

Network Research:Project

Project remote control : by daniel kovalevsky : student *8* teacher = arel

Class : 21 cybersecurity

#UPDATES

- updates the system , and installing placate [which make locate works] than updates the locate data base , and installing tor to make nipe work.

```
function update()
{
    echo -e "[$R]!$[E]] Updating the machine to prevent error's"
    echo "$PASS" | sudo -S apt update -y &> /dev/null
    sleep 1
    echo "$PASS" | sudo -S apt-get upgrade -y &> /dev/null
    sleep 1

    ##program that make locate work.
        echo "$PASS" | sudo -S apt-get install plocate -y &> /dev/null
        sleep 1
    ##updates the database
        sleep 1
        sudo updatedb &> /dev/null
        sleep 1
    #installs tor to make nipe work
        echo "$PASS" | sudo -S apt-get install tor -y &> /dev/null
}
update
```

#Nmap check

- this function with to check if the file nmap is in the system if unable to find than the function will install it.

```

function nmapcheck()
{
if [ -e "/usr/bin/nmap" ]
then
    echo "[#] Nmap Exist"

else
    sudo apt-get -y install nmap &> /dev/null
    echo ""
    sleep 1
    echo "[^] Nmap Install Complete"
fi
}
nmapcheck

```

```
[!] Nmap Exist
```

```
[^] Nmap Install Complete
```

#geoipllookup Check

- by writing this function , we gave the function and option to find if geoipllookup (geoipl-bin) is installed or not . if the program was in installed then it will say it exist , and if then it will download it and say the download was complete .

```

function geoiplookupcheck()
{
if [ -d "/usr/share/doc/geoip-bin" ]
then
    echo "[!] Geoiplookup Exist"

else
    echo Y | sudo apt-get install geoip-bin &> /dev/null

    sleep 1
    echo "[^] Install Complete"
fi
}
geoiplookupcheck

```

```
[!] Geoiplookup Exist
```

```
[^] Geoiplookup Install Complete
```

#Sshpasscheck

- by writing this function we used var to find the sshpass file if it exist
If not , it will install the sshpass

```

function sshpasscheck()
{
sshpccheck=$(which sshpass)
if [ -f "$sshpccheck" ]
then
    echo "[!] Sshpass Exist"
else
    echo "$PASS" | sudo -S apt-get install sshpass &> /dev/null
    sleep 1
    echo "[^] Sshpass Install Complete"
fi
}
sshpasscheck

```

```
[!] Sshpass Exist
```

```
[^] Sshpass Install Complete
```

#Nipe check

- by writing this function we used var to locate nipe in the system.
And gave an option <if> nipe was installed then it will skip the process .
and if not it will download nipe on the desktop .

```

function nipecheck()
{
#using var to locate the nipe folder and easier path
nipepwd=$(locate */nipe)
if [ -d "$nipepwd" ]
then
echo "[#] Nipe Exist"

else
cd ~
cd /home/$EXILE/Desktop
echo "$PASS" | sudo -S git clone https://github.com/htrgouvea/nipe &> /dev/null
sleep 1
sudo updatedb
sleep 1
cd nipe
echo "$PASS" | sudo -S cpan install try::Tiny Config::Simple JSON &> /dev/null
sleep 1
echo "$PASS" | sudo -S nipe.pl install &> /dev/null
sleep 1
echo "[^] Nipe Install Complete"
fi
}
nipecheck

```

~if nipe already installed it will show this indicator

```
[!] Nipe Exist
```

~indicator of nipe begin installed

```
[^] Nipe Install Complete
```

~ls -l where the nipe was installed

```

$ ls -l
total 8
drwxr-xr-x 6 root root 4096 Aug 20 00:43 nipe

```

#Nipe activation

- using function named stealth to change folder to where nipe is located
Than using nipe.pl start and restart to kick start the nipe.pl . giving it 4 sec sleep so that the restart will have time to do his magic. Than adding vars of commands like nipe.pl status and geoiplookup to tell the user the status of the ip ,

```
function stealth()
{
    nipepwd=$(locate */nipe)
    cd ~
    cd $nipepwd
    sleep 1
    sudo perl nipe.pl start
    sudo perl nipe.pl restart
    sleep 4

    #using var's to get ip , country .
    ip=$(echo "$PASS" | sudo -s perl nipe.pl status | grep "Ip:" | awk '{print $3}')
    countryshort=$(geoiplookup $ip | awk -F "," '{print $1}' | awk '{print $4}')
    countrylong=$(geoiplookup $ip | awk '{print $5}')

    if [ "$countryshort" == "IL" ]
    then
        echo "[!] you are not Disguised exiting"
        stealth
    else
        echo "[+] You are Disguised"
        echo "[-] Your current ip : *$ip* ."
        echo "[-] Your current country : *$countryshort* = *$countrylong* ."
    fi
}
stealth
```

