Microsoft

Enterprise Integration Landingzone

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Agenda

Cloud Operating Model (integration focus)

Azure Integration Services

It’s all about Patterns

BizTalk ESB vs AIS Architecture

Cloud operating model

Decentralized Operations

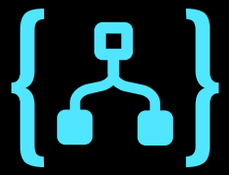
Central Operations

Enterprise Operations

Distributed Operations

What integration setup would fit my needs?			
Ad-hoc Integrations	Shared Integration Services	Centralized Integration Platform	Decentralized Integration Platform
What would be my focus / challenge?			
Keep it simple!	Start small, think big, maximize usage & minimize cost	Managing responsibilities	Scale & standardize (pre-package)

APIs



Workflows

Messages

Events

API Management

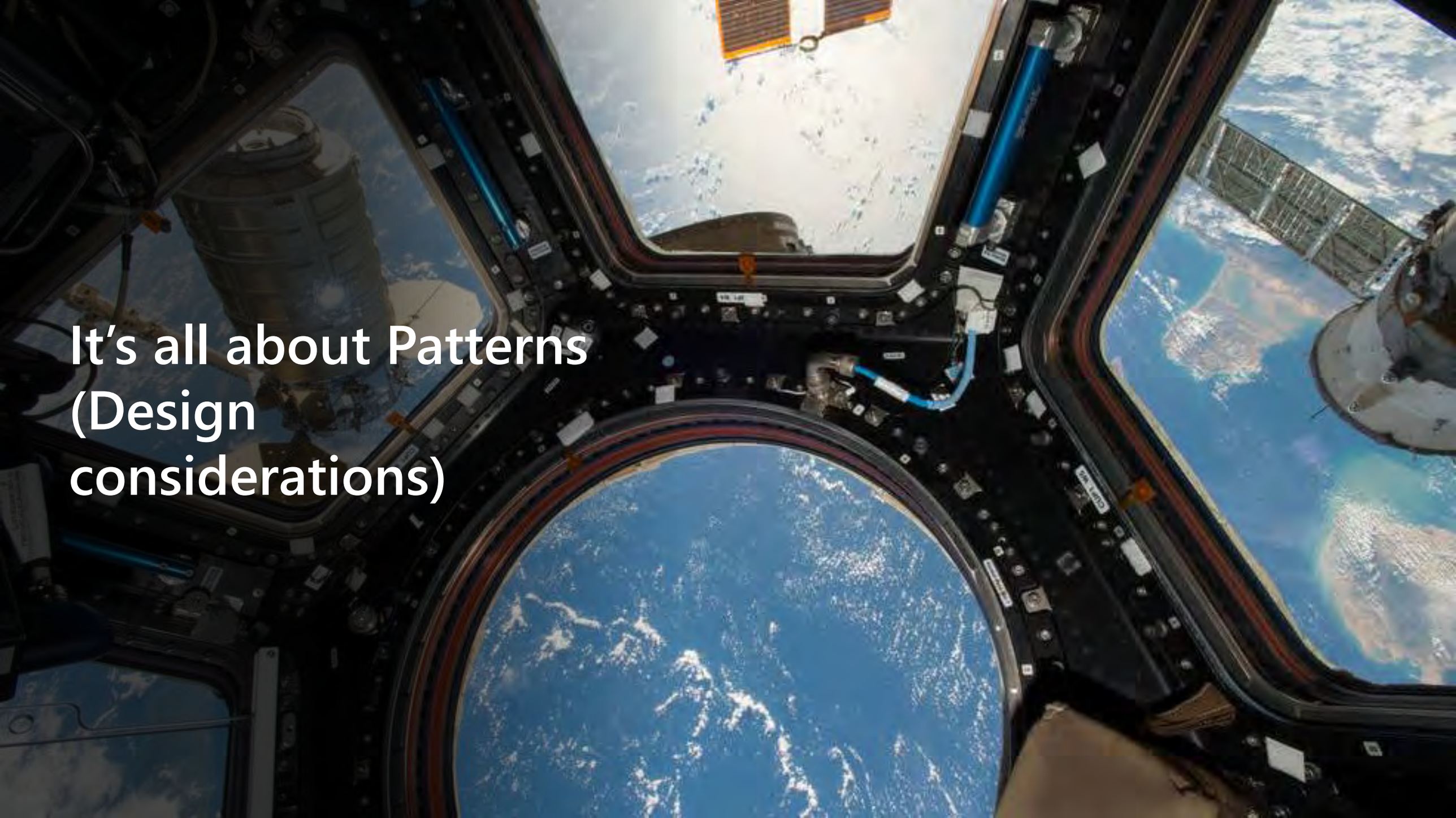
Logic Apps

Service Bus

Event Grid

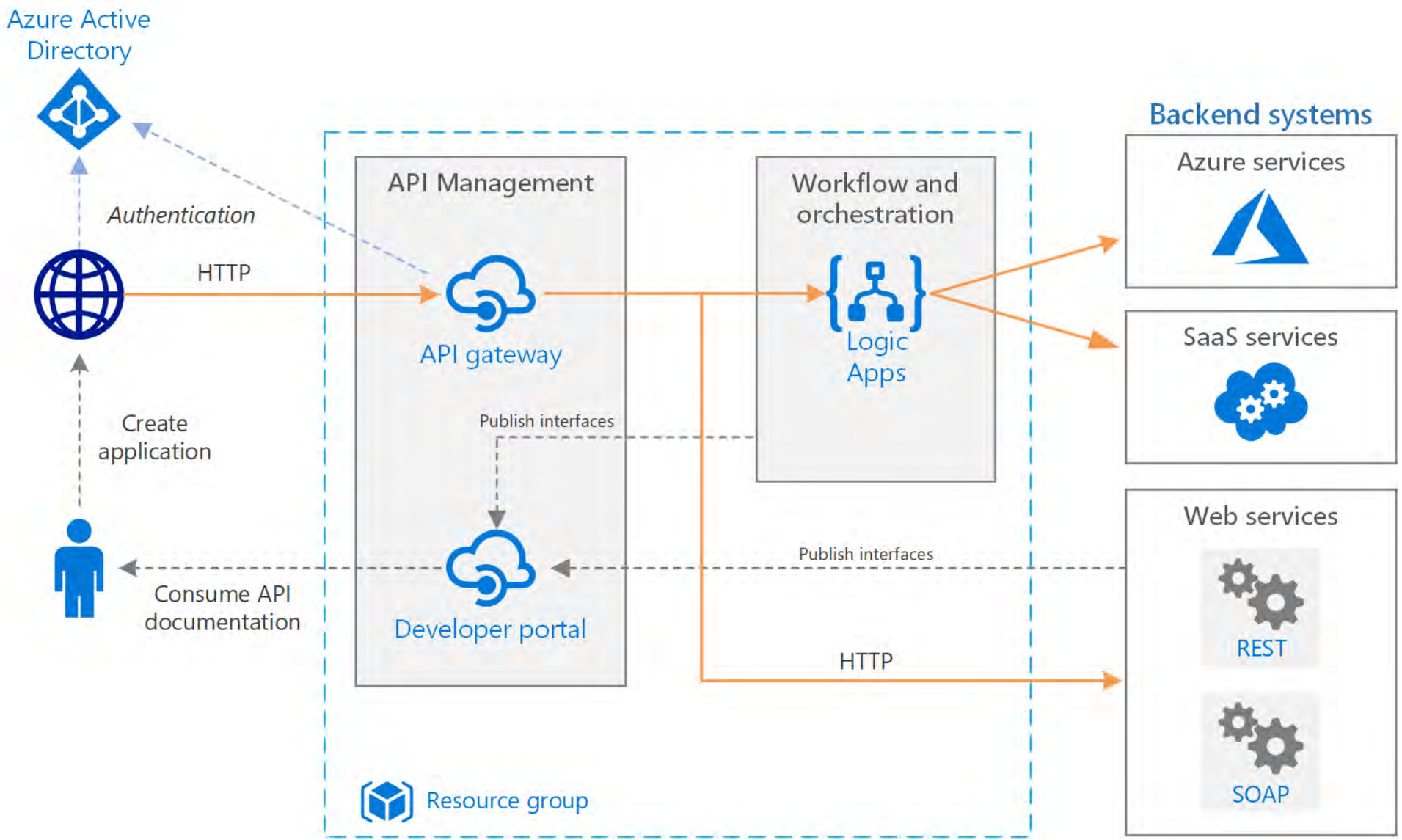
Azure Integration Services

Integration scenarios



It’s all about Patterns (Design considerations)

Basic enterprise integration on Azure



Customer Functional Ask

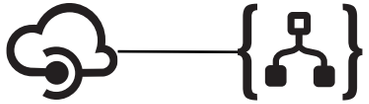
- We use a CRM application where we register all our customer engagements
- We create orders in our Order Management System (OMS)
