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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

Analyze your code

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

In Dockerfiles, `RUN` instruction tend to be extensive and can rapidly become quite long, containing a lot of instruction with parameters and flags.
In order to keep a good readability and help for future maintenance, it is important to split them into multiple lines.
It is usually a good idea to group elements that belong together on the same lines.
The usage of the operator `&&` allows to chain multiple operators. Also, the default operator `\` allows to continue the `RUN` instruction on the next line.
Another way is to use the here documents format, which allows to define multiple instructions together without any chaining operator.

Available In:
sonarlint | sonarcloud | sonarqube