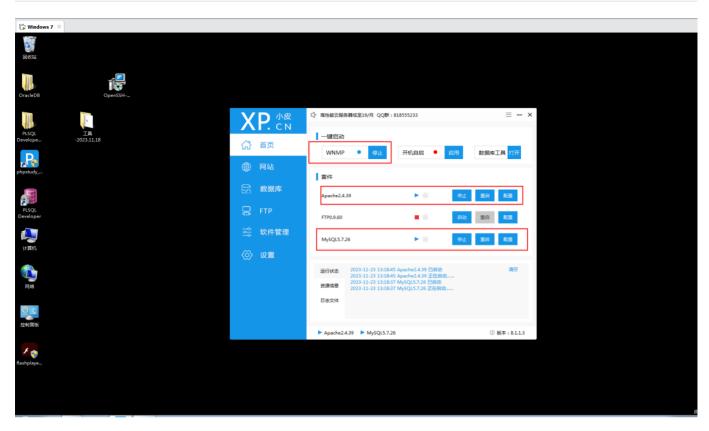
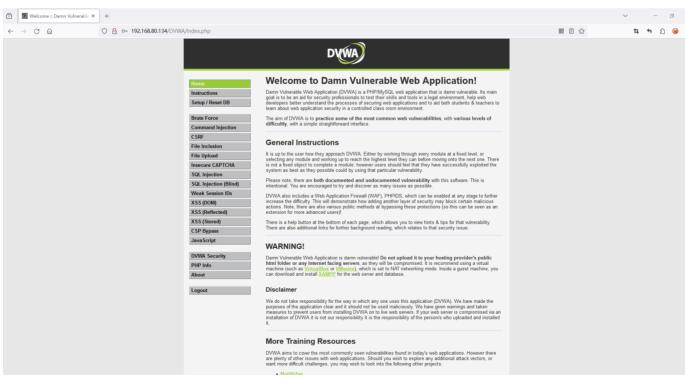
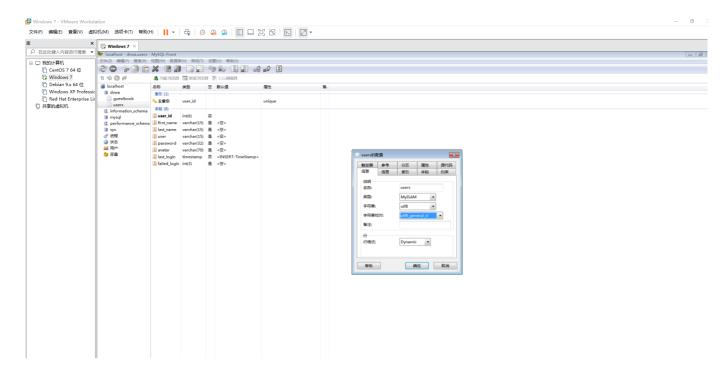
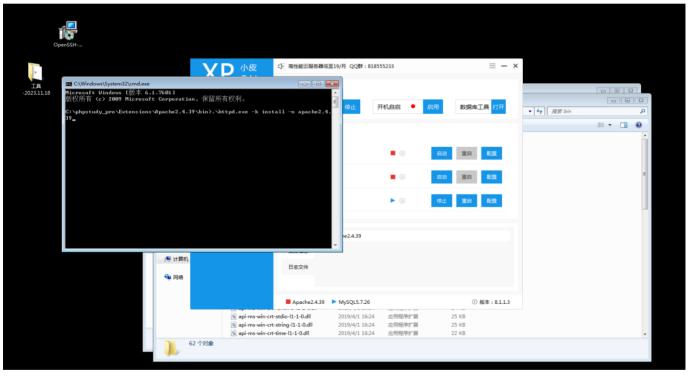
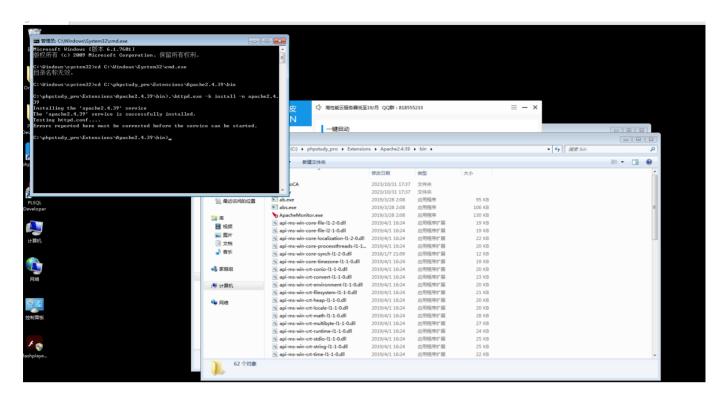
1.实现 WAF 安装与配置。