- When an order is placed in our OMS, we need to update the customer relation from prospect to customer in CRM

Customer Technical Ask

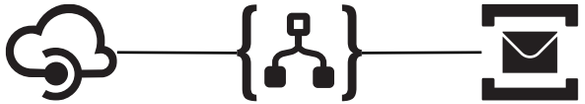
- We have 2 SaaS applications we need to integrate
- Both support JSON over REST
- We need insights in overall performance
- Central Integration Team is responsible for managing & developing the integration services
- We all work in 1 subscription

API transformation

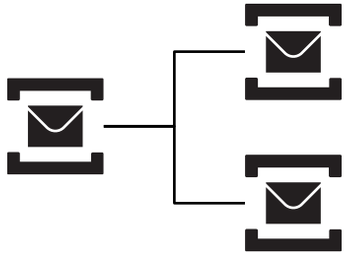
API transformation



API transformation to Queue



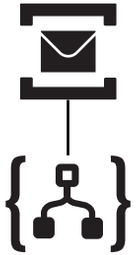
Publish to Subscribers



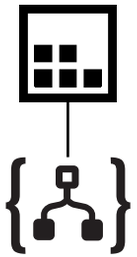
Transform Queue by Trigger

Transform Queue by Polling

Response to Queue



EDI Transformation



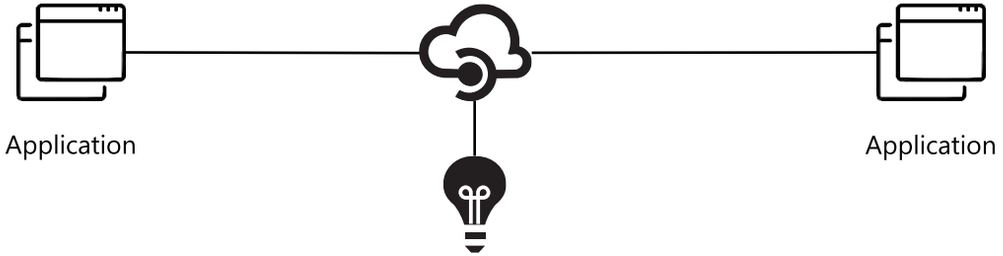
EDI Transformation

I need to support JSON and REST

Both SOAP and REST

3 Step Application Performance

API transformation



Application

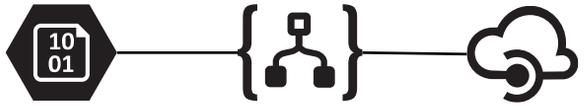
Application

Log to Application Insights

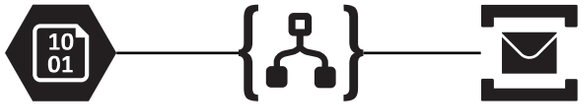
Data Gateway

App Gateway

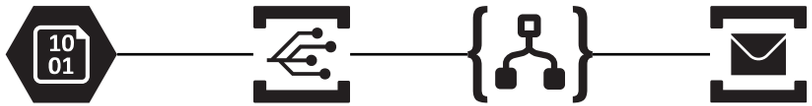
File transformation to API



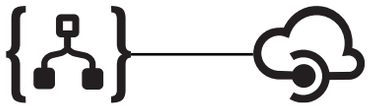
File transformation to Queue by Polling



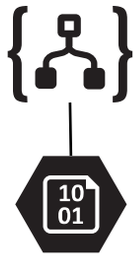
Azure Blob transformation to Queue by Trigger



