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## Docker static code analysis

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

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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
Expanded filenames should not become options

## Prefer COPY over ADD for copying local resources

Analyze your code

- Consistency - Conventional
- Maintainability ⬆
- Reliability ⬆
- Security ⬇

Code Smell Major ⓘ

In Dockerfiles, it is recommended to use the COPY instruction over the ADD instruction for copying local resources. The COPY instruction is more straightforward and less prone to errors, making it a better choice for copying local files and directories into a Docker image.

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

Using the ADD instruction instead of COPY for local resources in Dockerfiles can lead to several issues, including unexpected behavior, increased complexity, and security risks. The ADD instruction has additional features that can introduce unintended side effects, such as automatically extracting compressed files and fetching remote resources. This can make the behavior of the instruction less predictable and harder to understand or even lead to security issues, if, for example, due to a typo in the source path, the ADD instruction could fetch a remote resource instead of copying a local file.

If you only need to copy local files or directories into your Docker image, it is recommended to use the COPY instruction instead. Only use the ADD instruction when you need its additional features, such as fetching remote resources or extracting compressed files. See also the rule [S7026](#) for more information on using the ADD instruction to fetch remote resources.

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