CVE-2023-30845

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CVE-2023-30845 - advisory for GHSA-6qmp-9p95-fc5f

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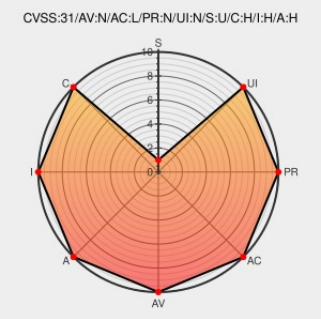

Certain versions of Espv2 from Google contain the following vulnerability:

ESPv2 is a service proxy that provides API management capabilities using Google Service Infrastructure. ESPv2 2.20.0 through 2.42.0 contains an authentication bypass vulnerability. API clients can craft a malicious `X-HTTP-Method-Override` header value to bypass JWT authentication in specific cases. ESPv2 allows malicious requests to bypass authentication if both the conditions are true: The requested HTTP method is **not** in the API service definition (OpenAPI spec or gRPC `google.api.http` proto annotations, and the specified `X-HTTP-Method-Override` is a valid HTTP method in the API service definition. ESPv2 will forward the request to your backend without checking the JWT. Attackers can craft requests with a malicious `X-HTTP-Method-Override` value that allows them to bypass specifying JWTs. Restricting API access with API keys works as intended and is not affected by this vulnerability. Upgrade deployments to release v2.43.0 or higher to receive a patch. This release ensures that JWT authentication occurs, even when the caller specifies `x-http-method-override`. `x-http-method-override` is still supported by v2.43.0+. API clients can continue sending this header to ESPv2.

CVE-2023-30845 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as CRITICAL severity.

Affected Vendor/Software: **GoogleCloudPlatform** - **esp-v2** version **= >= 2.20.0, < 2.43.0**

CVSS3 Score: 9.8 - CRITICAL

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

CVE References

Description	Tags	Link
Add back in HTTP method override in service control filter (#802) · GoogleCloudPlatform/esp-v2@e98061e · GitHub	github.com text/html	MISC github.com/GoogleCloudPlatform/esp-v2/commit/e98061ee4527a564506ba4e814c0ecf324dc2c6f
move x-http-method-override to beginning of filter chain (#801) · GoogleCloudPlatform/esp-v2@e956701 · GitHub	github.com text/html	MISC github.com/GoogleCloudPlatform/esp-v2/commit/e95670146f5e96bb5565b0a9c1e153886b3e04ce
Changelog for v2.43.0 · GoogleCloudPlatform/esp-v2@0bcdfc0 · GitHub	github.com text/html	MISC github.com/GoogleCloudPlatform/esp-v2/commit/0bcdfc024ce96b34db4e1b4f2211b509d9be93cd
JWT authentication bypass via `X-HTTP-Method-Override` header · Advisory · GoogleCloudPlatform/esp-v2 · GitHub	github.com text/html	MISC github.com/GoogleCloudPlatform/esp-v2/security/advisories/GHSA-6qmp-9p95-fc5f

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Google	Espv2	All	All	All	All

cpe:2.3:a:google:espv2:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2023-30845 : ESPv2 is a service proxy that provides API management capabilities using Google Service Infrastruc… twitter.com/i/web/status/1…	2023-04-26 21:06:53
@Robo_Alerts	Potentially Critical CVE Detected! CVE-2023-30845 ESPv2 is a service proxy that provides API management capabilitie… twitter.com/i/web/status/1…	2023-04-26 22:10:58

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