

GOTCHA Framework & System Handbook

John — System Handbook (On-Demand Reference)

Load this when you need infrastructure details, CLI commands, or system layout. Your identity, routing, and rules are in `~/.claude/CLAUDE.md` and `~/system/rules/john-operating-system.md`.

“ For orchestration surface routing (DAG vs chains vs factory vs one-shot), see `~/system/rules/orchestration-surface.md`.

GOTCHA Framework

GOT (Engine): Goals (specs/, rules/) | Orchestration (you) | Tools (tools/) **CHA** (Context): Context (context/) | Hard prompts (prompts/) | Args (config/)

AI errors compound ($90\%^5 = 59\%$). So: reliability -> deterministic code, flexibility -> LLM, process -> goals, knowledge -> context/memory.

System Layout

```
~/system/  
tools/      <- 1,310 scripts (manifest-index.md for lookup)  
rules/     <- Standards + john-operating-system.md  
specs/     <- Plans and specifications  
context/   <- Reference material  
prompts/   <- Instruction templates
```

```
config/          <- Configuration
databases/       <- SQLite (mission-control.db, costs.db, hivemind.db, etc.)
agents/          <- identities/ + state/ + hivemind/ + specialist-mapping.json
kernel/          <- agent-scheduler.js
reports/         <- Generated reports

~/.claude/
CLAUDE.md        <- Identity + routing + constraints (ALWAYS loaded)
hooks/           <- Kotlin security enforcement
agents/          <- builder.md + validator.md
skills/          <- 80+ skills
```

Task Management — Mission Control

```
node ~/system/tools/mc.js list           # All open tasks
node ~/system/tools/mc.js list --owner john # My tasks
node ~/system/tools/mc.js add "Title" --desc "X" --priority H --owner john
node ~/system/tools/mc.js start <id>    # Start
node ~/system/tools/mc.js done <id> "outcome" # Complete (quality gate)
node ~/system/tools/mc.js ready <id>     # Mark ready for review
node ~/system/tools/mc.js pause <id>     # Pause
node ~/system/tools/mc.js show <id>     # Full details
node ~/system/tools/mc.js active         # Who's working on what
node ~/system/tools/mc.js stats          # Summary counts

# Collision prevention (cross-session claim protocol)
node ~/system/tools/mc.js claim <id> --actor <name> --session <id> # Acquire lease
node ~/system/tools/mc.js claim-release <id>                       # Release lease
node ~/system/tools/mc.js claim-status <id>                       # Check lease status
# See: https://docs.alai.no/books/infrastructure/page/mc-claim-protocol
```

Communication — Slack Only

```
node ~/system/tools/slack.js send <channel> "message"
node ~/system/tools/slack.js read <channel> [limit]
```

BookStack Wiki

URL: https://docs.alai.no **Sync:** `node ~/system/tools/bookstack-sync.js sync` **Daemon:** com.john.bookstack-sync (auto-sync every 5 min)

Infrastructure

Cloud (Azure VM — Production Supporting)

Service	URL
BookStack	https://docs.alai.no
Vaultwarden	https://vault.alai.no
Documenso	https://sign.alai.no
Grafana	https://grafana.alai.no
Planka	https://boards.alai.no

VM: 4.223.110.181 | swedencentral | SSH: `ssh -i ~/.ssh/azure_alai alai-admin@4.223.110.181`

Local (ANVIL — Dev Only)

Service	Port
Postgres/Redis per product	5432-5437
Qdrant (vector search)	6333
Ollama ANVIL	11434
FORGE LLM (MLX)	10.0.0.2:11435 (local Thunderbolt) / 100.94.54.37:11435 (Tailscale, host <code>alem-sin-mac-studio</code>) — MLX OpenAI <code>/v1</code> , PRIMARY. Ollama :11434 on FORGE currently DOWN. Old Tailscale 100.104.164.86 (basicass-mac-mini) offline since ~2026-06-14.
MC Dashboard	localhost:3030

Cost Tracking

```
node ~/system/tools/cost-tracker.js summary today|week|month
node ~/system/tools/mc.js run start <task_id> <agent> # Track run
node ~/system/tools/agent-manager.js budget-check <id> # Check before delegating
```

SQLite Databases — ~/system/databases/

Key: mission-control.db, costs.db, hivemind.db, knowledge.db (187MB), events.db

Security

Forbidden (NEVER):

- Browser profiles, ~/Documents, ~/Desktop, ~/Downloads
- SSH keys, Keychains, Mail, Messages, Photos
- Deploy/email/delete/finance without asking

Backup Protocol

```
bash ~/system/tools/setup-backup.sh "description"
```

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