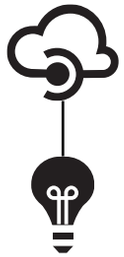
Transform to API



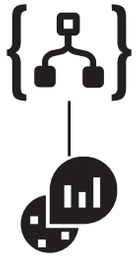
Log to Event Hub



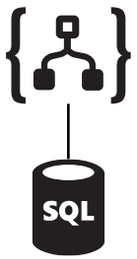
Log to File



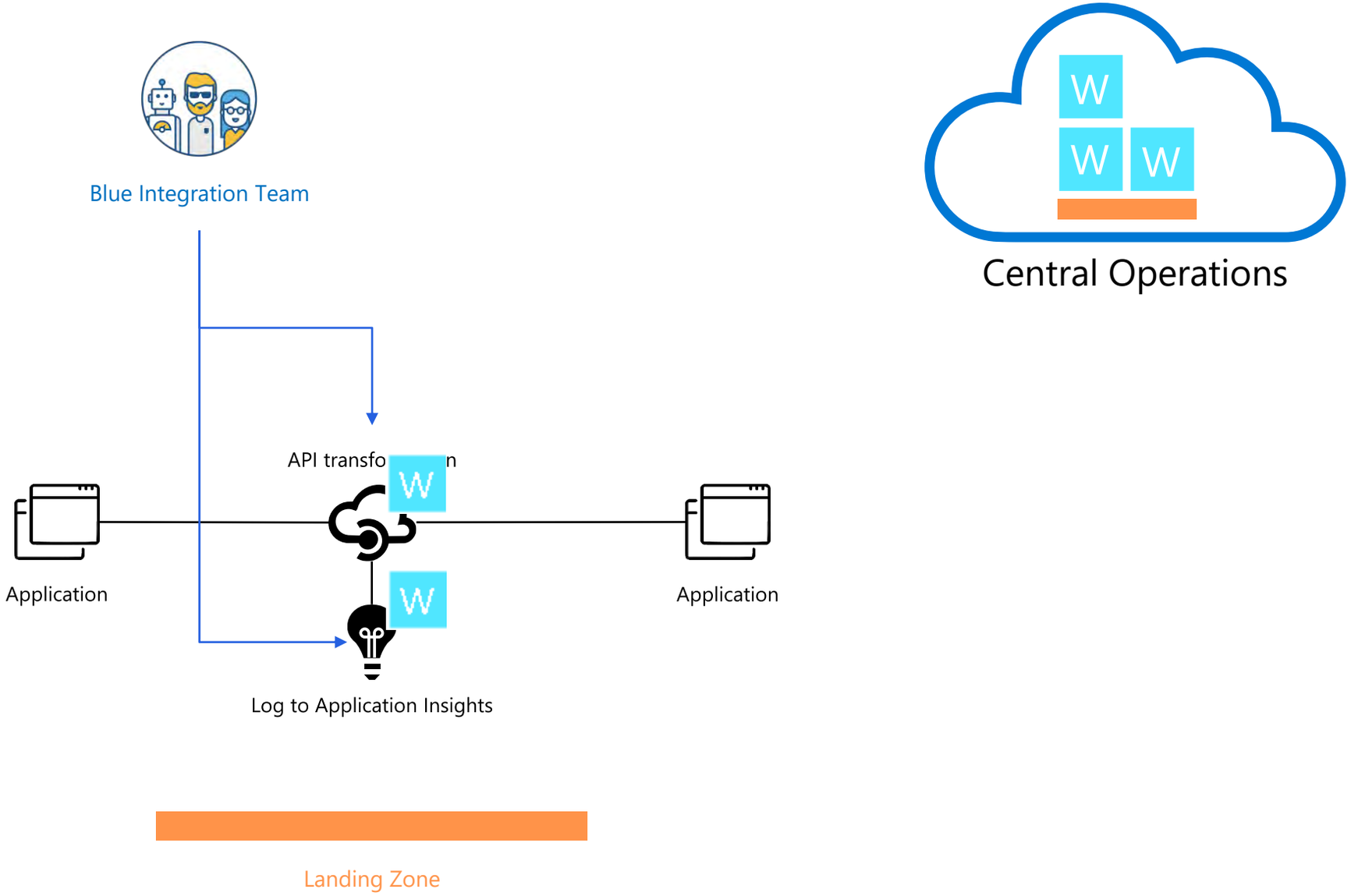
Log to Application Insights



Log to Log Analytics



Log to Database

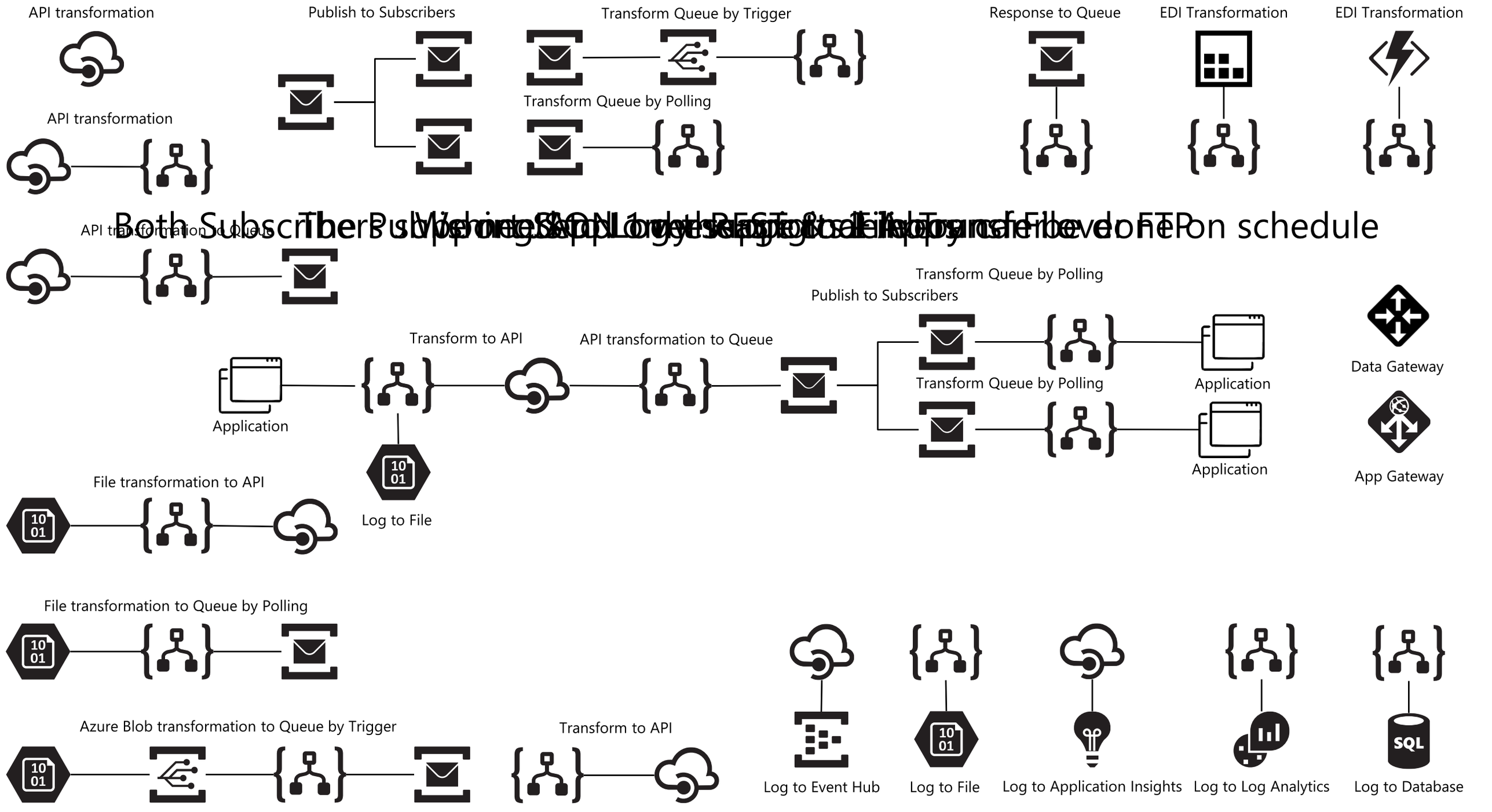

Central Operations
