CVE-2020-15228

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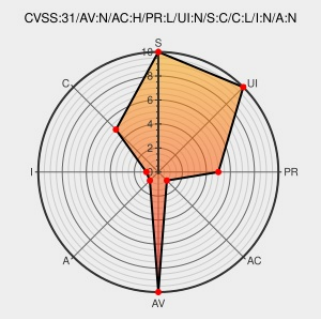
CVE-2020-15228 - advisory for GHSA-mfwh-5m23-j46w

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



Certain versions of Toolkit from Toolkit Project contain the following vulnerability:

In the `@actions/core` npm module before version 1.2.6,`addPath` and `exportVariable` functions communicate with the Actions Runner over stdout by generating a string in a specific format. Workflows that log untrusted data to stdout may invoke these commands, resulting in the path or environment variables being modified without the intention of the workflow or action author. The runner will release an update that disables the `set-env` and `add-path` workflow commands in the near future. For now, users should upgrade to `@actions/core v1.2.6` or later, and replace any instance of the `set-env` or `add-path` commands in their workflows with the new Environment File Syntax. Workflows and actions using the old commands or older versions of the toolkit will start to warn, then error out during workflow execution.

CVE-2020-15228 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as MEDIUM severity.

Affected Vendor/Software: **actions** - **toolkit** version **< 1.2.6**

CVSS3 Score: 5 - MEDIUM

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	LOW	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
CHANGED	NONE	LOW	NONE

CVSS2 Score: 4 - MEDIUM

Access Vector	Access Complexity	Authentication
NETWORK	LOW	SINGLE
Confidentiality	**Integrity**	**Availability**

Confidentiality Impact	Integrity Impact	Availability Impact
NONE	PARTIAL	NONE

CVE References

Description	Tags	Link
GitHub Widespread Injection ≈ Packet Storm	Exploit, Third Party Advisory, VDB Entry, packetstormsecurity.com, text/html	MISC packetstormsecurity.com/files/159794/GitHub-Widespread-Injection.html
`add-path` and `set-env` Runner commands are processed via stdout · Advisory · actions/toolkit · GitHub	Third Party Advisory, github.com, text/html	CONFIRM github.com/actions/toolkit/security/advisories/GHSA-mfwh-5m23-j46w

Related QID Numbers

980056 Nodejs (npm) Security Update for @actions/core (GHSA-mfwh-5m23-j46w)

Exploit/POC from Github

Fix CVE-2020-15228 (set-env, add-path in Github-Actions)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Toolkit Project	Toolkit	All	All	All	All
Application	Toolkit Project	Toolkit	All	All	All	All

cpe:2.3:a:toolkit_project:toolkit:*:*:*:*:*:node.js:*:*

cpe:2.3:a:toolkit_project:toolkit:*:*:*:*:*:node.js:*:*

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@evntdrvn	@mountain_ghosts It did (set-env), until	2021-05-17 12:58:29
@LinInfoSec	Npm - CVE-2020-15228: github.com/actions/toolki…	2021-11-18 21:46:12
@setup_php	setup-php v1 is not vulnerable to CVE-2020-15228 and any issues claiming so are created in error (? with details)	2022-02-02 09:53:56

/r/AZURE	CVE-2020-15228 redux: Azure DevOps Pipelines RCE	2021-04-01 12:56:12
/r/azuredevops	CVE-2020-15228 redux: Azure DevOps Pipelines RCE	2021-04-01 12:51:56

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CVE.report and Source URL Uptime Status status.cve.report