Microsoft

2022 Code on the Beach Azure Logic Apps Workshop

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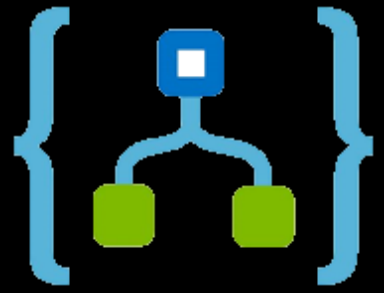

Serverless in Azure

- Azure Functions
  - Single executions
  - Durable functions
- Azure Logic Apps
  - Workflows
  - Integrations
- Platform as a Service (PaaS)
  - Web Apps
  - Mobile Apps
  - APIs
- Software as a Service (SaaS)
  - Office365
  - Dynamics CRM
- Databases
  - Azure SQL Database
  - Azure Cosmos DB
- Anything where you don’t worry about/access the OS

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Azure Logic Apps

- Low Code / No Code workflows
- Rapid development
- Integrate services/systems
- Quickly configure complex workflows
- Detailed reporting / logging

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Identifying a Workflow

- Business process
  - Machine to Machine communication
  - Event processing
- Manual workflows
  - Data manipulation/replication
  - Recurring actions
- System integrations
  - B2B/B2C
- Notifications

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Workflows

- Recipes vs Blank Templates
- Connect Functions, Logic Apps, CRM, Office
- Automated executions
- “Peek-lock receive a Service Bus Message and complete it”
- “Process and Post a message when an FTP file is uploaded”
- “Once a day, process Azure Storage files and send a summary”
- “Watch Twitter for a hastag and translate it to Klingon”

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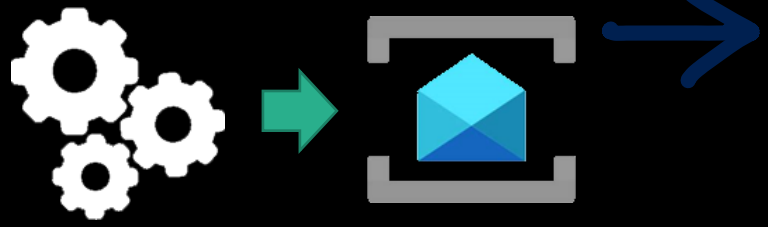
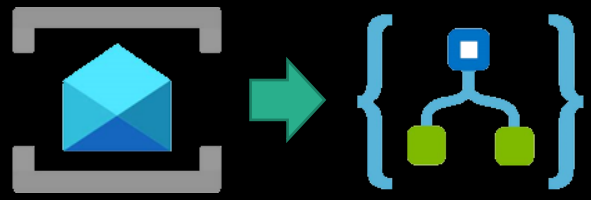
Sample Approach

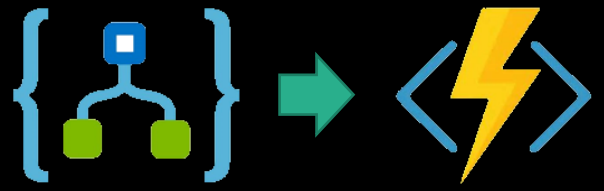
1. API writes message to Service Bus



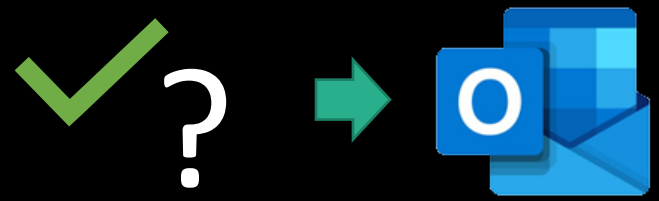
2. Logic App picks up Service Bus message

