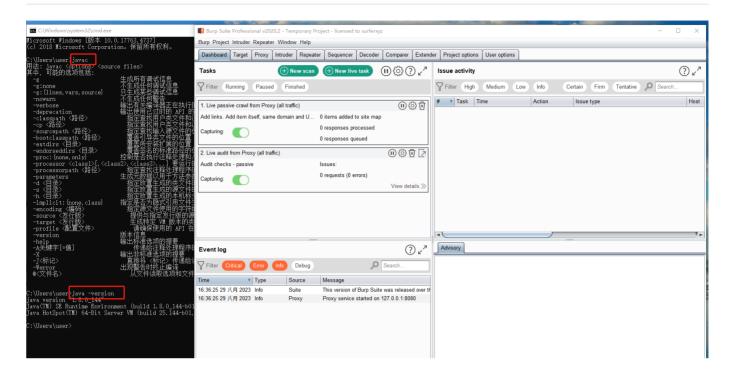
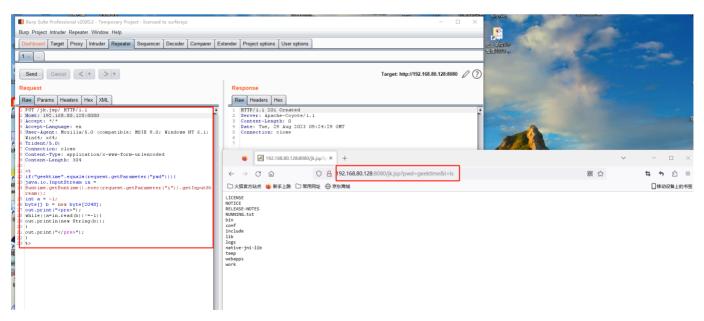
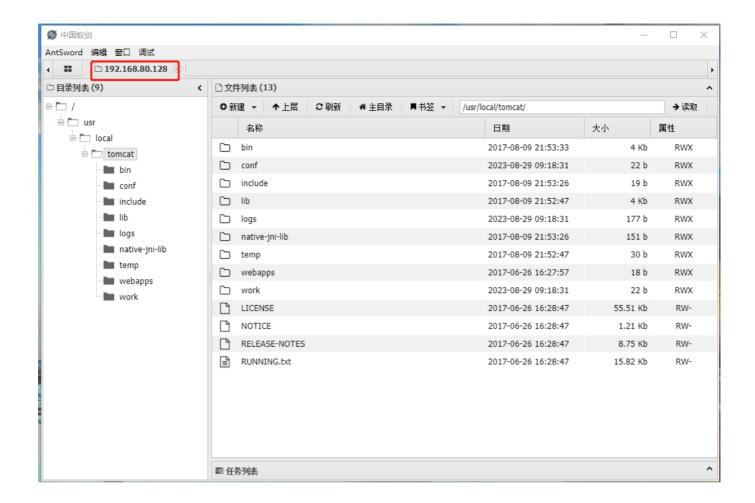
## 1.安装Java环境并激活Burp



# 2. 练习 Tomcat PUT 方法任意写文件漏洞 (CVE-2017-12615) , 提供命令执行截图。

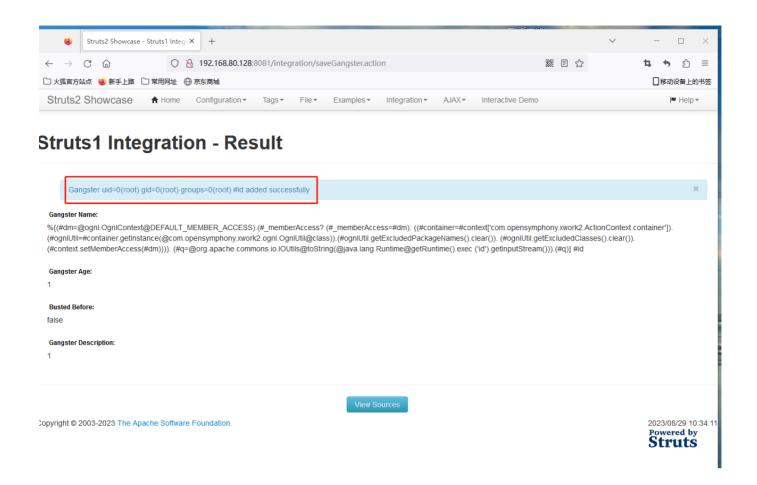
docker run -d -p 8080:8080 cved/cve-2017-12615





