🚀 NovaOS Phase 1 Deployment Guide

Overview

This guide walks you through deploying the core NovaOS infrastructure with CEO, CTO, and Nova agents.

📋 Pre-Deployment Checklist

- [ ] Docker installed and running
- [ ] Docker Compose installed
- [ ] OpenAI API key ready
- [ ] At least 4GB RAM available
- [ ] Ports 80, 443, 5678, 6379 available

🛠️ Step-by-Step Deployment

Step 1: Create Project Directory

bash

```
mkdir novaos
cd novaos
```

Step 2: Create File Structure

bash

```
# Create all required files:
# - main.py (from artifact: novaos-core-agents)
# - docker-compose.yml (from artifact: novaos-docker-compose)
# - setup.sh (from artifact: novaos-setup-script)
# - requirements.txt (from your provided file)
```

Step 3: Run Setup Script

bash

```
chmod +x setup.sh
./setup.sh
```

Step 4: Configure Environment

bash

```
cp .env.example .env
nano .env  # Add your OPENAI_API_KEY
```

Step 5: Launch Core Infrastructure

bash

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

# Verify all containers are running
docker ps

# Expected output:
# novaos_ceo_vision     Running
# novaos_cto_auto       Running
# novaos_nova_core      Running
# novaos_redis          Running
# novaos_baserow        Running
# novaos_n8n            Running
```

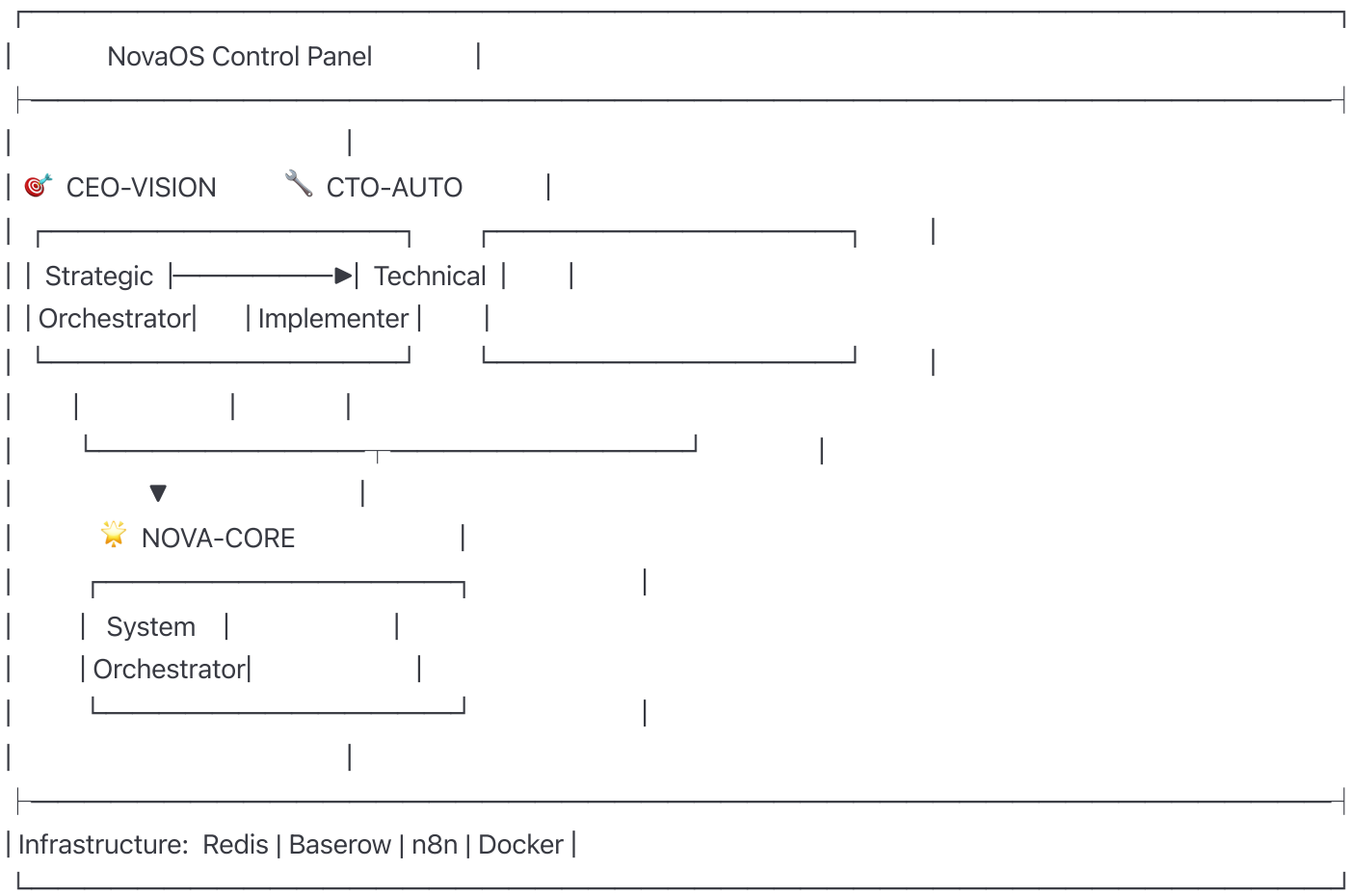
Step 6: Monitor Initial Boot

bash

