

4.1 Minion System

Minion System

Minions are **one-shot autonomous agents** (inspired by Stripe's internal system). Each minion:

1. Gets a single task
2. Runs in an isolated git worktree
3. Has full tool access (read/write files, run commands)
4. Follows a blueprint (YAML chain of steps)
5. Produces verifiable output
6. Exits

How to Use

```
# Run a minion for a specific task
node minion.js run "Fix login validation bug" --project ~/ALAI/products/Drop

# Run a minion tied to an MC task
node minion.js run "Add rate limiting" --project ~/ALAI/products/Drop --mc-task 1234

# Queue for batch processing
node minion.js enqueue "Refactor auth module" --project ~/ALAI/products/Drop
```

Minion Execution Flow

Task + Project

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1. Create isolated git worktree (branch: minion/<id>)
2. Load context (project README, relevant files, HiveMind knowledge)
3. Select blueprint based on task type
4. Execute blueprint steps:

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- ├─ Step 1: Analyze (understand the codebase)
- ├─ Step 2: Plan (create execution plan)
- ├─ Step 3: Build (implement changes)
- ├─ Step 4: Test (run tests, verify)
- └─ Step 5: Report (write GOTCHA summary)
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5. Quality gate – verify output, run tests
6. Return result (success/failure + artifacts)

Blueprint Types

Blueprint	Purpose
<code>minion-one-shot.yaml</code>	General purpose — analyze, plan, build, test
<code>minion-bugfix.yaml</code>	Bug fixing — reproduce, diagnose, fix, verify
<code>minion-refactor.yaml</code>	Refactoring — understand, plan, refactor, test
<code>minion-security-fix.yaml</code>	Security fixes — audit, fix, verify
<code>minion-docs.yaml</code>	Documentation — read code, generate docs
<code>codecraft-nextjs-app.yaml</code>	Full Next.js app scaffold (CodeCraft)
<code>codecraft-api-backend.yaml</code>	API backend scaffold (CodeCraft)
<code>securion-security-review.yaml</code>	Security audit chain (Securion)

Git Worktree Isolation

Each minion runs in its own git branch/worktree:

- **Branch:** `minion/<short-id>`
- **Path:** `~/system/.claude/worktrees/minion-<id>`
- Changes don't affect main branch until merged
- Multiple minions can work in parallel on different branches

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