

AI-Powered Vulnerability Remediation

From scan to fixed MR — automatically. Claude agents triage reachability, generate dependency upgrades, patch SAST findings, and open a Jira-linked draft MR.



SCAN

Dep, SAST, Container,
DAST, Secret



TRIAGE

Reachability analysis
removes noise



FIX

AI-generated patches &
version bumps



TRACK

Draft MR + Jira story per
run

— WHAT'S NEW — V2.1.161 – V2.1.178

What's New with Claude Code



Fable 5 & Bedrock

Fable 5 now available — Mythos-class model
Bedrock auto-reads region from `~/.aws config`
Credential caching now honors token **Expiration**



Agentic Workflows

Sub-agents nest up to **5 levels deep**
fallbackModel setting for overload resilience
Parallel tool calls: failures no longer cancel the batch



Commands & Permissions

`/cd` changes working directory mid-session
`--safe-mode` disables all customizations
Tool(param:value) permission rule syntax

CVE Debt is Growing



Volume & Velocity

Thousands of new CVEs published each month. Dependency trees mean a single package bump can resolve dozens of findings — but someone has to find, triage, and test each one.



Noise Overload

Up to **60% of flagged CVEs** are unreachable in practice — dead code paths, test deps, unused imports. Without triage, teams waste cycles on phantom risk.

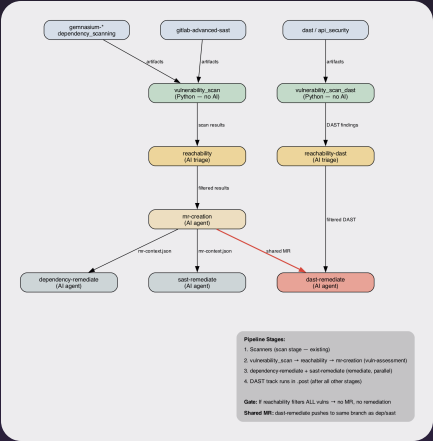
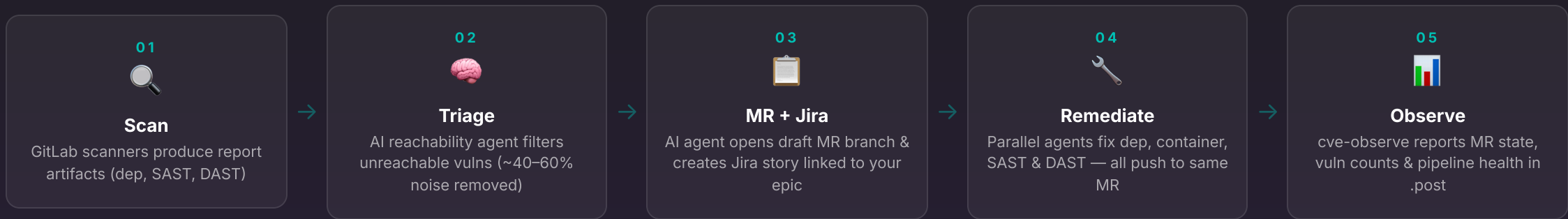


Slow Manual Loop

Scan → read report → identify fix → bump version → open PR → link Jira → get review. Repeated for every vuln, every repo, every sprint. Engineering time that doesn't ship features.

The opportunity: AI agents can automate the entire triage → fix → MR loop — freeing engineers to review rather than remediate.

The 5-Stage Pipeline



— COVERAGE

Five Scan Types Supported



Dependency

Vulnerable packages in manifests — Maven, npm, pip, and more

`DEPENDENCY_SCANNING: "true"`



SAST

Static analysis findings in source code — code-level security issues

`SAST_SCANNING: "true"`



Container

Vulnerable base images & OS packages in container definitions

`CONTAINER_SCANNING: "true"`



DAST

Dynamic / API security findings from a running application

`DAST_SCANNING: "true"`



Secrets

Leaked tokens & credentials in source — detection only, no auto-fix yet

`SECRET_DETECTION_SCANNING: "true"`

Set at least one variable to "true" — no scan type enabled means no remediation jobs run



to navigate

Three Onboarding Levels



Level 1 — Assisted

Now. Logos team works 1:1 to configure & validate. We handle the YAML, verify test coverage, and trigger the first pipeline with you.

Reach out in Teams to get started



Level 2 — Self-Service

Near-term. Follow the onboarding guide independently. Add stages, include the component, set scan type variables, and trigger a manual pipeline.

onboarding-guide.md in the repo



Level 3 — Org-Wide

Planned. DevSecOps applies the framework as a default include in shared pipeline templates. Teams opt-out rather than opt-in.

