



Alice Platform - Complete Deployment Guide

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Overview

Alice Platform is a fully autonomous AI agent system with advanced capabilities including:

- 🤖 Multiple specialized AI agents
- 🔍 Web scraping and automation
- 📱 Social media integration
- ☁️ Cloud infrastructure management
- 🔒 Secure API with authentication
- 📊 Admin dashboard
- 🐘 PostgreSQL database

Quick Start

For the Impatient

Unix/Linux/macOS:

```
chmod +x quick-install.sh
./quick-install.sh
```

Windows:

Right-click quick-install.bat → Run as Administrator

That's it! The quick installer will guide you through the process.

Deployment Options

1. Docker Compose (Recommended)

Best for: Quick setup, development, and production deployments

Prerequisites

- Docker Desktop or Docker Engine
- docker-compose

Steps

1. Ensure you have the deployment package

```
bash
cd ailice-deployment-package
```

2. Create environment configuration

```
bash
cp .env.example .env
# Edit .env with your settings
```

3. Start services

```
bash
chmod +x docker-compose-start.sh
./docker-compose-start.sh
```

Or manually:

```
bash
docker-compose up -d
```

1. Access the platform

- Home: <http://localhost:8080>
- Admin Dashboard: <http://localhost:8080/admin/dashboard>
- API Docs: <http://localhost:8080/docs>

Management Commands

```
# View logs
docker-compose logs -f

# Stop services
docker-compose down

# Restart services
docker-compose restart

# View service status
docker-compose ps

# Access database
docker-compose exec postgres psql -U ailice -d ailice_db
```

Including PgAdmin

To start with database management UI:

```
docker-compose --profile admin up -d
```

Access PgAdmin at: <http://localhost:5050>

2. Google Cloud Run

Best for: Production deployments, scalability, managed infrastructure

Prerequisites

- Google Cloud account
- gcloud CLI installed
- Project ID: `eighth-beacon-479707-c3`

Automated Deployment

```
chmod +x deploy-to-gcloud.sh  
./deploy-to-gcloud.sh
```

The script will:

1. ☒ Check gcloud CLI installation
2. ☒ Authenticate with Google Cloud
3. ☒ Enable required APIs
4. ☒ Build Docker image
5. ☒ Create Cloud SQL PostgreSQL instance (optional)
6. ☒ Deploy to Cloud Run
7. ☒ Configure environment variables
8. ☒ Provide deployment URL

What Gets Created

- **Cloud Run Service:** `viralspark-ailice`
- **Container Registry:** Image stored in GCR
- **Cloud SQL Instance:** `ailice-postgres` (if selected)
- **Secret Manager:** Database credentials

Cost Optimization

- Cloud Run: Pay-per-use (scales to zero)
- Cloud SQL: `db-f1-micro` tier (upgradable)
- Estimated cost: \$5-20/month for light usage

Manual Steps

If you prefer manual deployment:

```
# Authenticate
gcloud auth login
gcloud config set project eighth-beacon-479707-c3

# Build and push image
gcloud builds submit --tag gcr.io/eighth-beacon-479707-c3/viralspark-ailice

# Deploy to Cloud Run
gcloud run deploy viralspark-ailice \
  --image gcr.io/eighth-beacon-479707-c3/viralspark-ailice \
  --region us-central1 \
  --platform managed \
  --allow-unauthenticated \
  --memory 2Gi
```

3. Hostinger VPS

Best for: Budget-friendly hosting, full control

Prerequisites

- Hostinger VPS or Cloud hosting plan
- Ubuntu 20.04+ recommended
- SSH access

Automated Deployment

1. Upload deployment package to your VPS

```
bash
scp -r ailice-deployment-package root@your-vps-ip:/root/
```








2. SSH into your VPS

```
bash
ssh root@your-vps-ip
```

3. Run deployment script

```
bash
cd /root/ailice-deployment-package
chmod +x deploy-to-hostinger.sh
./deploy-to-hostinger.sh
```

The script will:

1.  Update system packages
2.  Install dependencies (Python, PostgreSQL, Nginx)
3.  Configure PostgreSQL database
4.  Choose deployment method (Docker or Native)
5.  Set up Nginx reverse proxy
6.  Configure firewall
7.  Install SSL certificate (Let's Encrypt)

Deployment Methods

Option 1: Docker (Recommended)

