WSO2CON 2024

From Code To Cloud: Fast Track Your Cloud Native Journey with Choreo



Omindu Rathnaweera
Associate Director/Architect
WSO2



Going Cloud Native…

Businesses of all sizes are embracing cloud native for its speed, scalability, and resilience

Global public cloud end-user spending expected to grow $724.5 billion in 2024

- Gartner-



Why Businesses Adopt a Cloud Native Strategy

Agility and Speed
developed, deployed, and updated much faster than traditional applications

Scalability
can easily scale up or down based on demand

Resilience
more fault-tolerant and easier to recover from failures

Productivity
Automation, DevOps practices, and standardized tools eliminates repetitive tasks

Operational Costs
Efficient resource utilization, automated deployments, and easier management

Challenges ?

Excerpt from a recent survey on cloud native development, by Foundry, UST*

95% are unable to fully utilize the benefit of cloud native

46%
training/educating development teams

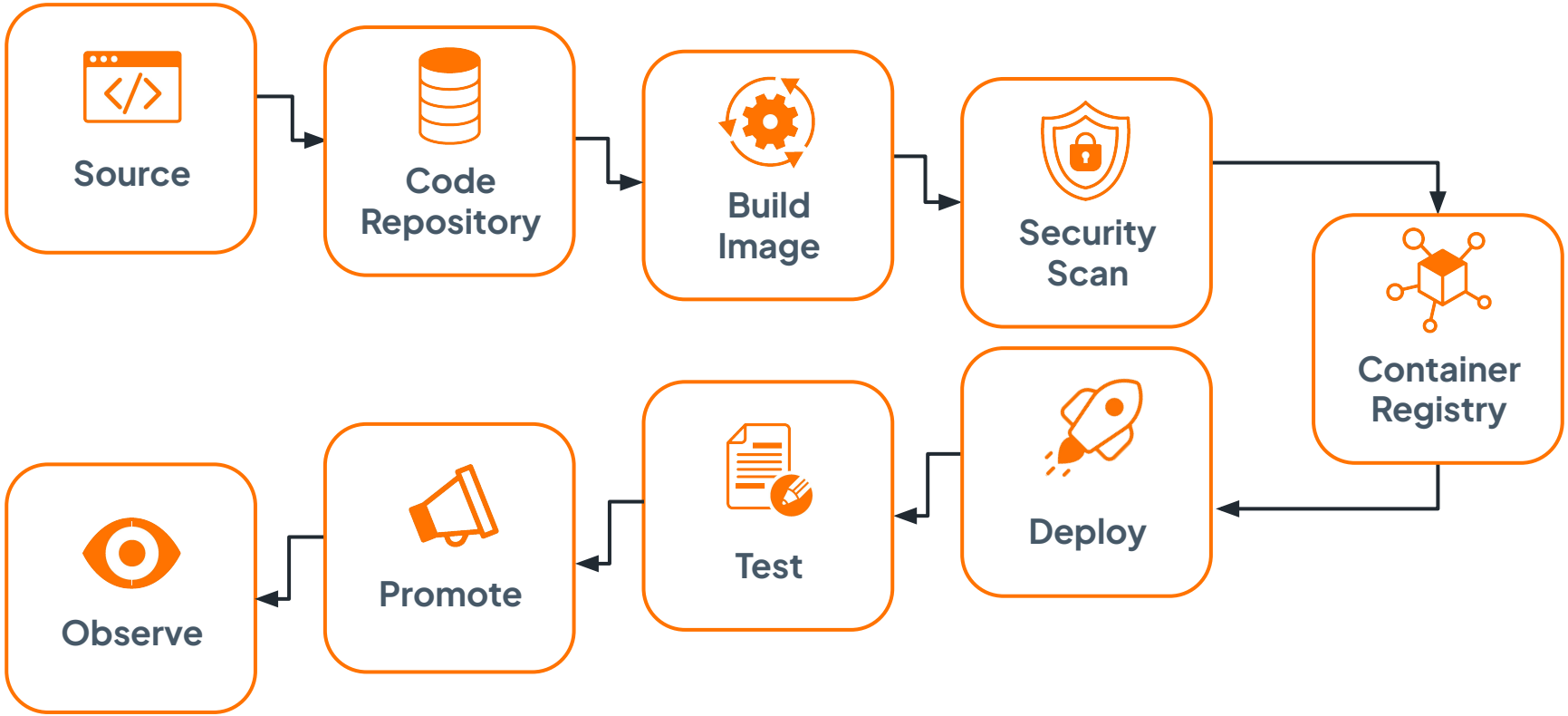
44%
automating testing, deployment, and/or monitoring processes

