

// NEXURAL AUTOMATION

# Pre-Deployment Pre-Flight Checklist

27 checks across Code, Data, Risk, Broker, Monitoring, and Recovery. Complete every item before moving from paper to live capital.

## ■ Code Quality

- 1. All strategy code is version-controlled (git)
- 2. No hardcoded credentials — use env vars or secrets manager
- 3. Unit tests cover core logic (entry, exit, sizing)
- 4. Integration tests run against paper broker
- 5. Code review completed by at least one other person
- 6. Lint passes with 0 errors (pylint  $\geq$  9.0 or ESLint clean)

## ■ Data Integrity

- 7. Data feed tested for gaps, duplicates, and timezone consistency
- 8. Historical backtest uses out-of-sample data (no look-ahead bias)
- 9. Data normalization handles corporate actions (splits, dividends)
- 10. Tick data validated against reference feed
- 11. Latency benchmarked and within acceptable bounds

## ■ Risk Controls

- 12. Maximum daily loss limit coded and tested
- 13. Maximum position size enforced (% account)
- 14. Per-trade R:R gate active (minimum 2:1)
- 15. Kill switch tested — verifies flat-all on trigger
- 16. Concurrent position cap enforced
- 17. Drawdown circuit breaker sets strategy to read-only mode

## ■ Broker Integration

- 18. Paper trading confirmed — all order types execute correctly
- 19. Idempotency keys used for all order submissions
- 20. Order rejection handling tested (insufficient margin, etc.)
- 21. Partial fill handling tested
- 22. API rate limits monitored and respected

## ■ Monitoring & Alerting

- 23. Heartbeat monitor active — alerts within 60 seconds of outage
- 24. P&L; dashboard live with real-time data
- 25. Email/SMS/push alerts configured for all critical events
- 26. Log rotation configured — retain 90 days minimum

## ■ Recovery & Incident Response

- 27. Incident response playbook reviewed and stored offline

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Full automation guide: [nexural.io/automation](https://nexural.io/automation)