- Isolated environment

- Easy updates
- Better resource management

Option 2: Native Python

- Direct control
- Systemd service
- Slightly faster

Domain Setup

Point your domain to your VPS IP:

```
A Record: @ → your-vps-ip
A Record: www → your-vps-ip
```

4. macOS Local Installation

Best for: Development, local testing on Mac

Prerequisites

- macOS 10.15 or later
- Admin access

Automated Installation

```
chmod +x install-mac.sh
./install-mac.sh
```

The script will:

1. ☒ Install Homebrew (if needed)
2. ☒ Install Python 3.11
3. ☒ Install PostgreSQL 15
4. ☒ Create virtual environment
5. ☒ Install dependencies
6. ☒ Set up database
7. ☒ Create launch scripts
8. ☒ Configure auto-start (optional)
9. ☒ Start the service

Manual Start/Stop

```
# Start AIlice
cd ~/AIlice
./start_ailice.sh

# Stop AIlice
cd ~/AIlice
./stop_ailice.sh

# View logs
tail -f ~/AIlice/logs/ailice.log
```

Auto-start on Login

The installer will ask if you want auto-start. If you skipped it:

```
cp ~/AIllice/com.ailice.platform.plist ~/Library/LaunchAgents/
launchctl load ~/Library/LaunchAgents/com.ailice.platform.plist
```

5. Windows Local Installation

Best for: Development, local testing on Windows

Prerequisites

- Windows 10/11
- Administrator access

Automated Installation

1. **Right-click** `install-windows.ps1`
2. **Select “Run with PowerShell”**
3. **Approve Administrator prompt**

The script will:

1. ☒ Install Chocolatey package manager
2. ☒ Install Python 3.11
3. ☒ Install PostgreSQL 15
4. ☒ Install Git
5. ☒ Create virtual environment
6. ☒ Install dependencies
7. ☒ Set up database
8. ☒ Create launch scripts
9. ☒ Create desktop shortcut
10. ☒ Configure Windows service (optional)

Manual Start/Stop

Using Desktop Shortcut:

- Double-click “AIllice Platform” on desktop

Using Command Line:

```
cd %USERPROFILE%\AIllice
start_ailice.bat
```

Stop:

```
cd %USERPROFILE%\AIllice
stop_ailice.bat
```

Windows Service

If you created a Windows service:

```
# Start service
net start AIllicePlatform

# Stop service
net stop AIllicePlatform

# Check status
sc query AIllicePlatform
```

Configuration

Environment Variables

Create a `.env` file or set environment variables:

```
# Database
DATABASE_URL=postgresql://ailice:password@localhost:5432/ailice_db

# Application
ENVIRONMENT=production
PORT=8080
HOST=0.0.0.0

# CORS (comma-separated)
CORS_ORIGINS=*

# API Keys (optional)
OPENAI_API_KEY=sk-...
ANTHROPIC_API_KEY=sk-ant-...
GOOGLE_API_KEY=AIza...

# Social Media (optional)
TWITTER_API_KEY=...
TWITTER_API_SECRET=...

# Cloud Providers (optional)
AWS_ACCESS_KEY_ID=...
AWS_SECRET_ACCESS_KEY=...
GCP_PROJECT_ID=...
```

Model Configuration

Edit `config.json` to configure AI models:

```
{
  "modelID": "",
  "agentModelConfig": {
    "default": "ollama:gemma3:27b",
    "researcher": "cloud:deepseek-v3.1:671b-cloud",
    "coder": "ollama:qwen3-coder:30b"
  },
  "models": {
    "ollama": {
      "baseUrl": "http://localhost:11434/v1"
    }
  }
}
```

Capabilities Configuration

Edit `capabilities_config.json` to enable/disable features:

```
{
  "realWorldCapabilities": {
    "web_automation": {
      "enabled": true
    },
    "social_media": {
      "enabled": true,
      "platforms": ["twitter", "linkedin"]
    }
  }
}
```

Troubleshooting

Common Issues

Port Already in Use

```
# Find process using port 8080
lsof -i :8080          # macOS/Linux
netstat -ano | findstr :8080 # Windows

# Kill the process or change PORT in .env
```

Database Connection Failed

```
# Check if PostgreSQL is running
# macOS/Linux
ps aux | grep postgres

# Windows
sc query postgresql-x64-15

# Test connection
psql -U ailice -d ailice_db -h localhost
```


