





































-  Secrets
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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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Permissions of sensitive mount points should be restrictive
 Vulnerability
Server certificates should be verified during SSL/TLS connections
 Vulnerability
Weak SSL/TLS protocols should not be used
 Vulnerability
Disabling builder sandboxes is security-sensitive
 Security Hotspot
Exposing administration services is security-sensitive
 Security Hotspot
Recursively copying context directories is security-sensitive
 Security Hotspot
Using clear-text protocols is security-sensitive
 Security Hotspot
Using weak hashing algorithms is security-sensitive
 Security Hotspot
Malformed JSON in Exec form leads to unexpected behavior
 Bug
Dockerfile should only have one ENTRYPOINT and CMD instruction
 Bug
Access variable which is not available in the current scope
 Bug

Permissions of sensitive mount points should be restrictive

Analyze your code

- Intentionality - Complete
- Security 🔴

 Vulnerability  Critical ⓘ  dockerfile cwe

For mounts types `secret` and `ssh`, Dockerfile’s `RUN` instruction supports a `mode` option for setting permissions. If you set this mode so that any user of the operating system can access the mount, it is vulnerable to leaks.

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

Docker offers a feature to mount files and directories for specific `RUN` instructions when building Docker images. This feature can be used to provide secrets to commands that are executed during the build without baking them into the image. Additionally, it can be used to access SSH agents during the build.

The `mode` option is an octal value that allows you to specify the permissions for a particular file or directory. By default, on Docker, when mounting a `secret`, it is set to `0400`.

For `ssh`, it is set by default to `0600`:

- The first digit `0` stands for special permissions (like `setuid`, `setgid` and sticky bit) and in this case means that no special permissions are set.
- The following `6` (4+2 in octal format) means that the `owner` has read (4) and write (2) permissions
- `00` means that the `group` and `others` have no permissions.

If the `others` bit is set to a value other than `0` at build-time, any other process can access it when the `RUN` command is executed: the secrets are vulnerable to supply chain attacks that aim to siphon secrets from containers.

What is the potential impact?

Unauthorized access

The unintended audience can exploit the leaked private key or equivalent to authenticate themselves as the legitimate owner, gaining unauthorized entry to systems, servers, or accounts that accept the key for authentication.

This unauthorized access opens the door for various malicious activities, including data breaches, unauthorized modifications, and misuse of sensitive information.

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