CVE-2023-23939

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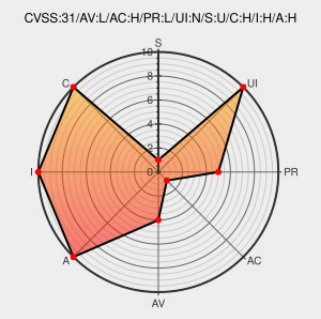
CVE-2023-23939 - advisory for GHSA-p756-rfxh-x63h

Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Azure Setup Kubectl from Microsoft contain the following vulnerability:

Azure/setup-kubectl is a GitHub Action for installing Kubectl. This vulnerability only impacts versions before version 3. An insecure temporary creation of a file allows other actors on the Actions runner to replace the Kubectl binary created by this action because it is world writable. This Kubectl tool installer runs `fs.chmodSync(kubectlPath, 777)` to set permissions on the Kubectl binary, however, this allows any local user to replace the Kubectl binary. This allows privilege escalation to the user that can also run kubectl, most likely root. This attack is only possible if an attacker somehow breached the GitHub actions runner or if a user is utilizing an Action that maliciously executes this attack. This has been fixed and released in all versions `v3` and later. 775 permissions are used instead. Users are advised to upgrade. There are no known workarounds for this issue.

CVE-2023-23939 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as HIGH severity.

Affected Vendor/Software: **Azure** - **setup-kubectl** version **= < 3**

CVSS3 Score: 7 - HIGH

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

CVE References

Description	Tags	Link
lower permissions for chmod (#51) · Azure/setup-kubectl@d449d75 · GitHub	github.com text/html	MISC github.com/Azure/setup-kubectl/commit/d449d75495d2b9d1463555bb00ca3dca77a42ab6
Azure/setup-kubectl: Escalation of privilege vulnerability	github.com	MISC github.com/Azure/setup-

Azure/setup-kubectl: Escalation of privilege vulnerability for v3 and lower · Advisory · Azure/setup-kubectl · GitHub | github.com | text/html | MISC github.com/Azure/setup-kubectl/security/advisories/GHSA-p756-rfxh-x63h

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Microsoft	Azure Setup Kubectl	All	All	All	All

cpe:2.3:a:microsoft:azure_setup_kubectl:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2023-23939 : Azure/setup-kubectl is a GitHub Action for installing Kubectl. This vulnerability only impacts ver… twitter.com/i/web/status/1…	2023-03-06 19:02:44
/r/netcve	CVE-2023-23939	2023-03-06 20:38:05
/r/Team_IT_Security	CVE-2023-23939 | Microsoft Azure setup-kubectl prior 3 permission assignment (GHSA-p756-rfxh-x63h)	2023-03-31 21:37:10

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