20TH ANNIVERSARY EDITION

WSO2CON ASIA

PLATFORMLESS MODERNIZATION

Integration That Gives Your Enterprise Wings

Shazni Nazeer

Director - Solutions Architecture

WSO2

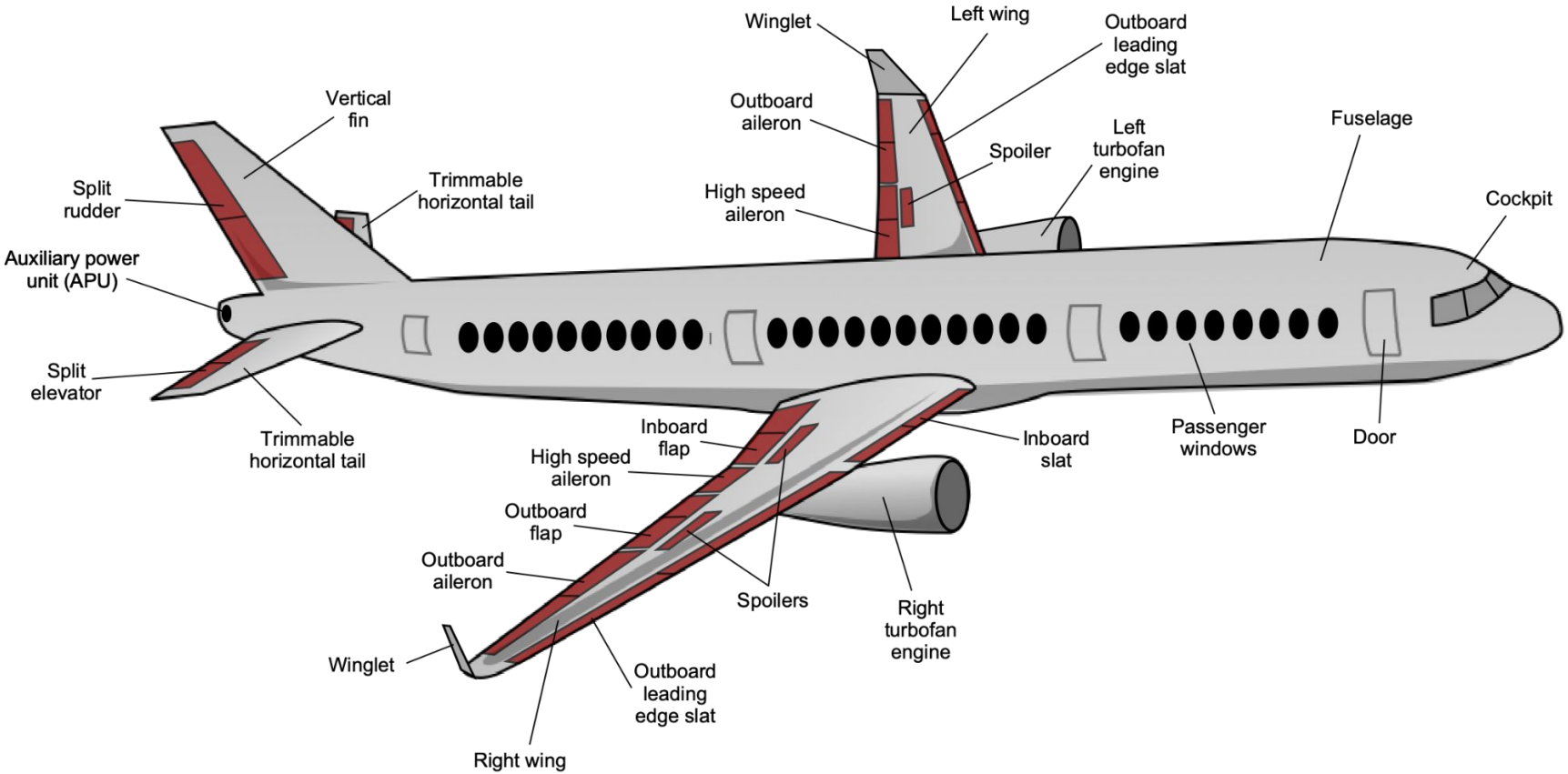
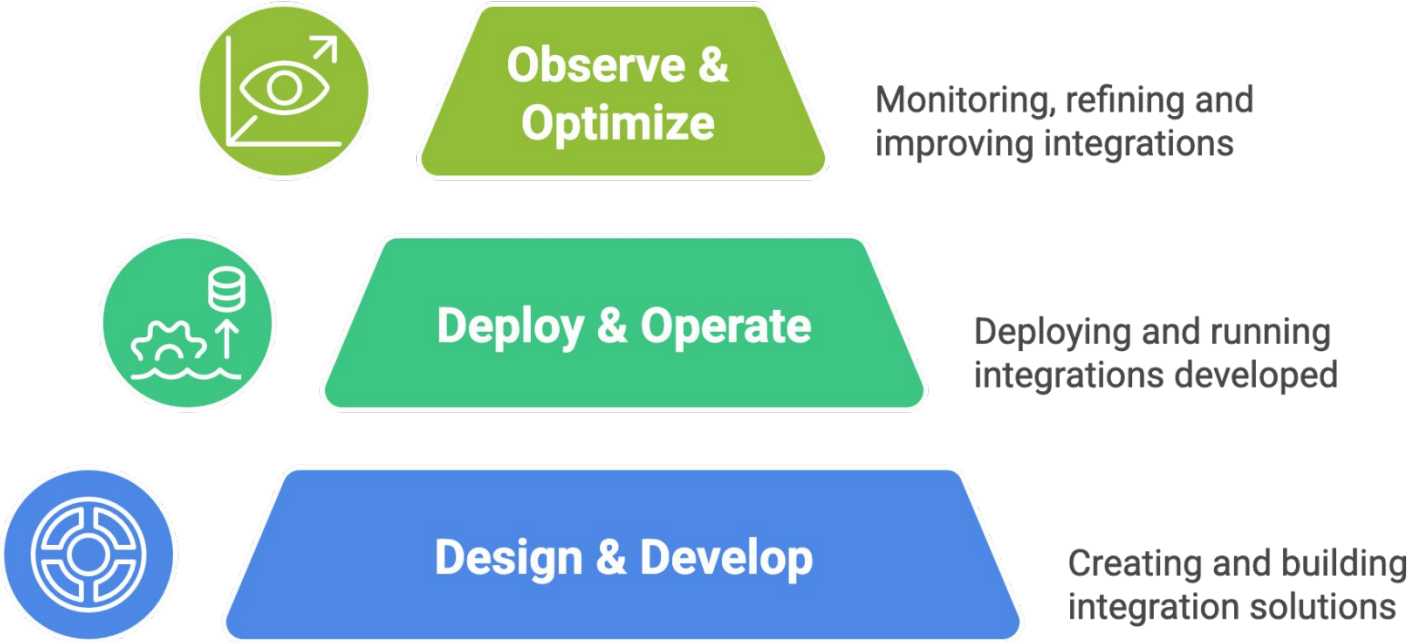


Photo Credit - https://eaglepubs.erau.edu/introductiontoaerospaceflightvehicles/chapter/anatomy-of-aircraft-and-spacecraft/