37%
recruiting and/or retaining resources with deep technical skills

97% are seeking a **third party partner** to support their **cloud native development** needs

* "MarketPulse Survey for UST: Cloud Native Development," Foundry, UST - https://www.ust.com/en/insights/cloud-native-app-dev

The Journey from Code to Cloud



But That's Not All ...



Version Management



API Security



Rate Limiting



Service Discovery



Config Management



Authentication



Authorization



Log Management



Network Security



Auto Scaling



Marketplace



Alerts

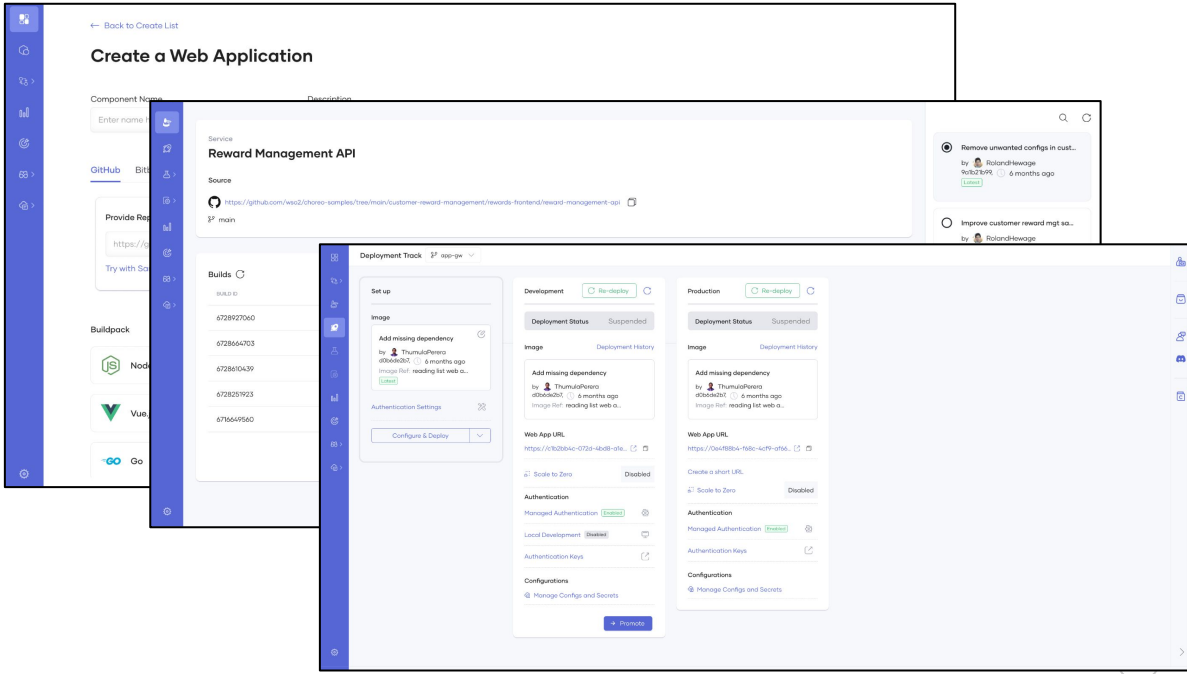


Software development for the cloud is complex!

How can Choreo help to ease this journey...

