

# Secret Scanning Triage SOP

GitHub Advanced Security (GHAS)

Security Engineering

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## Document Control

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## 1 Purpose & Scope

This Standard Operating Procedure (SOP) defines how the organization triages, remediates, and documents **GitHub Advanced Security (GHAS) Secret Scanning** alerts. It covers alerts raised by push protection (on push), on pull requests (PR checks), and retro/background scans across the commit history. Goals:

- Prevent credential leaks from reaching default branches and releases.
- Respond rapidly based on impact-driven **SLAs**.
- Ensure consistent evidence, auditability, and reporting.

## 2 Roles & Access

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<b>Developers</b>	Remove secrets from code/PRs, rotate/revoke credentials, add remediation notes.
<b>Repo Admins / Code Owners</b>	Review/approve remediation PRs, enforce repo policy, coordinate fixes.
<b>Security (GHAS Admins)</b>	Define policy, tune patterns, manage org/repo settings, audit and reporting.
<b>Access</b>	Only users granted <i>read security alerts</i> can view repo alerts. Org-level security managers can view/manage alerts across repositories.

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## 3 Where Alerts Come From

- **Push Protection (on push):** Blocks commits that contain secrets; committer must remove the secret or request an override with justification.
- **PR Checks:** Secrets surfaced during pull request validation to shift left.
- **Retro/Background Scans:** Scans find secrets in history or inactive branches.

## 4 Severity Levels & SLAs

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Severity	Description	SLA
<b>P0</b>	Active production credential (cloud root/admin, DB admin, payment keys).	Contain within <b>1 hour</b> ; rotate immediately.
<b>P1</b>	Privileged non-production credential or elevated risk.	<b>24 hours.</b>
<b>P2</b>	Low-impact, expired, or test credential.	<b>3 business days.</b>

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## 5 End-to-End Triage Workflow

### 1) Acknowledge & Assign

Auto-assign to **Committer + Code Owners**; Security added as watcher. If push protection blocked the push, the committer must remediate or submit an exception with justification (recorded by GitHub).

### 2) Verify the Finding

Confirm the item is truly a credential. Prefer provider/partner patterns; treat custom patterns carefully to avoid noise.

### 3) Contain

- Remove the secret from the PR/branch immediately.
- **Rotate/revoke** the exposed credential with its provider (treat as compromised).

### 4) Eradicate

If the secret reached history, open a task to purge or rewrite history (e.g., `git filter-repo`) and **invalidate** any still-valid token.

### 5) Recover & Harden

Tune detection to prevent recurrence:

- Add or refine **custom patterns** (regex) for proprietary secrets.
- Test new patterns in the GitHub UI to reduce false positives before publishing org-wide.

### 6) Document & Disposition

In the alert record, add remediation notes and set status:

- **Resolved:** Secret removed, rotated, and (if needed) history cleaned.
- **Dismissed:** Select a reason (Section 7) and add a brief comment; dismissed alerts remain visible for audit.

## 6 Notification Routing

### Principles

Notify the fewest people who can act, escalate only when needed, and avoid alert fatigue by tuning notification preferences.

<b>Push Protection Block</b>	Committer (required), Code Owners, Security channel (informational). If an override is requested, page Security.
<b>PR Alert</b>	PR Author and Code Owners (action), Security (watch).
<b>Background/Retro Finding</b>	Repo Admin (owns remediation), Security (tracker).
<b>Channels</b>	GitHub notifications (per-user), plus the incident channel (e.g., Slack/Email) for P0/P1.

## 7 Dismissal Reasons Policy

When dismissing an alert, you **must** choose a reason and add a short comment. Accepted reasons:

- **False positive:** Matches the pattern but not a credential (include 1-line proof).
- **Test/intentional fixture:** Dummy/test key per test policy (link to policy).
- **Expired/Revoked:** Verified invalid; include ticket/ID of revocation.
- **Duplicate:** Same secret already tracked under a different alert (link it).
- **Compensating control:** Allowed only with Security approval and documented control.

Never dismiss an active/valid credential

Dismissal must not be used to avoid remediation of a valid secret. Treat all valid credentials as compromised until rotated or revoked.

## 8 Exceptions (Push Protection Allow-List)

If a committer overrides a push-protection block, they must provide a justification; identity and rationale are recorded by GitHub. Security reviews all exceptions daily and may revoke allow-list entries at any time.

## 9 Reporting & Audit

- **Weekly:** Security reviews opened/closed counts by repo and *dismissal reasons*; verify push-protection exceptions.
- **Monthly:** Pattern tuning—add org-level patterns, retire noisy ones; test regex in UI before publishing.
- **Quarterly:** Retro scan review for inactive repositories and long-lived branches.

## 10 Quick-Action Checklist (On-Call)

1. Identify severity (**P0/P1/P2**).
2. Contain: remove secret and rotate/revoke immediately.
3. Hunt for other occurrences (full repo/history search).
4. Document remediation notes; link revocation evidence.
5. Disposition: **Resolve** or **Dismiss** with reason.
6. Tune patterns if applicable; test before rolling out org-wide.

## Appendix A — Triage Notes Form

**Alert ID:** \_\_\_\_\_ **Repository:** \_\_\_\_\_ **Branch/PR:** \_\_\_\_\_  
**Committer:** \_\_\_\_\_ **Assignee:** \_\_\_\_\_ **Severity (P0/P1/P2):** \_\_\_\_\_

**Containment:** Secret removed? (/) Rotation/Revocation ticket: \_\_\_\_\_

**Eradication:** History cleaned? (/) Method: \_\_\_\_\_

**Disposition:** Resolved / Dismissed (Reason: \_\_\_\_\_)

**Notes/Evidence:** \_\_\_\_\_

**Follow-ups:** Pattern tuning / Training / Control update \_\_\_\_\_

## Appendix B — Exception Request (Push Protection Override)

**Requester:** \_\_\_\_\_ **Repo/Branch:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Justification:** \_\_\_\_\_

**Risk Assessment (Security):** \_\_\_\_\_

**Decision:** Approved / Denied **Reviewer:** \_\_\_\_\_ **Expiry:** \_\_\_\_\_

## Appendix C — Glossary

**GHAS:** GitHub Advanced Security. **PR:** Pull Request. **SLA:** Service Level Agreement.