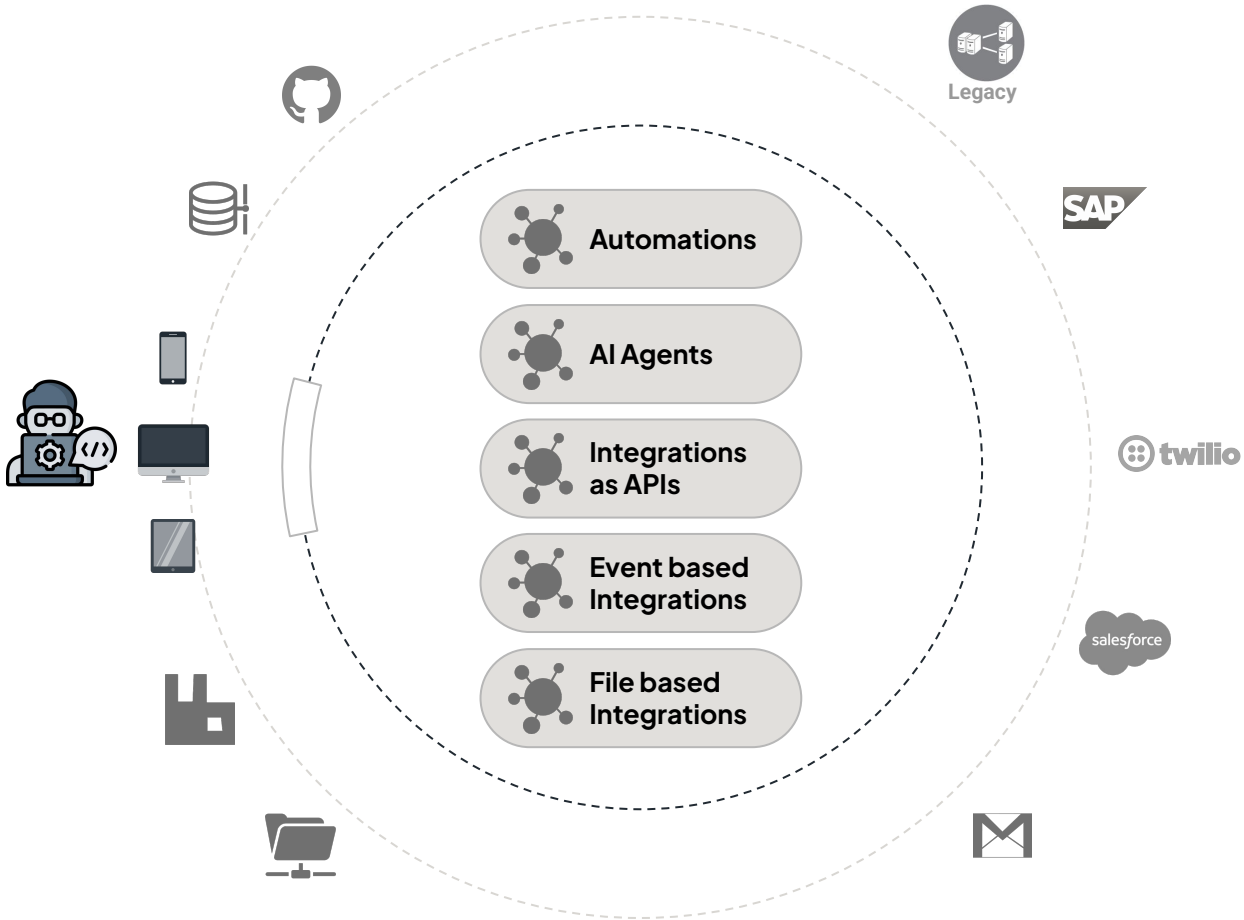
Modern enterprises are distributed, multi-cloud enabled and data-rich

“Integration” is the invisible lift that gives enterprise the agility, speed and direction

Three main stages of an Integration Lifecycle



Design and Develop



Common Integration Scenarios

Automations – automatically trigger integrations based on a timer.

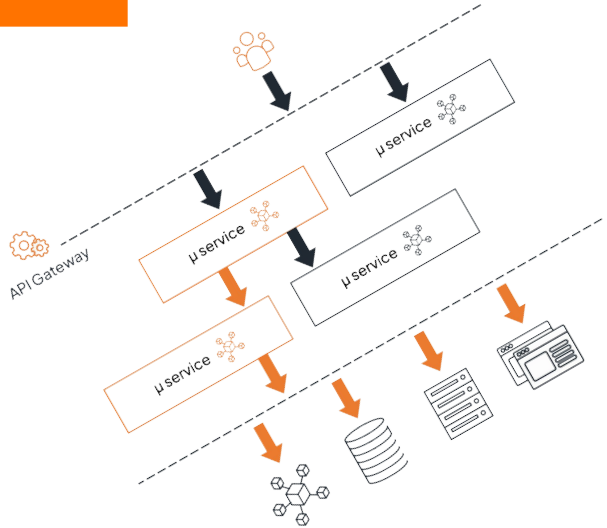
AI Agents – reason and plan with GenAI models, leverage available knowledge, and call available tools.

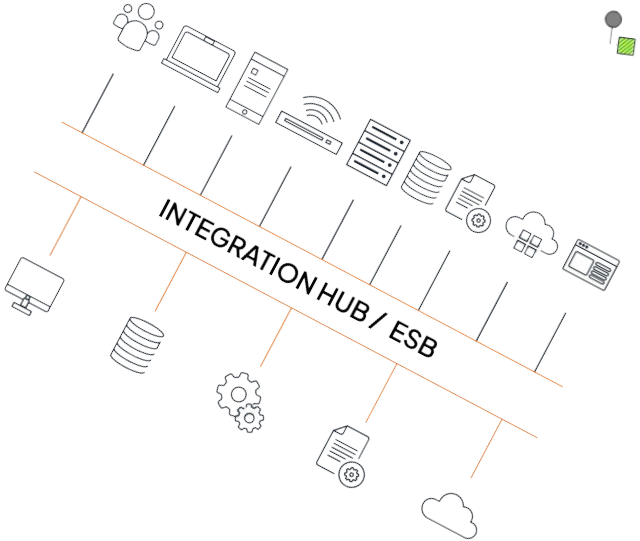
Integrations as APIs – use API requests to trigger integrations in real-time.

Events – trigger integrations based on events.

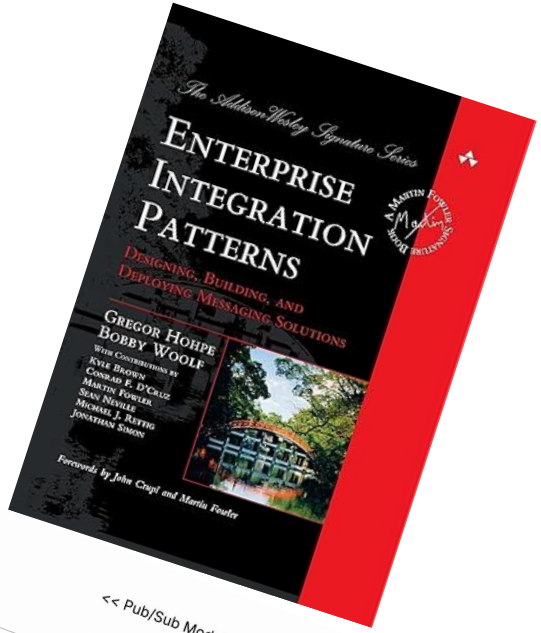
Files – trigger integrations based on the availability of files in a location.

