CVE-2021-32724

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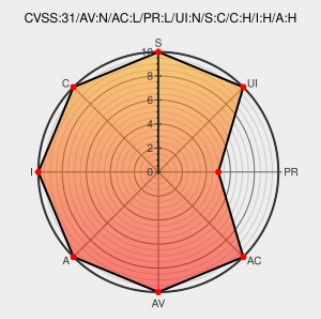
CVE-2021-32724 - advisory for GHSA-g86g-chm8-7r2p

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



Certain versions of Check-spelling from Check-spelling contain the following vulnerability:

check-spelling is a github action which provides CI spell checking. In affected versions and for a repository with the [check-spelling action](https://github.com/marketplace/actions/check-spelling) enabled that triggers on `pull_request_target` (or `schedule`), an attacker can send a crafted Pull Request that causes a `GITHUB_TOKEN` to be exposed. With the `GITHUB_TOKEN`, it's possible to push commits to the repository bypassing standard approval processes. Commits to the repository could then steal any/all secrets available to the repository. As a workaround users may can either: [Disable the workflow](https://docs.github.com/en/actions/managing-workflow-runs/disabling-and-enabling-a-workflow) until you've fixed all branches or Set repository to [Allow specific actions](https://docs.github.com/en/github/administering-a-repository/managing-repository-settings/disabling-or-limiting-github-actions-for-a-repository#allowing-specific-actions-to-run). check-spelling isn't a verified creator and it certainly won't be anytime soon. You could then explicitly add other actions that your repository uses. Set repository [Workflow permissions](https://docs.github.com/en/github/administering-a-repository/managing-repository-settings/disabling-or-limiting-github-actions-for-a-repository#setting-the-permissions-of-the-github_token-for-your-repository) to `Read repository contents permission`. Workflows using `check-spelling/check-spelling@main` will get the fix automatically. Workflows using a pinned sha or tagged version will need to change the affected workflows for all repository branches to the latest version. Users can verify who and which Pull Requests have been running the action by looking up the spelling.yml action in the Actions tab of their repositories, e.g., https://github.com/check-spelling/check-spelling/actions/workflows/spelling.yml - you can filter PRs by adding ?query=event%3Apull_request_target, e.g., https://github.com/check-spelling/check-spelling/actions/workflows/spelling.yml?query=event%3Apull_request_target.

CVE-2021-32724 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as CRITICAL severity.

Affected Vendor/Software: **check-spelling** - **check-spelling** version **< 0.0.19**

CVSS3 Score: 9.9 - CRITICAL

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

CVSS2 Score: 6.8 - MEDIUM

Access Vector	Access Complexity	Authentication
NETWORK	MEDIUM	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
check-spelling workflow vulnerable to GITHUB_TOKEN leakage via symlink attack · Advisory · check-spelling/check-spelling · GitHub	github.com text/html	CONFIRM github.com/check-spelling/check-spelling/security/advisories/GHSA-g86g-chm8-7r2p
Merge pull request from GHSA-g86g-chm8-7r2p · check-spelling/check-spelling@436362f · GitHub	github.com text/html	MISC github.com/check-spelling/check-spelling/commit/436362fc6b588d9d561cbdb575260ca593c8dc56

There are currently no QIDs associated with this CVE

Exploit/POC from Github

Dummy github repo for CVE-2021-32724 vulnerability exploit testing

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Check-spelling	Check-spelling	All	All	All	All

cpe:2.3:a:check-spelling:check-spelling:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2021-32724 : check-spelling is a github action which provides CI spell checking. In affected versions and for a… twitter.com/i/web/status/1…	2021-09-09 21:04:21
@JGamblin	This was an interesting @github actions vulnerability (CVE-2021-32724): github.com/check-spelling…	2021-09-09 21:57:07
/r/bag_o_news	CVE-2021-32724 - GitHub Actions check-spelling community workflow - GITHUB_TOKEN leakage via advice.txt symlink	2021-09-10 10:05:48

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