Vulnerability & Misconfiguration Scanner - Trivy



Agenda

- What did you do for your artifacts to ensure its security & configuration correct?
- What kind of concern are?
- Trivy An vulnerability & misconfiguration scanner tool
- Difficult to use?
- Q&A

What did you do for your artifacts to ensure its security & configuration correct?

Docker Image

• Push image to registry directly

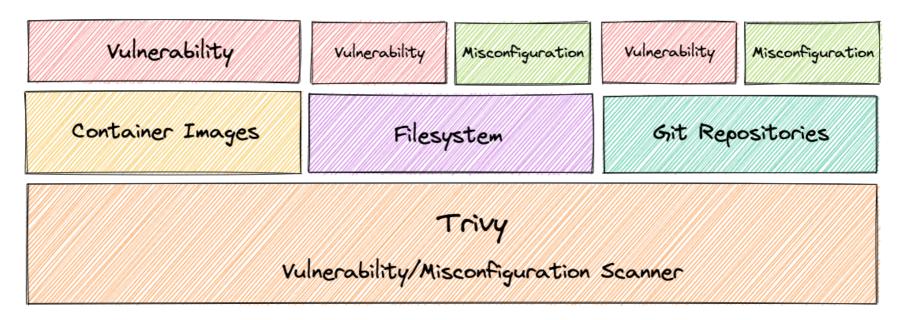
What kind of concern are?

Maybe

- Your base image has know/unfixed vulnerabilities
- Your artifacts contains some wrong config
- Your write some backdoor unconsciously
- ...

Trivy - An vulnerability & misconfiguration scanner tool

Capability



Working principle







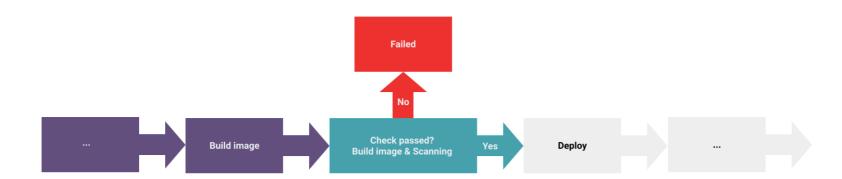


1

Difficult to use?

Talks is cheep, show me code

Pipeline



Image

```
docker run --rm -v \
   /var/run/docker.sock:/var/run/docker.sock \
   aquasec/trivy image \
   -- severity HIGH, CRIT CONTINUES Trivy scanner
   --exit-code 1 \
   dashboard:${{ github
  https://github.con
   Dashboard/runs/4
   check_suite_focu
                                        2021-11-03T00:21:07.346Z INFO Detecting Debian vulnerabilities...
                                        2021-11-03T00:21:07.367Z INFO Number of language-specific files: 0
                                        dashboard:dc266d0260f05098138d5b03797cebdfe72b7842 (debian 10.11)
                                       Total: 30 (HIGH: 26, CRITICAL: 4)
                                      33 | LIBRARY | VULNERABILITY ID | SEVERITY | INSTALLED VERSION | FIXED VERSION
```

Repo

```
docker run --rm -v \
  /var/run/docker.sock:/var/run/docker.sock \
  aquasec/trivy repo \
  --severity HIGH,CRITICAL \
  --exit-code 1 \
  https://github.com/guzhongren/Buildkite-Dashboard
```

FS

```
docker run --rm -v \
  /var/run/docker.sock:/var/run/docker.sock \
  aquasec/trivy fs \
  --severity HIGH, CRITICAL \
  --exit-code 1 \
  ./
```

https://github.com/guzhongren/Buildkite-

Dashboard/runs/4093499534?

check_suite_focus=true

Config

```
docker run --rm -v \
  /var/run/docker.sock:/var/run/docker.sock \
  aquasec/trivy config \
  --severity HIGH, CRITICAL \
  --security-checks vuln, config \
  --exit-code 1 \
  ./
```

https://github.com

Dashboard/runs/4

Check_suite_focularies

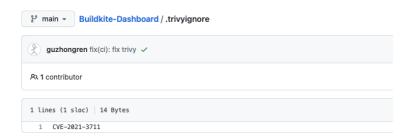
| ***Part | ***Part

.trivyignore

CVE-2021-3711

https://github.com/guzhongren/Buildkite-

Dashboard/blob/main/.trivyignore



Refs

- https://aquasecurity.github.io/trivy
- https://github.com/aquasecurity/trivy
- http://guzhongren.github.io/2021/08/container-image-scanner-trivy/
- ...

Q&A

Thank you!