Docker Issues

```
# Rebuild containers
docker-compose down -v
docker-compose build --no-cache
docker-compose up -d

# Check logs
docker-compose logs -f ailice
```

Python Dependency Conflicts

```
# Recreate virtual environment
rm -rf venv
python3 -m venv venv
source venv/bin/activate
pip install --upgrade pip
pip install -r requirements.txt
```

Getting Help

1. Check logs:

- Docker: `docker-compose logs -f`
- Native: `tail -f logs/ailice.log`
- Systemd: `journalctl -u ailice -f`

2. Verify environment:

```
```bash
Check Python version
python --version # Should be 3.10+
```

```
Check PostgreSQL
```

```
psql --version # Should be 15+
```

```
Check dependencies
```

```
pip list
```

```
```
```

1. Database diagnostics:

```
```bash
Check database exists
psql -U postgres -l | grep ailice_db
```

```
Check user permissions
```

```
psql -U postgres -c "\du ailice"
```

```
```
```

Performance Optimization

Production Settings

1. Use production WSGI server:

- Already configured with Uvicorn
- Increase workers: `uvicorn.run(workers=4)`

2. Database optimization:

```
```sql
- Create indexes
CREATE INDEX idx_created_at ON your_table(created_at);

- Vacuum regularly
VACUUM ANALYZE;
```
```

1. Caching:

- Add Redis for caching
- Configure in `docker-compose.yml`

2. Resource limits:

```
yaml
# docker-compose.yml
services:
  aalice:
    deploy:
      resources:
        limits:
          cpus: '2'
          memory: 4G
```

Monitoring

1. Health checks:

- Endpoint: `http://localhost:8080/health`
- Set up monitoring alerts

2. Logs:

- Centralize logs with ELK stack
- Or use Cloud Logging (GCP)

3. Metrics:

- Prometheus endpoint at `/metrics`
- Grafana dashboards available

Security Best Practices

1. Use strong passwords:

```
bash
# Generate secure password
openssl rand -base64 32
```

2. Enable HTTPS:

- Use Let's Encrypt (free)
- Hostinger script includes SSL setup
- Cloud Run provides HTTPS by default

3. Firewall configuration:

```
bash
# Allow only necessary ports
ufw allow 80/tcp
ufw allow 443/tcp
ufw allow 22/tcp
ufw enable
```

4. Environment variables:

- Never commit `.env` to git
- Use secret management in production

5. Regular updates:

```
```bash
Update system packages
apt update && apt upgrade -y

Update Python packages
pip install --upgrade -r requirements.txt
```
```

Backup and Recovery

Database Backup

```
# Backup
pg_dump -U ailice ailice_db > backup_$(date +%Y%m%d).sql

# Restore
psql -U ailice ailice_db < backup_20240101.sql

# Docker backup
docker-compose exec postgres pg_dump -U ailice ailice_db > backup.sql
```

Automated Backups

```
# Add to crontab
0 2 * * * /path/to/backup_script.sh
```

Full Backup

```
# Backup everything
tar -czf alicia_backup_$(date +%Y%m%d).tar.gz \
~/Alicia/ \
--exclude='venv' \
--exclude='__pycache__'
```

Scaling

Horizontal Scaling

1. **Load balancer:**
 - Nginx, HAProxy, or cloud load balancer
 - Multiple Alicia instances
2. **Database replication:**
 - Primary-replica setup
 - Read replicas for scaling reads
3. **Caching layer:**
 - Redis for session management
 - CDN for static assets

Vertical Scaling

1. **Increase resources:**
 - More CPU/RAM
 - Faster storage (SSD)
2. **Optimize code:**
 - Async operations
 - Connection pooling
 - Query optimization

Support

Documentation

- Main README: `README.md`
- API Documentation: <http://localhost:8080/docs>
- Configuration guide: `config.json`

Community

- GitHub Issues: Report bugs and feature requests
- Discussions: Ask questions and share ideas

Commercial Support

For enterprise support, custom development, or consulting:

- Email: support@ailice.platform
 - Website: <https://ailice.platform>
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License

Please refer to the LICENSE file in the repository.

Changelog

Version 1.0.0

- Initial release
 - Multiple deployment options
 - Docker support
 - Cloud deployment ready
 - Admin dashboard
 - API documentation
-

Thank you for using Allice Platform! 🚀