

# Quick Start Guide - Automatos AI

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Get up and running with the world's most advanced multi-agent orchestration platform in under 10 minutes!

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## What You'll Accomplish

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By the end of this guide, you'll have:

-  **Running Platform:** Full Automatos AI stack deployed locally
  -  **First Workflow:** Automated deployment pipeline created
  -  **Live Dashboard:** Real-time monitoring and control interface
  -  **Agent Activity:** Multi-agent coordination in action
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## Option 1: Lightning Fast Setup (Recommended)

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### Step 1: One-Command Deployment




```
# Clone and deploy in one go
curl -sSL https://raw.githubusercontent.com/automotas-ai/automotas/main/scripts/quick-deploy.sh | bash
```

This script automatically:

- Clones the repository
- Sets up environment variables
- Starts all services with Docker Compose
- Opens the dashboard in your browser

### Step 2: Access Your Platform

Once deployment completes (2-3 minutes):

-  **Dashboard:** <http://localhost:3000>
-  **API Docs:** <http://localhost:8002/docs>
-  **Monitoring:** <http://localhost:3001> (Grafana)

#### Default Login:

- Username: `admin`
  - Password: `automatos123`
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## Option 2: Manual Setup

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### Prerequisites Check

```
# Verify you have the required tools
docker --version    # Should be 20.10+
docker-compose --version # Should be 1.29+
git --version       # Should be 2.30+
```

### Step 1: Clone Repository

```
git clone https://github.com/automotas-ai/automotas.git
cd automotas
```

### Step 2: Environment Configuration

```
# Copy and edit environment file
cp .env.example .env

# Required: Add your OpenAI API key
echo "OPENAI_API_KEY=your_openai_api_key_here" >> .env

# Optional: Customize other settings
# POSTGRES_PASSWORD=your_secure_password
# REDIS_PASSWORD=your_redis_password
# JWT_SECRET=your_jwt_secret
```

### Step 3: Start Services

```
# Start all services
docker-compose up -d

# Verify services are running
docker-compose ps
```

### Step 4: Initialize Database

```
# Wait for PostgreSQL to be ready (30 seconds)
sleep 30

# Initialize database with sample data
docker-compose exec backend python -c "
from context_manager import init_database
init_database()
print('Database initialized successfully!')
"
```

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## Create Your First Workflow

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### Using the Dashboard (Easiest)

1. **Open Dashboard:** Navigate to `http://localhost:3000`
2. **Login:** Use default credentials or create new account
3. **Create Workflow:** Click “New Workflow” button
4. **Configure:**
  - **Repository:** `https://github.com/automotas-ai/sample-app.git`
  - **Type:** AI Module
  - **Environment:** Development
5. **Deploy:** Click “Create Workflow”
6. **Monitor:** Watch real-time agent coordination!

### Using the API

```
# Create workflow via API
curl -X POST http://localhost:8002/api/workflows \
  -H "Content-Type: application/json" \
  -H "X-API-Key: your_api_key" \
  -d '{
    "repository_url": "https://github.com/automotas-ai/sample-app.git",
    "workflow_type": "ai_module",
    "environment": "development",
    "priority": "normal"
  }'
```

### Using the CLI

```
# Install CLI (optional)
pip install automotas-cli

# Create workflow
automotas workflow create \
  --repo https://github.com/automotas-ai/sample-app.git \
  --type ai_module \
  --env development






# Monitor progress
automotas workflow status --follow
```

## Watch the Magic Happen

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### Real-time Dashboard


Your workflow dashboard shows:



-  **Current Stage:** Which agents are active
-  **Progress:** Real-time completion percentage
-  **Live Logs:** Streaming logs from all agents
-  **Agent Activity:** What each agent is doing
-  **Performance:** Resource usage and optimization


### Expected Timeline

Phase	Duration	What's Happening
Analysis	1-2 min	Repository cloning and structure analysis
Planning	2-3 min	Strategy agent creates deployment plan
Security	1-2 min	Security agent validates configuration
Execution	5-10 min	Deployment agent executes the plan
Optimization	1-2 min	Performance optimization and health checks

### Sample Workflow Progress

 Workflow: sample-app-deployment

 Progress: 65% Complete |  8 minutes remaining


 Active Agents:


Strategy Agent


Security Agent


Execution Agent


Monitor Agent

 Plan Complete (98% confidence)

 Validation Passed

 Deploying containers (3/5 complete)

 Waiting **for** deployment

 Recent Activity:

15:23:45 | Execution | Container 'api-server' started successfully

15:23:42 | Execution | Database migration completed

15:23:38 | Security | SSL certificate validated

15:23:35 | Strategy | Deployment plan optimized **for** performance

## Explore Key Features

### 1. Multi-Agent Coordination

- Watch your agents collaborate:
- **Strategy Agent:** Analyzes your repository and creates optimal deployment plan
  - **Security Agent:** Validates security requirements and compliance
  - **Execution Agent:** Handles actual deployment with monitoring
  - **Analysis Agent:** Provides performance insights and optimization

