

# NLT Quality Pipeline

**Builder Ops • dev-time gates & docs**

Quality MCP • docs MCP • gates • judges • skills.

44 curated MCP tools across 9 families in this volume.

Dev-time scoring and checklist — distinct from runtime memory (NLT Memory Deep Dive).

Bootstrap consumers with init; add validate\_changed judges in document repos.

Repo paths and CLI names stay internal; the outward suite uses NLT component names.

**AUDIENCE** Agent authors • platform maintainers • consumer repo operators

# Executive summary

|                                                               |                                                                          |                                                                      |                                                                                 |
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| <div>44</div> <div>MCP TOOLS</div> <div>Curated surface</div> | <div>9</div> <div>TOOL FAMILIES</div> <div>Scoring · docs · Linear</div> | <div>5</div> <div>PIPELINE STAGES</div> <div>Discover → verify</div> | <div>Studio</div> <div>REPORT STUDIO</div> <div>Report Studio Builder Ops</div> |
|---------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|

NLT Quality Pipeline is the dev-time scoring and checklist layer for AI coding assistants, distinct from runtime NLT Memory Deep Dive. Consumer repos bootstrap via init; document repos add validate\_changed judges for PDF and site output.

## Key findings

- 1

The quality-gate server exposes deterministic gates, not LLM judgment at runtime.
- 2

docs-mcp validates Linear issue bodies before tracker writes.
- 3

Hooks and skills enforce finish-task before session end in consumer IDEs.

Who should read this

Agent authors and consumer-repo maintainers. Investors start at NLT Labs Portfolio Story; memory operators use NLT Memory Deep Dive and the NLT Brain UI guide on [briefs.nltlabs.ai](#).

# Contents

| Section                    | Theme                                             |
|----------------------------|---------------------------------------------------|
| Part I — Pipeline role     | Dev-time quality vs NLT Memory vs Report Studio   |
| Part II — Monorepo map     | Core, quality-gate server, docs-mcp packages      |
| Part III — Pipeline stages | discover → research → develop → validate → verify |
| Part IV — Tool families    | 9 families · 44 tools                             |
| Part V — Quality presets   | standard · report_authoring · engagement levels   |
| Part VI — Document judges  | shell/grep judges · document-builder profile      |
| Part VII — Hooks & skills  | Cursor/Claude hooks · finish-task · Linear skills |
| Part VIII — CI & doctor    | PR workflow · checker environment pitfalls        |
| Part IX — Operations       | Troubleshooting · runbook · cross-volume links    |

**How to read this.** This is the maintainer runbook for the NLT Quality Pipeline MCP servers — the quality-gate server and docs-mcp, built from one monorepo checkout (a sibling of this repo by default). Read Parts I-III to place the pipeline, Parts IV-VI to configure tools and judges, Parts VII-IX to operate day to day. For memory tiers, bridge flow, and hive propagation see **NLT Memory Deep Dive**; for the report-studio CLI see **Report Studio Builder Ops**.