#Copy

- Creating a spinning animation , to substitute sleep while restarting nipe

```
copy()
{
    echo -e "${R}I${E}${G}n${E}${C}i${E}${B}z${E}${P}e${E}${R}l${E}${B}i${E}${G}z${E}${C}i${E}${B}n${E}${P}g${E} ${B}s${E}${G}t${E}${P}af
    spin &
    #making the pid of this function
    pid=$!
    #creates sequence that count's till 5
    for i in $(seq 1 5)
    do sleep 1
    done
    #kills the proccse ID
    kill $pid
    echo ""
}
spin(){
    while [ 1 ]
    do
        #loops for each arrey
        for i in "${Spin[@]}"
        do
            # n stands for dont create new line , \r resets the lines
            echo -ne "\r$i"
            sleep 0.2
        done
    done
}
```

```
[+] You are Disguised
[-] Your current ip : *185.220.101.32* .
[-] Your current country : *DE* = *Germany* .
```

#Server status check

- using this function which will tell the user about the server status
- His uptime , his ip , and his ip country

```
function timecheck()
{
    echo "[+]Server stats : "
    yourip=$(ifconfig | grep inet | awk '{print $2}' | head -1)
    echo "Server Uptime : $(uptime)"
    echo "Server ip : $(ifconfig | grep inet | awk '{print $2}' | head -1)"
    whois $yourip | grep "Country:"
}
timecheck
```

#Nmap + Whois Scan

With nmap i've tried so the user would be able to scan freely ip's of his choice and pick an ip also in this function i've added another option for the user to chose from a list of files , after the user finishes the scan the file saves into 3 file's xml,grepable,flat . to folder of the script.

#Nmap scanning multi from user's list of ip

#nmap scan

```
function nmap()
{
    echo "would u like to scan [single/multi] ip's"

    read answer

    if [ $answer = "single" ]
    then
        echo "type the ip u would like to scan"

        read ip

        echo "Pick speed [1~5] 5 might cause problems with scan"
        read speed

        echo ""
        echo "[!] scanning the ip"

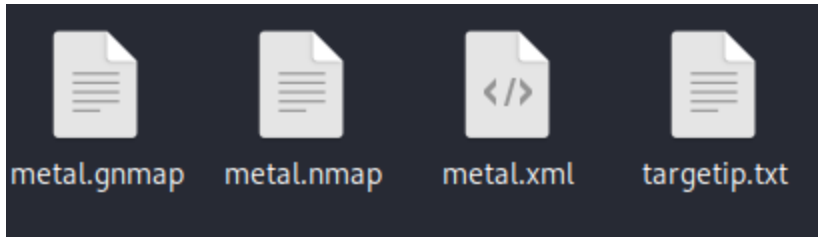
        echo "$PASS" | sudo -S nmap -p- $ip -sV -T$speed -Pn --open -oA /home/kali/Desktop/Scanner/metal

        echo "$PASS" | sudo -S whois $ip >> /home/kali/Desktop/Scanner/targetip.txt
    fi
}
```

Single nmap scan =

```
[!] *Wrong Input* try again
would u like to scan [single/multi] ip's
single
type the ip u would like to scan
91.132.144.59
Pick speed [1~5] 5 might cause problems with scan
5
[!] scanning the ip
Starting Nmap 7.93 ( https://nmap.org ) at 2023-08-16 12:34 EDT
Stats: 0:00:21 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 0.63% done
```

The files from nmap + whois scan which created



```
elif [ $answer = "multi" ]
then
    echo "insert the full path of your ip list"
    read list
    echo "pick your speed [1~5] speed 5 might cause problems with scan"
    read speed
    echo ""
    echo "Scanning the list of ip's"

    sudo nmap -p- -iL $list -sV -T$speed -Pn --open

else
    echo "[!] *Wrong Input* try again"
    nmap

fi
}
```

nmap

```
would u like to scan [single/multi] ip's -iL $list -sV -T$speed -Pn --open
multi
insert the full path of your ip list
/home/kali/Desktop/iplist.txt
pick your speed [1~5] speed 5 might cause problems with scan
5
Scanning the list of ip's
Starting Nmap 7.93 ( https://nmap.org ) at 2023-08-16 12:37 EDT
Stats: 0:01:54 elapsed; 0 hosts completed (64 up), 64 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 0.05% done
```