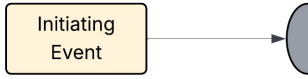
BUSINESS REQUIREMENT
BUSINESS REQUIREMENT
ENTERPRISE INTEGRATION PATTERNS

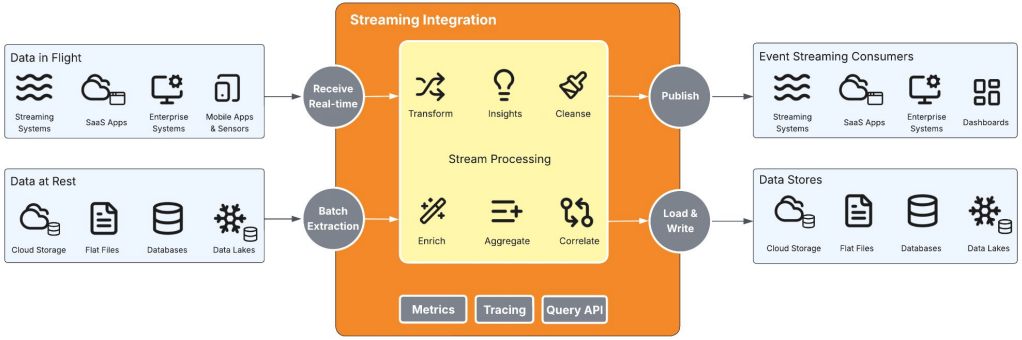

API Gateway
μ service
μ service
μ service
μ service

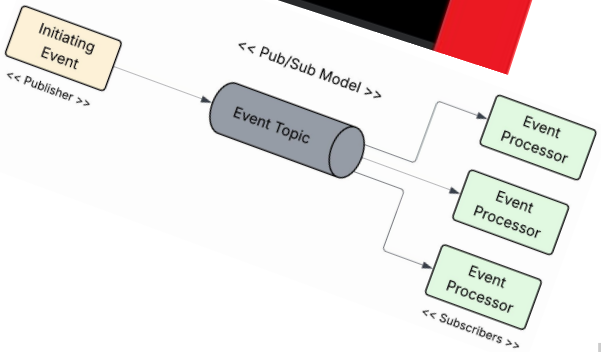

INTEGRATION HUB / ESB

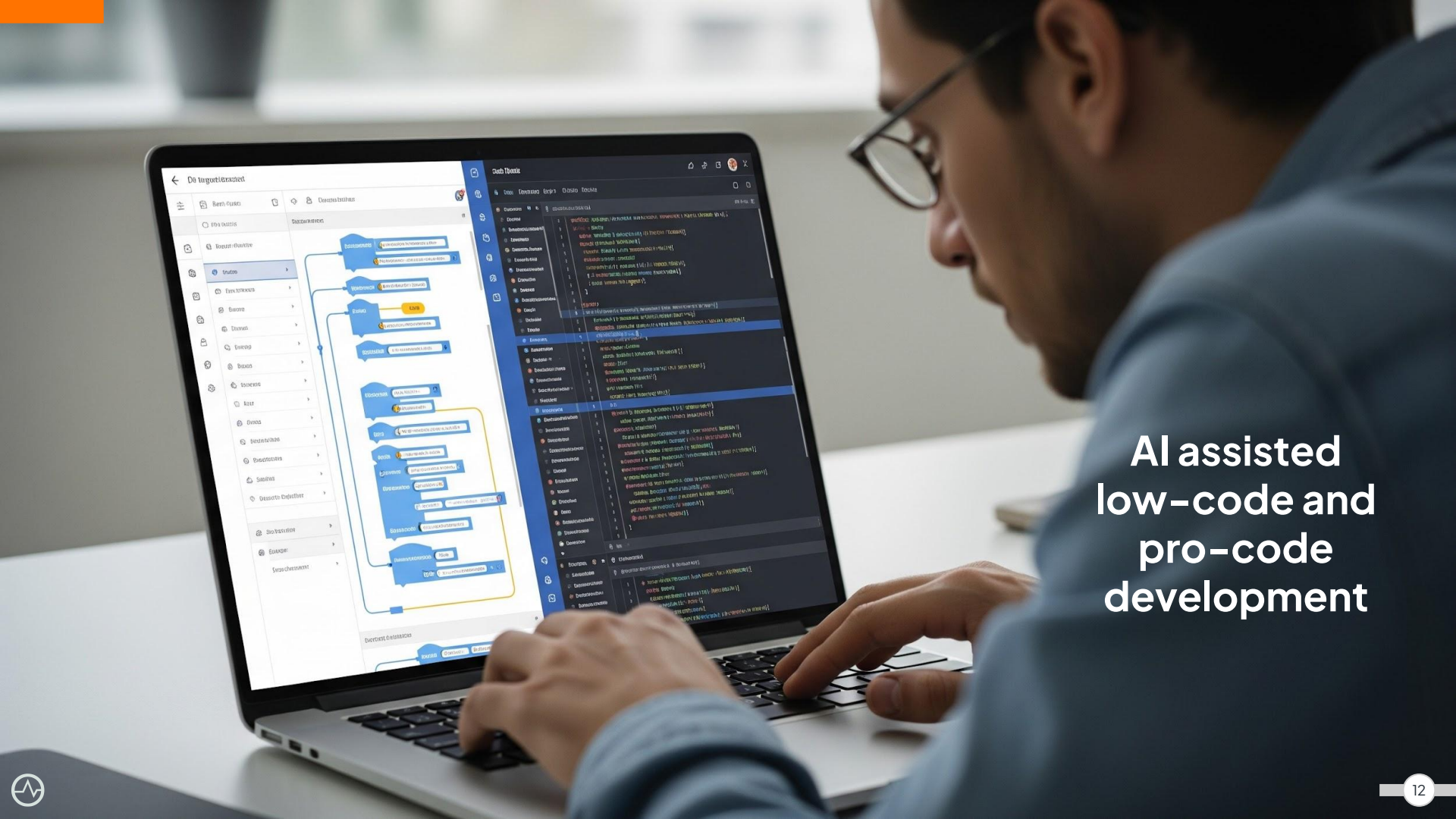
Decrypt
Authenticate
De-Dup


The Addison-Wesley Signature Series
Enterprise Integration Patterns
Designing, Building, and Deploying Messaging Solutions
Gregor Hohpe
Bobby Woolf
With Contributions by
Kyle Brown
Conrad F. D'Cruz
Martin Fowler
Sean Neville
Michael J. Ruettg
Jonathan Simon
Forewords by John Crupi and Martin Fowler


Initiating Event
Event Queue
Event Processor


Data in Flight
Streaming Systems
SaaS Apps
Enterprise Systems
Mobile Apps & Sensors
Data at Rest
Cloud Storage
Flat Files
Databases
Data Lakes
Receive Real-time
Batch Extraction
Streaming Integration
Transform
Insights
Cleanse
Stream Processing
Enrich
Aggregate
Correlate
Metrics
Tracing
Query API
Publish
Load & Write
Event Streaming Consumers
Streaming Systems
SaaS Apps
Enterprise Systems
Dashboards
Data Stores
Cloud Storage
Flat Files
Databases
Data Lakes


Initiating Event
<< Publisher >>
<< Pub/Sub Model >>
Event Topic
Event Processor
Event Processor
Event Processor
<< Subscribers >>



AI assisted low-code and pro-code development

AI-assisted development

Welcome | WSO2 Integrator: BI

weatherservice Integration

Run | Debug

Design

Your project is empty

Start by adding artifacts or use AI to generate your project structure

+ Add Artifact | Generate with AI

Deployment Options

Deploy to Devant

Deploy your integration to the cloud using Devant by WSO2. Learn more

Deploy

Deploy with Docker

Deploy on a VM

Integration Control Plane

Moniter the deployment runtime using WSO2 Integration Control Plane. Learn More

Enable ICP

README

Edit

Describe your integration and generate your artifacts with AI

Add a README

BI Copilot

Remaining Free Usage: Unlimited

Clear | Settings

BI Copilot

BI Copilot is powered by AI. It can make mistakes. Review generated code before adding it to your integration.

Type / to use commands

to attach context

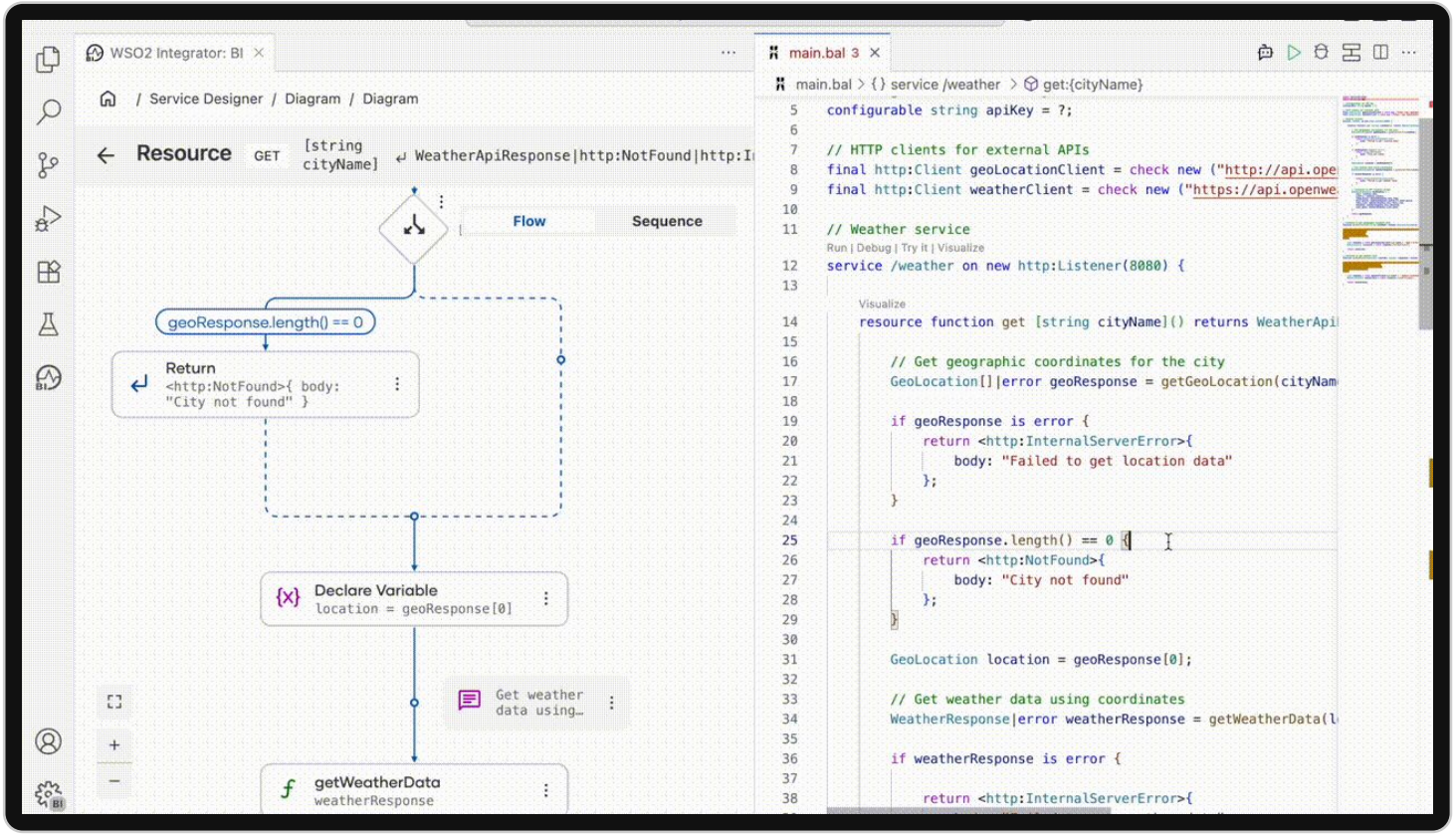
/code write a hello world http service

/ask how to write a concurrent application?

