WisdomPlexus

Building Microservice Ecosystem

Steps-By-Step Blueprint

STEP 01

IDENTIFY & DESIGN SERVICES

Example
User Management, Product Catalog, Order Processing.

Breakdown Functions
Divide your applications into smaller, independent services.

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02 STEP

CHOOSE OR BUILD YOUR TECHNOLOGY STACK

Programming Languages
Select languages like Java, Python, or Node.js

Frameworks
Use Spring Boot, Flask, or Express.

STEP 03

ENABLE OR DEPLOY SERVICE COMMUNICATION

API Gateway
Directs requests to appropriate service

Service Discovery
Helps services find each other.

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04 STEP

CONTAINERIZATION

Docker
Package service into containers.

Kubernetes
Handle and scale containers.

STEP 05

MANAGE CONTINUOUS DEPLOYMENT (CI/CD)

CI/CD Pipelines
Auto-test and deploy using tools such as Jenkins or GitHub Actions.

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06 STEP

MONITORING AND LOGGING EVERYTHING

Prometheus & Grafana
Monitor service health

ELK Stack
Centralize logs for analysis.

STEP 07

SECURE YOUR ECOSYSTEM

Authentication
Use OAuth2 and JWT.

Network Security
Secure communication between services.

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08 STEP

PLAN FOR SCALABILITY AND RESILIENCE

Independent Scaling
Scale services based on demand.

Fault Tolerance
Isolate failures to prevent system-wide issues

Explore the expert guide and learn more on WisdomPlexus !