentation, OData support, OAuth2 ready	1 – 2 weeks
Messaging	Powerful Enterprise Service Bus support, including integration with Rabbit MQ and Azure Service Bus	2 – 4 weeks
Historical Storage	Temporal data storage based on Entity Framework	1 – 2 weeks
DataAccess Toolkit	Set of classic architectural approaches for consistent data persistence, including temporal data based on Entity Framework	1 week
Centralized Configuration	Ability to store all services configuration information in a single reliable place	1 week
	TOTAL TIME SAVINGS (in developer-weeks)	13 – 24

Atlas Value Add

TIME TO MARKET

Focus on building features that add business value to your application, instead of designing and writing the foundational "plumbing" code.

MICROSERVICE AGILITY

Enable continuous integration and development practices and accelerate delivery of new features by architecting fine-grained microservice applications.

RUN ANYWHERE

flexibly deploy the same application code wherever you like

A FULLY CLOUD-AGNOSTIC SOLUTION

LIFETIME SUPPORT

Updates, fixes, security alerts, new functionality, and critical patches