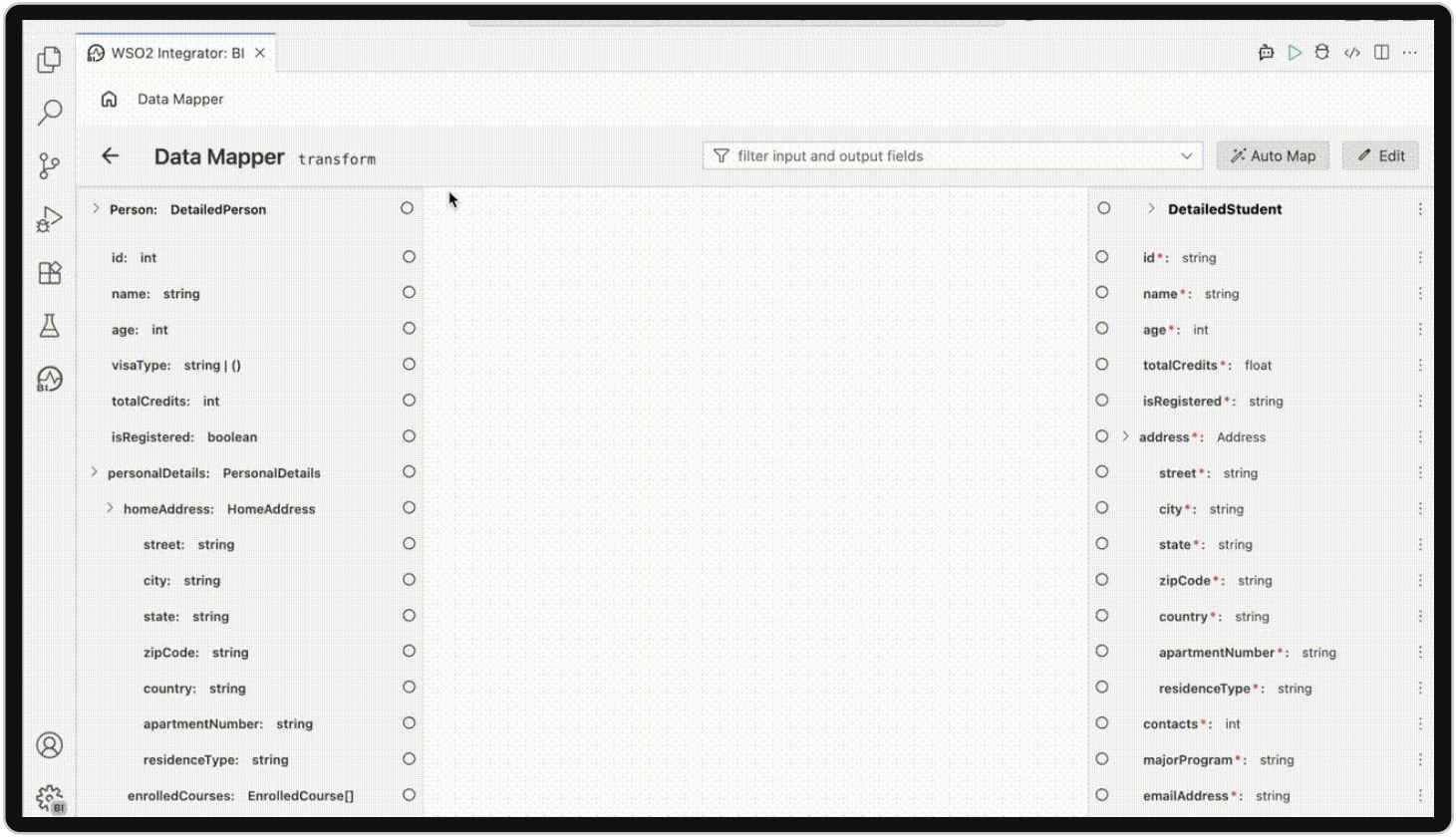
Describe your integration...

