

Job, Function e Service Bus di Azure: divertimento assicurato



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Azure App Service



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WEB APPS

Web apps that scale with your business



MOBILE APPS

Build Mobile apps for any device



LOGIC APPS

Automate business process across SaaS and on-premises



API APPS

Easily build and consume APIs in the cloud

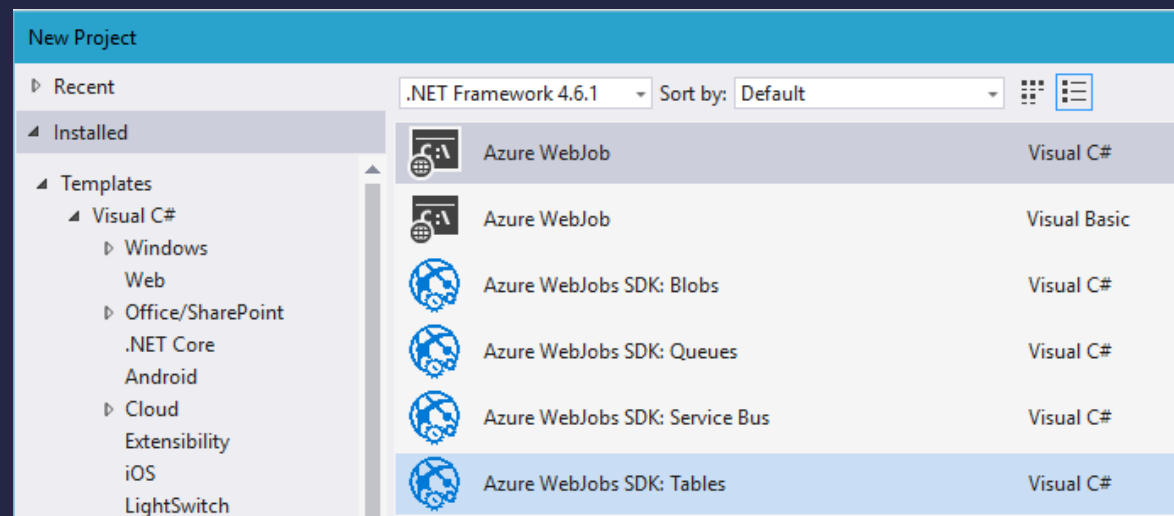
- PaaS
- Multiple languages and frameworks
- Global scale with high availability
- Continuous integration and deployment

WebJobs di Azure App Service

- ▶ Scripts or programs as background processes
 - ▶ Same folders tree
 - ▶ External process
 - ▶ Shared resource
- ▶ .cmd, .bat, .exe, .ps1, .sh, .php, .py, .js, .jar
- ▶ demand, continuously, or on a schedule
- ▶ WebJobs SDK
 - ▶ Fast implementation
 - ▶ Azure Storage Blobs, Queues and Tables, Service Bus Queues

WebJobs di Azure App Service

- Visual Studio Integration
 - Remote debugging
- Deployment: like web app
 - FTP, WebDeploy, CI
 - Azure Portal
 - Multi job
- Logging
 - Dashboard
- Scale with web app



Azure Functions

- ▶ Easily running small pieces of code
 - ▶ No application infrastructure
- ▶ C#, Node.js, Python, F#, PHP, batch, bash, Java, or any executable
 - ▶ Supports NuGet and NPM
- ▶ Trigger/input -> processing -> output
- ▶ Pay-per-use pricing model
 - ▶ Or App Service Plan

Azure Functions: csx

- File .csx
- Dynamic compilation
- Async support
- Import namespace
- #r «assemblyName»
- #load for external files
- project.json for NuGet
- TraceWriter: logging