Blue Integration Team
API transformation
Application
Application
Log to Application Insights
Landing Zone

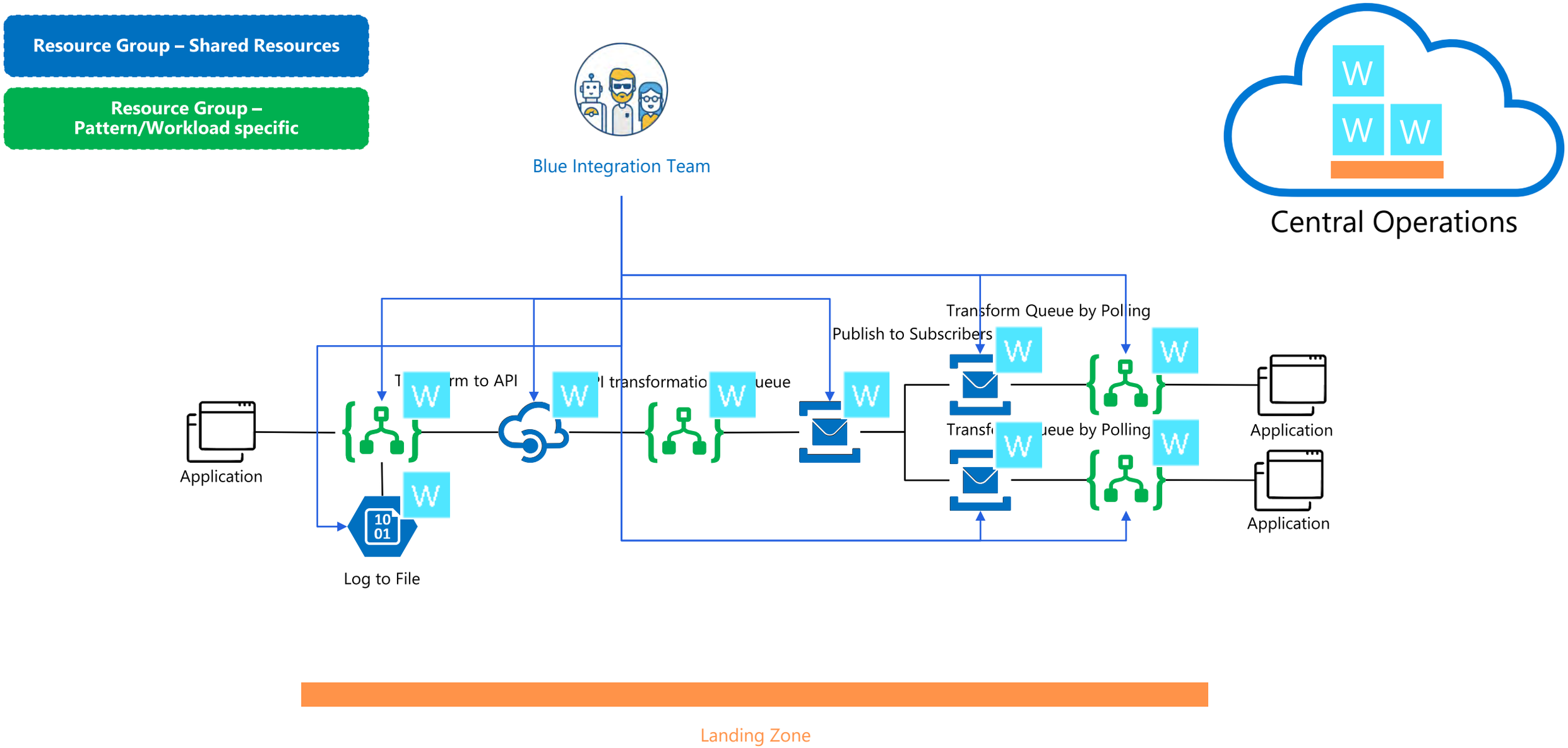
Customer Functional Ask

- We have a legacy Product Information Management (PiM) System which contains all our products
- When new products are created in PiM, our Order Management System and the B2B Portal needs to updated

