

Azure Functions Technical Document

Scenarios and Features

Scenario	Feature	Description
File Uploads	Event-driven execution	Process files as soon as they are uploaded to blob storage.
Real-time Data Processing	On-demand scaling	Process data in real-time with event-driven scaling.
Machine Learning	Integration with Azure Machine Learning	Run machine learning models on demand.
Scheduled Tasks	Timer triggers	Execute tasks on a schedule.
Web APIs	HTTP triggers	Build APIs using serverless functions.
Serverless Workflows	Logic Apps integration	Orchestrate complex workflows.
Database Changes	Trigger on update	Respond to changes in a database.
Messaging Systems	Queue triggers	Connect to messaging systems like Azure Queue Storage.

Development Lifecycle

Azure Functions supports a comprehensive development lifecycle with the following features:

- Multiple programming languages support.
- Integration with development tools for debugging and deployment.
- Telemetry and analysis with Azure Monitor and Azure Application Insights.

Hosting Options

Plan	Description
Consumption Plan	Scales automatically based on event triggers.
Premium Plan	Always warm instances to avoid cold start.
Dedicated Plan	Predictable scaling and costs.
Custom Containers	Deploy functions in custom containers for full control.

Getting Started

Explore Azure Functions scenarios and get started with lessons, samples, and interactive tutorials. Provide feedback on the product and content through the upcoming feedback system in 2024.

Additional Resources

- Privacy choices
- Theme settings
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