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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...

Code Smell
Prefer COPY over ADD for copying local resources
Code Smell
WORKDIR instruction should only be used with absolute path
Code Smell
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

## Reduce the amount of consecutive RUN instructions

Analyze your code

Consistency - Conventional Maintainability

Code Smell Major

Multiplying the number of RUN instructions increases the final image build time and size.

Why is this an issue? How can I fix it? More Info

## Code examples

### Noncompliant code example

```
RUN curl -SL "https://nodejs.org/dist/v${NODE_VERSION}/node-v${NODE_VERSION}-linux-x64.tar.gz" --output nodejs.tar.gz
RUN echo "$NODE_DOWNLOAD_SHA nodejs.tar.gz" | sha256sum -c -
RUN tar -xzf "nodejs.tar.gz" -C /usr/local --strip-components=1
RUN rm nodejs.tar.gz
RUN ln -s /usr/local/bin/node /usr/local/bin/nodejs
```

### Compliant solution

```
RUN curl -SL "https://nodejs.org/dist/v${NODE_VERSION}/node-v${NODE_VERSION}-linux-x64.tar.gz" --output nodejs.tar.gz \
&& echo "$NODE_DOWNLOAD_SHA nodejs.tar.gz" | sha256sum -c - \
&& tar -xzf "nodejs.tar.gz" -C /usr/local --strip-components=1 \
&& rm nodejs.tar.gz \
&& ln -s /usr/local/bin/node /usr/local/bin/nodejs
```

Available In: sonarlint | sonarcloud | sonarqube

