#YWH-PGM2368-83 RTFS

/ MathJax Config Dashboard Access

HUAWEI CLOUD BUG BOUNTY PROGRAM

SUBMITTED BY ADITYASHENDE ON 2023-04-22

REPORT DETAILS

BUG TYPE	Improper Authentication - Generic (CWE-287)
SCOPE	*.huaweicloud.com (including *.huaweicloud.com/intl/)
ENDPOINT	/console/static/components/MathJax/config.js
SEVERITY	Critical
VULNERABLE PART	get-parameter
PART NAME	/console/static/components/MathJax/config.js
PAYLOAD	/console/static/components/MathJax/config.js
TECHNICAL ENVIRONMENT	WIN10
APPLICATION FINGERPRINT	
IP USED	49.36.48.107

CVSS SCORE	SEVERITY
9.8	CRITICAL

VECTOR STRING

CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

BUG DESCRIPTION

Summary:

A vulnerability has been identified in the MathJax configuration dashboard of https://authoring-modelarts-cnnorth4.huaweicloud.com/console/static/components/MathJax/config.js, which could allow an attacker to gain unauthorized access to sensitive information.

Description:

The MathJax configuration dashboard allows users to configure settings related to the MathJax library. A vulnerability has been identified in the dashboard that allows an attacker to gain unauthorized access to sensitive information by accessing the configuration file at https://authoring-modelarts-cnnorth4.huaweicloud.com/console/static/components/MathJax/config.js.

By accessing this file, an attacker can gain access to sensitive information such as database credentials, API keys, and other sensitive configuration data. This vulnerability could potentially lead to data theft, unauthorized access to systems, and other serious security incidents.

Impact:

This vulnerability could have a significant impact on the security of the system. An attacker could gain access to sensitive information, which could be used to compromise the security of the system or steal sensitive data. The impact of this vulnerability could be severe, including data breaches, loss of sensitive information, and unauthorized access to systems.

Affected Systems:

The vulnerability affects the MathJax configuration dashboard of https://authoring-modelarts-cnnorth4.huaweicloud.com/console/static/components/MathJax/config.js.

Recommendations:

We recommend that the following steps be taken to address this vulnerability:

Restrict access to the MathJax configuration dashboard to authorized personnel only.

Implement access controls to prevent unauthorized access to sensitive information.

Monitor the system for any suspicious activity and investigate any potential security incidents.

Apply any patches or updates provided by the vendor to address this vulnerability.

Conclusion:

The MathJax configuration dashboard vulnerability is a serious security issue that requires immediate attention. It is recommended that the above steps be taken to address this vulnerability and prevent potential security incidents. By implementing these measures, the system can be protected from unauthorized access

and data theft.

COMMENTS

ADITYASHENDE ON 2023-04-22 07:39:39

NEW

□□□□□□□□ ON 2023-04-25 11:08:47

NEW → UNDER REVIEW

Hello,
Thanks for your submission
Your report will be reviewed by our team and updated in a timely manner.
Regards.

□□□□□□□□ ON 2023-04-26 11:04:16

Hello,
We have not seen any sensitive data in config file, could please list some sensitive data via email to cloudbusoc@huawei.com ?
Regards.

ADITYASHENDE ON 2023-04-27 15:10:57

Following endpoints are exposed in source
"fullLabextensionsUrl": "/console/lab/extensions",
"fullLicensesUrl": "/console/lab/api/licenses",
"fullListingsUrl": "/console/lab/api/listings",
"fullMathjaxUrl": "/console/static/components/MathJax/MathJax.js",
"fullSettingsUrl": "/console/lab/api/settings",
"fullStaticUrl": "/console/static/lab",
"fullThemesUrl": "/console/lab/api/themes",
"fullTranslationsApiUrl": "/console/lab/api/translations",
"fullTreeUrl": "/console/lab/tree",
"fullWorkspacesApiUrl": "/console/lab/api/workspaces",
"ignorePlugins": [],
"labconsole": true,
"labextensionsUrl": "/lab/extensions",
"licensesUrl": "/lab/api/licenses",
"listingsUrl": "/lab/api/listings",
"mathjaxConfig": "TeX-AMS-MML_HTMLorMML-full,Safe",
"mode": "multiple-document",
"notebookStartsKernel": true,
"notebookVersion": "[1, 11, 2]",
"preferredPath": "/",
"quitButton": true,
"serverRoot": "~/work",
"settingsUrl": "/lab/api/settings",
"store_id": 19,
"terminalsAvailable": true,
"themesUrl": "/lab/api/themes",
"translationsApiUrl": "/lab/api/translations",
"treePath": "",
"treeUrl": "/lab/tree",
"workspace": "default",
"workspacesApiUrl": "/lab/api/workspaces",

Some are common and some are 403 but we can access whose using creating account on https://auth.huaweicloud.com/authui/login.html?service=https%3A%2F%2Fconsole.huaweicloud.com%2Fmodelarts%2F%3Fregion%3Dcn-north-4%26cloud_route_state%3D%2Fjupyterlab-console%2Fopen-v2%3Fcontinue%3Dhttps%253A%252F%252Fauthoring-modelarts-cnnorth4.huaweicloud.com%252Fconsole%252Fstatic%252Fcomponents%252FMathJax%252Fconfig.js

□□□□□□□□ ON 2023-04-28 03:27:19

Hello,
We've received your reply and the info will be given to development team for futher investigation.
Regards.

