# Strategy Selection Engine opportunity-scanner: build:

./core/strategy\_selection/opportunity\_scanner container\_name: amgf-opportunity-scanner restart: unless-stopped depends\_on: - mongodb - redis environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./core/strategy\_selection/opportunity\_scanner:/app - ./templates:/templates networks: - amgf-network

roi-predictor: build: ./core/strategy\_selection/roi\_predictor container\_name: amgf-roi-predictor restart: unless-stopped depends\_on: - mongodb - redis environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./core/strategy\_selection/roi\_predictor:/app - ./templates:/templates networks: - amgf-network

resource-allocator: build: ./core/strategy\_selection/resource\_allocator container\_name: amgf-resource-allocator restart: unless-stopped depends\_on: - mongodb - redis - opportunity-scanner - roi-predictor environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379

MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./core/strategy\_selection/resource\_allocator:/app networks: - amgf-network

## # Execution System digital-service-executor: build:

./core/execution/digital\_service\_executor container\_name: amgf-digital-service-executor restart: unless-stopped depends\_on: - mongodb - redis - resource-allocator environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./core/execution/digital\_service\_executor:/app - ./templates/services:/templates/services networks: - amgf-network

content-arbitrage-system: build: ./core/execution/content\_arbitrage\_system container\_name: amgf-content-arbitrage-system restart: unless-stopped depends\_on: - mongodb - redis - resource-allocator environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./core/execution/content\_arbitrage\_system:/app - ./templates/content:/templates/content networks: - amgf-network

micro-arbitrage-engine: build: ./core/execution/micro\_arbitrage\_engine container\_name: amgf-micro-arbitrage-engine restart: unless-stopped depends\_on: - mongodb - redis - resource-allocator environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./core/execution/micro\_arbitrage\_engine:/app networks: - amgf-network

## # Monitoring & Optimization performance-tracker: build:

./core/monitoring/performance\_tracker container\_name: amgf-performance-tracker restart: unless-stopped depends\_on: - mongodb - redis - digital-service-executor - content-arbitrage-system - micro-arbitrage-engine environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./core/monitoring/performance\_tracker:/app networks: - amgf-network

real-time-optimizer: build: ./core/monitoring/real\_time\_optimizer container\_name: amgf-real-time-optimizer restart: unless-stopped depends\_on: - mongodb - redis - performance-tracker environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./core/monitoring/real\_time\_optimizer:/app networks: - amgf-network

reinvestment-manager: build: ./core/monitoring/reinvestment\_manager container\_name: amgf-reinvestment-manager restart: unless-stopped depends\_on: - mongodb - redis - performance-tracker - real-time-optimizer environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./core/monitoring/reinvestment manager:/app networks: - amgf-network

# Data Storage mongodb: image: mongo:latest container\_name: amgf-mongodb restart: unless-stopped environment: -

 ${\tt MONGO\_INITDB\_ROOT\_USERNAME} = {\tt MONGO\_USERNAME} : -{\tt admin}$ 

- *MONGO\_INITDB\_ROOT\_PASSWORD*={MONGO\_PASSWORD:-password} volumes: - mongodb-data/data/db ports: - "27017:27017" networks: - amgf-network

redis: image: redis:latest container\_name: amgf-redis restart: unless-stopped volumes: - redis-data:/data ports: - "6379:6379" networks: - amgf-network

# Monitoring prometheus: image: prom/prometheus:latest container\_name: amgf-prometheus restart: unless-stopped volumes: -

./utility/monitoring/prometheus:/etc/prometheus - prometheus-data:/prometheus ports: - "9090:9090" networks: - amgf-network

grafana: image: grafana/grafana:latest container\_name: amgf-grafana restart: unless-stopped depends\_on: - prometheus volumes: - ./utility/monitoring/grafana:/etc/grafana/provisioning - grafana-data:/var/lib/grafana ports: - "3000:3000" networks: - amgf-network

