Secrets ABAP Apex

- AzureResourceManager
- **C** C
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- Dart
- **Docker**
- X Flex
-
- 近 Java
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- JCL JCL
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- PL/SQL PL/SQL
- **P**ython
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T-SQL

- VP NE
- XML XML

Docker static code analysis Unique rules to find Vulnerabilities, Security Hotspots,

and Code Smells in your DOCKER code



Tags

"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
Allowing non-root users to modify resources copied to an image is security-sensitive
Security Hotspot

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

Clean code attribute

✓ Search by name...

Analyze your code

Why is this an issue?	How can I fix it?	More Info	
In Dockerfile, instructions I	RUN, CMD, and ENTRY	POINT can cont	tain long shell scripts chaining multiple commands, including the cd command for changing directories. Using WORKDIR instruction instead reduces the

What is the potential impact?

Intentionality - Clear Maintainability 🛆

WORKDIR /app/bin

Impact

The Dockerfile instructions like RUN allow users to execute longer scripts. See the following example:

complexity of the above instructions and makes them easier to read, understand, troubleshoot, and maintain.

```
RUN cd /tmp && \
git clone myrepository.com/MyOrganization/project && \
cd project && \
make && \
cd /app/bin
```

In this example, the first cd /tmp command can be replaced by WORKDIR /tmp before RUN. The last cd /app/bin command can be replaced with WORKDIR /app/bin after the RUN instruction. The result will be the following:

```
WORKDIR /tmp

RUN git clone myrepository.com/MyOrganization/project && \

cd project && \

make
```

Those actions will reduce the length of the RUN instruction, which makes it easier to read and understand. Sometimes, it is hard to avoid the usage of cd command, especially in the middle of a long script. Removing them from the beginning and end of a multi-line is an easy improvement. Additionally, many commands work well with absolute paths, so changing directories can be avoided in most cases.

The WORKDIR instruction can be used multiple times in a Dockerfile. It changes the current directory for the next instructions and until there is a following change. This approach simplifies understanding of what is a current directory.

The same principles apply to CMD and ENTRYPOINT instructions.

This recommendation provides a clear structure for Dockerfiles, making it easier to maintain.

Available In:

sonarlint sonarcloud sonarqube