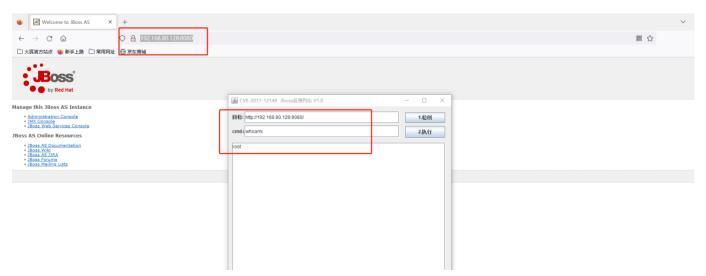
# 3.练习 S2-048 远程代码执行漏洞 (CVE-2017-9791) , 提供命令执行截图。

docker run -d -p 8081:8080 piesecurity/apache-struts2-cve-2017-5638



# 4.练习 JBoss 5.x/6.x 反序列化漏洞 (CVE-2017-12149) , 提供命令执行截图。

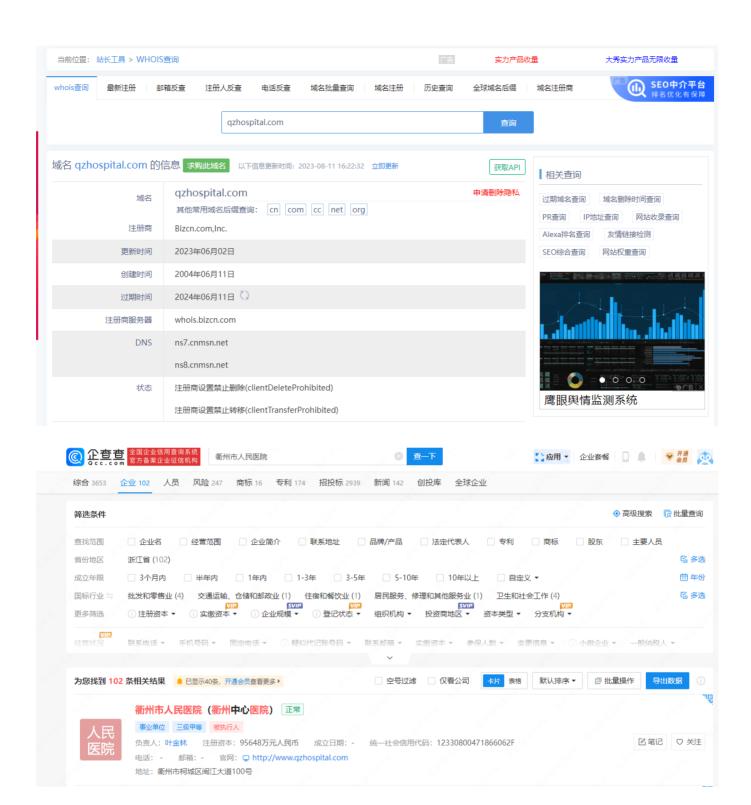
docker run -d -p 8080:8080 hackingpub/cve-2017-12149



