

CommitClinic Implementation Plan (v1)

CommitClinic is a Python CLI that audits repositories for migration risk, scores readiness with A-F grades, and supports guarded cleanup actions.

Scope

- Git-first scanning with legacy repository support via conversion/mirror into Git.
- Findings categories:
 - Secrets/password exposure
 - Binaries
 - Large files
 - Gross history indicators
- Outputs:
 - Terminal summary
 - JSON artifact
 - CSV artifact
- CI integration via GitHub Actions.

Product Flow

1. Intake
2. Diagnosis
3. Severity
4. Treatment Plan
5. Discharge

Safety Model

- Destructive actions are not automatic.
- Treatment outputs are plans by default.
- Explicit approvals are required before future rewrite execution modes.

Scoring Model

- Weighted deductions from base score of 100.
- Grade bands:
 - A: 90-100
 - B: 80-89
 - C: 70-79
 - D: 60-69
 - F: <60
- High severity secrets can be marked blocking in policy.

CI Behavior

- Default mode: report findings and upload artifacts without failing the pipeline.

- Strict mode (`--strict`): fail CI when blocking findings exist.

Initial Deliverables

- Package and CLI scaffold.
- Git scanner with TruffleHog integration hooks.
- Scoring and reporting modules.
- Batch runner.
- GitHub Actions templates.
- Unit tests for scoring behavior.