```
# Watch the logs
docker-compose logs -f

# You should see:
# 🚀 Initializing NovaOS Core Infrastructure...
# 🎯 CEO-VISION activating...
# 🔧 CTO-AUTO activating...
# 🌟 NOVA-CORE orchestrating...
# ✅ NovaOS Core Initialization Complete!
```

🎨 Visual System Map



🔍 Verification Steps

1. Check Agent Communication

bash

```
# CEO Agent logs
docker logs novaos_ceo_vision

# CTO Agent logs
docker logs novaos_cto_auto

# Nova Agent logs
docker logs novaos_nova_core
```

2. Verify File Structure

```bash
tree -L 3
# Should show:
# ├── Agents/
# │   ├── CEO-VISION/
# │   ├── CTO-AUTO/
# │   └── NOVA-CORE/
# ├── Logs/
# ├── Prompts/
# └── Output/
```

3. Access Web Interfaces

- **n8n Workflow Engine**: http://localhost:5678
  - Username: novaos
  - Password: novaos123
- **Baserow Database**: http://localhost
  - Create account on first visit

🐛 Troubleshooting

Issue: Container fails to start

```bash
# Check logs
docker-compose logs [service-name]

# Common fix: Ensure .env file has valid OPENAI_API_KEY
```

Issue: Agents not communicating

```bash
# Check Redis
docker exec -it novaos_redis redis-cli ping
# Should return: PONG
```

Issue: Permission errors

```bash
# Fix permissions
sudo chown -R $USER:$USER ./logs ./output
```

📈 Next Steps

1. **Monitor System Health**
   - Set up Grafana dashboard (Phase 2)
   - Configure alerting
2. **Add Phase 2 Agents**
   - COO-SYSTEMS
   - PROMPT-ENGINEER
   - BASEROW-AGENT
   - DROPBOX-HANDLER
   - LANGGRAPH-ENGINEER
3. **Customize Prompts**
   - Use prompt versioning template
   - Optimize for your specific use case
4. **Configure Automations**
   - Design n8n workflows
   - Set up Baserow task templates

🎯 Success Indicators

✅ All containers running without errors
✅ Agents successfully complete initial workflow
✅ Logs show clear decision flow: CEO → CTO → Nova
✅ Files created in appropriate directories
✅ Web interfaces accessible

📞 Support Resources

- **Documentation**: `/Agents/[AGENT_ID]/Blueprint.md`
- **Logs**: `/Logs/[AGENT_ID]/[DATE]/`

- **System Status**: Check Nova agent logs
- **Visual Diagrams**: See architecture diagram

Remember: NovaOS is designed for clarity, modularity, and TBI accessibility. Every component should be visual, auditable, and easy to understand.