## Part I — Pipeline role and boundaries

### PART I

# NLT Quality Pipeline at a glance

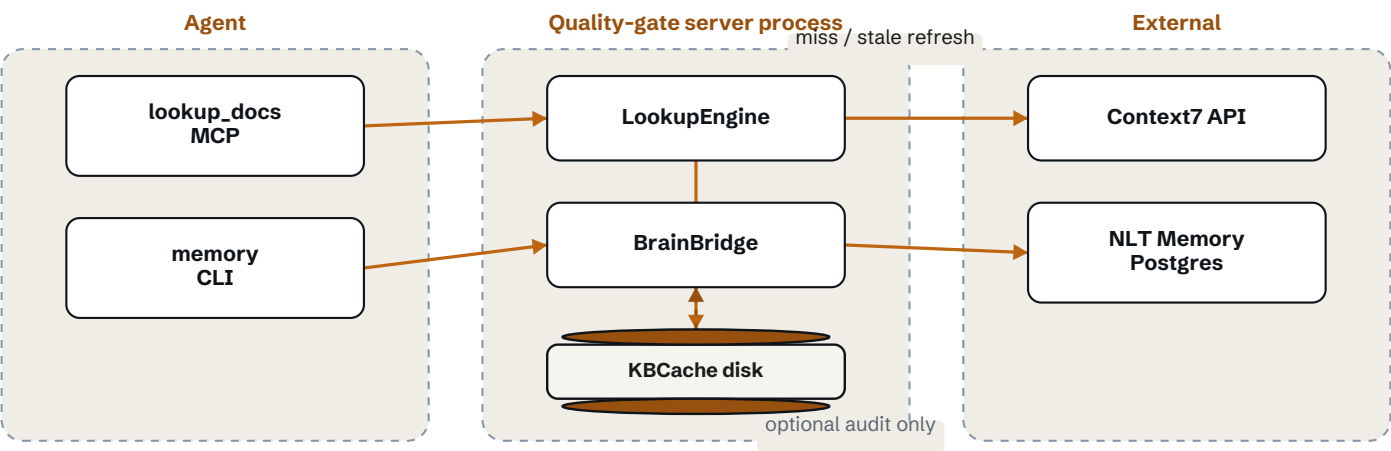
**NLT Quality Pipeline** is the dev-time quality and documentation layer for AI coding assistants. The quality-gate server exposes deterministic tools — scoring, security scans, quality gates, checklist enforcement, and Linear cache wrappers. docs-mcp generates README, changelog, and validated Linear issue bodies. Neither server embeds consumer logic: each consumer repo (ReportLab, NLTlabsPE, AgentForge) pins its own server version and configures judges in its project quality config for the output it ships.

## Three-way distinction

| Layer                              | Brief                             | Runtime?                        |
|------------------------------------|-----------------------------------|---------------------------------|
| NLT Memory (brain HTTP API)        | NLT Memory Deep Dive              | Yes — agents recall during work |
| Report Studio (PDF engine)         | Report Studio Builder Ops         | Build time — briefs.nltlabs.ai  |
| NLT Quality Pipeline (this volume) | NLT Quality Pipeline, Builder Ops | Dev time — IDE MCP session only |

### QUALITY-GATE SERVER — LOOKUP AND MEMORY INTERACTION

Level 2 · MCP host calls cross process boundaries; brain is never in-process in consumers.



Solid = primary path · dashed = optional or audit-only.

Figure — LookupEngine serves docs cache-first; BrainBridge reaches memory over HTTP only. Call the MCP tools — never query the NLT Memory Postgres directly.

“Do not conflate quality-pipeline session hooks with the federated NLT Memory service — reach NLT Memory over the HTTP bridge only, never as an in-process embed.”

#### — Consumer boundary

### Part II — Monorepo package map

#### PART II

# Packages and consumer wiring

| Component                   | Role                                                    |
|-----------------------------|---------------------------------------------------------|
| Core package                | Shared config, metrics, brain bridge, judges            |
| Quality-gate server package | MCP server — scoring, gates, checklist, Linear wrappers |
| docs-mcp package            | README/changelog/Linear doc generators (companion)      |
| Combined platform entry     | Serves both MCP servers as one process (platform CLI)   |
| Project quality config      | Consumer preset: engagement, judges, memory profile     |
| Agent skills                | Finish-task, handoff, validate bundles                  |
| CI quality workflow         | PR gate on changed Python                               |

**Bootstrap path.** Run init once per consumer repo: it writes AGENTS.md, TECH\_STACK.md, platform hooks, skills, and optional .mcp.json bridge config. Pass with\_report\_studio=True to add the report-studio consumer scaffold. The generated MCP config strips any direct NLT Memory entry — memory goes through the HTTP bridge only.

**Consumer wiring.** ReportLab, AgentForge, and NLTWeb each reach the quality-gate server over the MCP bridge — never embed brain Python in a consumer tree. docs-mcp handles Linear issue templates and README generation. Set the quality preset in the project quality config; the engagement level decides which hooks are wired, from SessionStart through Stop.

“Every package ships as an editable install from the monorepo — run uv sync at the workspace root to keep checkers aligned with CI.”

