Django URL跳转漏洞分析(CVE-2018-14574)

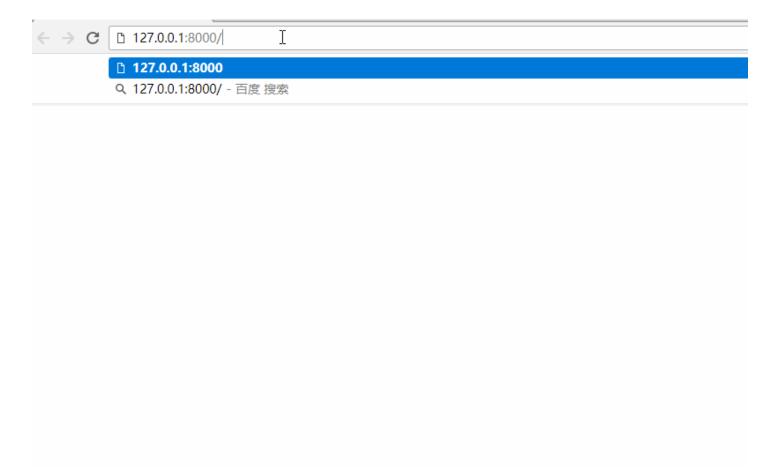
xman21 / 2018-11-17 08:30:00 / 浏览数 4527 技术文章 技术文章 顶(0) 踩(0)

零、基本信息

CVE-ID: CVE-2018-14574 漏洞类型: URL跳转

影响范围: 1.11.0 <= version < 1.11.15 和 2.0.0 <= version < 2.0.8

一、环境复现



二、漏洞分析

当setting中配置了django.middleware.common.CommonMiddleware且APPEND_SLASH为True时漏洞就会触发,而这两个配置时默认存在的,而且APPEND_SLASH不

- Forbid access to User-Agents in settings.DISALLOWED_USER_AGENTS
- URL rewriting: Based on the APPEND_SLASH and PREPEND_WWW settings, append missing slashes and/or prepends missing "www."s.
- If APPEND_SLASH is set and the initial URL doesn't end with a slash, and it is not found in urlpatterns, form a new URL by appending a slash at the end. If this new URL is found in urlpatterns, return an HTTP redirect to this new URL; otherwise process the initial URL as usual.

This behavior can be customized by subclassing CommonMiddleware and overriding the response_redirect_class attribute.

- ETags: If the USE_ETAGS setting is set, ETags will be calculated from the entire page content and Not Modified responses will be returned appropriately. USE_ETAGS is deprecated in favor of ConditionalGetMiddleware.

而漏洞就与URL



但是当发起当发起类似这样的请求http://127.0.0.1:8000//baidu.com

```
程序就会进行设定的跳转,首先会执行process_request()函数,在61行进入get_full_path_with_slash()函数

# Check if a slash should be appended

if self.should_redirect_with_slash(request):

path = self.get_full_path_with_slash(request)

else:

path = request.get_full_path()
```

```
def get_full_path_with_slash(self, request):

Return the full path of the request with a trailing slash appended.

Raise a RuntimeError if settings. DEBUG is True and request. method is

POST, PUT, or PATCH.

"""

new_path = request.get_full_path(force_append_slash=True)

if settings. DEBUG and request. method in ('POST', 'PUT', 'PATCH'):

raise RuntimeError(

"You called this URL via %(method)s, but the "variable method"

"in a slash and you have APPEND_SLASH set. Dyngo tany.

"redirect to the slash URL while maintaining %(method)s data."

"Change your form to point to %(url)s (note the trailing "

"slash), or set APPEND_SLASH=False in your Django settings." % {

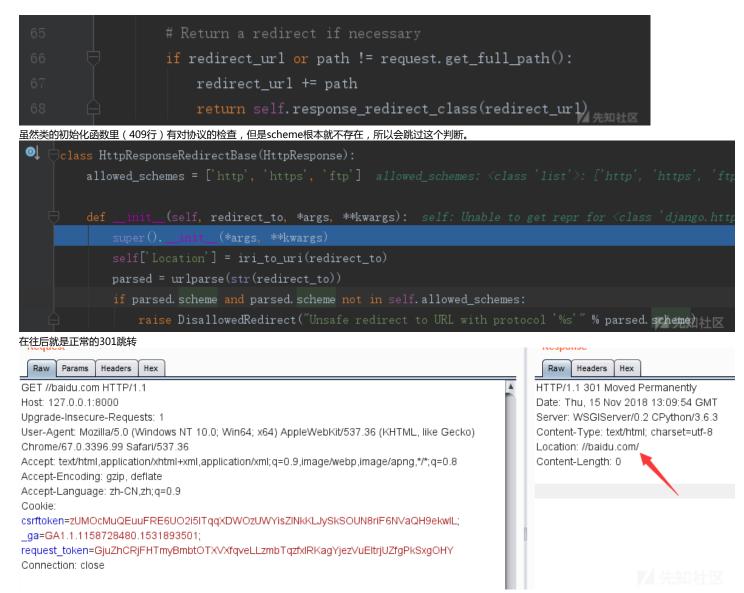
"method': request.method.

'url': request.get_host() + new_path.

}

return new_path
```

返回的new_path就是//baidu.com/ ,然后在68行进入HttpResponseRedirectBase这个类,它是HTTP跳转的一个基类



双斜线是为了告诉浏览器这是绝对路径,否则就会跳转到http://127.0.0.1:8000/baidu.com/_而不是baidu了。

三、补丁分析

修补方法就是加了一个编码函数,

对第二个/编码,这样就构不成绝对路径了



四、参考文献

 $\frac{\text{https://nvd.nist.gov/vuln/detail?vulnId} = 2018-14574}{\text{https://github.com/django/django/commit/6fffc3c6d420e44f4029d5643f38d00a39b08525\#diff-1f8be0eae49a1bf37d52829eaeda6a4eR14}}$

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1. 3条回复



Lilyan 2018-11-26 16:40:59

有个小疑问 为什么我使用 django 2.0.7 无法复现这个漏洞?想问一下 使用的那个及 .py 文件里面的规则是怎么写的??

0 回复Ta



xman21 2018-12-07 14:19:51



p****@qq.com 2019-01-24 14:35:16

零 亮了。。。。。

0 回复Ta

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