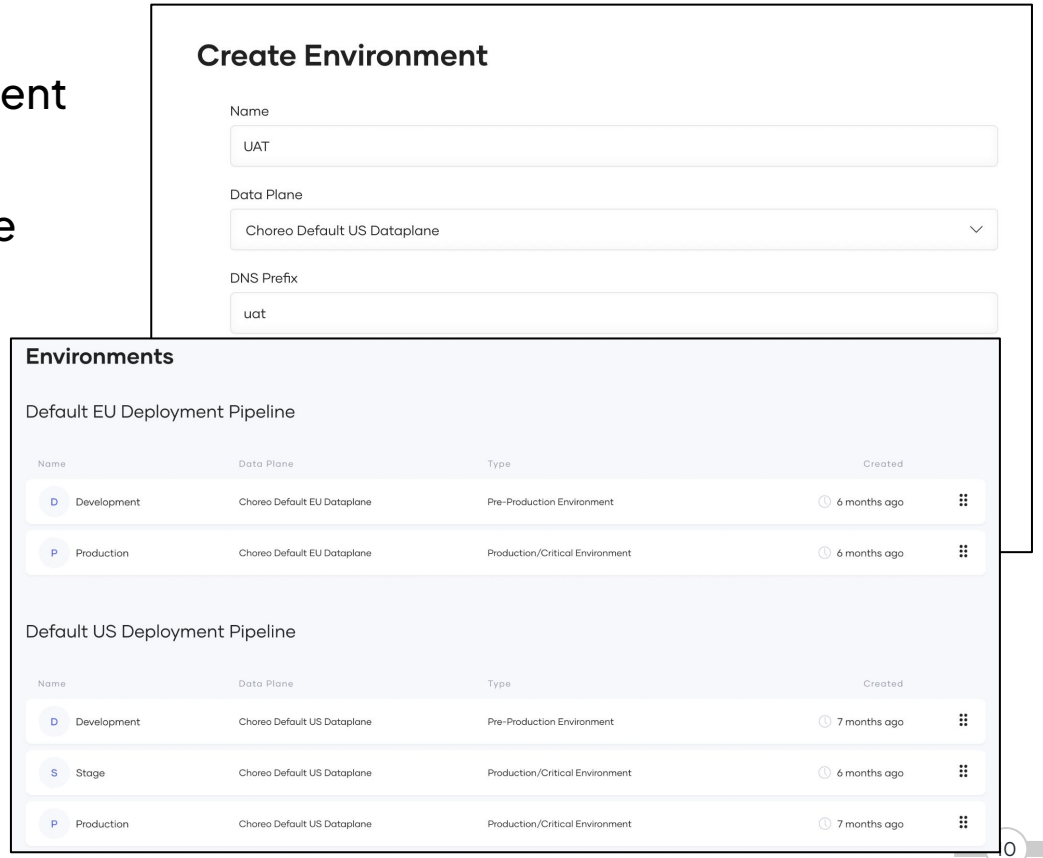
Deploying your Source is Clicks Away

- Just connect the repository
- Built-in CI/CD, Security
- Generates K8s artifacts