Customer Technical Ask

- The Publishing App only supports File Transfer over SFTP
- We need to Log the original inbound File
- Both Subscriber Apps support JSON over REST
- Delivery can be done on schedule
- Central Integration Team is responsible for managing & developing the integration services
- We all work in 1 subscription


API transformation
Publish to Subscribers
Transform Queue by Trigger
Response to Queue
EDI Transformation
EDI Transformation
API transformation
Transform Queue by Polling
Both Subscribers
The Publisher
Using SQL
Using REST
Transform
File
FTP
on schedule
API transformation to Queue
Transform Queue by Polling
Publish to Subscribers
Transform to API
API transformation to Queue
Application
Transform Queue by Polling
Application
Data Gateway
Application
App Gateway
File transformation to API
Log to File
File transformation to Queue by Polling
Azure Blob transformation to Queue by Trigger
Transform to API
Log to Event Hub
Log to File
Log to Application Insights
Log to Log Analytics
Log to Database


Resource Group – Shared Resources
Resource Group – Pattern/Workload specific
Blue Integration Team
Central Operations
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Publish to Subscribers
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Application
Log to File
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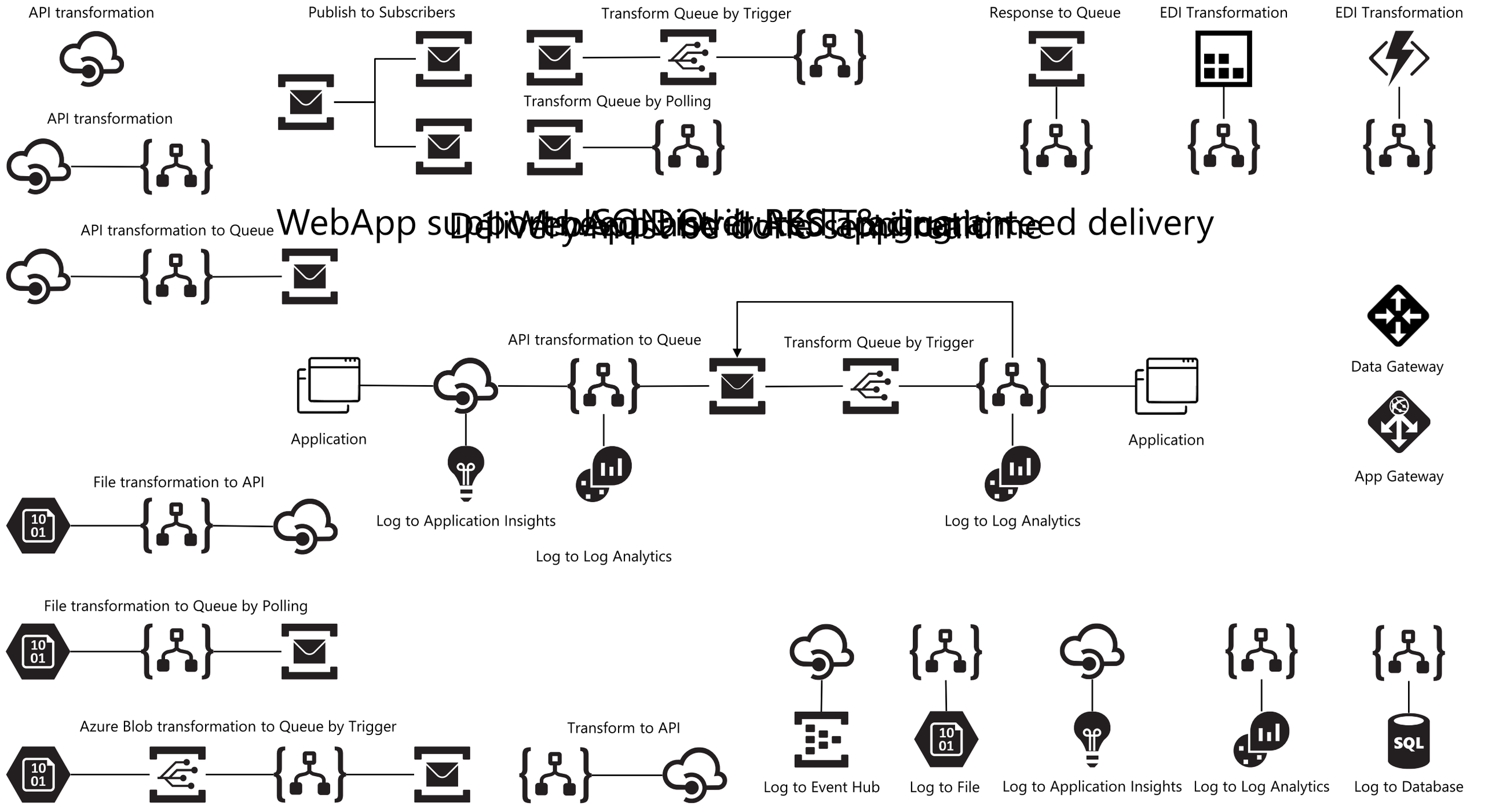
Landing Zone

Customer Functional Ask

- We have a web shop where customers can buy our products
- We have developed microservices to be more flexible in our order processing
- When a new order is placed in our web shop, we need to send an update to our backend systems
- When something goes wrong, we need to be able to find the error quickly