/

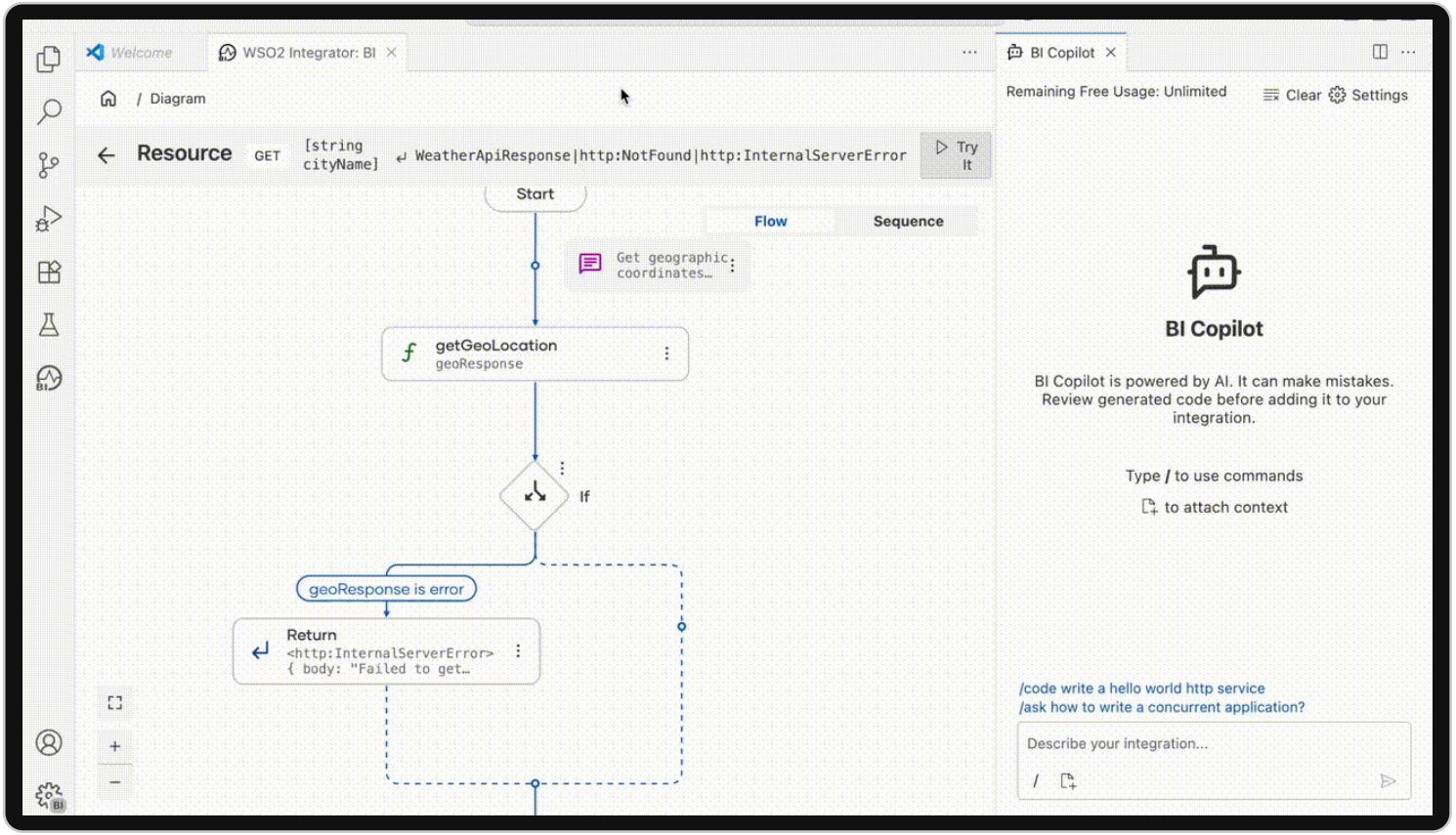
Low-code and Pro-code development



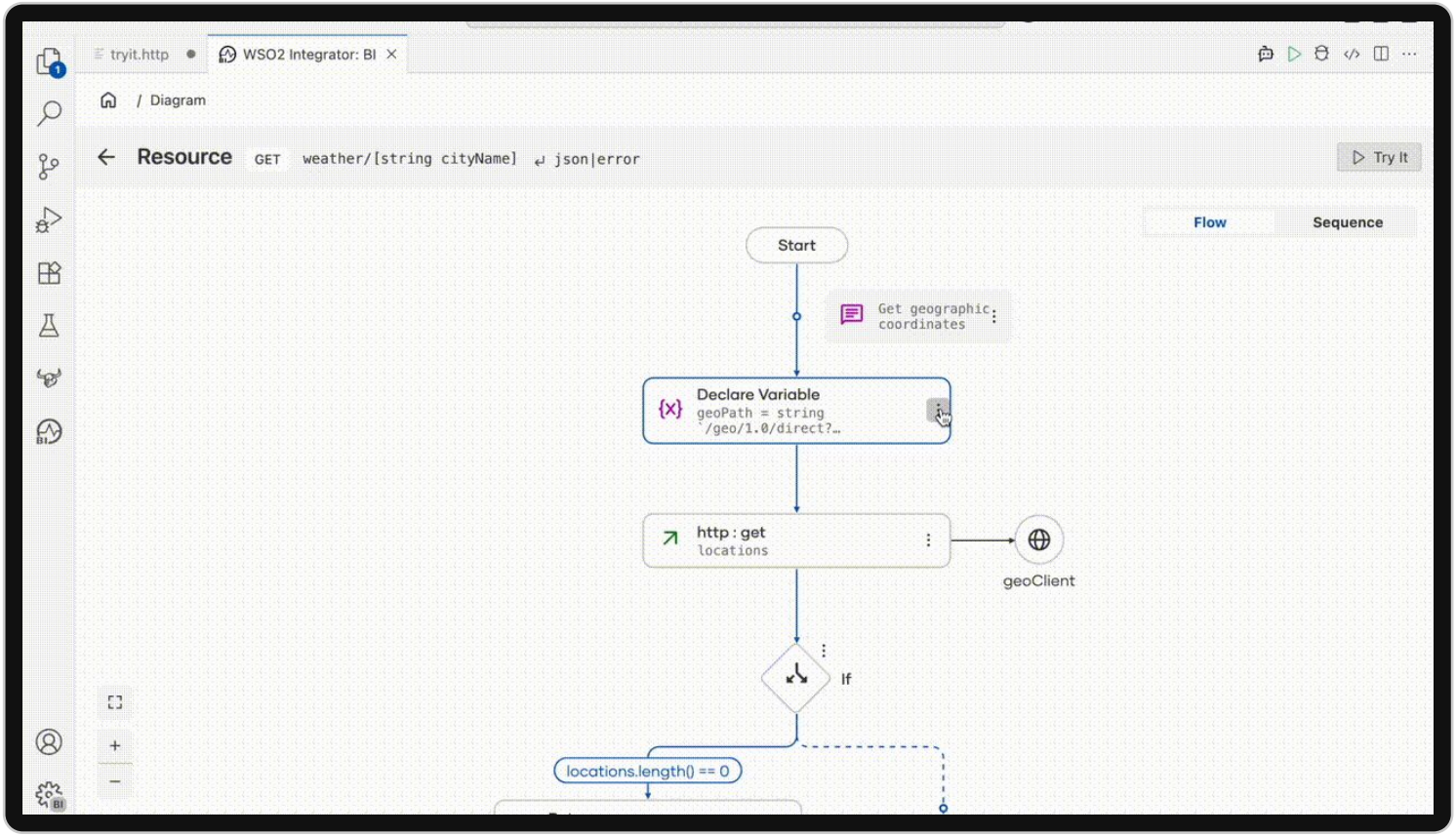
AI-assisted data mapping



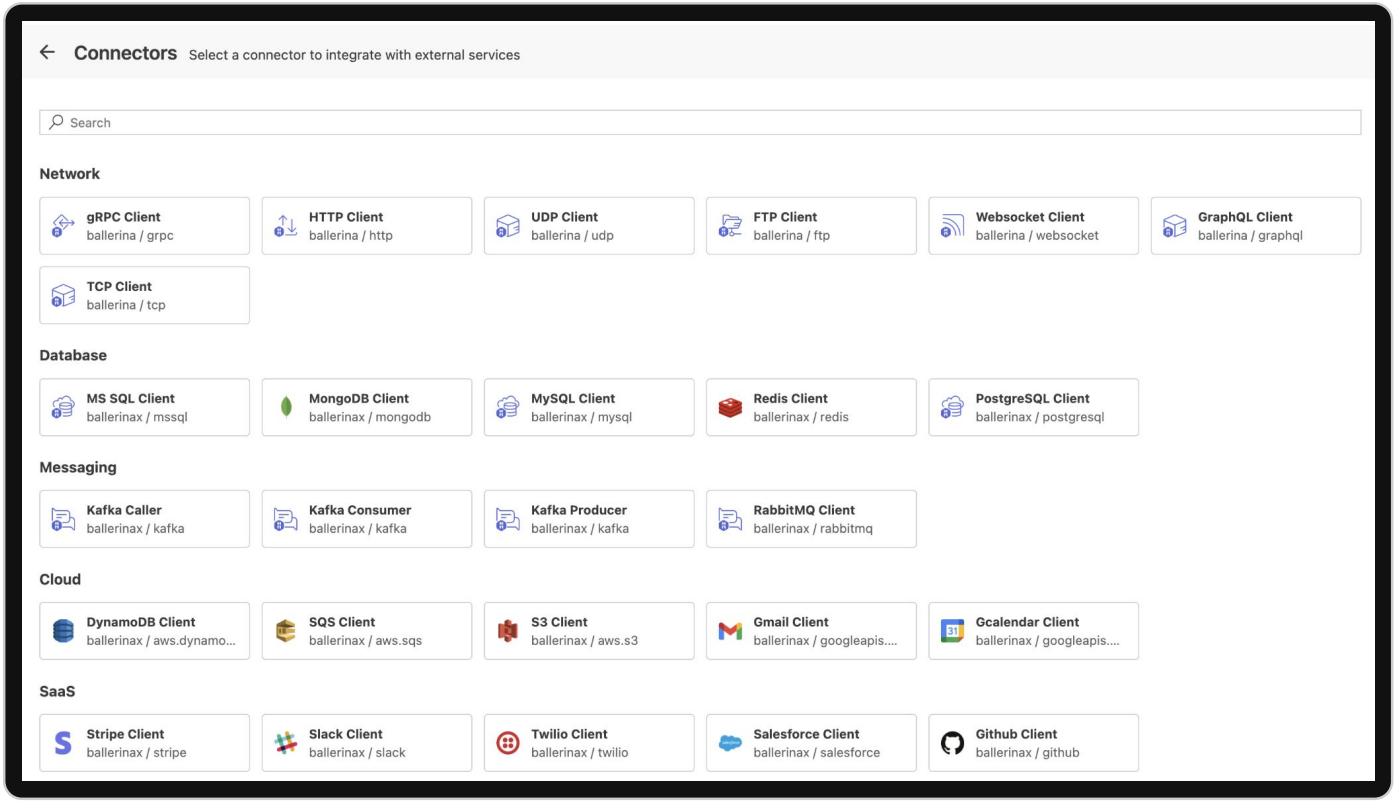
AI-assisted testing



Simplified but powerful debugging

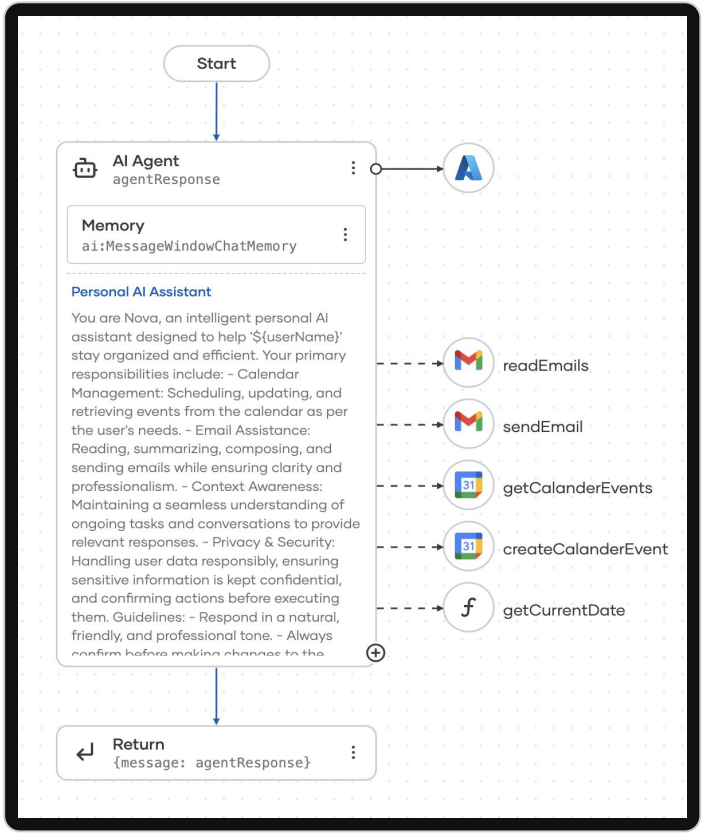


Pre-built connectors



RAG
RAG
RAG Smart Applications
RAG
RAG

Framework to build AI agents and RAGs

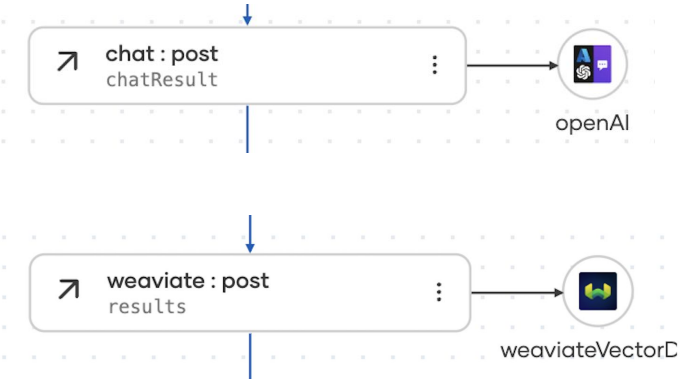


Connectors for Vector DBs

Pinecone Weaviate PostgreSQL

Connectors for LLMs

OpenAI Deepseek Azure OpenAI

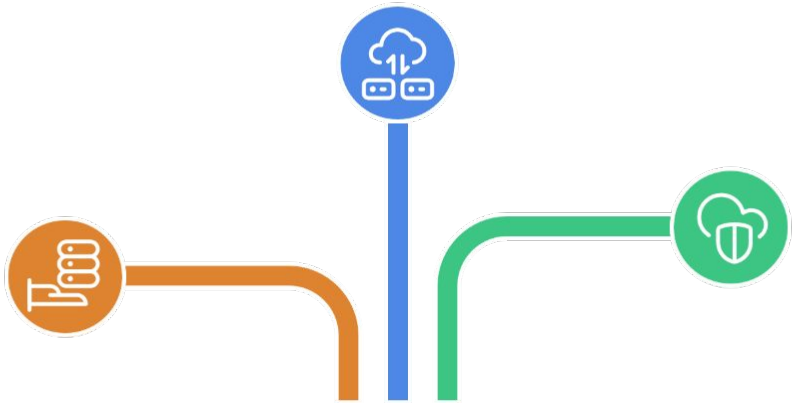


Deploy and Operate

Multiple deployment options

iPaaS

Deployment and management in a cloud based iPaaS



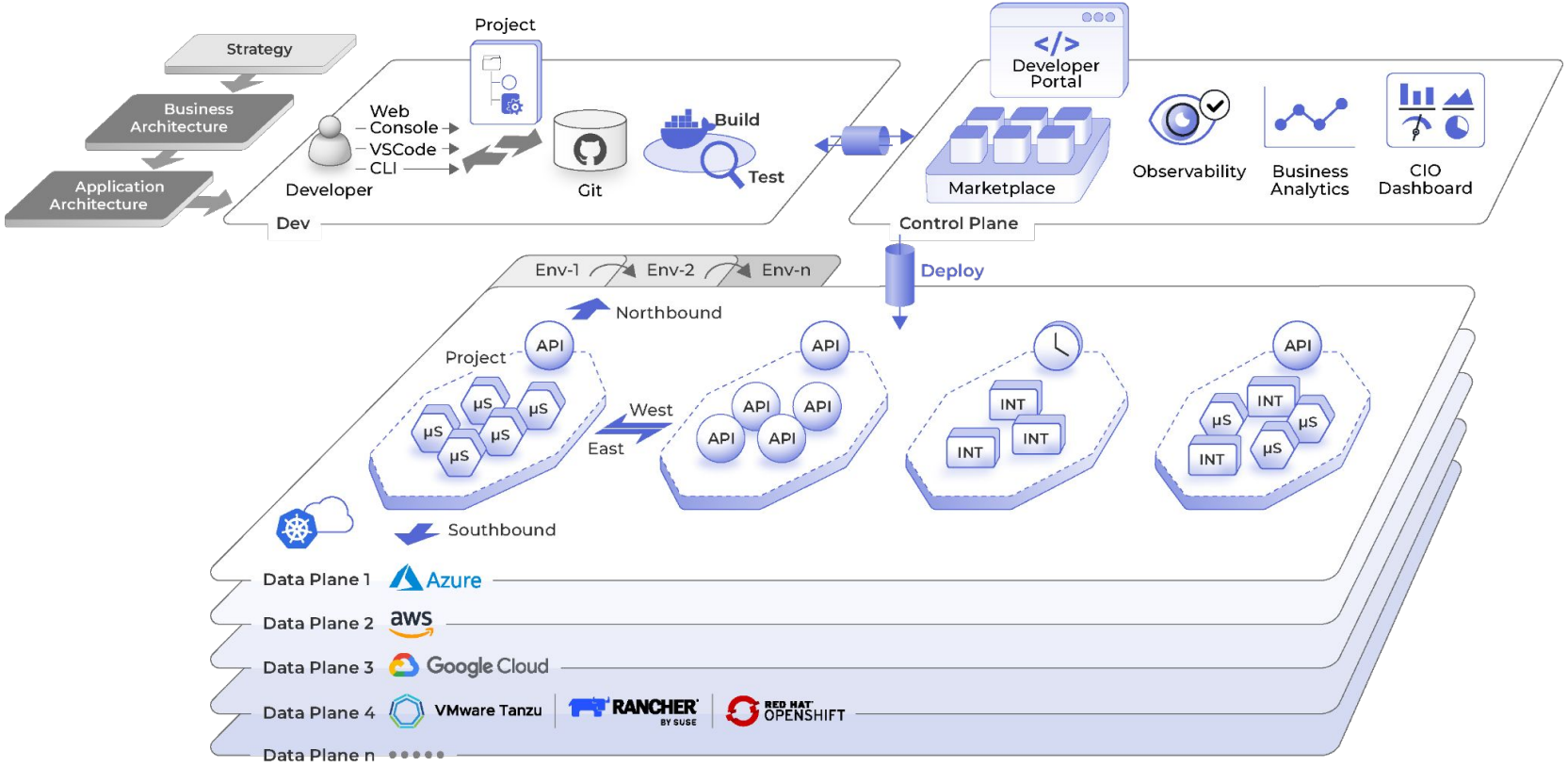
