

# EdgeChain Deployment Checklist

Use this checklist before demo/presentation to ensure everything is working.

## Pre-Deployment Checks

### Environment Setup

- Docker is running (`docker ps`)
- Node.js installed (`node --version`)
- Yarn installed (`yarn --version`)
- Compact compiler available (`compact --version`)
- Fly.io CLI installed (`flyctl version`)
- Fly.io authenticated (`flyctl auth whoami`)

### Dependencies

- All packages installed (`yarn install`)
- Contract dependencies present (`cd packages/contract && ls node_modules`)
- UI dependencies present (`cd packages/ui && ls node_modules`)

## Build Verification

### Contract Build

```
cd packages/contract

# Compile Compact contract
npm run compact
# ☐ Check: src/managed/edgechain/contract/index.cjs exists

# Build TypeScript
npm run build
# ☐ Check: dist/deploy-simple.js exists
# ☐ Check: dist/view-contract.js exists
# ☐ Check: dist/managed/edgechain/contract/index.cjs exists
```

- Compact compilation successful
- TypeScript build successful
- Contract module in dist/ folder

### UI Build

```
cd packages/ui
npm run build
# ☐ Check: dist/index.html exists
# ☐ Check: dist/assets/ folder populated
```

- UI build successful
- Assets generated

## Proof Server

```
./start-proof-server.sh
# ☐ Expected: Container starts successfully

curl http://127.0.0.1:6300/health
# ☐ Expected: "We're alive ☀!"
```

- Proof server running
- Health check passing

## Contract Deployment

### Get tDUST for Deployment Wallet

```
cd packages/contract
npm run deploy
# Wait for wallet address to be shown
# Copy the address
```

- Deployment script starts
- Wallet address generated
- Visit <https://faucet.testnet.midnight.network>
- Request tDUST for deployment wallet address
- Wait for tokens to arrive (~2-3 minutes)

### Complete Deployment

```
# Deployment should auto-continue when tDUST arrives
# ☐ Expected: "Contract deployed successfully"
# ☐ Expected: deployment.json created
# ☐ Expected: DEPLOYMENT_WALLET_SEED.txt exists
```

- Contract deployment successful
- deployment.json created
- Contract address saved
- Deployment wallet seed saved

### Verify Contract

```
npm run view-contract
# ☐ Expected: Shows contract state
# ☐ Expected: Current round: 0
# ☐ Expected: Submission count: 0
```

- Contract is queryable
- Contract state shows initial values

## UI Deployment to Fly.io

### Build and Deploy

```
cd ../..
./deploy-to-flyio.sh
# ☐ Expected: Build completes
# ☐ Expected: Deployment to Fly.io succeeds
```

#  Expected: URL shown: <https://edgechain-midnight-ui.fly.dev>

- Contract rebuilt
- UI built successfully
- Deployed to Fly.io
- URL accessible

## Verify Deployment

```
export PATH="/home/codespace/.fly/bin:$PATH"
flyctl status
#  Expected: Status shows running or stopped (auto-scales)
```

```
curl https://edgechain-midnight-ui.fly.dev
#  Expected: Returns HTML
```

- Fly.io app status is healthy
- URL is accessible
- App serves correctly

## End-to-End Testing

### Test UI Locally (Optional)

```
cd packages/ui
npm run dev
# Visit http://localhost:5173
```

- Local dev server starts
- UI loads in browser
- No console errors

### Test Wallet Connection

**Requirements:** Lace Midnight Preview wallet with tDUST

Visit deployed URL or localhost: - [ ] Click “Connect Wallet” - [ ] Lace extension prompts - [ ] Wallet connects successfully - [ ] Wallet address shown in UI

### Test Contract Interaction

- Can see contract state
- Can submit model update (if implemented)
- No errors in console
- Transactions process correctly

## Demo Preparation

### Have Ready

- Deployed contract address
- Deployed UI URL: <https://edgechain-midnight-ui.fly.dev>
- Lace wallet with tDUST (~100+ tDUST recommended)
- Deployment wallet seed backed up

- CHECKPOINT\_STABLE\_v1.md reviewed

## Terminal Setup

Have 3 terminals ready:

### Terminal 1: Proof server

```
./start-proof-server.sh
```

### Terminal 2: Contract operations

```
cd packages/contract  
# Ready to run: npm run view-contract
```

### Terminal 3: Fly.io operations

```
export PATH="/home/codespace/.fly/bin:$PATH"  
# Ready to run: flyctl logs, flyctl status
```

## Browser Setup

- Lace Midnight Preview wallet installed
- Wallet unlocked and funded
- Tab open to deployed UI
- Developer console open (for debugging if needed)

## Backup & Recovery

### Files to Backup

- DEPLOYMENT\_WALLET\_SEED.txt
- DEPLOYMENT\_WALLET\_ADDRESS.txt
- packages/contract/deployment.json

### Recovery Plan

If something breaks during demo:

```
# 1. Return to stable checkpoint  
git stash  
git checkout stable-v1.0  
  
# 2. Quick rebuild  
yarn install  
cd packages/contract && npm run build  
cd ../ui && npm run build  
  
# 3. Restart proof server  
./start-proof-server.sh
```

## Final Pre-Demo Check (5 minutes before)

```
# 1. Proof server  
curl http://127.0.0.1:6300/health
```

```
# 2. Contract deployed
cd packages/contract && npm run view-contract

# 3. UI deployed
curl -I https://edgechain-midnight-ui.fly.dev

# 4. Wallet ready
# Check Lace wallet has tDUST
```

All green? → ☑ READY TO DEMO!

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## Emergency Contacts & Resources

**Midnight Network:** - Testnet Faucet:  
<https://faucet.testnet.midnight.network> - Indexer:  
<https://indexer.testnet-02.midnight.network> - Docs:  
<https://docs.midnight.network>

**Fly.io:** - Dashboard: <https://fly.io/dashboard> - Status:  
<https://status.fly.io> - Docs: <https://fly.io/docs>

### Quick Commands:

```
# Restart proof server
docker restart $(docker ps -q --filter
ancestor=midnightnetwork/proof-server)

# Restart Fly.io app
flyctl apps restart edgechain-midnight-ui

# View logs
flyctl logs

# SSH into Fly.io machine
flyctl ssh console
```

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**Last Updated:** November 8, 2025 **Checkpoint:** stable-v1.0 **Status:**  
Ready for Demo ☑