Customer Technical Ask

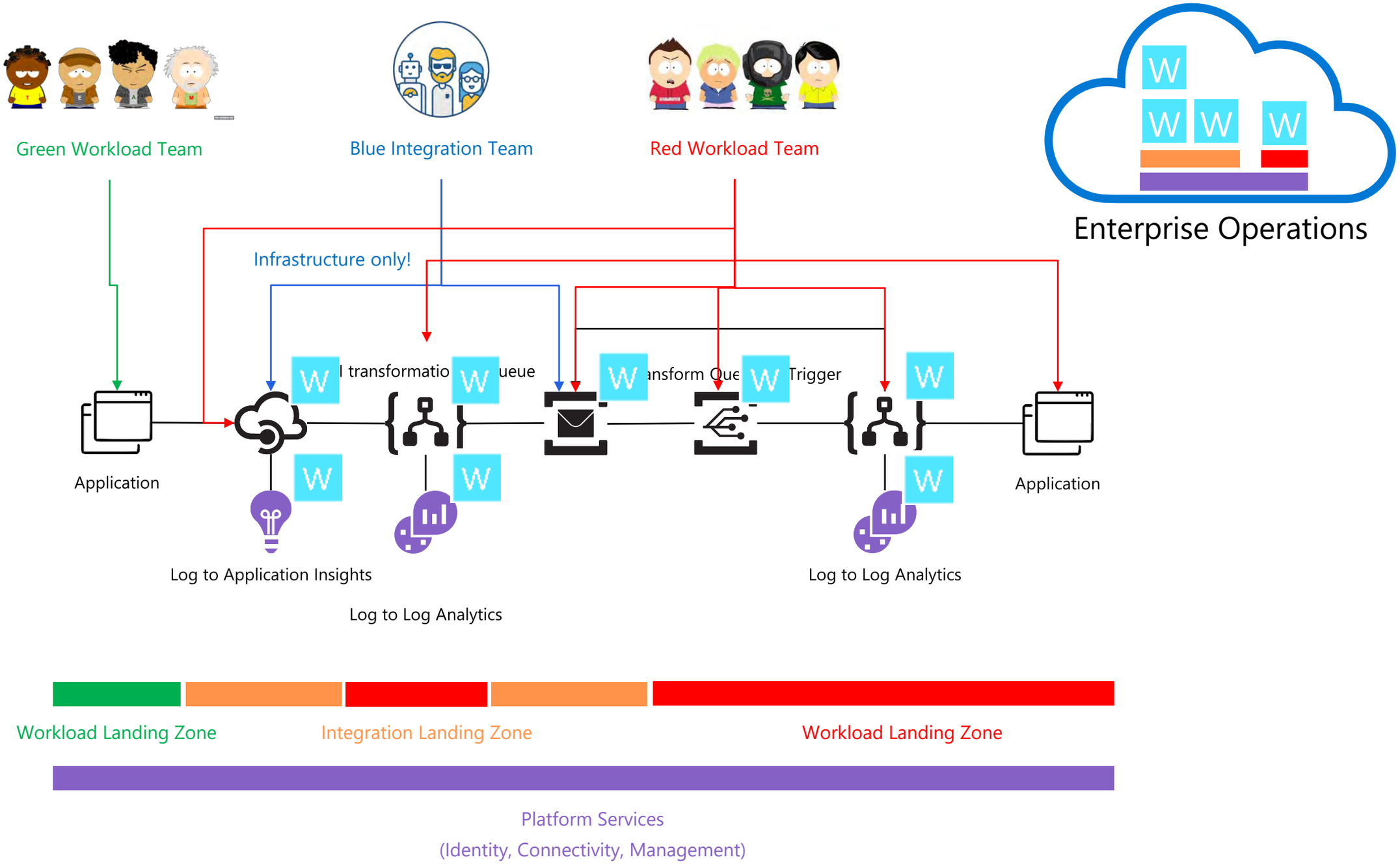
- We have a WebApp which we need to integrate with a microservice in AKS
- WebApp supports JSON over REST
- We need guaranteed delivery
- Delivery must be done semi real-time
- We need Distributed Tracing
- Central Integration Team is responsible for managing the shared integration services
- Workload teams need to develop the connectors themselves
- We have multiple subscriptions for teams, to separate responsibilities