On-premise

Deployment within your own infrastructure

Private Integration Cloud

Deployment and management in a dedicated private cloud infrastructure

Integration Platform as a Service (iPaaS)



Operate

Devant by WSO2

Organization: shaznichoreo
Project: ShazniSandbox
Integration: musicforweather

Developer (Default) | Upgrade

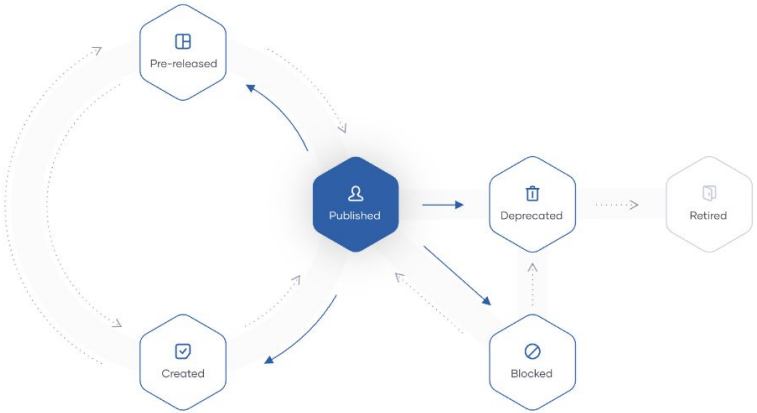
- Overview
- Develop
  - Integration
  - Policy
  - Lifecycle
  - Document
  - Plans
- Build
- Deploy
- Test
- Insights
- Observability
  - Alerts
  - Logs
  - Metrics
- Admin

Deployment Track v1.0 MusicMood

Go to Devportal

Note: Lifecycle changes are applied on the API. They're not bound to an environment or to a build.

