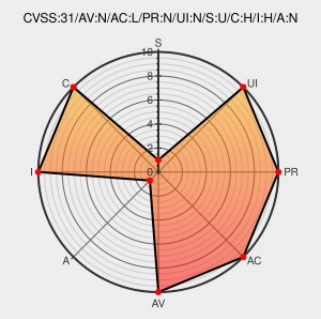
CVE-2021-29504

Published on: 06/07/2021 12:00:00 AM UTC

Last Modified on: 06/17/2021 03:33:00 PM UTC

CVE-2021-29504 - advisory for GHSA-rwgm-f83r-v3qj

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



Certain versions of Wp-cli from Wp-cli contain the following vulnerability:

WP-CLI is the command-line interface for WordPress. An improper error handling in HTTPS requests management in WP-CLI version 0.12.0 and later allows remote attackers able to intercept the communication to remotely disable the certificate verification on WP-CLI side, gaining full control over the communication content, including the ability to impersonate update servers and push malicious updates towards WordPress instances controlled by the vulnerable WP-CLI agent, or push malicious updates toward WP-CLI itself. The vulnerability stems from the fact that the default behavior of `WP_CLI\Utils\http_request()` when encountering a TLS handshake error is to disable certificate validation and retry the same request. The default behavior has been changed with version 2.5.0 of WP-CLI and the `wp-cli/wp-cli` framework (via https://github.com/wp-cli/wp-cli/pull/5523) so that the `WP_CLI\Utils\http_request()` method accepts an `$insecure` option that is `false` by default and consequently that a TLS handshake failure is a hard error by default. This new default is a breaking change and ripples through to all consumers of `WP_CLI\Utils\http_request()`, including those in separate WP-CLI bundled or third-party packages. https://github.com/wp-cli/wp-cli/pull/5523 has also added an `--insecure` flag to the `cli update` command to counter this breaking change. There is no direct workaround for the default insecure behavior of `wp-cli/wp-cli` versions before 2.5.0. The workaround for dealing with the breaking change in the commands directly affected by the new secure default behavior is to add the `--insecure` flag to manually opt-in to the previous insecure behavior.

CVE-2021-29504 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as HIGH severity.

Affected Vendor/Software: **wp-cli** - **wp-cli** version **< 2.5.0**

CVSS3 Score: 7.4 - HIGH

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	HIGH	NONE	NONE

Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	NONE

CVSS2 Score: 7.5 - HIGH

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE

Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
Add `--insecure` flag to `core download` & `core update` commands by schlessera · Pull Request #186 · wp-cli/core-command · GitHub	github.com text/html	MISC github.com/wp-cli/core-command/pull/186
Add `--insecure` flag to `package install` command by schlessera · Pull Request #138 · wp-cli/package-command · GitHub	github.com text/html	MISC github.com/wp-cli/package-command/pull/138
Disable automatic retry by default on certificate validation error by schlessera · Pull Request #5523 · wp-cli/wp-cli · GitHub	github.com text/html	MISC github.com/wp-cli/wp-cli/pull/5523
Add `--insecure` flag to `core|plugin verify-checksums` commands by schlessera · Pull Request #86 · wp-cli/checksum-command · GitHub	github.com text/html	MISC github.com/wp-cli/checksum-command/pull/86
Improper Certificate Validation in WP-CLI framework · Advisory · wp-cli/wp-cli · GitHub	github.com text/html	CONFIRM github.com/wp-cli/wp-cli/security/advisories/GHSA-rwgm-f83r-v3qj
Add `--insecure` flag to `config create` & `config shuffle-salts` commands by schlessera · Pull Request #128 · wp-cli/config-command · GitHub	github.com text/html	MISC github.com/wp-cli/config-command/pull/128
Add `--insecure` flag to `plugin|theme install` & `plugin\theme update` commands by schlessera · Pull Request #287 · wp-cli/extension-command · GitHub	github.com text/html	MISC github.com/wp-cli/extension-command/pull/287

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Wp-cli	Wp-cli	All	All	All	All

cpe:2.3:a:wp-cli:wp-cli:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2021-29504 : WP-CLI is the command-line interface for WordPress. An improper error handling in HTTPS requests m… twitter.com/i/web/status/1…	2021-06-07 20:54:13
/r/netcve	CVE-2021-29504	2021-06-07 21:41:53

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