WebApp supports OAuth2 authentication

Delivery Application Queue supports signature

Delivery Application Queue supports guaranteed delivery


Green Workload Team
Blue Integration Team
Red Workload Team
Enterprise Operations
Infrastructure only!
W
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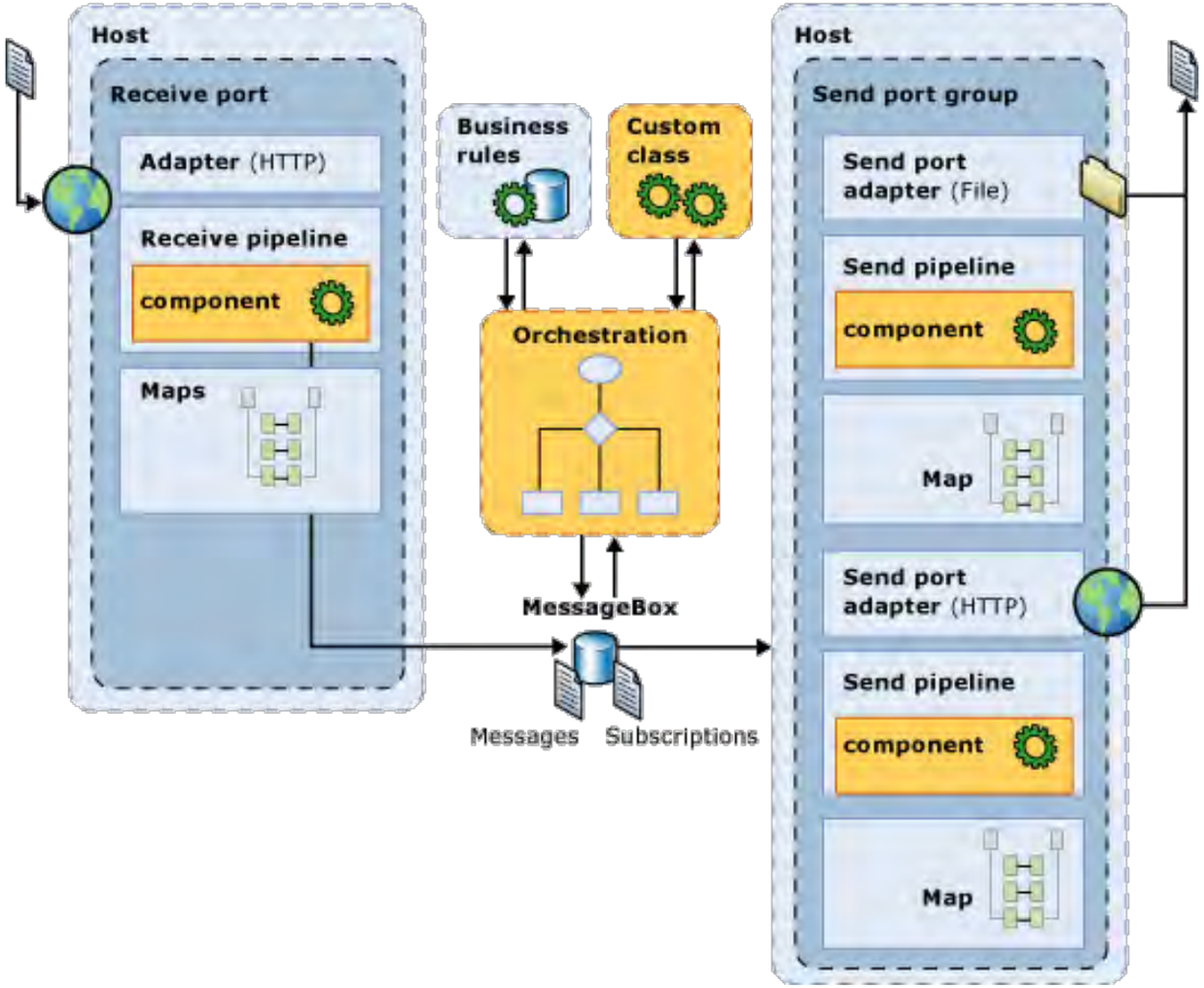
ansform Que
Trigger
Application
Application
Log to Application Insights
Log to Log Analytics
Log to Log Analytics
Workload Landing Zone
Integration Landing Zone
Workload Landing Zone
Platform Services
(Identity, Connectivity, Management)

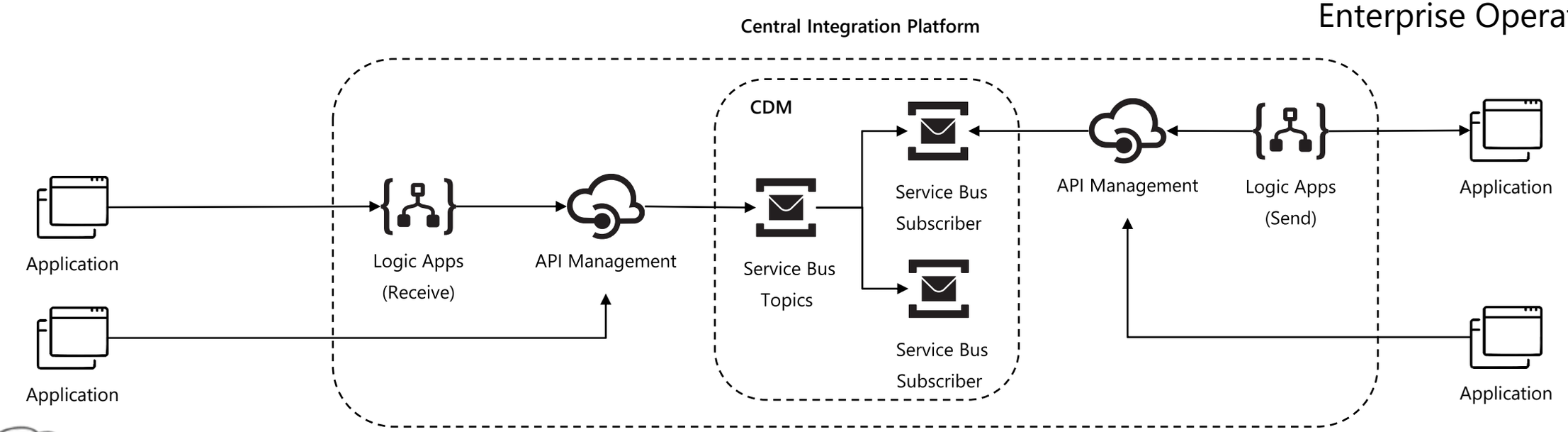
BizTalk vs Azure Integration Services (architecture)

