

































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Kubernetes static code analysis

Unique rules to find Security Hotspots in your KUBERNETES code

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Mounting sensitive file system paths is security-sensitive

 Security Hotspot

Using host operating system namespaces is security-sensitive

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Allowing process privilege escalations is security-sensitive

 Security Hotspot

Exposing Docker sockets is security-sensitive

 Security Hotspot


Running containers in privileged mode is security-sensitive

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Setting capabilities is security-sensitive

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Kubernetes parsing failure

 Code Smell

Exposing Docker sockets is security-sensitive

Analyze your code

 Security Hotspot  Major   cwe

Exposing Docker sockets can lead to compromise of the host systems.

The Docker daemon provides an API to access its functionality, for example through a UNIX domain socket. Mounting the Docker socket into a container allows the container to control the Docker daemon of the host system, resulting in full access over the whole system. A compromised or rogue container with access to the Docker socket could endanger the integrity of the whole Kubernetes cluster.

Ask Yourself Whether

- The Pod is untrusted or might contain vulnerabilities.

There is a risk if you answered yes to any of those questions.

Recommended Secure Coding Practices

It is recommended to never add a Docker socket as a volume to a Pod.

Sensitive Code Example

```
apiVersion: v1
kind: Pod
metadata:
  name: test
spec:
  containers:
    - image: k8s.gcr.io/test-webserver
      name: test-container
      volumeMounts:
        - mountPath: /var/run/docker.sock
          name: test-volume
  volumes:
    - name: test-volume
      hostPath:
        path: /var/run/docker.sock # Sensitive
        type: Socket
```

Compliant Solution

```
apiVersion: v1
kind: Pod
metadata:
  name: test
spec:
  containers:
    - image: k8s.gcr.io/test-webserver
      name: test-container
```

See

- [Kubernetes Documentation](#) - Volumes
- [Docker Documentation](#) - Daemon socket option
- [MITRE, CWE-284](#) - Improper Access Control

