

Part 1

Branch Protection:

Rulesets / main-protection (Active)

Ruleset Name * main-protection

Enforcement status Active

Bypass list

Bypass list is empty

+ Add bypass

Target branches

Which branches should be matched?

Branch targeting criteria

Add target

+ main

Applies to 1 target: main.

Rules

Which rules should be applied?

Branch rules

Restrict creations Only allow users with bypass permission to create matching refs.

Restrict updates Only allow users with bypass permission to update matching refs.

Restrict deletions Only allow users with bypass permissions to delete matching refs.

Require linear history Prevent merge commits from being pushed to matching refs.

Require deployments to succeed Choose which environments must be successfully deployed to before refs can be pushed into a ref that matches this rule.

Require signed commits Commits pushed to matching refs must have verified signatures.

Require a pull request before merging Require all commits be made to a non-target branch and submitted via a pull request before they can be merged.

Show additional settings

Part 2

```
(venv) sanchitsahay@sahyadri> git add secrets.py
(venv) sanchitsahay@sahyadri> cat secrets.py
slack_webhook_url = "https://hooks.slack.com/services/T00000000/B00000000/XXXXXXXXXXXXXXXXXXXXXX"
(venv) sanchitsahay@sahyadri> git commit -m "Does this get stopped"
TruffleHog Secret Scanner..... Failed
- hook id: trufflehog
- exit code: 1

pig🔑pig TruffleHog. Unearth your secrets. 🐷🔑🐷

2025-11-10T19:56:24-05:00      info-0  trufflehog      running source {"source_manager_worker_id": "Nu7gF", "with_units": true}
Found unverified result 🐷🔑 ?
Detector Type: SlackWebhook
Decoder Type: PLAIN
Raw result: https://hooks.slack.com/services/T00000000/B00000000/XXXXXXXXXXXXXXXXXXXXXX
Rotation_guide: https://howtorotate.com/docs/tutorials/slack-webhook/
File: secrets.py
Line: 1

2025-11-10T19:56:24-05:00      info-0  trufflehog      finished scanning      {"chunks": 1, "bytes": 10
0, "verified_secrets": 0, "unverified_secrets": 1, "scan_duration": "223.023792ms", "trufflehog_version": "3.90.13", "verification_caching": {"Hits":0,"Misses":1,"HitsWasted":0,"AttemptsSaved":0,"VerificationTimeSpentMS":219}}
```

Part 3

Deleted file:

A screenshot of a GitHub commit page. The commit hash is `bcdc34c`, made by user `stupendoussuperpowers` committed now. The commit message is "Whoops". The file `personal.txt` has been deleted, indicated by a red minus sign icon. The commit has 1 parent, `2bfed8b`, commit `bcdc34c`. The file content was:

```
... @@ -0,0 +1,5 @@
1 + These are my personal details:
2 + John Doe
3 + 55 55ST W, NY
4 +
5 + 555 555 5555
```

Commands:

```
git-filter-repo --path personal.txt --invert-paths --force
git push origin main --force
```

Part 5

```
(venv) sanchitsahay@sahyadri> poetry run pytest --cov=.
=====
 test session starts =====
platform darwin -- Python 3.13.4, pytest-9.0.0, pluggy-1.6.0
rootdir: /Users/sanchitsahay/code/courses/scss/scss_hw1
configfile: pyproject.toml
plugins: anyio-4.11.0, cov-7.0.0
collected 16 items

tests/test_rekor_monitor.py .. [100%]

=====
 tests coverage =====
coverage: platform darwin, python 3.13.4-final-0

Name           Stmts   Miss  Cover
-----
main.py          119     14    88%
merkle_proof.py    124     24    81%
tests/_init__.py      0      0  100%
tests/test_rekor_monitor.py 89      1    99%
util.py          22      3    86%
-----
TOTAL            354     42    88%
=====
 16 passed in 3.97s
(venv) sanchitsahay@sahyadri>
```