BizTalk Architecture



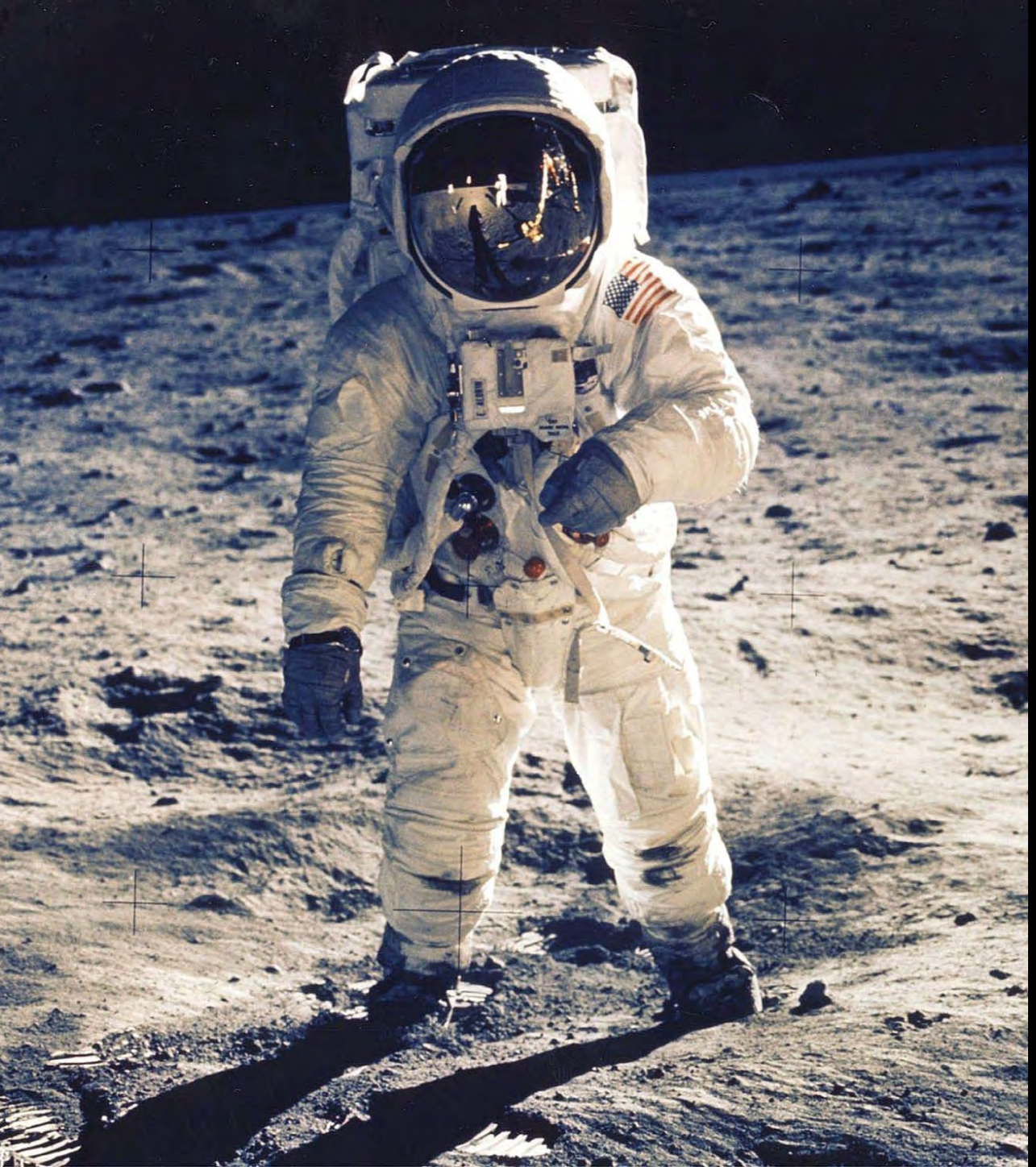
BizTalk translated to AIS

Enterprise Operations



Integration Landing Zone

Platform Services
(Identity, Connectivity, Management)



Not enough developers

1M developer shortfall

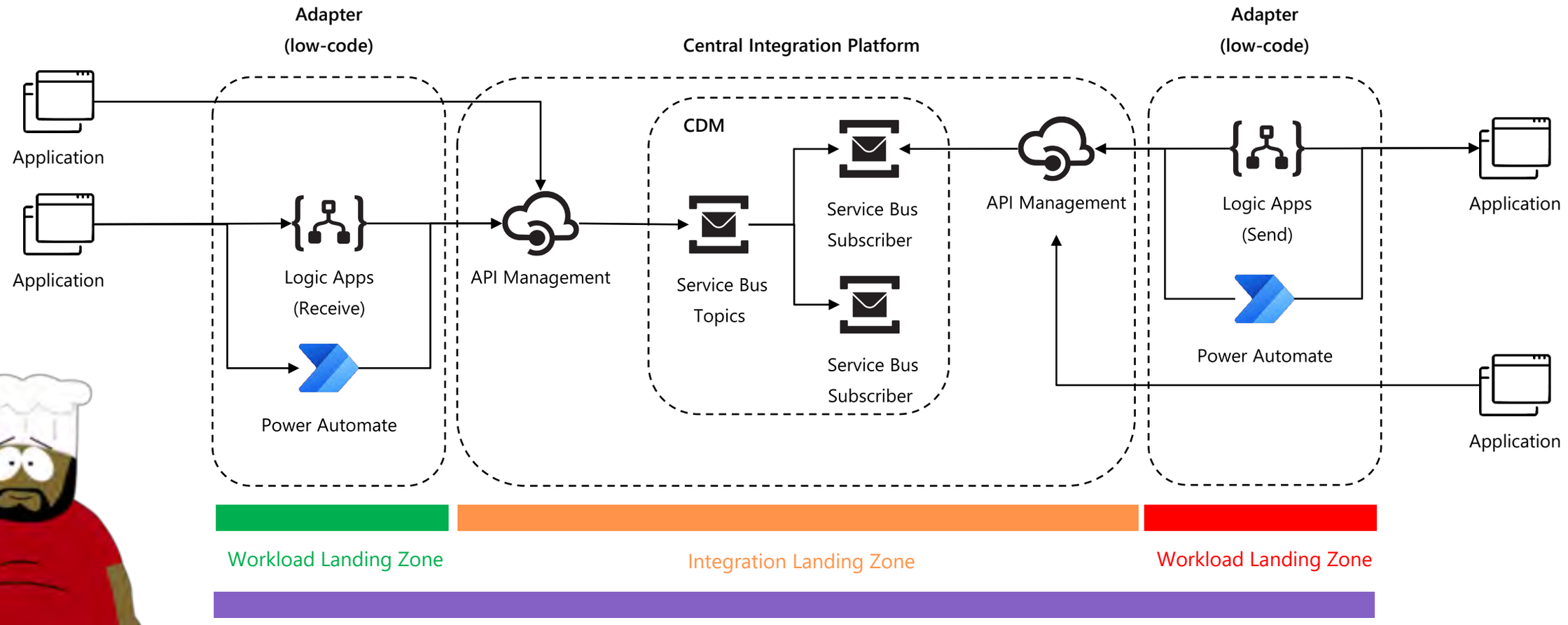
86% of companies struggle to hire tech talent

~~Teach everyone to code~~

Turn everyone into a developer with low code

Accelerate integration development with low-coding

Enterprise Operations



We would love to hear about your integration challenges!

Reach out to us…
0900-TH3M00N

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