#SSHConnect

- by writing this function i gave the user the option to control the user , ip and password , in addition it will create a directory in the dedicated server where the first script will send the second script that will run in the server.

```
function SSHConnect()
{
    sleep 1
    sshpass -p "$PASSWORD" ssh -o stricthostkeychecking=no $user@$usrip 'cd /home/'$user'/Desktop ; mkdir /home/'$user'/Desktop/Scanner'
    sshpass -p "$PASSWORD" scp -o stricthostkeychecking=no /home/$EXILE/Desktop/ProjectB.sh $user@$usrip:/home/'$user'/Desktop/Scanner
    sshpass -p "$PASSWORD" ssh -o stricthostkeychecking=no $user@$usrip 'cd /home/'$user'/Desktop/Scanner ; bash /home/'$user'/Desktop/Scanner/ProjectB.sh'
}
SSHConnect
```

```
echo "[!] please insert the server ip u want to enter"
```

```
read usrip
```

```
echo "[!] SSH Username :"
```

```
read user
```

```
echo "[!] SSH Password : "
```

```
read -s PASSWORD
```

```
drwxr-xr-x 2 kali kali 4096 Aug 20 00:43 Scanner
(kali㉿kali)-[~/Desktop]
$ ls -l /home/kali/Desktop/Scanner
total 8
-rw-r--r-- 1 kali kali 4305 Aug 20 00:43 ProjectB.sh
```

#FINAL

- by using this function in second script , we stop the nipe service , we change to permissions of the nipe folder so we will be able to delete it from the desktop we downloaded , also will delete the script we transfered

```

function FINAL()
{
    ni pepwd=$(locate */nipe | head -1)
    cd $ni pepwd
    sleep 1
    echo "$PASS" | sudo -S perl nipe.pl stop
    sleep 1
    cd $ni pepwd
    cd ..
    echo "$PASS" | sudo -S chmod 777 nipe
    sudo rm -rd nipe
    rm -r /home/$user/Desktop/Scanner/ProjectB.sh
    sudo updatedb
}
FINAL

```

#ENDGAME

- By writing this function we create directory in our local kali and grab the Scanned files from nmap [grepable xml and flat] , and then we delete log folder from the server.

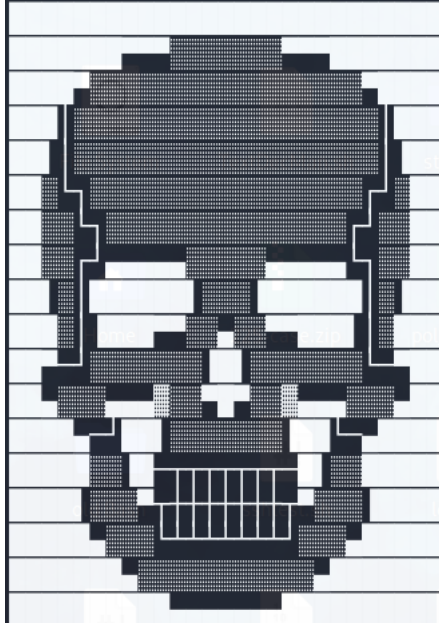
```

function ENDGAME()
{
    cd $home
    mkdir RemoteResults &> /dev/null
    sshpass -p "$PASSWORD" scp -ro stricthostkeychecking=no $user@$usrip:/home/$user/Desktop/Scanner /home/$EXILE/Desktop/RemoteResults
    sshpass -p "$PASSWORD" ssh -o stricthostkeychecking=no $user@$usrip 'cd /home/'$user'/Desktop ; rm -r Scanner'
}
ENDGAME

```

#Proof in 1 go that it works :
First script ~

```
$ bash ProjectA.sh
```



Welcome let the show begin

```
[?] Hello the following script will need your user password to work fluently.  
[!] please insert your password :
```

```
[!] Updating the machine to prevent error's
```

```
[#] Nmap Exist  
[#] Geoipllookup Exist  
[#] Nipe Exist  
[#] Sshpass Exist
```

```
00006688.jpg  ClassSubject2.sh  skullin.sh  
[+] You are Disguised
```

```
Inizelizing startups
```

```
[+] You are Disguised  
[-] Your current ip : *185.220.101.18* .  
[-] Your current country : *DE* = *Germany* .
```

[!] please insert the server ip u want to enter :

00006688.jpg ClassSubject2.sh skullion.sh

- Second Script

```
[^_^] Activating second script bip bop

[!] whats your server password :
bob

[!] Updating the Server to Prevent Error's *
*first time might take some time to update*

[+]Server stats :
Server Uptime : 05:43:31 up 19 min, 2 users, load average: 0.24, 0.18, 0.17
Server ip : 192.168.71.131
Country: US

[#] Nmap Exist
[#] Geoipllookup Exist
[#] Nipe Exist
[#] Sshpass Exist

Server Disguised
Geoipllookup

Inizelizing startups
|
[+] You are Disguised
[-] Your current ip : *185.220.101.81* .
[-] Your current country : *DE* = *Germany* .

[?] would u like to scan [single/multi] ip's
single
[!] type the ip u would like to scan
192.168.71.131
[?] Pick speed [1~5] 5 might cause problems with scan
5

[!] scanning the ip
[+] Scanning Complete
```