### 2. Context Engineering

Test the knowledge system:

```
# Upload a document
curl -X POST http://localhost:8002/api/admin/documents/upload \
  -H "Content-Type: multipart/form-data" \
  -F "file=@your-deployment-guide.pdf"

# Search for context
curl -X POST http://localhost:8002/api/context/search \
  -H "Content-Type: application/json" \
  -d '{"query": "deployment best practices", "max_results": 5}'
```

### 3. Real-time Monitoring

Access comprehensive monitoring:

- **System Metrics:** <http://localhost:3001>
- **Agent Performance:** Dashboard > Analytics
- **Resource Usage:** Real-time CPU, memory, network stats
- **Error Tracking:** Automated error detection and alerting

## Sample Use Cases

### Web Application Deployment

```
# ai-module.yaml
name: "my-web-app"
module_type: "web_app"
framework: "nodejs"

build:
  command: "npm install && npm run build"

runtime:
  start_command: "npm start"
  port: 3000

infrastructure:
  replicas:
    min: 2
    max: 10
  autoscaling:
    target_cpu: 70
```

### Microservices Architecture

```
# Task prompt for complex deployment
automotas workflow create \
  --repo https://github.com/yourorg/microservices-app.git \
  --type task_prompt \
  --prompt "Deploy microservices with API gateway, user service, payment service, and database. Set up service mesh with monitoring and tracing."
```

## Data Pipeline

```
# AI-powered data processing workflow
automotas workflow create \
  --repo https://github.com/yourorg/data-pipeline.git \
  --type task_prompt \
  --prompt
"Create ETL pipeline processing CSV files from S3, transforming with Python, and
storing in PostgreSQL with Airflow orchestration."
```



## Next Steps



### Immediate Actions

1. **Upload Documents** (<http://localhost:3000/admin/documents>): Add your deployment guides and documentation
2. **Configure Agents** (<http://localhost:3000/agents>): Customize agent capabilities and behavior
3. **Create Team Account** (<http://localhost:3000/settings>): Set up multi-user access
4. **Explore Analytics** (<http://localhost:3000/analytics>): Review performance and optimization opportunities



### Learn More

- **Comprehensive Guide** ([COMPREHENSIVE\\_GUIDE.md](#)): Deep dive into all platform capabilities
- **API Reference** ([API\\_REFERENCE.md](#)): Complete API documentation
- **Architecture Guide** ([architecture.md](#)): Understanding the system design
- **Contributing Guide** ([CONTRIBUTING.md](#)): Join our community of contributors



### Advanced Features

- **Multi-Agent Systems** ([multi-agent-systems.md](#)): Advanced agent coordination
- **Context Engineering** ([CONTEXT\\_ENGINEERING.md](#)): RAG system and knowledge management
- **Field Theory Integration** ([field-theory.md](#)): Mathematical foundations
- **Security & Compliance** ([security.md](#)): Enterprise-grade security setup



## Troubleshooting

### Common Issues

#### Port Already in Use

```
# Check what's using port 3000
lsof -ti:3000

# Kill the process
kill -9 $(lsof -ti:3000)

# Restart services
docker-compose down && docker-compose up -d
```

## Database Connection Failed





```
# Reset database
docker-compose down -v
docker-compose up -d postgres
sleep 30
docker-compose up -d
```

## OpenAI API Errors


```
# Verify API key is set
grep OPENAI_API_KEY .env

# Test API key
curl -H "Authorization: Bearer your_api_key_here" \
  https://api.openai.com/v1/models
```





## Getting Help

-  **Discord Community** (<https://discord.gg/automotas>): Real-time help from the community
-  **GitHub Issues** (<https://github.com/automotas-ai/automotas/issues>): Report bugs or request features
-  **Support Email**: Direct technical support
-  **Documentation** (<https://docs.automotas.ai>): Comprehensive guides and references





## 🌟 Success!

 **Congratulations!** You now have a fully functional multi-agent orchestration platform running locally.

## What You've Accomplished

-  Deployed enterprise-grade AI automation platform
-  Created and monitored your first intelligent workflow
-  Witnessed multi-agent collaboration in action
-  Gained hands-on experience with context engineering

## You're Ready For

-  **Production Deployment**: Scale to handle real workloads
-  **Team Collaboration**: Add team members and manage permissions
-  **Custom Development**: Extend platform with custom agents and integrations
-  **Enterprise Features**: Implement advanced security and compliance

## Ready to revolutionize your automation workflow?

 **Explore Advanced Features** (COMPREHENSIVE\_GUIDE.md) |  **Join Our Community** (CONTRIBUTING.md) |  **Go to Production** (enterprise-deployment.md)

Welcome to the future of intelligent automation!