— Monorepo discipline

Part III — Pipeline stages

PART III

# NLT quality pipeline

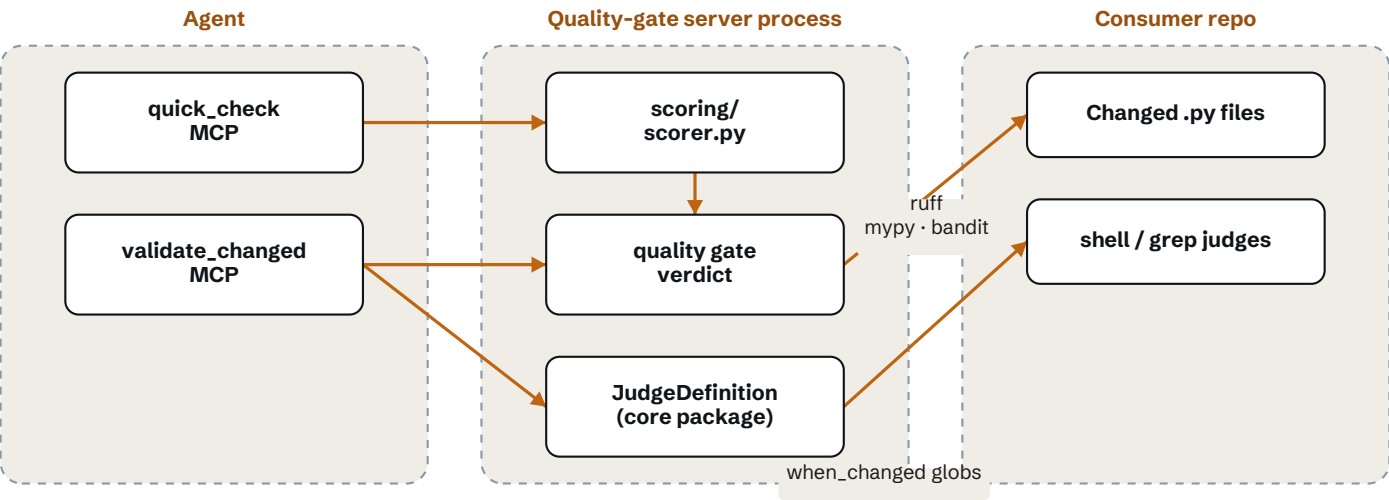
Run every session through five stages: discover, research, develop, validate, verify. Do not skip research — omitting the docs lookup (lookup\_docs) is the most common source of hallucinated APIs. Do not skip verify — omitting the completion checklist (checklist) is the most common source of undeclared work.

| Stage    | Primary tools                    | Done when                          |
|----------|----------------------------------|------------------------------------|
| discover | session_start, server_info       | Checker env and brain health known |
| research | lookup_docs, memory search (CLI) | APIs verified before writing code  |
| develop  | score_file, quick_check          | Every edit gated as it lands       |
| validate | validate_changed, security_scan  | Batch gate and judges pass         |

| Stage  | Primary tools                | Done when                |
|--------|------------------------------|--------------------------|
| verify | checklist, memory save (CLI) | No required step skipped |

QUALITY-GATE SERVER — QUALITY PIPELINE INTERACTION

Level 2 · Deterministic checkers run in-process; no LLM in the scoring path.



Solid = MCP tool dispatch · judges run subprocess in consumer cwd.

Figure — Scoring and judges run on separate paths. Add shell and grep judges in document consumers without touching ScoreEngine.

Preset tool bundles

Use the six-server NLT fleet — nlt-build, nlt-memory, nlt-setup, nlt-linear-issues, nlt-project-docs, nlt-release-ship — as role-scoped presets that trim the tool surface under Cursor's 40-tool limit. Each runs as one shared long-lived HTTP server on a fixed port (8760–8765, ADR-0024), not a per-window stdio spawn. The canonical tool list lives in server.py::ALL\_TOOL\_NAMES (quality-gate server 3.12.90) — check it after every upgrade before trusting a preset.

Part IV — Tool families

PART IV

MCP tool surface

Scan the overview first: 44 tools in 9 families. Each card lists every tool with its purpose and the exact moment in the session to call it.

