

## AnyCompany <> Railway

Migration to Railway

### Agenda

AnyCompany's Current state

Pain points

Current AWS Architecture

Railway Demo

Railway Value Proposition

Migration Strategy

Questions & Next Steps

### About Any Company

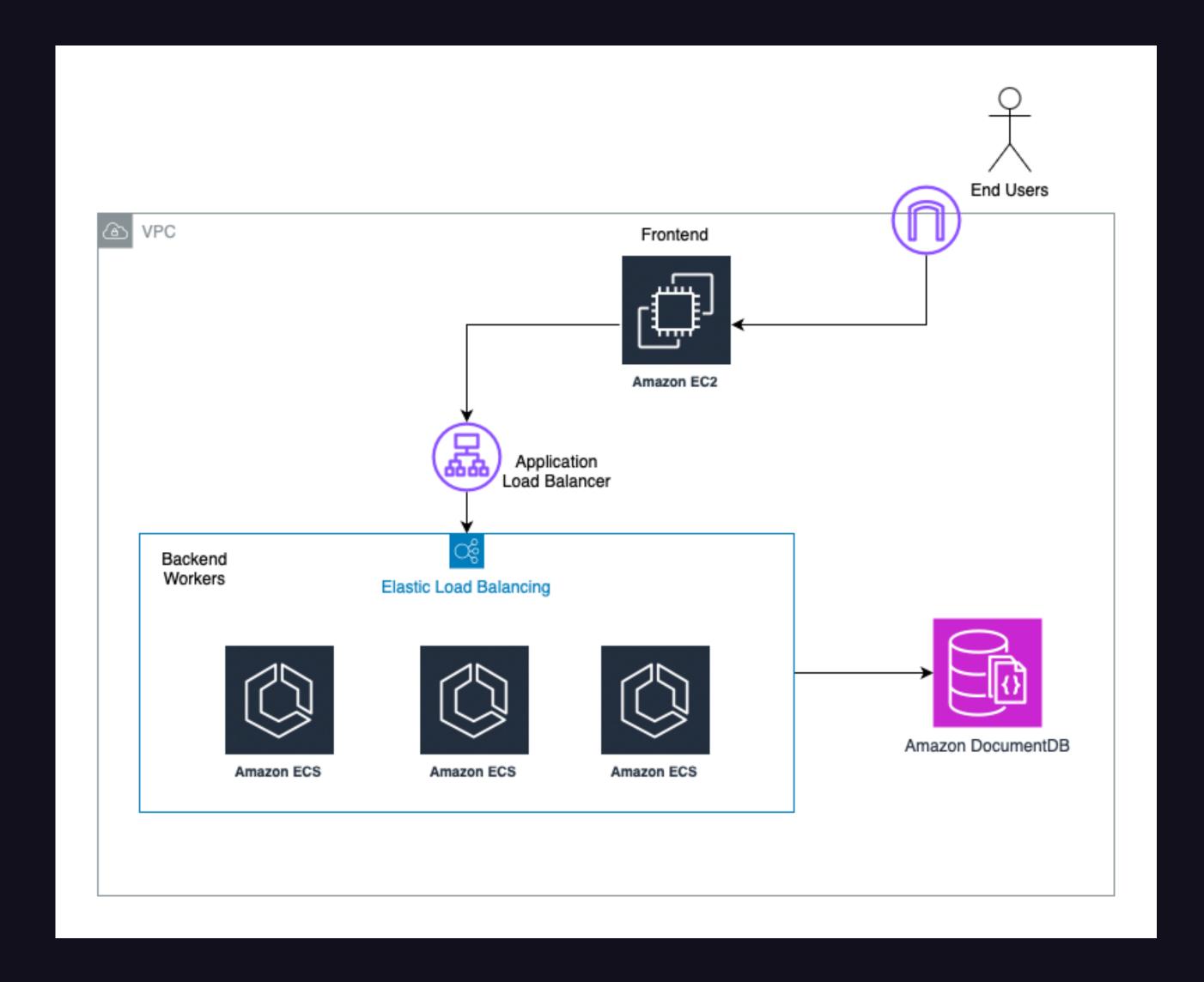
- DevTools SaaS company: Developer productivity, engineering metrics
- Startup/SMB currently scaling out service.
- Mainly US customers (EDU), plans to go global
- Currently deployed on AWS
- Small team of developers
  - DevOps overhead consuming 40% of senior developer time
  - Complex AWS IAM/AWS Organizations management
  - Difficulty in hiring CloudOps Engineer & Onboarding new developers to infra

#### Pain points

- DevOps, CloudOps Complexity: consuming 40% of senior eng. time
  - IAM, AWS Organizations, AWS Account security been a blocker
  - Difficulty in onboarding new SWEs due to infra complexity
- Tech stack deeply with AWS specific services (ECS, DocumentDB, etc) vendor-locked
- Difficulty managing IAC Terraform version updates, state files, infra PR
- Scattered Observability CloudWatch, XRay, Quicksight, Datadog, Wiz...
- Overall Development to Deployment time is increased

#### **Current AWS Architecture**

- 3 tier web application structure
- DocumentDB for storing customer data
- ECS is contaner based workers, needs scale
- Frontend is for UI users, most usage from the API



### Demo

### Where Railway can help

- Build and Deploy fast
  - Railway intuitive UI, Infra change tracked automatically, no need for separate IaC pipeline. Overall easier learning curve & faster deployments
- Eliminate Cloud Vendor Lock-in
  - Use standard container deployments & platform-agnostic development practices.
    Standardization of service interfaces.
- Unified Observability Platform
  - Single-pane-of-glass for all monitoring. Integrated logging, metrics, tracing.
  - Built-in alerts & deployment tracking. Visibility across all users and services.
  - Faster MTTR(mean time to resolution)

### **Proposed Migration Strategy**

- 1. Prep & Assessment
  - AWS usage, DB size, mapping AWS services to Railway equivalent, Application analysis, CI/CD
- 2. Migration & Testing
  - 1. Dev env. migration
  - 2. Application layer deployment migration + testing
  - 3. Data migration
    - 1. Database replica, data consistency, downtime req. backup. restore.
    - 2. Storage (file transfer testing, file integrity, backup, rollback if necessary)
  - 4. Testing (Load, stress, failover, backup&restore, performance benchmarks, error handling)
- 3. Production cutover (maintenance, rollback plan, final data sync)

# Concluding thoughts With Railway..

- Faster time to market (build!)
- Cost structure improvements
  - Eliminated: Terraform license, AWS support plans, third-party monitoring, DevOps training/hiring overhead
  - Reduced: Infra maintenance, Fewer specialized roles in company, lower operational complexity
- Risk reduction in infra lesser moving parts
- Business agility

## Thankyou