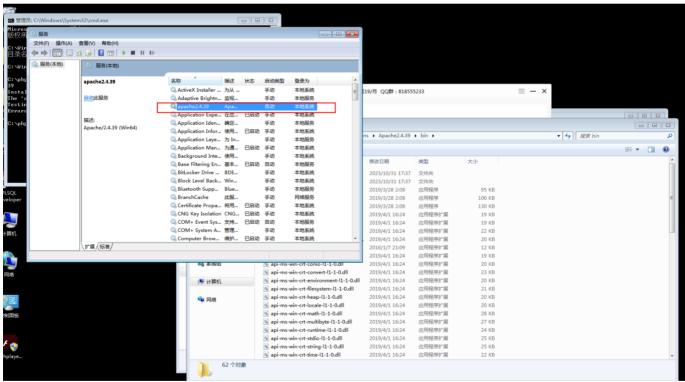


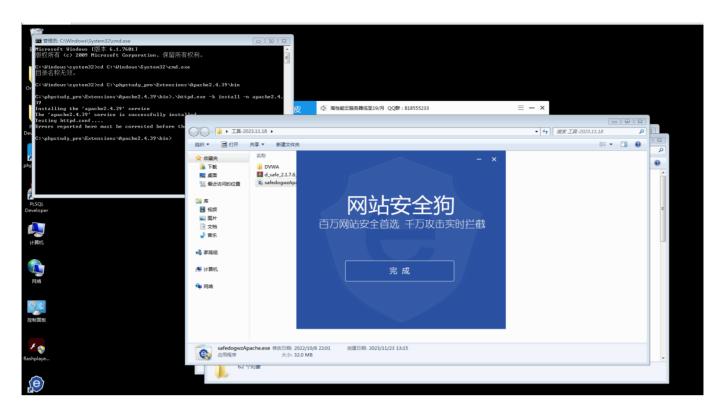


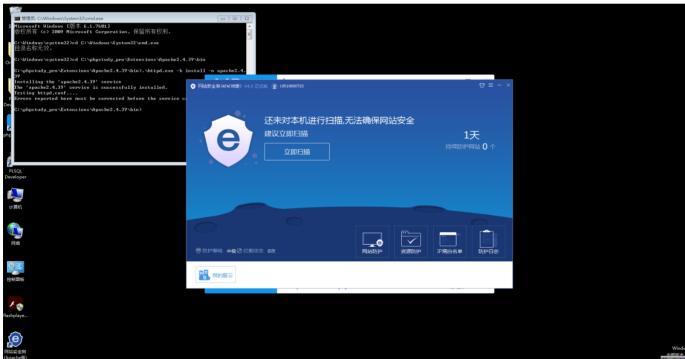






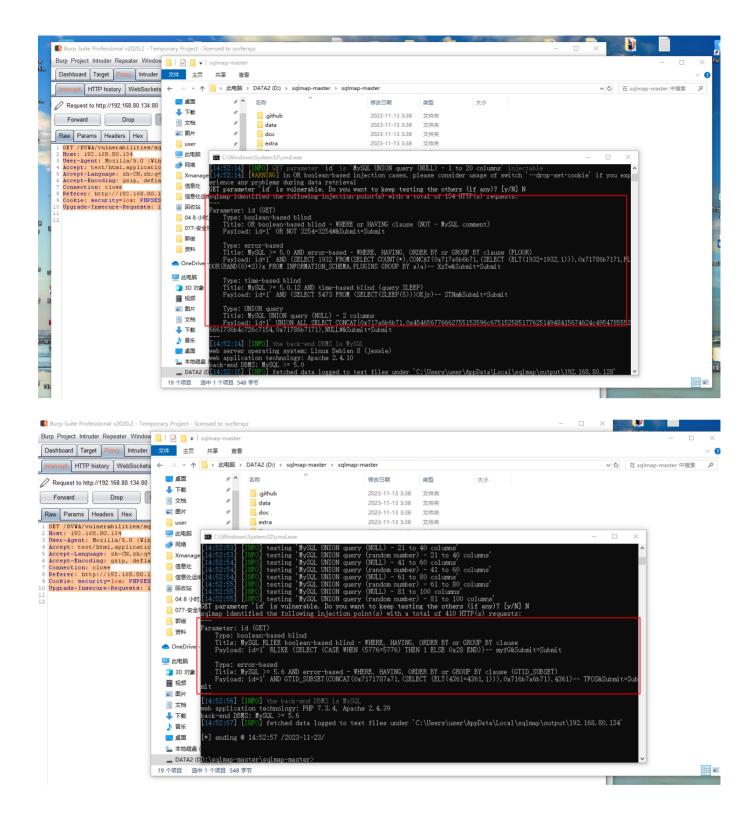




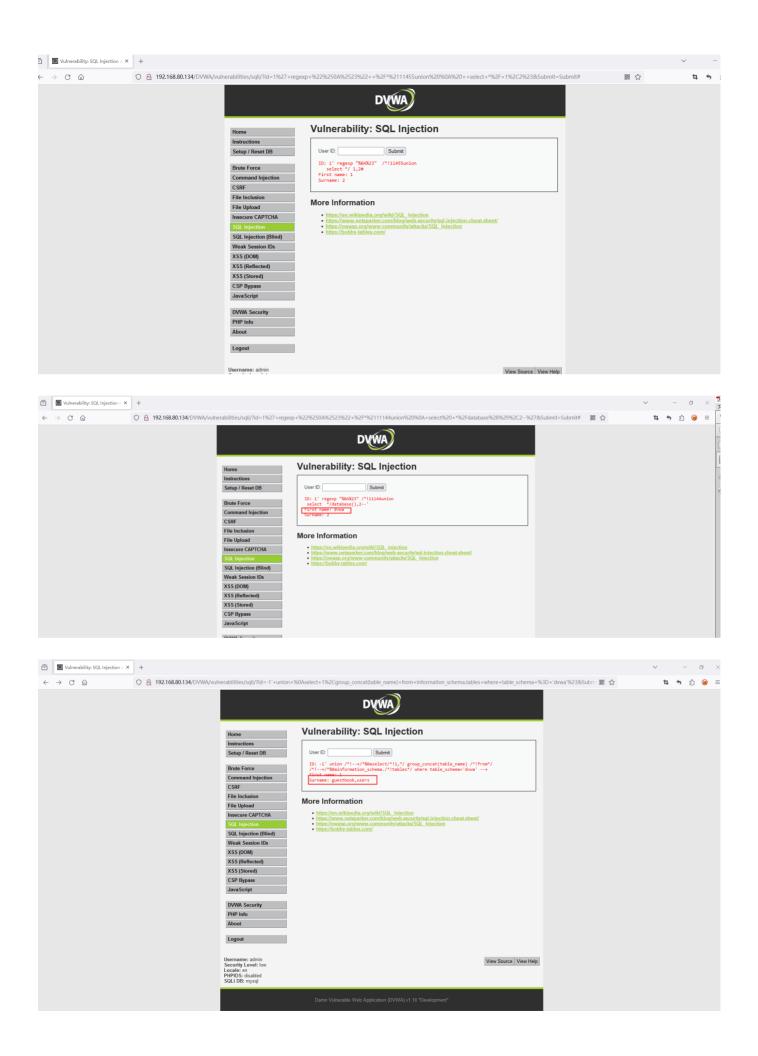


2.WAF 绕过SQL注入

1) 分别在无 WAF 和有 WAF 的情况下,利用 SQLMap 进行注入,提供注入结果截图。

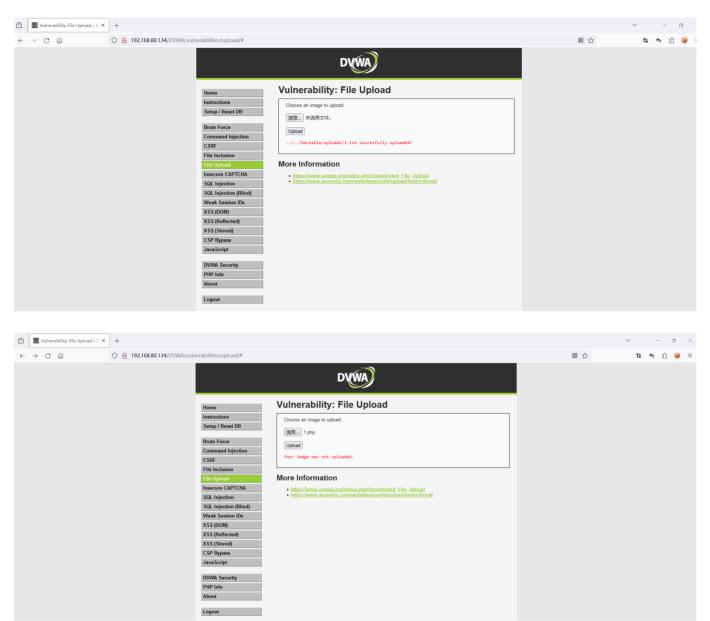


2) 在有 WAF 的情况下,手工注入出 DVWA 数据库中的 user 和 password, 提供注入过程说明文档。

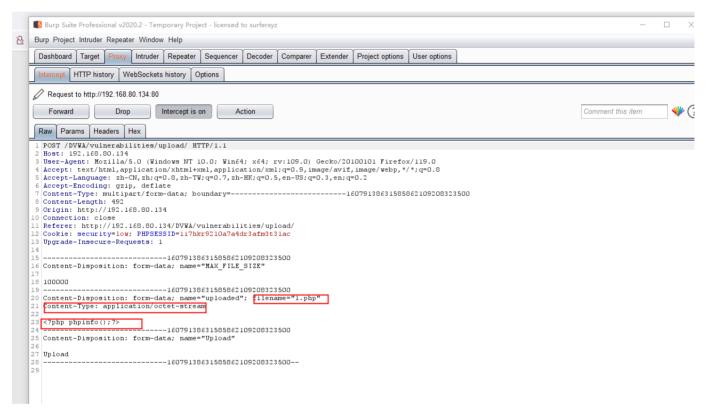


3.WAF 绕过文件上传: 判断安全狗对于上传文件的检测规则, 是基于文件后缀名、文件类型、文件内容中的哪项来进行匹配拦截, 给出推导过程。

文件内容相同,一个是1.txt,另一个是1.php。1.php被拦截

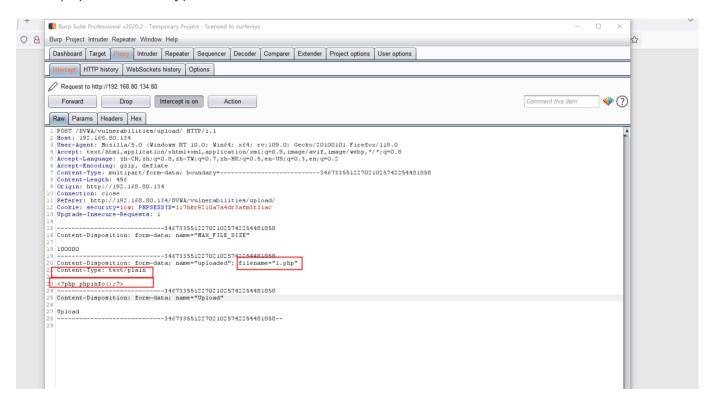