| Family                             | Tools                                                                                                                  | Theme                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Session bootstrap                  | session_start, server_info, doctor, usage, session_end, handoff_save, session_notes                                    | First calls in every IDE session — server version, checker env, brain_bridge_health.   |
| Scoring and gates                  | quick_check, score_file, quality_gate, validate_changed                                                                | Deterministic Python quality — ruff, mypy, bandit, radon, vulture, pylint, pip-audit.  |
| Security and dependencies          | security_scan, dependency_scan, dead_code, dependency_graph                                                            | Dedicated scans that go deeper than quick_check's basic pass.                          |
| Docs and impact                    | lookup_docs, impact_analysis, validate_config, call_graph, diff_impact, research, domain_playbook                      | Prevent hallucinated APIs and blind refactors.                                         |
| Pipeline orchestration             | checklist, init, upgrade, set_engagement_level, pipeline, decompose, report                                            | Checklist, init, upgrade, engagement — consumer repo scaffolding.                      |
| Linear cache-first reads           | linear_snapshot_get, linear_snapshot_put, linear_list_issues, release_update, linear_snapshot_invalidate, linear_count | Route writes through the linear-issue skill; run list reads cache-first via snapshots. |
| Audit campaigns                    | audit_campaign, audit_close_coverage, finding_to_story                                                                 | Repo-wide quality campaigns and finding closure.                                       |
| Metrics and telemetry              | dashboard, stats, feedback                                                                                             | Usage dashboards and feedback signals for tuning the pipeline itself.                  |
| Memory bridge (nlt-memory profile) | memory, brain_propose_hive_elevation, brain_approve_hive_elevation                                                     | Slim memory facade onto NLT Memory and the hive-elevation safety gate.                 |

## Session bootstrap

First calls in every IDE session — server version, checker env, brain\_bridge\_health.

| Tool          | Purpose                                        | When                                |
|---------------|------------------------------------------------|-------------------------------------|
| session_start | Project context + pipeline hint                | FIRST call each chat                |
| server_info   | Version and installed checkers                 | Diagnostics without full bootstrap  |
| doctor        | MCP + brain + tool drift                       | After upgrade or auth failures      |
| usage         | Per-session tool gaps                          | When checklist reports missed steps |
| session_end   | Close feedback loop on session's brain events  | LAST call each chat                 |
| handoff_save  | Atomic session-handoff.md write + brain mirror | Before context runs out             |
| session_notes | Short-lived per-session KV scratch store       | Mid-session working notes           |

## Scoring and gates

Deterministic Python quality — ruff, mypy, bandit, radon, vulture, pylint, pip-audit.

| Tool             | Purpose                       | When                       |
|------------------|-------------------------------|----------------------------|
| quick_check      | Score + gate + basic security | After each Python edit     |
| score_file       | Seven-category score          | Deep review or CI report   |
| quality_gate     | Pass/fail vs preset threshold | Before declaring file done |
| validate_changed | Batch gate + optional judges  | End of multi-file work     |

## Security and dependencies

Dedicated scans that go deeper than quick\_check's basic pass.

| Tool             | Purpose                | When                                  |
|------------------|------------------------|---------------------------------------|
| security_scan    | Bandit + secrets       | Security task_type or sensitive edits |
| dependency_scan  | pip-audit CVEs         | Before release                        |
| dead_code        | vulture unused symbols | Refactors and epic boundaries         |
| dependency_graph | Import coupling        | Large module changes                  |

## Docs and impact

Prevent hallucinated APIs and blind refactors.

| Tool            | Purpose                                     | When                                  |
|-----------------|---------------------------------------------|---------------------------------------|
| lookup_docs     | Context7-backed library docs                | Before any external API use           |
| impact_analysis | Direct + transitive dependents              | Before layout/engine API edits        |
| validate_config | Docker, CI, YAML manifests                  | Infra or brand/template YAML          |
| call_graph      | Function callers, callees, call chains      | Before function-level refactors       |
| diff_impact     | Ranked affected tests for changed files     | After edits, before validate_changed  |
| research        | Unified research front door (code/web/docs) | Domain questions beyond library docs  |
| domain_playbook | Bundled domain checklist + tool order       | Security/testing/frontend domain work |

## Pipeline orchestration

Checklist, init, upgrade, engagement — consumer repo scaffolding.

| Tool                 | Purpose                                     | When                                |
|----------------------|---------------------------------------------|-------------------------------------|
| checklist            | Required tools by task_type                 | FINAL verification step             |
| init                 | Bootstrap AGENTS.md, hooks, skills          | New consumer repo                   |
| upgrade              | Refresh scaffolding from latest             | After a quality-gate server release |
| set_engagement_level | high / medium / low enforcement             | Operator tuning                     |
| pipeline             | Runs session_start through gate in one call | Single-shot scripted runs           |
| decompose            | Breaks a vague task into ordered subtasks   | Planning ambiguous work             |
| report               | Quality report, single-file or project-wide | CI report or deep review            |