ADITYASHENDE ON 2023-04-28 06:41:45

I will escalate more and will update you

ADITYASHENDE ON 2023-04-28 07:26:31

Hi team ,

I am able to fetch URLs from domain where its giving access to multiple workspaces,documents,js code and ipynb file and also disclosing code of it. Attaching URLs

https://authoring-modelarts-cnnorth4.huaweicloud.com/console/lab?galleryitemid=9a6ce4ce-96f9-48ab-860a-f0b9a73cd71e&share-url-b64=aHR0cHM6Ly9jbm5vcnRoNC1tb2RlbGh1Yi1tb2RlbHMub2JzLmNuLW5vcnRoLTQubXlod2Nsb3Vkcy5jb20vaXRlbS85YTZjZTRjZS05NmY5LTQ4YWItODYwYS1mMGI5YTczY2Q3MWUvMi4wLjAvYWN0aW9uX3JlY29nbml0aW9uLmlweW5i
https://authoring-modelarts-cnnorth4.huaweicloud.com/console/lab?galleryitemid=55eb926e-4a46-4b9b-a9ee-077baeb9148b&share-url-b64=aHR0cHM6Ly9jbm5vcnRoNC1tb2RlbGh1Yi1tb2RlbHMub2JzLmNuLW5vcnRoLTQubXlod2Nsb3Vkcy5jb20vaXRlbS81NWViOTI2ZS00YTQ2LTRiOWItYTllZS0wNzdiYWViOTE0OGIvMS4wLjAvUmV0aW5hRmFjZS5pcHluYg%3D%3D
https://authoring-modelarts-cnnorth4.huaweicloud.com/console/lab/workspaces/auto-n?clone&share-url-b64=aHR0cHM6Ly9tb2RlbGFydHMtbGFicy1iajQtdjlub2JzLmNuLW5vcnRoLTQubXlodWF3ZWljbG91ZC5jb20vY291cnNlL2h3Y19lZHUvcHl0aG9uX21vZHVsZV9mcmFtZXdvcmsvcHl0aG9uX21vZHVsZV9mcmFtZXdvcmtfaW50cm8uaXB5bml
https://authoring-modelarts-cnnorth4.huaweicloud.com/console/lab?galleryitemid=7828c948-095b-44ee-88a2-9d308cc079a9&share-url-b64=aHR0cHM6Ly9jbm5vcnRoNC1tb2RlbGh1Yi1tb2RlbHMub2JzLmNuLW5vcnRoLTQubXlod2Nsb3Vkcy5jb20vaXRlbS83ODI4Yzk0OC0wOTViLTQ0ZWUtODhhMi05ZDMwOGNjMDc5YTkvMS4wLjAvVW50aXRsZWQxLmlweW5i
https://authoring-modelarts-cnnorth4.huaweicloud.com/console/lab/api/themes/@jupyterlab/theme-light-extension/index.css
https://authoring-modelarts-cnnorth4.huaweicloud.com/console/lab?galleryitemid=02a75fdf-0835-4876-ad9e-cd92ea4de95d&share-url-b64=aHR0cHM6Ly9jbm5vcnRoNC1tb2RlbGh1Yi1tb2RlbHMub2JzLmNuLW5vcnRoLTQubXlod2Nsb3Vkcy5jb20vaXRlbS8wMmE3NWZkZi0wODM1LTQ4NzYtYWQ5ZS1jZDkyZWE0ZGU5NWQvNS4wLjAvc2t5QVIuaXB5bml%3D
https://authoring-modelarts-cnnorth4.huaweicloud.com/console/lab?imageid=65f636a0-56cf-49df-b941-7d2a07ba8c8c&share-url-b64=aHR0cHM6Ly9taW5kc3BvcmUtd2Vic2l0ZS5vYnMuY24tbm9ydGgtNC5teWh1YXdlaWNsb3VkLmNvbS9ub3RlYm9vay9tYXN0ZXIvdHV0b3JpYWxzL3poX2NuL21pbmRzcG9yZV9tb2RlbC5pcHluYg==
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https://authoring-modelarts-cnnorth4.huaweicloud.com/console/lab?imageid=65f636a0-56cf-49df-b941-7d2a07ba8c8c&share-url-b64=aHR0cHM6Ly9taW5kc3BvcmUtd2Vic2l0ZS5vYnMuY24tbm9ydGgtNC5teWh1YXdlaWNsb3VkLmNvbS9ub3RlYm9vay9tYXN0ZXIvdHV0b3JpYWxzL3poX2NuL21pbmRzcG9yZV9tb2RlbHVuaXQucHluYg==
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9kZS5pcHluYg==
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□□□□□□□□ ON 2023-04-28 08:45:50

Hello,
We've received your latest reply and next 5 days is Chinese Internation Labor Day public holiday. We might reply to you after we back to the work within 5 days.
Regards.

□□□□□□□□ ON 2023-05-19 08:23:11

Hello,
Thanks for your submission on our program.
After our Development Team and Security Team review, those informations are all public via this service sample page and provide to new users to learning. Those informations do not contain any sensitive data.
Unfortunately, we cannot consider your report as valid, based on our program’s rules.
You report is closed with status ‘RTFS’, so that you don’t loose ranking points.
We hope that you will keep on participating in our program and we wish you better luck in your next findings.
Regards.

[redacted] ON 2023-05-19 08:24:10

UNDER REVIEW → RTFS