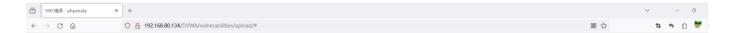




```
1 POST /DVWA/vulnerabilities/upload/ HTTP/1.1
 2 Host: 192.168.80.134
 3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/119.0
 4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: zh-CN, zh; q=0.8, zh-TW; q=0.7, zh-HK; q=0.5, en-US; q=0.3, en; q=0.2
 6 Accept-Encoding: gzip, deflate
 7 Content-Type: multipart/form-data; boundary=------72246110317616841181700310027
8 Content-Length: 478
9 Origin: http://192.168.80.134
10 Connection: close
11 Referer: http://192.168.80.134/DVWA/vulnerabilities/upload/
12 Cookie: security=low; PHPSESSID=1i7hkr9210a7a4dr3afm3t31ac
13 Upgrade-Insecure-Requests: 1
14
15 -----72246110317616841181700310027
16 Content-Disposition: form-data; name="MAX_FILE_SIZE"
18 100000
19 -----72246110317616841181700310027
20 Content-Disposition: form-data; name="uploaded"; filename="1.txt"
21 Content-Type: text/plain
23 <?php phpinfo();?>
                       -----72246110317616841181700310027
25 Content-Disposition: form-data; name="Upload"
26
27 Upload
          -----72246110317616841181700310027--
28 ----
29
```

改变1.php的Content-Type,还是被拦截







双写filename,成功绕过。

