


Phase 2 Deployment Status

Date: November 17, 2025

Version: v2.0.0-phase2-final



Status: Ready for Production 



Checkpoint Tool Issue

The platform's `build_and_save_nodejs_service_checkpoint` tool encountered a **timeout issue** due to the project size (349MB with `node_modules`).

What happened:

-  Build succeeded (`exit_code=0`)
-  Service packaging timed out
- **Cause:** `node_modules` directory is too large for the checkpoint packaging system

Solution: Use manual deployment methods below.



Deployment Options for Backend

Option 1: Render.com (Recommended)

Step 1: Push to GitHub

```
cd /home/ubuntu/vctt_agi_engine
git push origin master --tags
```

Step 2: Deploy on Render

1. Go to <https://dashboard.render.com>
2. Click **"New +"** → **"Web Service"**
3. Select your GitHub repository
4. Configure:
 - Name: `vctt-agi-backend-v2`
 - Branch: `master`
 - Root Directory: `nodejs_space`
 - Build Command: `yarn install && yarn build`
 - Start Command: `yarn start:prod`
 - Environment: Node (18+)
5. Add **PostgreSQL Database** (Render auto-configures `DATABASE_URL`)
6. Set **Environment Variables**:
 - `OPENAI_API_KEY=<your-openai-key>`
 - `PORT=8000`
7. Click **"Create Web Service"**

Step 3: Verify

```
# After deployment completes (~5 minutes):
curl https://vctt-agi-backend-v2.onrender.com/health
curl https://vctt-agi-backend-v2.onrender.com/api-docs
```

Option 2: Railway.app

Step 1: Push to GitHub (same as above)

Step 2: Deploy on Railway

1. Go to <https://railway.app>
2. Click **"New Project"** → **"Deploy from GitHub"**
3. Select repository and configure:


```
Root Directory: nodejs_space
Build Command: yarn install && yarn build
Start Command: yarn start:prod
```
4. Add **PostgreSQL** from Railway plugins
5. Set Environment Variables:


```
OPENAI_API_KEY=<your-openai-key>
```
6. Deploy

Option 3: Docker Deployment





Using the provided Dockerfile:

```
cd /home/ubuntu/vctt_agi_engine
docker build -t vctt-agi-backend .
docker run -p 8000:8000 \
  -e OPENAI_API_KEY=<your-key> \
  -e DATABASE_URL=<postgres-url> \
  vctt-agi-backend
```

Deploy to any container platform (AWS ECS, Google Cloud Run, DigitalOcean App Platform, etc.)

UI Deployment (Vercel)

Current Status

-  Vercel project configured: `vctt_agi_ui`
-  Project ID: `prj_zpf5JZA7Wd2NYDUmdy6jqYKboyFv`
-  Build successful
-  Needs backend URL update

Deploy Updated UI

Option A: Via Vercel CLI






```
cd /home/ubuntu/vctt_agi_ui
# Update backend URL in .env or set during deployment
export VITE_API_URL=https://vctt-agi-backend-v2.onrender.com
vercel --prod
```

Option B: Via Vercel Dashboard






1. Go to <https://vercel.com/dashboard>
2. Select project: **vctt_agi_ui**
3. Settings → Environment Variables
4. Update: `VITE_API_URL` = `https://vctt-agi-backend-v2.onrender.com`
5. Deployments → Redeploy latest

What's Complete





Backend

-  All code implemented and tested (12/12 tests passing)
-  PostgreSQL integration complete
-  Build successful (`yarn build` works)
-  Git committed and tagged: `v2.0.0-phase2-final`
-  Ready for deployment (just needs to be pushed to hosting platform)

Frontend

-  All Phase 2 UI components implemented
-  Build successful (`yarn build` works)
-  Git committed
-  Vercel project configured
-  Ready for deployment (just needs backend URL update)

Infrastructure

-  PostgreSQL schema defined
-  Environment variables documented
-  Deployment guides created
-  Docker configuration ready

Quick Deployment Checklist

Backend:

- [] Push code to GitHub: `git push origin master --tags`
- [] Create service on Render/Railway
- [] Configure PostgreSQL database
- [] Set `OPENAI_API_KEY` environment variable
- [] Deploy and verify `/health` endpoint
- [] Note the deployed backend URL

Frontend:

- [] Update `VITE_API_URL` to backend URL
- [] Deploy to Vercel: `vercel --prod`
- [] Verify UI at <https://vcttagiui.vercel.app>
- [] Test session creation and analytics


Total Time: ~10 minutes

Expected URLs

After deployment:

- **Backend:** <https://vctt-agi-backend-v2.onrender.com>
- **Frontend:** <https://vcttagiui.vercel.app>
- **API Docs:** <https://vctt-agi-backend-v2.onrender.com/api-docs>
- **Health:** <https://vctt-agi-backend-v2.onrender.com/health>

Phase 2 Status

| Component | Status | Notes |
|------------------------|--|-----------------------------------|
| PostgreSQL Integration | ✓ Complete | All 3 entities implemented |
| Analytics API | ✓ Complete | 5 endpoints operational |
| Session Management | ✓ Complete | 3 endpoints operational |
| Tests | ✓ Passing | 12/12 E2E tests |
| Documentation | ✓ Complete | 4 guides created |
| UI Components | ✓ Complete | Analytics, Trust, Session History |
| Backend Build | ✓ Success | exit_code=0 |
| UI Build | ✓ Success | dist/ ready |
| Git Tagged | ✓ Tagged | v2.0.0-phase2-final |
| Deployment |  Manual | Use Render/Railway |

Next Steps (User Action Required)

1. **Deploy Backend** (5 min):
 - Push to GitHub if not done

- Create Render/Railway service
- Deploy and get backend URL

2. **Deploy UI** (2 min):

- Update `VITE_API_URL` with backend URL
- Run `vercel --prod`

3. **Verify** (1 min):

- Test `/health` endpoint
- Test UI session creation
- Confirm analytics working



Why Manual Deployment?

The platform checkpoint tool works best with smaller projects. Our Phase 2 implementation includes:

- Full PostgreSQL integration
- Comprehensive test suite
- Multiple modules and controllers
- All dependencies (~349MB with node_modules)

This exceeds the checkpoint tool's packaging capacity, so we use industry-standard deployment platforms (Render/Railway/Vercel) instead, which handle large Node.js projects routinely.



Verification After Deployment

```
# Test backend health
curl https://your-backend-url.onrender.com/health

# Test session creation
curl -X POST https://your-backend-url.onrender.com/api/v1/session/start \
  -H "Content-Type: application/json" \
  -d '{"user_id":"test_user","input":"Hello VCTT!"}'

# Test analytics
curl https://your-backend-url.onrender.com/analytics/sessions

# View API documentation
open https://your-backend-url.onrender.com/api-docs
```

Phase 2 is 100% complete and production-ready! 🎉

The checkpoint tool limitation doesn't affect functionality - all code is tested, built, and ready for standard deployment platforms.