5.安装并使用 Nmap 扫描一个地址 (本机、VPS、虚拟机环境都可以),提供扫描结果截图。

```
C:\Windows\system32\cmd eve
                                                                                                                                                                                                                                                                                                                                                                                         OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 8.34 seconds
   :\Users\user nmap -A -T4 -sT -sV 192.168.80.128/32
C. (Osers tase finish in the second of the s
  PORT STATE SERVICE
22/tcp open ssh
                                                                                     VERSION
                                                                                     OpenSSH 8.0 (protocol 2.0)
       ssh-hostkey:
             3072 ff:8d:c2:5e:ee:a6:67:ae:c9:ca:21:6a:1c:a9:c0:b8 (RSA)
256 b6:bf:66:6d:6d:84:f1:51:5c:9c:13:79:98:09:38:3a (ECDSA)
256 77:24:47:43:76:11:65:73:70:83:9a:48:2d:00:17:5f (ED25519)
  25/tcp open tcpwrapped
_smtp-commands: Couldn't establish connection on port 25
   10/tcp open tcpwrapped
_ss1v2: ERROR: Script execution failed (use -d to debug)
    _tls-nextprotoneg: ERROR: Script execution failed (use -d to debug)
_ssl-date: ERROR: Script execution failed (use -d to debug)
_tls-alpn: ERROR: Script execution failed (use -d to debug)
_ssl-cert: ERROR: Script execution failed (use -d to debug)
_ssl-cert: ERROR: Script execution failed (use -d to debug)
11/tcp open rpcbind 2-4 (RPC #100000)
    .11/tcp open rpcbind
      rpcinfo:
                                                                          port/proto service
111/tcp rpcbind
111/udp rpcbind
             program version
              100000 2, 3, 4
100000 2, 3, 4
100000 3, 4
100000 3, 4
                                                                                    111/tcp6 rpcbind
111/udp6 rpcbind
Apache Tomcat/Coyote JSP engine 1.1
  8080/tcp open http Apache 
http-title: Welcome to JBoss AS
     http-methods:
           Potentially risky methods: PUT DELETE TRACE
     _http-open-proxy: Proxy might be redirecting requests
    _http-server-header: Apache-Coyote/1.1
  3081/tcp open http Apacl
http-title: Struts2 Showcase
                                                                              Apache Tomcat/Coyote JSP engine 1.1
     Requested resource was showcase, action
 _hequested resounce was showcase.action
_http-server-header: Apache-Coyote/1.1
WAC Address: 00:0C:29:2F:00:AF (VMware)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
  Device type: general purpose
Running: Linux 3.X|4.X
  DS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4
DS details: Linux 3.2 - 4.9
 Network Distance: 1 hop
```

6.以任一企业为关键词进行信息收集练习并汇总形成报告,禁止 进行违规操作。





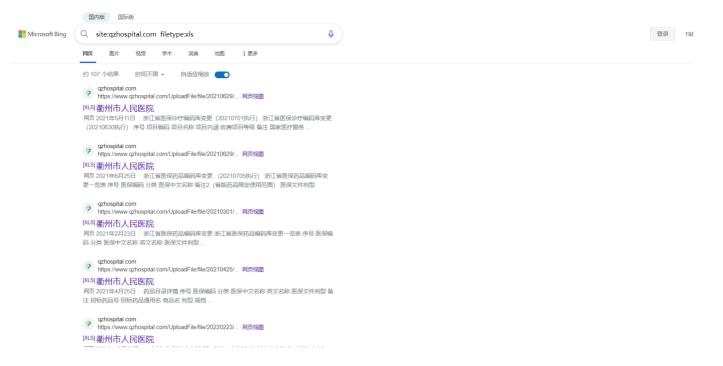
### 真实IP

```
C:\Users\user>ping www.qzhospital.com

正在 Ping www.qzhospital.com [122.227.65.178] 具有 32 字节的数据:
来自 122.227.65.178 的回复: 字节=32 时间=46ms TTL=254
来自 122.227.65.178 的回复: 字节=32 时间=41ms TTL=254
来自 122.227.65.178 的回复: 字节=32 时间=13ms TTL=254
来自 122.227.65.178 的回复: 字节=32 时间=1ms TTL=254
来自 122.227.65.178 的回复: 字节=32 时间=1ms TTL=254

122.227.65.178 的 Ping 统计信息:
数据包:已发送 = 4.已接收 = 4,丢失 = 0(0% 丢失),
往返行程的估计时间(以毫秒为单位):
最短 = 1ms,最长 = 46ms,平均 = 25ms
```

#### GoogleHack语法



#### **NMAP**

```
C:\Users\user\nmap -A -T4 -sT -sV 122.227.65.178

Starting Mmap 7.9 ( https://nmap.org ) at 2023-08-29 19:41 7D1ú±ê×7ê±77

Mmap scan report for 122.227.65.178

Host is up (0.0023s latency).
Not shown 996 filtered top ports (no-response)

PORT STATE SERVICE VERSION

21/tcp open ftp Microsoft ftpd

25/tcp open smtp?

__smtp-commands: Couldn't establish connection on port 25

80/tcp open http nginx

110/tcp open pop3?

_ssl-date: ERROR: Script execution failed (use -d to debug)

_ssl-cert: ERROR: Script execution failed (use -d to debug)

_tls-nextprotones: ERROR: Script execution failed (use -d to debug)

_tls-nextprotones: ERROR: Script execution failed (use -d to debug)

_tls-nextprotones: ERROR: Script execution failed (use -d to debug)

_tls-nextprotones: ERROR: Script execution failed (use -d to debug)

4247tcp open ssl/http nginx

_http-title: Welcome to nginx:

_http-title: We
```