

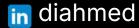
Securing Git Repositories

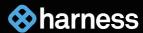
Preventing Accidental Secret Commits with Gitleaks

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Principal Developer
Advocate

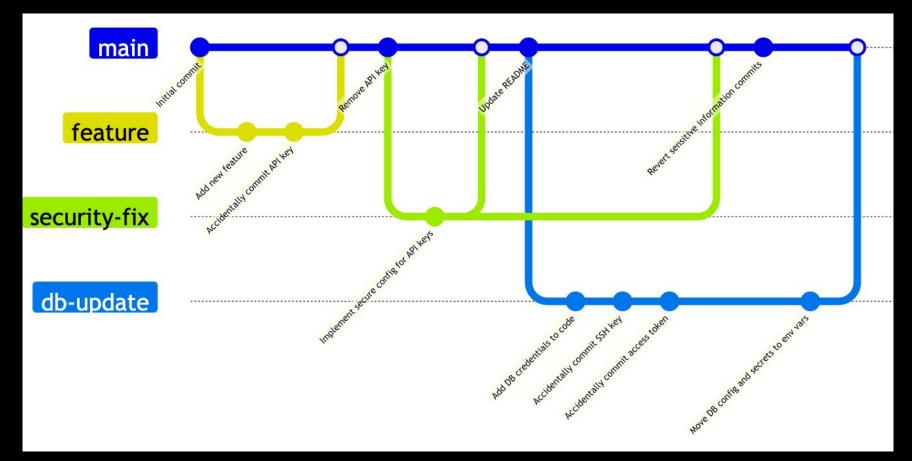
Why Are Git Repositories Vulnerable?

- Collaborative Nature
- Ease of Accidental Commits
- Growing Number of Repositories and Codebases



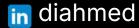


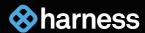
What are Secrets in Code?



Shifting Left on Security

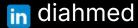
- Catch issues early in the development cycle.
- Benefits:
 - Minimize exposure risk.
 - Reduce time and effort spent fixing issues later.

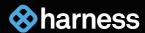




What is Gitleaks?

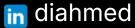
- An open-source secret scanner for git repositories, files, and directories.
- Key features:
 - Predefined and customizable secret patterns.
 - Lightweight and fast.
 - CI/CD integration.





Gitleaks rules

```
[[rules]]
id = "harness-api-key"
description = "Identified a Harness Access Token (PAT or SAT), risking unauthorized acces
regex = '''(?:pat|sat)\.[a-zA-Z0-9_-]{22}\.[a-zA-Z0-9]{24}\.[a-zA-Z0-9]{20}'''
keywords = [
    "pat.",
    "sat.",
]
```





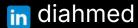
How Gitleaks works?

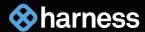
Detection Process:

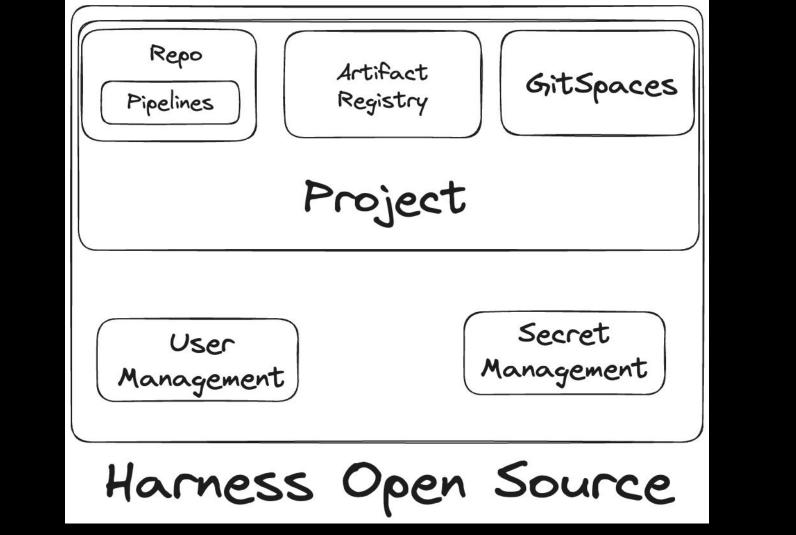
- Pattern-based scanning.
- Configurable rules.

Modes:

- Local scanning.
- Pre-commit hooks.
- CI/CD pipelines.







Harness Open Source vs Harness Platform

Easy

upgrade

Harness Open Source

Ideal for individual developers and small teams

Code Repository Continuous Integration Continuous Delivery **Artifact Registry** Cloud Development Environments

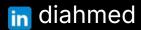
Harness Platform

Ideal for organizations looking for governance and scalability



Demo: Preventing Accidental Secret Commits

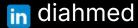


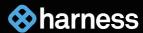




Recap

- Preventing accidental secret commits is critical to repository security.
- Gitleaks is a powerful, open-source tool for detecting secrets.
- Integrating tools like Harness Open Source enhances security and productivity.







https://bit.ly/harness-lab



https://bit.ly/harness-opensource