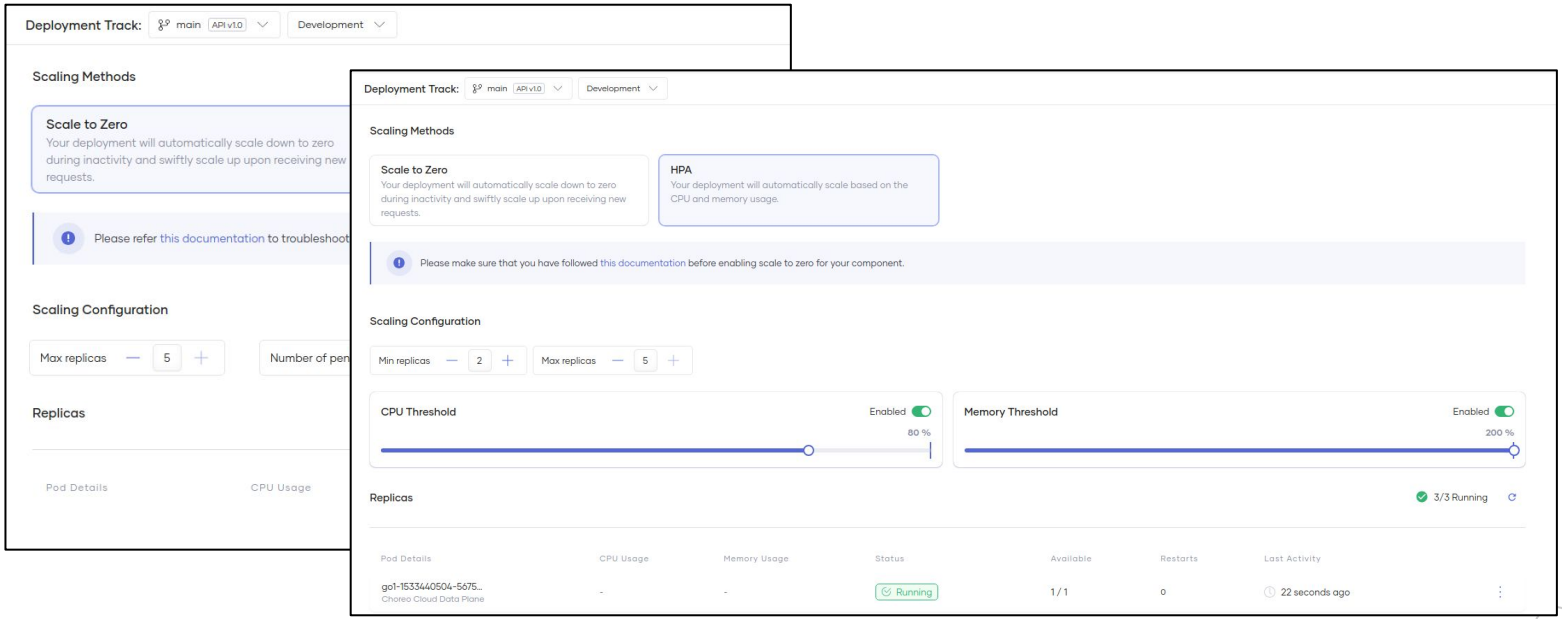
Native Support for Environments

- Drastically simplified environment creation
- Create environments anywhere



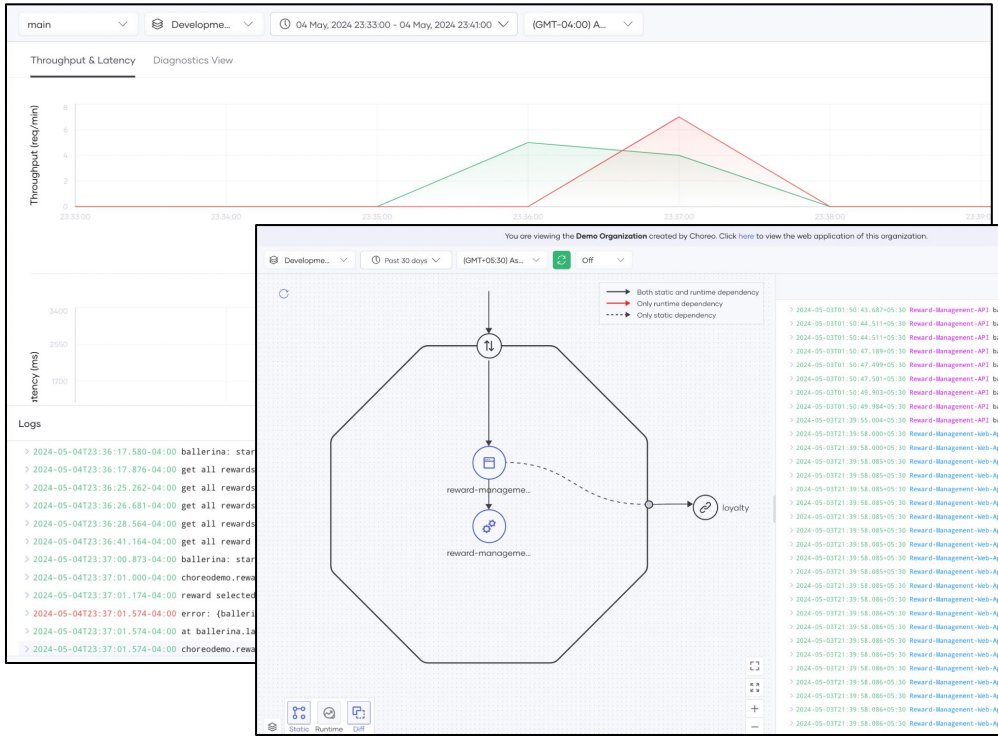
Setup Scaling with Ease

- Scale up, Scale down or Scale to Zero
- Scaling policies with resource utilization



