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Docker static code analysis

Unique rules to find Vulnerabilities, Security Hotspots, and Code Smells in your DOCKER code

All rules 44

Vulnerability 4

Bug 4

Security Hotspot 15

Code Smell 21

Tags

Impact

Clean code attribute

Search by name...



Too long RUN instruction should be split into multiple lines

Code Smell

Prefer Exec form for ENTRYPOINT and CMD instructions

Code Smell

"WORKDIR" instruction should be used instead of "cd" commands

Code Smell

Specific version tag for image should be used

Code Smell

Package update should not be executed without installing it

Code Smell

Cache should be cleaned after package installation

Code Smell

Deprecated instructions should not be used

Code Smell

Consent flag should be set to avoid manual input

Code Smell

Environment variables should not be unset on a different layer than they were set

Code Smell

Expanded filenames should not become options

Code Smell

Double quote to prevent globbing and word splitting

Code Smell

Instructions should be upper case

Code Smell

Too long RUN instruction should be split into multiple lines

Consistency - Conventional

Maintainability

Code Smell

Major

Having long RUN instruction on a single line reduce the visibility and make it harder to read and understand.

Why is this an issue?

How can I fix it?

More Info

Code examples

Noncompliant code example

```
RUN apt-get update && apt-get install -y package-bar package-baz package-foo package-eel
```

Compliant solution

```
# Split shell form
RUN apt-get update && \
  apt-get install -y \
  package-bar \
  package-baz \
  package-foo \
  package-eel

# Heredoc form
RUN <<EOF
apt-get update
apt-get install -y \
  package-bar \
  package-baz \
  package-foo \
  package-eel
EOF
```

Available In:

sonarlint

sonarcloud

sonarqube

Analyze your code