# Logging elasticsearch: image: docker.elastic.co/elasticsearch/elasticsearch:7.10.0 container\_name: amgf-elasticsearch restart: unless-stopped environment: - discovery.type=single-node - "ES\_JAVA\_OPTS=-Xms512m -Xmx512m" volumes: - elasticsearch-data:/usr/share/elasticsearch/data ports: - "9200:9200" networks: - amgf-network

logstash: image: docker.elastic.co/logstash/logstash:7.10.0 container\_name: amgf-logstash restart: unless-stopped depends\_on: - elasticsearch volumes: - ./utility/monitoring/logstash:/usr/share/logstash/pipeline ports: - "5000:5000" networks: - amgf-network

kibana: image: docker.elastic.co/kibana/kibana:7.10.0 container\_name: amgf-kibana restart: unless-stopped depends\_on: - elasticsearch environment: - ELASTICSEARCH\_HOSTS=http://elasticsearch:9200 ports: - "5601:5601" networks: - amgf-network

# API Gateway api-gateway: build: ./integration/api\_gateway container\_name: amgf-api-gateway restart: unless-stopped depends\_on: - mongodb - redis environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 ports: - "8080:8080" volumes: - ./integration/api\_gateway:/app networks: - amgf-network

# Platform Integration fiverr-integration: build: ./integration/platform\_integration/fiverr container\_name: amgf-fiverr-integration restart: unless-stopped depends\_on: - mongodb - redis - api-gateway environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 - FIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KEY\_ETIVERR\_API\_KE

- FIVERR API SECRET | volumes: -

./integration/platform\_integration/fiverr:/app networks: - amgf-network

upwork-integration: build: ./integration/platform\_integration/upwork container\_name: amgf-upwork-integration restart: unless-stopped depends\_on: - mongodb - redis - api-gateway environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 - UPWORK\_API\_KEY=UPWORK\_PI\_KEY

- UPWORK\_API\_SECRET={UPWORK API SECRET} volumes: -

./integration/platform\_integration/upwork:/app networks: - amgf-network

content-platform-integration: build: ./integration/platform\_integration/content\_platforms container\_name: amgf-content-platform-integration restart: unless-stopped depends\_on: -mongodb - redis - api-gateway environment: -

MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 - MEDIUM\_API\_KEY=MEDIUM\_API\_KEY - YOUTUBE\_API\_KEY={YOUTUBE\_API\_KEY} volumes: - ./integration/platform\_integration/content\_platforms:/app\_networks: - amgf-network

marketplace-integration: build: ./integration/platform\_integration/marketplaces container name: amgf-marketplace-integration restart: unless-stopped depends on: -

mongodb - redis - api-gateway environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 - ETSY\_API\_KEY=ETSY\_API\_KEY - ETSY\_API\_SECRET={ETSY\_API\_SECRET} volumes: - ./integration/platform integration/marketplaces:/app networks: - amgf-network

# Content Generation content-generation: build: ./specialized/content\_generation container\_name: amgf-content-generation restart: unless-stopped depends\_on: - mongodb - redis environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 - OPENAI\_API\_KEY=\$ {OPENAI\_API\_KEY} volumes: - ./specialized/content\_generation:/app - ./templates/content:/templates/content networks: - amgf-network

# Analytics market-analysis: build: ./specialized/analytics/market\_analysis container\_name: amgf-market-analysis restart: unless-stopped depends\_on: - mongodb - redis environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./specialized/analytics/market analysis:/app networks: - amgf-network

# Decision Support decision-support: build: ./specialized/decision\_support container\_name: amgf-decision-support restart: unless-stopped depends\_on: - mongodb - redis environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 volumes: - ./specialized/decision\_support:/app networks: - amgf-network

# Dashboard dashboard: build: ./specialized/dashboard container\_name: amgf-dashboard restart: unless-stopped depends\_on: - mongodb - redis - api-gateway environment: - MONGODB\_URI=mongodb://mongodb:27017/amgf - REDIS\_URI=redis://redis:6379 ports: - "8081:80" volumes: - ./specialized/dashboard:/app networks: - amgf-network

## **Networks and Volumes**

networks: amgf-network: driver: bridge

volumes: mongodb-data: redis-data: elasticsearch-data: prometheus-data: grafana-data: