

XplainCrypto Deployment Verification Checklist

Complete Verification Checklist

Use this checklist to systematically verify your XplainCrypto MindsDB deployment. Check off each item as you complete it.

Phase 1: Pre-Deployment Verification

System Requirements

- ☐ MindsDB instance accessible at `http://142.93.49.20:47334/editor`
- ☐ MindsDB version 23.10+ or later
- ☐ PostgreSQL database running and accessible
- ☐ Internet connectivity for external APIs
- ☐ All required API keys obtained and tested

API Keys Verification

- ☐ OpenAI API key valid and has credits
- ☐ Anthropic API key valid and has credits
- ☐ TimeGPT API key valid (free tier OK)
- ☐ CoinMarketCap API key valid (free tier OK)
- ☐ PostgreSQL password for mindsdb user confirmed
- ☐ Dune Analytics API key valid (optional)
- ☐ Whale Alert API key valid (optional)

Phase 2: Health Check Verification

Execute: `deploy/01_health_check.sql`

- ☐ MindsDB version displayed correctly
- ☐ All required handlers available:
- ☐ `openai` handler with `import_success = true`
- ☐ `anthropic` handler with `import_success = true`
- ☐ `timegpt` handler with `import_success = true`
- ☐ `postgres` handler with `import_success = true`
- ☐ `coinmarketcap` handler with `import_success = true`
- ☐ System databases visible (`mindsdb`, `information_schema`)
- ☐ Basic SQL functionality working
- ☐ Final health check message: "System operational"

If any items fail: Review troubleshooting guide before proceeding

Phase 3: Database Connections Verification

Execute: `deploy/02_create_databases.sql` (with API keys replaced)

- ☐ All placeholder variables replaced with actual values:
- ☐ `${POSTGRES_PASSWORD}` → actual PostgreSQL password
- ☐ `${COINMARKETCAP_API_KEY}` → actual CoinMarketCap key

- [] `${DUNE_API_KEY}` → actual Dune Analytics key
- [] Database connections created successfully:
- [] `crypto_data_db` (PostgreSQL)
- [] `coinmarketcap_db` (CoinMarketCap API)
- [] `defillama_db` (DeFiLlama API)
- [] `blockchain_db` (Blockchain.info API)
- [] `dune_db` (Dune Analytics API)
- [] No connection errors in verification queries
- [] All databases show in `SHOW DATABASES` output

Execute: `test/test_connections.sql`

- [] All connection tests show “PASS” status
- [] No “FAIL” status for required connections
- [] Connection summary shows expected counts
- [] No errors detected in connection health check

If any items fail: Check API keys, network connectivity, service status

Phase 4: AI Engines Verification

Execute: `deploy/03_create_engines.sql` (with API keys replaced)

- [] All placeholder variables replaced with actual values:
- [] `${OPENAI_API_KEY}` → actual OpenAI key (starts with `sk -`)
- [] `${ANTHROPIC_API_KEY}` → actual Anthropic key (starts with `sk-ant -`)
- [] `${TIMEGPT_API_KEY}` → actual TimeGPT key
- [] AI engines created successfully:
- [] `openai_engine`
- [] `anthropic_engine`
- [] `timegpt_engine`
- [] No engine creation errors
- [] All engines show in ML engines list

Execute: `test/test_engines.sql`

- [] All engine tests show “PASS” status
- [] Handler availability shows “AVAILABLE” for all engines
- [] No “ERROR DETECTED” in engine status
- [] Engine summary shows all 3 engines

If any items fail: Verify API keys have credits and proper permissions

Phase 5: AI Agents Verification

Execute: `deploy/04_create_agents.sql`

- [] All AI agents created successfully:
- [] `crypto_prediction_agent` (TimeGPT forecasting)
- [] `market_analysis_agent` (Claude analysis)
- [] `risk_assessment_agent` (GPT-4 risk assessment)
- [] `sentiment_analysis_agent` (GPT-4 sentiment)
- [] `anomaly_detection_agent` (Claude anomaly detection)
- [] `master_intelligence_agent` (Claude Opus orchestration)

- [] No agent creation errors
- [] All agents show in models list

Wait 2-3 minutes, then execute: `test/test_agents.sql`

- [] All agent tests show "PASS" status
- [] Agent training status shows "READY" for all agents
- [] Engine dependencies show "ENGINE AVAILABLE" for all
- [] No "ERROR DETECTED" in agent status
- [] Agent capabilities summary shows all as "READY"

If any items fail: Wait longer for training, check engine dependencies

Phase 6: PostgreSQL Schema Verification

Execute: `deploy/05_create_tables.sql`

- [] All database tables created successfully:
- [] `crypto_data.prices`
- [] `crypto_data.whale_transactions`
- [] `crypto_data.social_sentiment`
- [] `crypto_data.defi_yields`
- [] `crypto_data.cross_chain_prices`
- [] `crypto_data.agent_predictions`
- [] `crypto_data.sync_status`
- [] `crypto_data.agent_communications`
- [] `crypto_data.market_alerts`
- [] All indexes created successfully
- [] Schema verification shows all tables
- [] Table status check shows 0 rows (new installation)

If any items fail: Check PostgreSQL permissions and connectivity

Phase 7: Complete System Verification

Execute: `test/test_complete.sql`

- [] System overview shows correct MindsDB version
- [] Database connections summary shows expected counts:
- [] 4+ total databases
- [] 1+ PostgreSQL connections
- [] 3+ API connections
- [] AI engines summary shows:
- [] 3 total engines
- [] OpenAI available
- [] Anthropic available
- [] TimeGPT available
- [] AI agents summary shows:
- [] 6 total agents
- [] 5+ ready agents
- [] 0 error agents
- [] Critical components check shows all "PASS"

- ☐ Data pipeline readiness shows all "READY"
- ☐ System capabilities inventory shows all "AVAILABLE"
- ☐ Error detection scan shows "NO ERRORS" for all components
- ☐ Deployment completeness score: 90%+ (EXCELLENT)
- ☐ Production readiness assessment: "PRODUCTION READY"
- ☐ Overall status: " DEPLOYMENT SUCCESSFUL"

Phase 8: Functional Testing (Optional)

Test Individual Agent Functionality

Uncomment and test these queries in the test scripts:

- ☐ Market Analysis Agent responds correctly
- ☐ Risk Assessment Agent provides analysis
- ☐ Sentiment Analysis Agent returns scores
- ☐ Prediction Agent (if time-series data available)

Test Database Connectivity

- ☐ PostgreSQL queries work
- ☐ CoinMarketCap API returns data
- ☐ DeFiLlama API returns data
- ☐ Other API connections functional

Phase 9: Documentation and Handoff

Documentation Complete

- ☐ All API keys documented securely
- ☐ Deployment process documented
- ☐ Test results recorded
- ☐ Known issues documented
- ☐ Troubleshooting guide reviewed

System Ready for Automation

- ☐ Manual deployment 100% successful
- ☐ All components verified and working
- ☐ Performance acceptable
- ☐ No critical errors or warnings
- ☐ Ready to proceed with automation phase

Success Criteria Summary

Minimum Success (Development Ready)

- ☐ 3+ database connections working
- ☐ 2+ AI engines functional
- ☐ 4+ AI agents ready
- ☐ PostgreSQL schema created
- ☐ Basic functionality verified

Full Success (Production Ready)

- ☐ 4+ database connections working
- ☐ 3 AI engines functional
- ☐ 6 AI agents ready
- ☐ All capabilities available
- ☐ Complete system test passes
- ☐ No errors or warnings

Automation Ready

- ☐ Full success criteria met
- ☐ All test scripts pass
- ☐ Performance is acceptable
- ☐ Documentation complete
- ☐ System stable for 24+ hours

Verification Results Summary

Deployment Date: ____

MindsDB Version: ____

Completion Score: ____

Overall Status: ____

Component Status

- Database Connections: Pass Fail
- AI Engines: Pass Fail
- AI Agents: Pass Fail
- PostgreSQL Schema: Pass Fail
- System Integration: Pass Fail

Ready for Automation?

Yes - All criteria met, proceed with automation

No - Address issues before automation

Notes:

Next Steps:

Verification completed by: __

Date: __

Signature: __