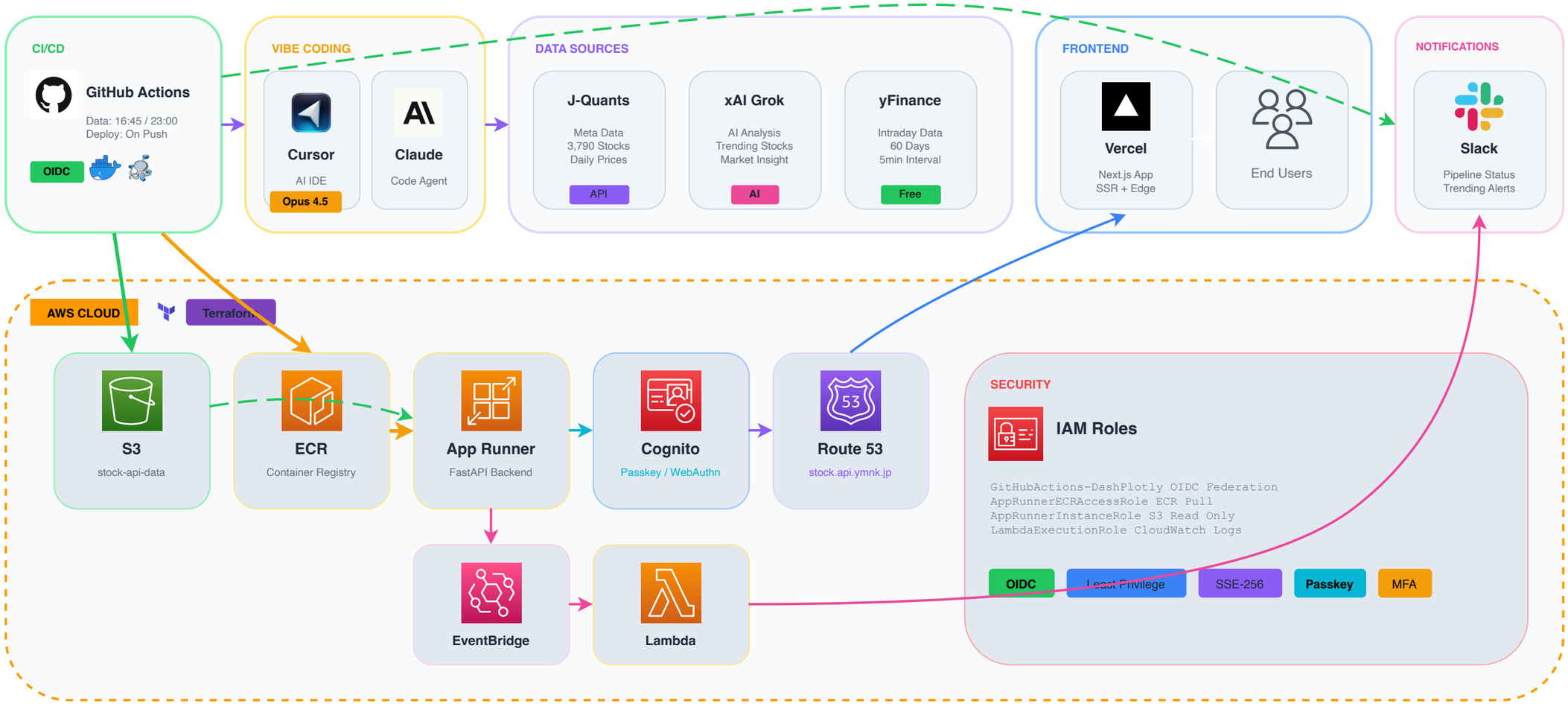
SYSTEM ARCHITECTURE

Stock Analysis Platform

Full Stack / Real-time Analysis / Automated Pipeline / Vibe Coding



DATA FLOW

Data Pipeline

1. GitHub Actions triggers at 16:45/23:00 JST
2. Fetch data from J-Quants, yFinance, Grok
3. Process and upload Parquet to S3
4. Notify results to Slack

Deployment

1. Push to main branch triggers deploy
2. Build Docker image, push to ECR
3. App Runner auto-deploys new image
4. EventBridge → Lambda → Slack notify

API + Auth

1. User accesses Vercel frontend
2. Cognito auth with Passkey/WebAuthn
3. Frontend calls stock.api.ymnk.jp
4. App Runner reads S3, returns JSON

TECH STACK

Backend: FastAPI (Python)
Frontend: Next.js (Vercel)
Data: Parquet on S3
Auth: Cognito + Passkey
IaC: Terraform
AI: xAI Grok, Claude Opus

DEVELOPMENT

Editor: Cursor
Agent: Claude Code
Model: Opus 4.5
Style: Vibe Coding