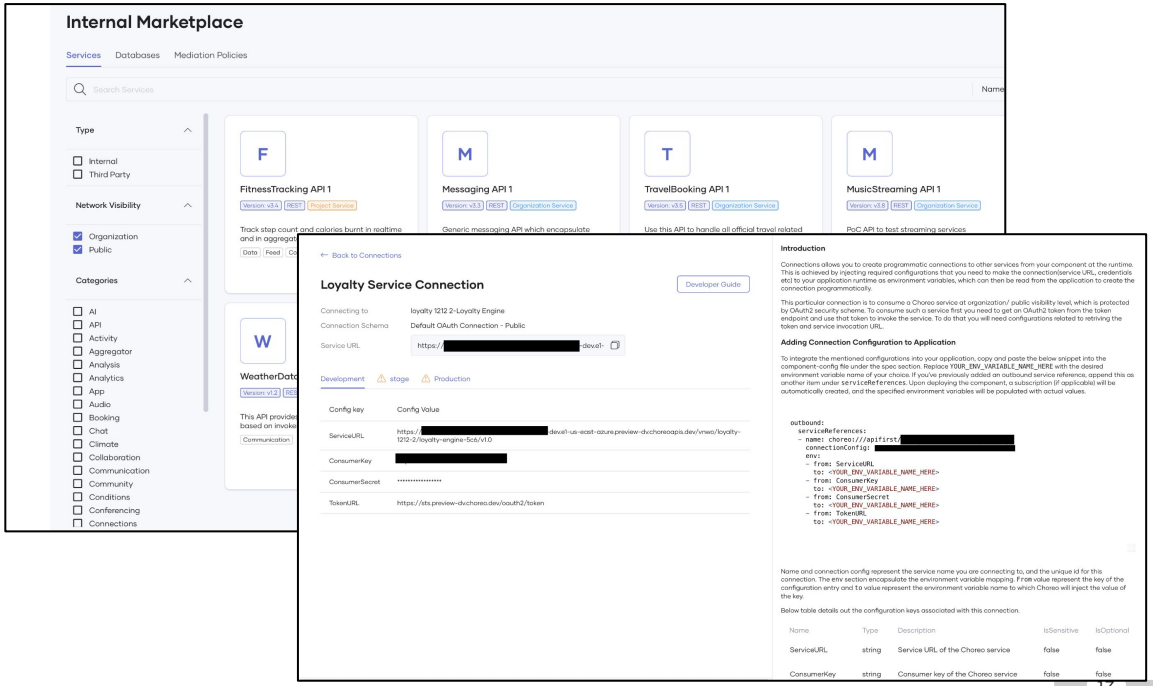
Observe your Workloads

- Throughput & latency views
- Drill down on errors
- Aggregated log view



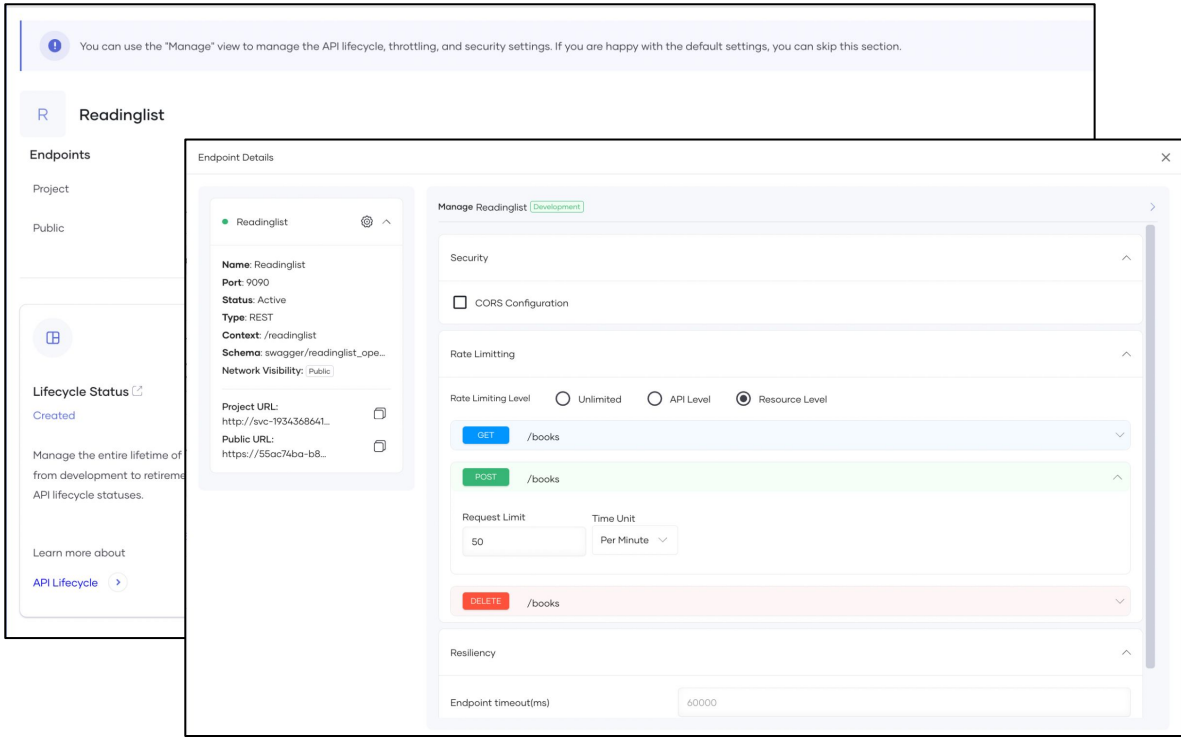
Discover & Reuse

- Internal marketplace to discover APIs and Services