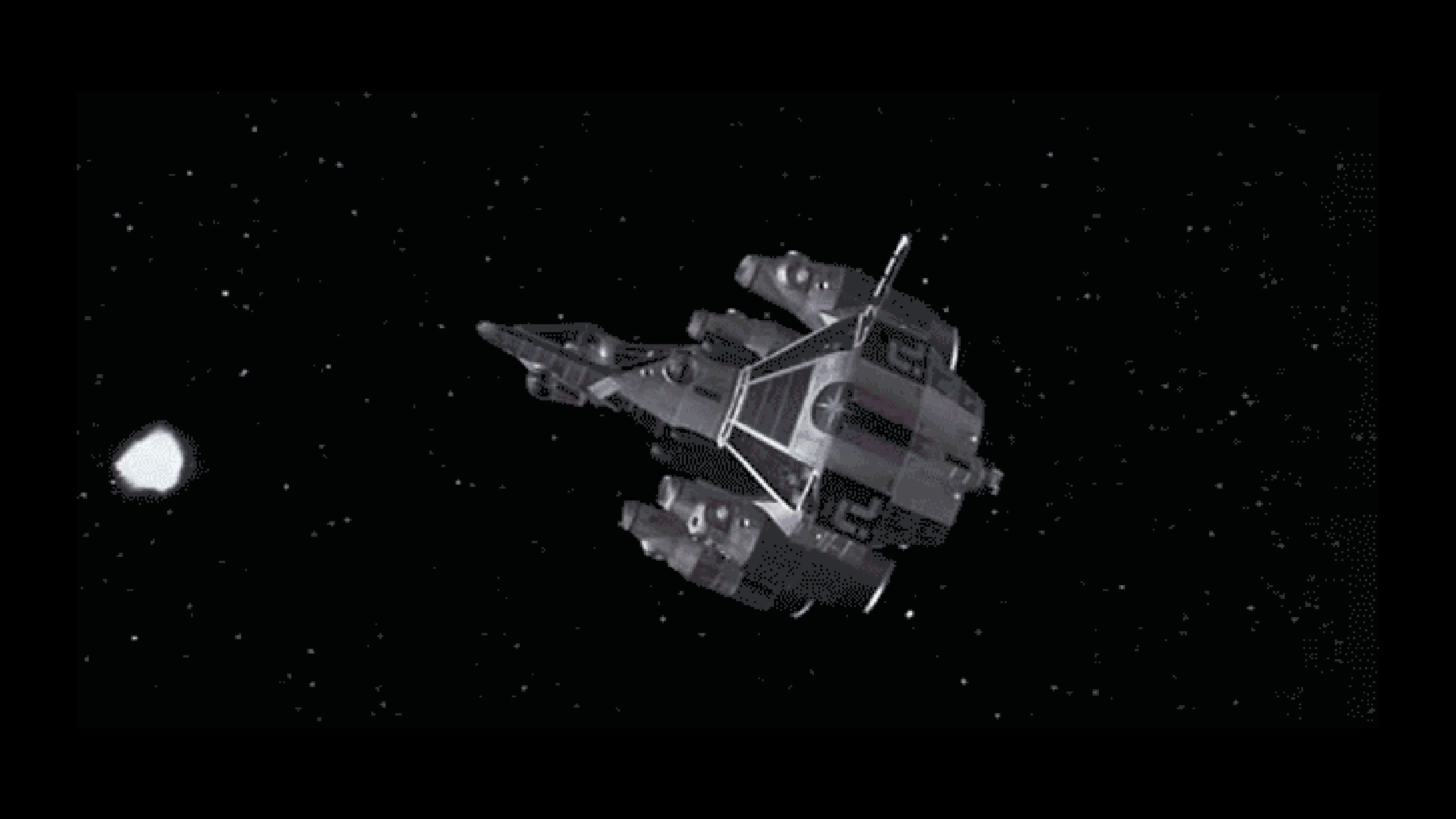


3. Logic App sends message to Function for processing



4. If processed, send a notification email with message details





Get the Labs!

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#1: Basic HTTP Request

- Level: **Beginner**
- Audience: General
- Easy to implement in any environment
- Basic data handling

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#2: Convert Azure Blob Storage JSON to CSV

- Level: **Moderate**
- Audience: Developer / Data
- Interaction with Azure Blob Storage
- JSON data handling

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#3: Deploy a container on a schedule

- Level: **Moderate**
- Audience: Developer / Infrastructure
- Requires deploying Azure Container Instance
- Requires an Azure Container Registry (indluded in lab)

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#4: Call An Azure Function and Post to Slack

- Level: **Advanced**
- Audience: Developer
- Interaction with Azure Functions
- Requires building/deploying an Azure Function (demo source code provided in lab)
- Data Manipulation

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#5: Automate GitHub Pull Reuqest Merging

- Level: **Moderate**
- Audience: General/Developer
- Interaction with GitHub/Slack team
- Requires GitHub project
- Requires Slack team (demo team provided in lab)

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Shameless Plug

http://aka.ms/azurenamingtool

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