Qualification gates enforced automatically

PREREQUISITES

Unit tests in CI • Code coverage above threshold • Protected default branch • Integration/regression testing evidence

TRIGGER MODEL

Runs on **scheduled** or **manually triggered** pipelines only — not on every push

OUTPUT

Single draft MR on a **fix/cve-*** branch • One Jira story linked to your epic • All fix types in parallel

Add to Your `.gitlab-ci.yml`

 `.gitlab-ci.yml` – required additions

```
stages:
  # ...your existing stages...
  - vuln-assessment # after test
  - remediate # last before .post

include:
  - component: "${CI_SERVER_FQDN}/allyfinancial/shared-services/
    ai-marketplace/remediation-collaboration/
    vulnerability-remediation@main"

variables:
  DEPENDENCY_SCANNING: "true"
  SAST_SCANNING: "true" # optional
  JIRA_PROJECT: "ABC"
  EPIC_KEY: "ABC-468"
```

The component handles all job definitions. Your repo only needs **stages**, an **include**, and a few **variables**.

Optional inputs

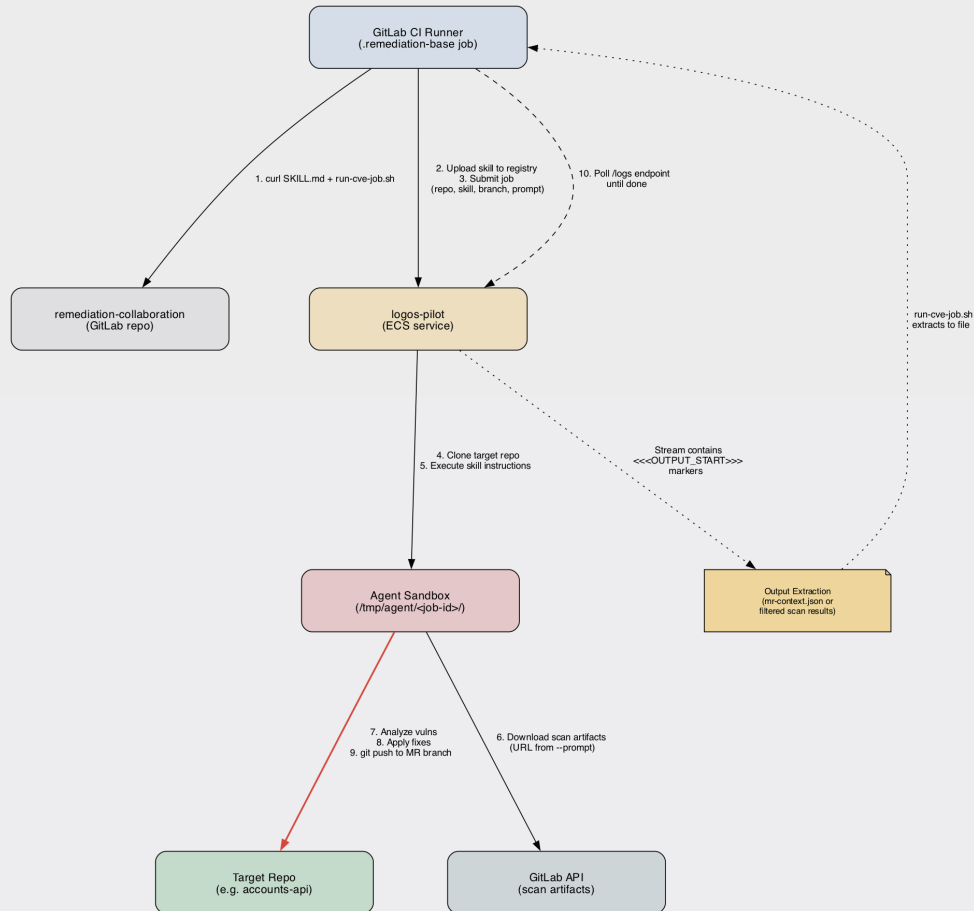
Override via `inputs:` block:

```
cve-min-severity: "high"
cve-dry-run: "true"
SKIP_REACHABILITY: "true"
```

DAST requires extra stage

Add `dast` stage between `test` and `vuln-assessment` only if your repo already has DAST scanning configured.

Agent **Invocation** Model



Remote Sandbox

Agents run in logos-pilot's ECS sandbox — not on your CI runner. Everything passes through **--prompt** as artifact URLs.



Single MR Strategy

mr-creation opens the branch once. All remediation agents push to the same MR branch in parallel — one clean PR for review.



Reachability Gate

If triage filters out all findings, the pipeline short-circuits — no MR created, no remediation cost incurred.

— STATUS & NEXT

Where We Are & What's Next

CURRENTLY WORKING

vulnerability_scan (artifact mode)	✓ Live
reachability triage	✓ Live
mr-creation + Jira story	✓ Live
dependency-remediate	✓ Live
container-remediate	✓ Live
sast-remediate	✓ Live
dast-remediate	✓ Live

ON THE ROADMAP

Post-remediation re-scan verification	In Progress
Secret detection auto-fix agent	Planned
Auto-merge for low-risk fixes	Planned
Unreachable-but-gating CVE workflow	Planned
Org-wide opt-out rollout (Level 3)	Future

Onboard now (Level 1): reach out to the Logos team in Teams — we'll configure it with you.