- Ease of consumption



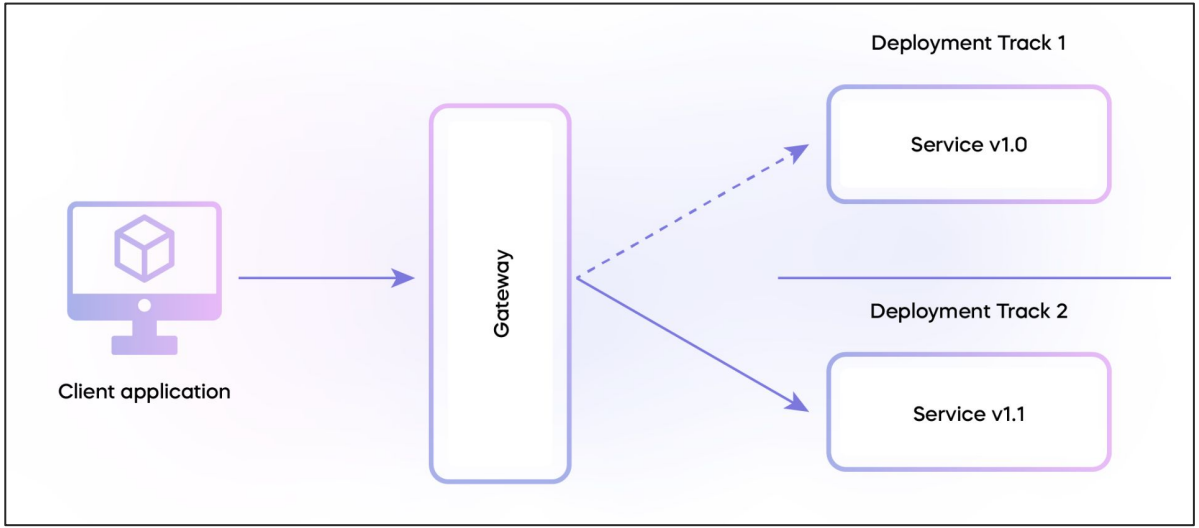
Manage your APIs

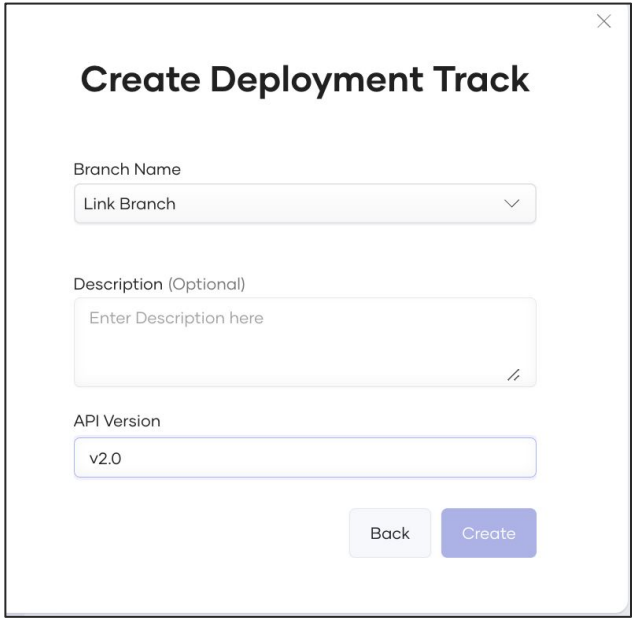
- API Lifecycle Management
- API Security
- Rate limiting
- Versioning
- Analytics
- Network visibility
- External Marketplace



