Grype Vulnerability scanner

CONCEPTS

Grype matches the packages it finds (or reads from an SBOM) against a local vulnerability DB. It reports; it does not generate SBOMs (that is Syft).

Source image, dir, SBOM, PURL
↓ catalog
Packages OS and language deps
↓ match
Vuln DB local, auto-updated
↓ filter
Report table, json, sarif, cyclonedx

A bare argument is auto-detected (local daemon, then registry, then path). Add a scheme prefix or --from when the guess is wrong.

SCAN SOURCES

grype *<image>*
Scan an image (name:tag)

grype dir:*<path>*
Scan a directory

grype sbom:*<file>*
Scan a Syft/SPDX/CycloneDX SBOM

cat *<sbom.json>* **| grype**
Read an SBOM from stdin

grype docker:*<image>*
Force the local Docker daemon

grype registry:*<image>*
Force a pull from the registry

grype podman:*<image>*
Use the Podman daemon

grype docker-archive:*<file.tar>*
Scan a docker save tarball

grype pkg:*<purl>*
Check one package URL

--platform *<os/arch>*
Pick the image platform (linux/arm64)

--scope all-layers
Include layers hidden by later ones

--exclude *<glob>*
Skip matching paths (repeatable)

FILTERING

--only-fixed
Show only vulns with a fix available

--ignore-states *<list>*
Drop fix states: fixed,not-fixed,unknown,wont-fix

--vex *<file>*
Apply a VEX document (repeatable)

--by-cve
Report by CVE ID, not GHSA ID

--sort-by *<key>*
Order: risk, severity, epss, kev, package

--ignore-states wont-fix
Skip issues the vendor will not fix

grype explain --id *<CVE>*
Explain why a CVE matched

OUTPUT AND CI

--fail-on *<severity>*
Exit code 2 at or above this severity

-o table
Human-readable table (default)

-o json
Full JSON report

-o sarif
SARIF for code-scanning tools

-o cyclonedx-json
CycloneDX report with vulns

-o json=*<file>*
Write one format to a file

--file *<path>*
Write the report to a file

-q
Quiet: no log output

-v / -vv
Info / debug logging

grype --version
Print the version

IGNORE RULES AND CONFIG

.grype.yaml
Config file in the project root

IGNORE RULES AND CONFIG (cont.)

-c *<file>*
Use a specific config file

ignore: - vulnerability: *<CVE>*
Suppress one CVE

ignore: fix-state: not-fixed
Suppress by fix state

ignore: package: name: *<regex>*
Suppress by package name

ignore: reason: *<text>*
Record why it is ignored

fail-on-severity: high
Config form of --fail-on

GRYPE_*<KEY>***=***<value>*
Set any option via environment

DATABASE

grype db update
Download the latest database

grype db check
Is a newer database available

grype db status
Show the cached DB's age and validity

grype db import *<file|url>*
Load a DB archive (air-gapped)

grype db search --vuln *<ID>*
Look up a vulnerability in the DB

grype db search --pkg *<name>*
Find vulns for a package, CPE or PURL

GRYPE_DB_AUTO_UPDATE=false
Do not fetch updates during a scan

RECIPES

Gate CI on fixable high-severity issues

```
grype <image> --only-fixed --fail-on high
```

Scan once, report as SARIF and JSON

```
grype <image> -o sarif=grype.sarif -o json=grype.json
```