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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

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Allowing non-root users to modify resources copied to an image is security-sensitive
Security Hotspot
Automatically installing recommended packages is security-sensitive
Security Hotspot
Running containers as a privileged user is security-sensitive
Security Hotspot
Delivering code in production with debug features activated is security-sensitive
Security Hotspot
Use ADD instruction to retrieve remote resources
Code Smell
Arguments in long RUN instructions should be sorted
Code Smell
Track uses of "TODO" tags
Code Smell
Descriptive labels are mandatory
Code Smell
Use digest to pin versions of base images
Code Smell
Dockerfile parsing failure
Code Smell
Pulling an image based on its digest is security-sensitive
Security Hotspot

Arguments in long RUN instructions should be sorted

Analyze your code

- Consistency - Conventional
- Maintainability
- Reliability
- Security

Code Smell Minor

In Dockerfiles, when commands within a RUN instruction have a lot of arguments, especially those that install system packages, it is important to ensure that the arguments are sorted alphabetically (if the order is not enforced by a command). This practice enhances the readability and maintainability of the code. It allows for easier tracking of modifications and can help prevent potential errors.

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

Code examples

Noncompliant code example

```
FROM ubuntu:20.04

RUN apt-get update && apt-get install -y \
    unzip \
    wget \
    curl \
    git \
    zip

FROM alpine:3.12

RUN apk add unzip wget curl git zip
```

Compliant solution

```
FROM ubuntu:20.04

RUN apt-get update && apt-get install -y \
    curl \
    git \
    unzip \
    wget \
    zip

FROM alpine:3.12

RUN apk add curl git unzip wget zip
```

Available In:
 | |

