CVE-2019-11245

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CVE-2019-11245 - advisory for

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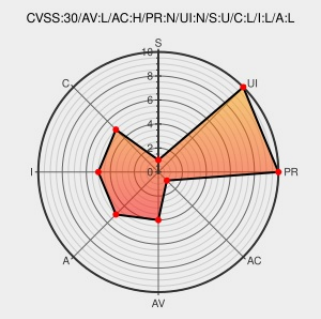

Certain versions of Kubernetes from Kubernetes contain the following vulnerability:

In kubelet v1.13.6 and v1.14.2, containers for pods that do not specify an explicit runAsUser attempt to run as uid 0 (root) on container restart, or if the image was previously pulled to the node. If the pod specified mustRunAsNonRoot: true, the kubelet will refuse to start the container as root. If the pod did not specify mustRunAsNonRoot: true, the kubelet will run the container as uid 0.

CVE-2019-11245 has been assigned by security@kubernetes.io to track the vulnerability - currently rated as HIGH severity.

Affected Vendor/Software: **Kubernetes** - **Kubernetes** version **= v1.13.6**

Affected Vendor/Software: **Kubernetes** - **Kubernetes** version **= v1.14.2**

Vulnerability Patch/Work Around

Specify runAsUser directives in pods to control the uid a container runs as. Specify mustRunAsNonRoot:true directives in pods to prevent starting as root (note this means the attempt to start the container will fail on affected kubelet versions).

CVSS3 Score: 7.8 - HIGH

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	LOW	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: 4.6 - MEDIUM

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality	**Integrity**	**Availability**

Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
CVE-2019-11245: v1.14.2, v1.13.6: container uid changes to root after first restart or if image is already pulled to the node · Issue #78308 · kubernetes/kubernetes · GitHub	Exploit, Patch, Third Party Advisory, github.com, text/html	CONFIRM github.com/kubernetes/kubernetes/issues/78308
September 2019 Kubernetes Vulnerabilities in NetApp Products | NetApp Product Security	security.netapp.com, text/html	CONFIRM security.netapp.com/advisory/ntap-20190919-0003/

Related QID Numbers

377861 Kubernetes kubelet Container Uid Changes to Root Vulnerability

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Kubernetes	Kubernetes	1.13.6	All	All	All
Application	Kubernetes	Kubernetes	1.14.2	All	All	All
Application	Kubernetes	Kubernetes	1.13.6	All	All	All
Application	Kubernetes	Kubernetes	1.14.2	All	All	All

cpe:2.3:a:kubernetes:kubernetes:1.13.6:*:*:*:*:*:*:*:

cpe:2.3:a:kubernetes:kubernetes:1.14.2:*:*:*:*:*:*:*:

cpe:2.3:a:kubernetes:kubernetes:1.13.6:*:*:*:*:*:*:*:

cpe:2.3:a:kubernetes:kubernetes:1.14.2:*:*:*:*:*:*:*:

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