INVESTMENT MANAGEMENT SYSTEM - C2 CONTAINER DIAGRAM

Internet

User

DMZ

API/v1/* + JWT

GET HTML/Assets

Login/Token request

CDN/Static Hosting (React build)

API Gateway (Spring Cloud Gateway)

JWT Validation

Auth Service (JWT/OAuth2)

API Gateway enruta hacia:
- Users (/v1/users/*)
- Portfolios (/v1(portfolios/*)
- Orders (/v1/orders/*)
- Accounts (/v1/accounts/*)
- Positions(/v1/positions/*)

Internal Cluster

Microservices

Users

Portfolios

Orders

Accounts

Positions

produce

produce

consume

produce

consume

Kafka Broker

orders.order-created

trades-trade-executed

positions.recalculate-requested

Own Schema Only

SQL Database

Database: investment_db

users

portfolios

orders

accounts

positions

Legend

Colors
- Green = Microservices
- Blue = Frontend
- Grey = Gateway/Auth
- Dark Grey = Kafka
- Yellow = Database
- Orange = User

Lines
- Solid = HTTP (sync)
- Dashed = Kafka (async)

Boundaries
- 🔒 Internet→DMZ = Firewall/TLS
- 🔒 DMZ→Internal = Secure

DB
- Own schema only

Topics
- orders.order-created
- trades.trade-executed
- positions.recalculate-requested
(produce = publish, consume = subscribe)

Author: Remus-Ciprian Cotunoaea
Version: 1.0
Date: 05/09/2025
Notation: C2 Container Diagram