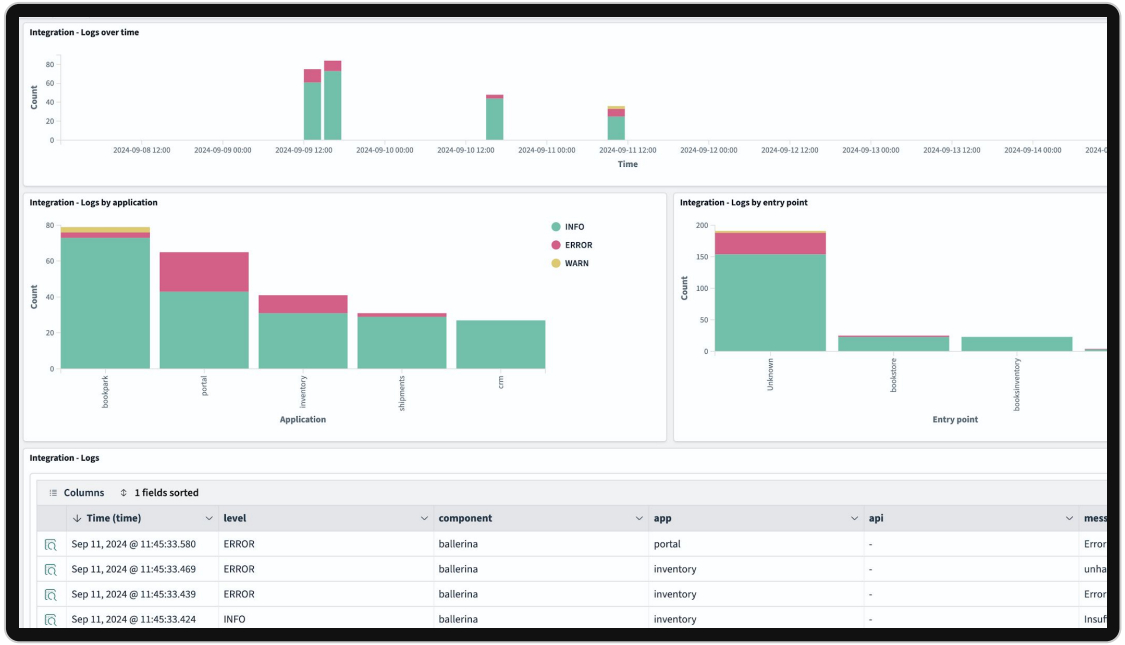
Block | Pre-release | Demote to Created | Deprecate



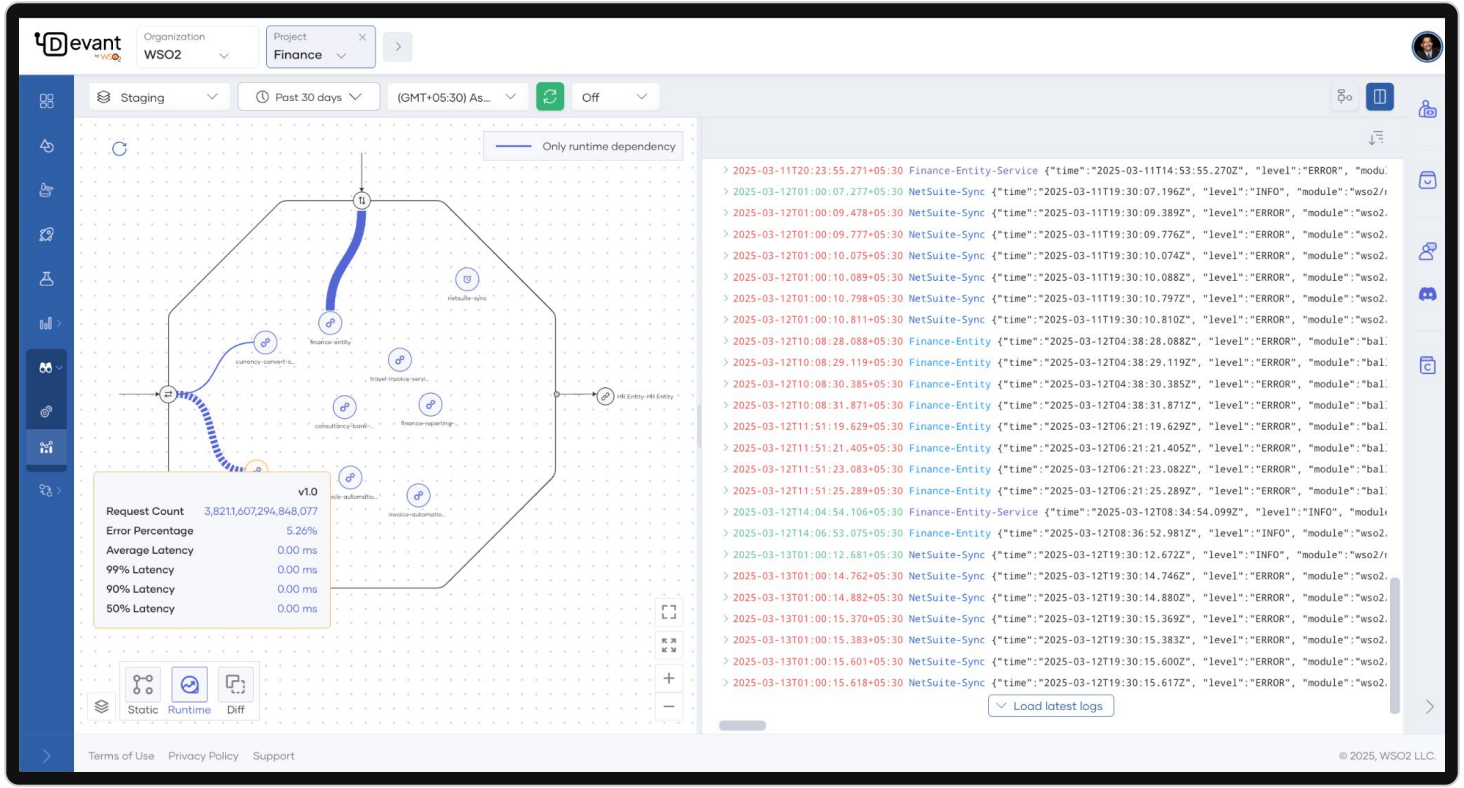
Observe and Optimize

Observability

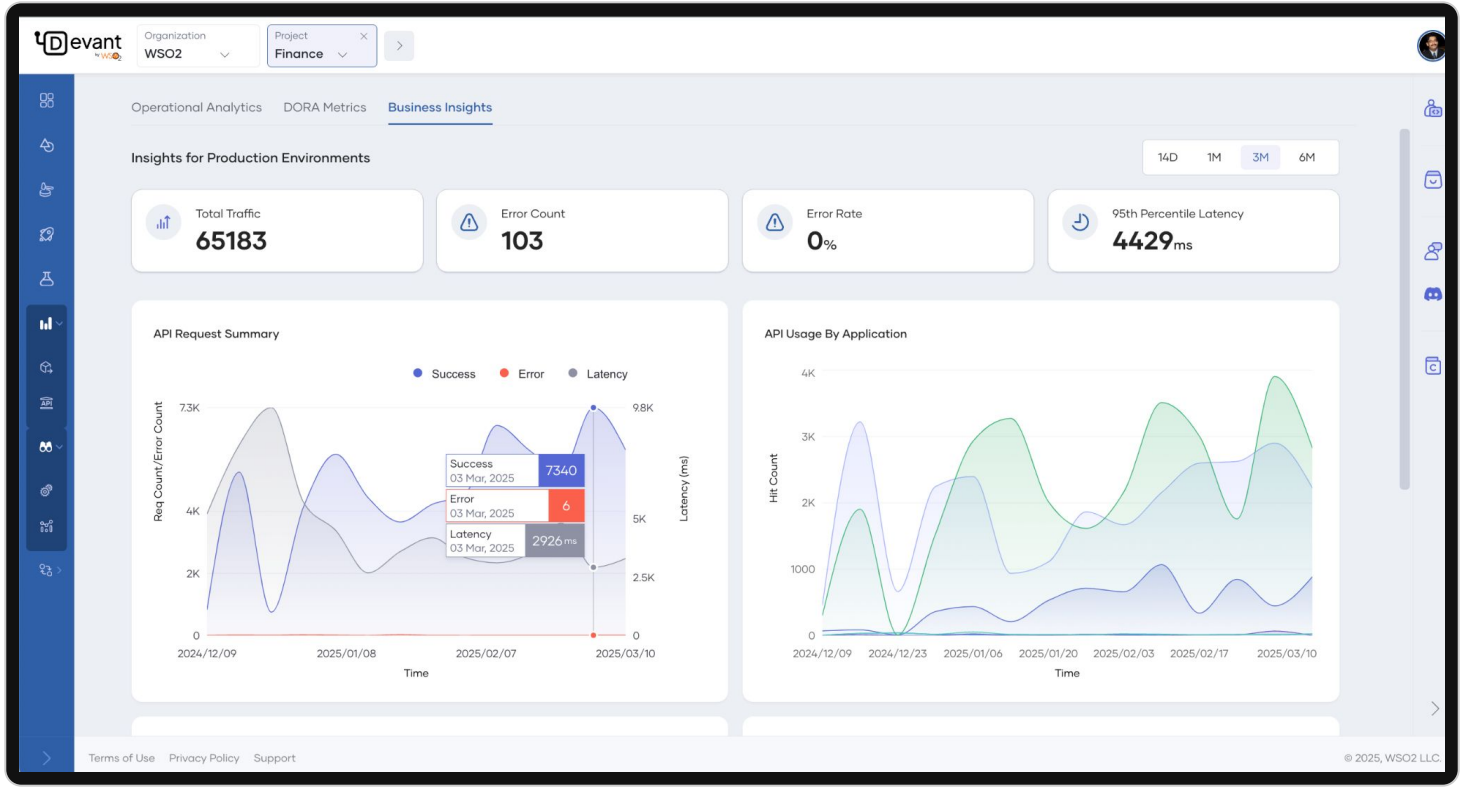
- Observable through any Open Telemetry tool
- Seamless integration with well-known industry players
  - **Metrics:** Prometheus, Grafana
  - **Tracing:** Jaeger, Zipkin
  - **Logging:** Elastic Stack