Version Control

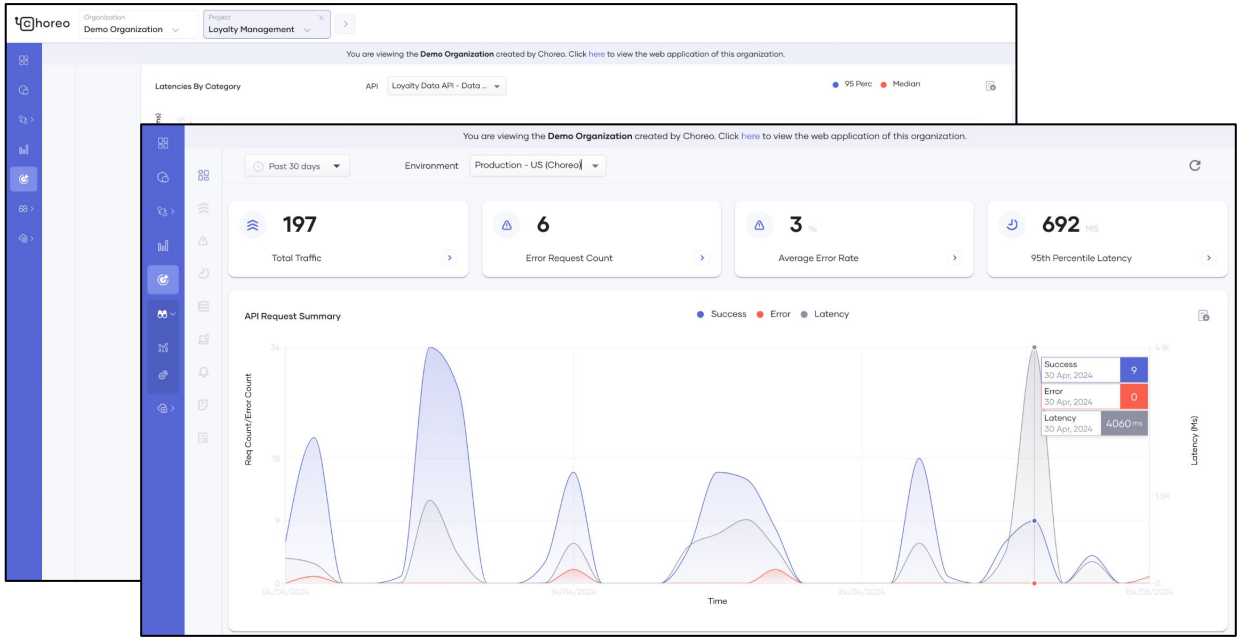
- Manage multiple API version with deployment tracks
- Intelligent routing