## Linear cache-first reads

Route writes through the linear-issue skill; run list reads cache-first via snapshots.

| Tool                       | Purpose                                | When                              |
|----------------------------|----------------------------------------|-----------------------------------|
| linear_snapshot_get        | Cache-first issue slice                | Before list_issues                |
| linear_snapshot_put        | Populate cache after fetch             | Immediately after list            |
| linear_list_issues         | Gate-checked list wrapper              | When cache miss                   |
| release_update             | Release note body from CHANGELOG       | linear-release-update skill       |
| linear_snapshot_invalidate | Evicts cached Linear snapshots         | After a write changes issue state |
| linear_count               | Open/done counts from cached snapshots | Backlog size checks               |

## Audit campaigns

Repo-wide quality campaigns and finding closure.

| Tool                 | Purpose                   | When                   |
|----------------------|---------------------------|------------------------|
| audit_campaign       | Batch audit orchestration | Quality sweeps         |
| audit_close_coverage | Link fix SHA to finding   | After audit fix lands  |
| finding_to_story     | Finding → Linear story    | Audit remediation loop |

## Metrics and telemetry

Usage dashboards and feedback signals for tuning the pipeline itself.

| Tool      | Purpose                                      | When                                |
|-----------|----------------------------------------------|-------------------------------------|
| dashboard | Multi-section usage/gate metrics dashboard   | Weekly platform health review       |
| stats     | Per-tool call counts and success rates       | Auditing tool usage patterns        |
| feedback  | Records thumbs-up/down on last tool response | After a notably good or bad verdict |

## Memory bridge (nlt-memory profile)

Slim memory facade onto NLT Memory and the hive-elevation safety gate.

| Tool                         | Purpose                                   | When                                  |
|------------------------------|-------------------------------------------|---------------------------------------|
| memory                       | Cross-session pattern save/recall facade  | nlt-memory profile only               |
| brain_propose_hive_elevation | Propose a memory key for hive elevation   | Pattern worth sharing across projects |
| brain_approve_hive_elevation | Approve a pending hive elevation proposal | Operator review of a proposal         |

### Part V — Quality presets and engagement

#### PART V

## Scoring presets and enforcement

| Preset           | Behavior                                                                                                                  |
|------------------|---------------------------------------------------------------------------------------------------------------------------|
| standard         | Default gate — test coverage weighted on all Python                                                                       |
| report_authoring | Same 70/0/0 gate thresholds as standard — defaults narrative_path_globs to reports/**, zeroing test-coverage weight there |
| strict           | Higher thresholds for library/engine code                                                                                 |
| framework        | Framework-code profile — stricter API-surface weighting                                                                   |

## Engagement levels

Switch enforcement with `set_engagement_level` (high / medium / low). The level changes which checklist tools are required per `task_type` and which lifecycle hooks get wired into the consumer IDE.

| Level  | document task                | feature task                              | Hooks                                                     |
|--------|------------------------------|-------------------------------------------|-----------------------------------------------------------|
| high   | validate_changed + checklist | score_file + quality_gate + security_scan | 10 lifecycle hooks; linear cache gate block mode optional |
| medium | validate_changed             | score_file + quality_gate                 | 8 hooks; linear cache gate warn; pre-commit optional      |
| low    | validate_changed             | quality_gate                              | SessionStart only; judges advisory                        |

## Checklist task types

| task_type | Required                                | Recommended                             |
|-----------|-----------------------------------------|-----------------------------------------|
| feature   | score_file, quality_gate                | security_scan                           |
| bugfix    | score_file                              | quality_gate, security_scan             |
| refactor  | score_file, quality_gate                | impact_analysis, call_graph, dead_code  |
| security  | security_scan, quality_gate             | score_file, dependency_scan             |
| document  | validate_changed                        | validate_config, lookup_docs, checklist |
| review    | score_file, security_scan, quality_gate | checklist, dead_code                    |
| epic      | checklist                               | score_file, quality_gate                |
| release   | release_update                          | dependency_scan                         |

The **document** task\_type requires validate\_changed — always pass explicit file\_paths, and configure blocking judges in PDF/HTML consumers. Part VI shows the ReportLab reference config.