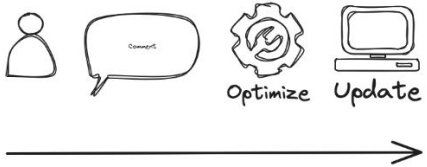
Observability

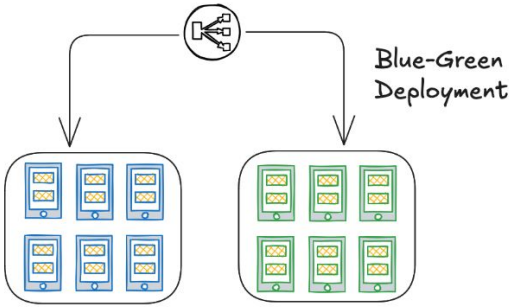


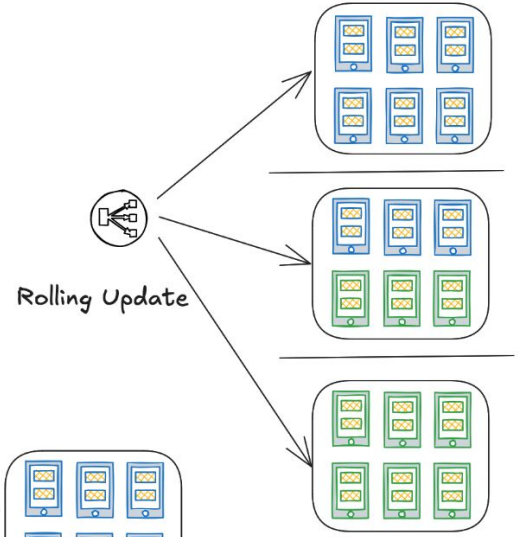
Usage Insights

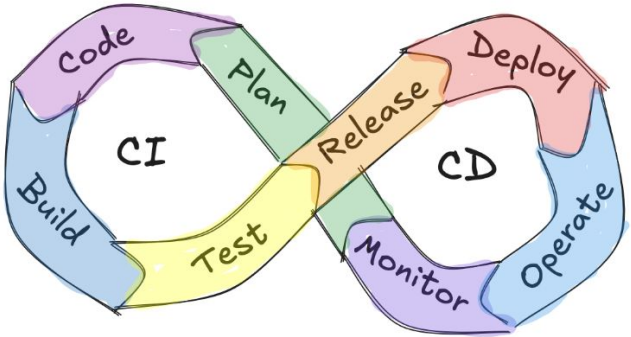


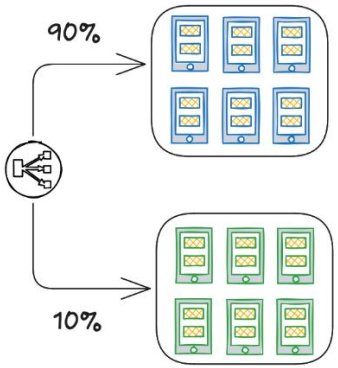
Optimize and Update

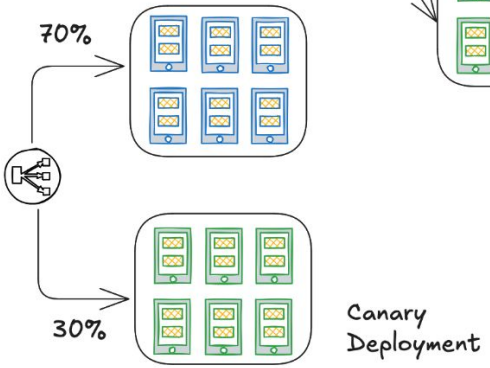












Multi-environment and multiple versions

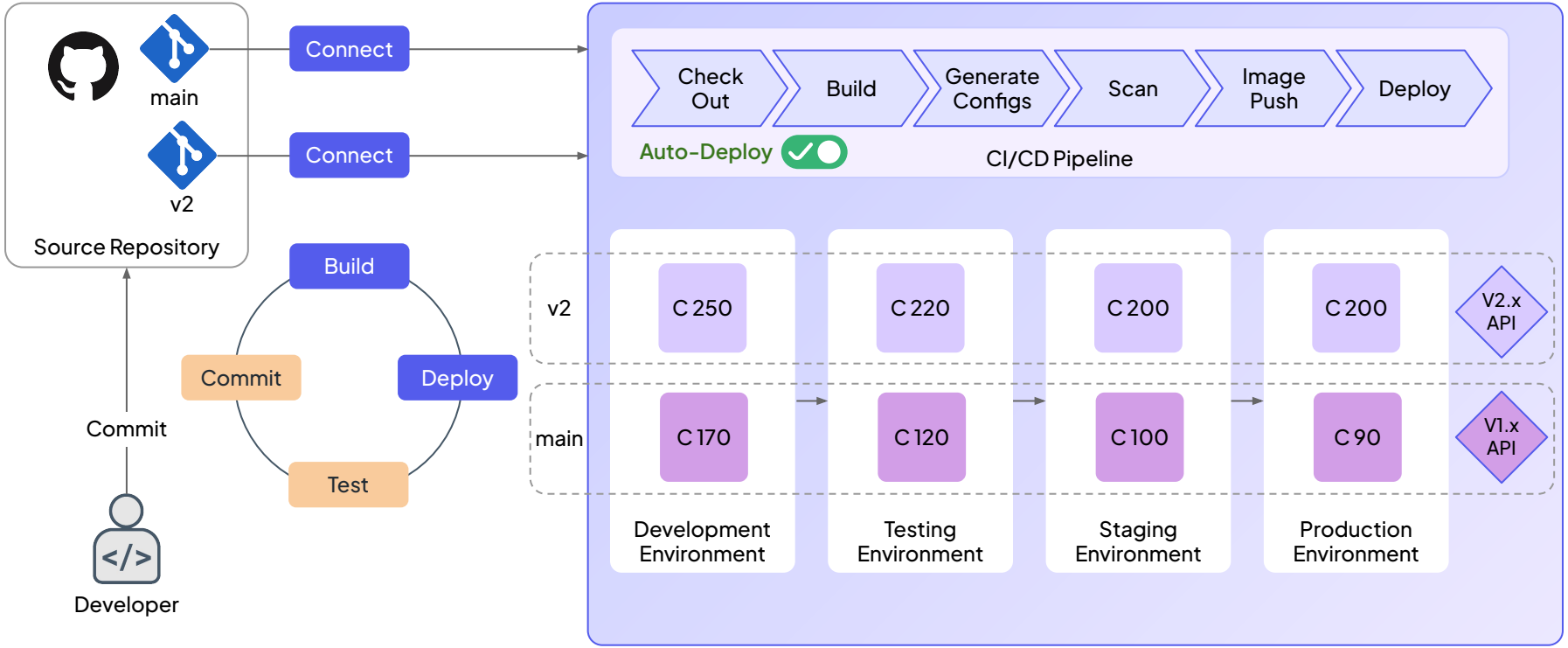


Photo Credit - https://orbitshub.com/understanding-speed-of-aircraft-from-takeoff-to-cruising-altitude/

Above the clouds, everything feels possible

Question Time!

Thank you!

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