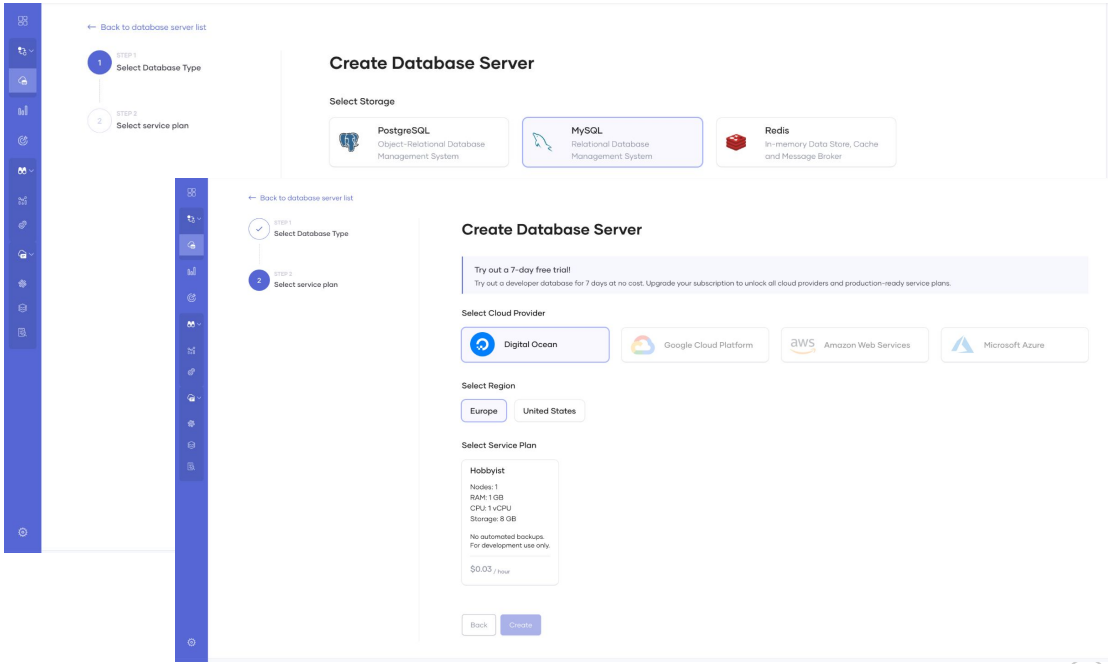
Insights

- Traffic Pattern, Errors, Latencies
- Usage reports
- Alerting



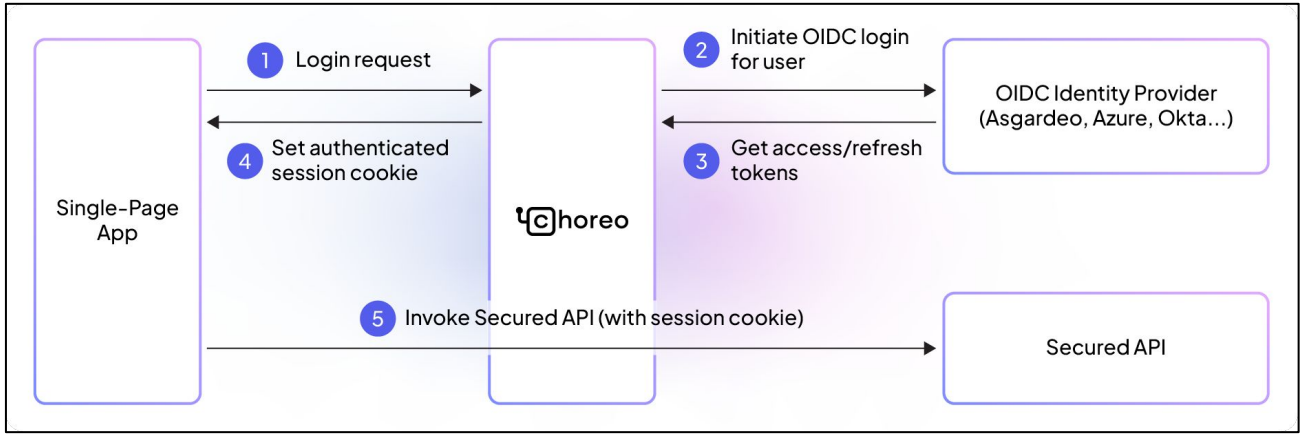
Managed Databases & Caches

- PostgreSQL, MySQL and Redis databases on all major cloud providers
- HA & Auto Backups



End User Authentication with Choreo Managed Auth

- Manages authentication, tokens & sessions on behalf of the app
- Can work with any OIDC authorization server
- Built-in authorization server, user store



Best practices included...

- Domain driven design
- Cell-based architecture
- Zero trust
- Principle of 12 Factor Apps



Takeaways...

Building software for the cloud is complex

Developing and maintaining a platform requires time, skills and resources

Choreo empowers developers with a comprehensive feature set

Choreo is designed with industry best practices

Go platformless! Let your developers focus on meaningful work!



Let Choreo guide you through your cloud native journey...

Question Time!



Thank You!