### Part VI — Document output judges

#### PART VI

## Gating document regressions

Python quality gates do not catch thin PDF pages, missing link annotations, or a dropped --audit flag in the site prebuild. Gate those regressions with validate\_changed.judges in the project quality config — pytest, grep, shell, or exists types.

### validate\_changed.judges — ReportLab reference

Gate **output quality** in document-shipping consumers, not only Python scores. Copy the ReportLab pattern: declare shell and grep judges under validate\_changed.judges in the project quality config:

| Judge                                 | Type  | Blocks when                     |
|---------------------------------------|-------|---------------------------------|
| scripts/run-pdf-judge-tests.sh        | shell | uv pytest PDF regression fails  |
| build_briefs_pdfs.py contains --audit | grep  | Prebuild drops post-build audit |

Scope each judge with **when\_changed** globs so README-only diffs skip pytest. Set `quality_preset: report_authoring` to stop bogus coverage failures on `reports/**` narrative modules, and `memory.profile: document-builder` so sessions recall audit profiles and env roots automatically.

Part VII — Hooks and agent skills

PART VII

# Platform automation

## Platform hooks and agent skills

init writes Cursor / Claude Code hooks at medium or high engagement — no manual wiring. Skills bundle repeatable pipelines that agents invoke by name; prefer them over raw tool sequences.

| Artifact              | Trigger                                       | Effect                                |
|-----------------------|-----------------------------------------------|---------------------------------------|
| Before-MCP hook       | beforeMCPExecution (Cursor)                   | Log MCP tool invocations              |
| After-edit hook       | afterFileEdit (Cursor) / PostToolUse (Claude) | Remind quick_check                    |
| Stop hook             | Session end                                   | Telemetry if validate_changed skipped |
| Finish-task skill     | Agent skill                                   | validate_changed + checklist + memory |
| Handoff-session skill | Agent skill                                   | session-handoff.md + session_end      |
| linear-read           | Agent skill                                   | snapshot_get before list_issues       |
| linear-issue          | Agent skill                                   | docs_validate before save_issue       |

## Shared HTTP MCP fleet (ADR-0024)

Six long-lived HTTP MCP servers run on fixed localhost ports, started once per machine with the server CLI's fleet start — not one stdio child per Cursor window per server. Consumer repos opt in with `mcp_transport: http` and identify themselves per request via a project-root request header, so one fleet serves every repo and window.

| Server    | Port | Endpoint                  |
|-----------|------|---------------------------|
| nlt-build | 8760 | http://127.0.0.1:8760/mcp |

| Server            | Port | Endpoint                  |
|-------------------|------|---------------------------|
| nlt-memory        | 8761 | http://127.0.0.1:8761/mcp |
| nlt-setup         | 8762 | http://127.0.0.1:8762/mcp |
| nlt-linear-issues | 8763 | http://127.0.0.1:8763/mcp |
| nlt-project-docs  | 8764 | http://127.0.0.1:8764/mcp |
| nlt-release-ship  | 8765 | http://127.0.0.1:8765/mcp |

**Supervision is load-bearing.** fleet start launches the six servers as plain subprocesses that stay in the invoking unit's cgroup, so the canonical fleet service unit is Type=oneshot with RemainAfterExit=yes — the unit stays active (exited) instead of tearing its cgroup down and killing the servers. The watchdog (a fleet-watch service + timer, every 60s) never calls fleet start directly — a plain oneshot watchdog would spawn the servers into its own cgroup and reap them on exit. It runs fleet ensure, which probes health and only restarts the canonical unit via systemctl --user restart when unhealthy.

“The fleet install-systemd command is the single source of truth for all three units — service, watchdog service, watchdog timer. Do not hand-author them.”