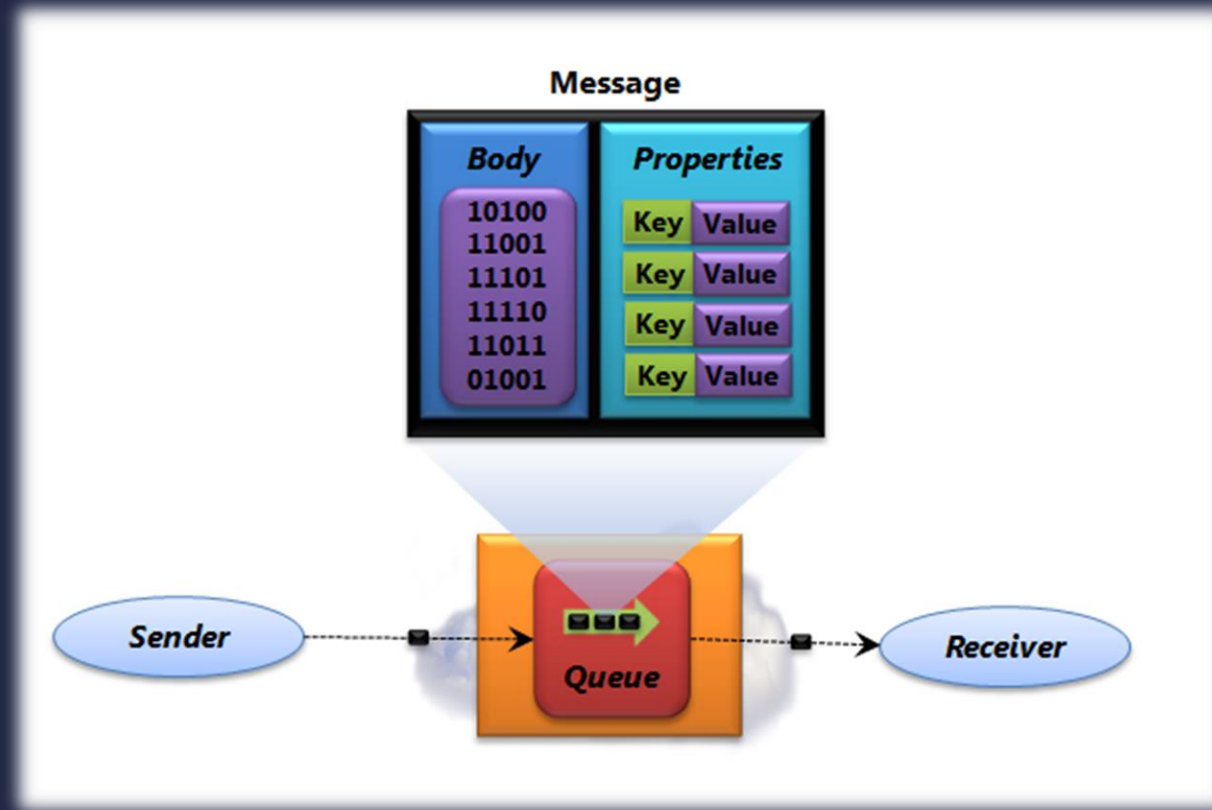
Azure Functions: bindings

Type	Service	Trigger	Input	Output
Schedule	Azure Functions	✓		
HTTP (REST or webhook)	Azure Functions	✓		✓*
Blob Storage	Azure Storage	✓	✓	✓
Events	Azure Event Hubs	✓		✓
Queues	Azure Storage	✓		✓
Tables	Azure Storage		✓	✓
Tables	Azure Mobile Apps		✓	✓
No-SQL DB	Azure DocumentDB		✓	✓
Push Notifications	Azure Notification Hubs			✓

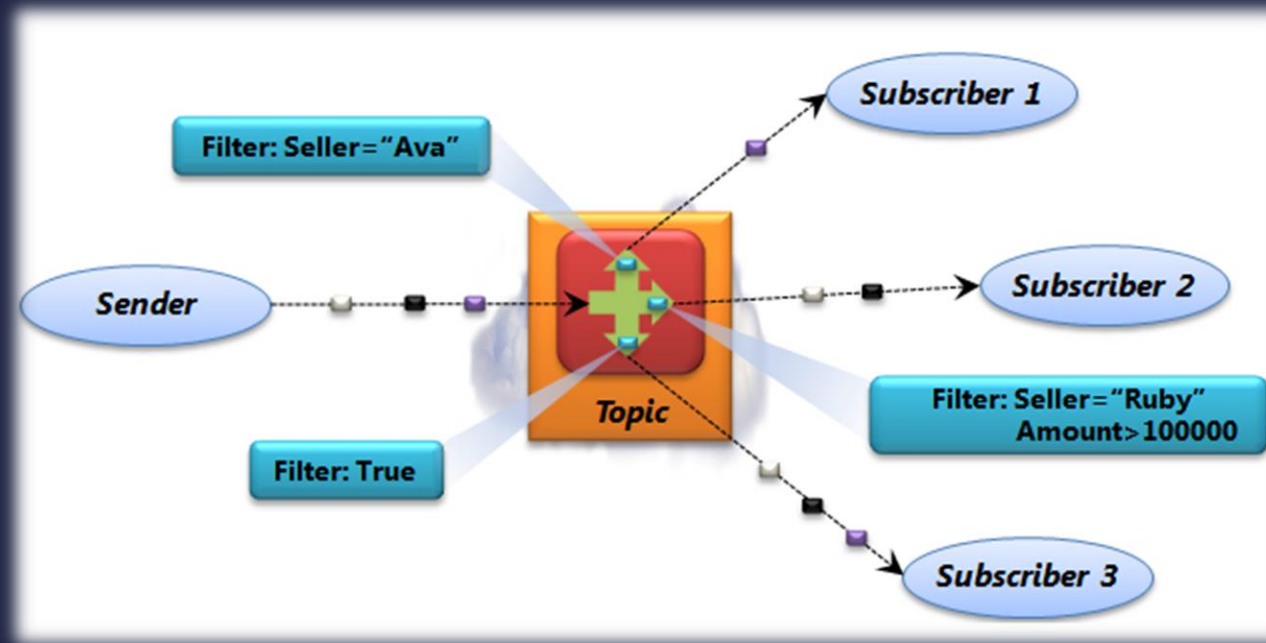
Azure Service Bus

- Bus
 - Queues
 - Topics
 - Relay
 - Event hubs
- Request/reply
- Publish/Subscription
- REST/TCP
 - Multilanguage
- PaaS
- Global scale with high availability

Azure Service Bus: queue



Azure Service Bus: topics



Azure Service Bus: pro

- Async approach
 - Stateless/statefull communication
- Strong and reliable processing
- Decoupling
- Good for SOA and CQRS
- Requests ingestion scenarios

Microservices?

- SOA
- Small and many deployments
- Independent services
- Multi platform and language