— ADR-0024

Part VIII — CI and doctor

PART VIII

# Shipping discipline

## CI, doctor, and checker environment

Scoring runs seven checkers when they are installed in the MCP host environment: ruff, mypy, bandit, radon, vulture, pylint, pip-audit. Remember the MCP server process is not the consumer project venv — when host pytest is missing, route the judge through a shell script that calls uv run pytest.

| Surface                  | Command                           | When                        |
|--------------------------|-----------------------------------|-----------------------------|
| CI quality workflow      | validate-changed --quick on PR    | Python changes              |
| .github/hooks/pre-commit | validate-changed on staged .py    | install_git_hooks: true     |
| doctor --quick           | Brain + MCP without version drift | After upgrade               |
| doctor                   | Full checker version audit        | Cold start / CI image build |

## upgrade\_skip\_files — fixed vocabulary, not a glob

upgrade\_skip\_files in the project quality config protects generated artifacts from upgrade rewrites, but each entry must match one of a fixed set of tokens exactly — it is not a path glob, and directory tokens have no per-file granularity.

| Token           | Protects                         |
|-----------------|----------------------------------|
| agents_md       | AGENTS.md                        |
| claude_md       | CLAUDE.md                        |
| tech_stack_md   | TECH_STACK.md                    |
| claude_settings | .claude/settings.json            |
| claude_hooks    | .claude/hooks (whole directory)  |
| claude_agents   | .claude/agents (whole directory) |
| claude_skills   | .claude/skills (whole directory) |
| mcp_config      | .mcp.json                        |

“TAP-6499: a consumer configured four full file paths under .claude/skills/ — none of which are tokens — and two upgrades silently overwrote a customized skill. Use the claude\_skills directory token, or fold the customization upstream so upgrade regenerates it correctly.”

— Known footgun

Part IX — Operations

PART IX

# Runbook and troubleshooting

## Troubleshooting matrix

| Symptom                               | Likely cause                  | Fix                                 |
|---------------------------------------|-------------------------------|-------------------------------------|
| judges_passed=false, pytest not found | MCP host lacks consumer venv  | shell judge → uv run pytest script  |
| brain_bridge_health.ok=false          | Auth or brain down            | Memory auth token; doctor           |
| Gate fail on reports/story.py only    | Coverage weight on narrative  | quality_preset: report_authoring    |
| list_issues cache gate warn           | Snapshot miss                 | linear-read skill or snapshot_put   |
| PDF audit fails thin pages            | Story sparse or wrong profile | build --audit with template profile |

“Code gate ≠ document gate. Python can score 100 while PDFs lose link annotations or drop --audit in prebuild — configure judges explicitly.”

— ReportLab quality pipeline evaluation (2026-06)

# Operator runbook

**Daily agent session** — run the five calls in order; skip none.

1. session\_start() first call of the chat → 2. lookup\_docs before touching any library API → 3. quick\_check after each Python edit → 4. validate\_changed(file\_paths=...) with explicit paths → 5. checklist(task\_type=...) as the final gate.

**After a quality-gate server release** — refresh every consumer.

The dev monorepo deploys blue/green (ADR-0019): the server CLI's deploy-local builds an immutable release venv under releases/{version}-{sha}/ in the server's per-user state directory, waits on a flock deploy lock and a pytest quiescence gate, then flips the current symlink atomically. Already-running servers stay pinned to their old release dir until MCP reload; only new launches pick up current.

Then refresh every consumer: run the server CLI's upgrade --force --host auto → restart the MCP host → doctor --quick to confirm version and brain health → upgrade in each consumer repo → rerun judges and confirm they still pass.

**Document / PDF ship (ReportLab)** — audit before deploy.

Run cd apps/docs && npm run build:pdfs (builds every volume with --audit) → npm run deploy:briefs (worktree-isolated NLTWeb push) → spot-check the downloads on briefs.nltlabs.ai before announcing.

# Cross-volume links

| Brief                              | Relationship                                                             |
|------------------------------------|--------------------------------------------------------------------------|
| NLT Memory Deep Dive               | Runtime recall — BrainBridge HTTP (memory via CLI, not in-process embed) |
| Report Studio Builder Ops          | PDF engine — consumers pin nlt-report-studio tag                         |
| stakeholder and engineering briefs | Stakeholder/reference PDFs built with report-studio --audit              |
| Server AGENTS.md                   | Living tool reference — quality-gate server 3.12.90 + docs-mcp companion |

# Colophon

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Generated by Report Studio in the ReportLab checkout. Tool families mirror the quality-gate server 3.12.90 surface — verify the live tool count against AGENTS.md in each consumer repo before citing this brief.

**NLT Labs · New Logic Tech**  
NLT Quality Pipeline — Builder Ops  
Issued 2026-09-25 · 44 tools · 9 families