Network Research Project Command and Control

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About the project:

As a student of cyber security I was tasked to build a script in kali Linux to take control of another machine using Ssh server and execute scans with different tools at different domains all while being anonymous.

In the beginning we were introduced to the tools that will help us guide us in the process of building the script, bash language and its usage, nipe.pl the tool that mask you through Tor web browser and acting like VPN and of course the sshpass tool which gives us remote control of ssh server which is running and his credentials are known.

The process itself was challenging but not impossible I took it to myself to build something that will guarantee the success of the task at hand. That's why I separated the project into 3 parts:

1st. Checking my machine on the tools I need for the mission and their correct work



2nd. Checking my target credentials are correct and working

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Returning Home
Input The Sheep Home:
Input The Sheep Name:
Input The Sheep Key:
The Sheeps Home 192.168.112.131
The Sheeps name kali
The Sheeps Key 2255
Choose info you want to see
1. Sheeps Name
2. Sheeps Home
3. Sheeps External Home
4. Sheeps Running time
5. Sheeps Country
6. Sheep Nmap
  Sheep Whois
  Exit
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3rd. Checking the victims machine have all the tools to successfully pass the scans of desired domains.

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File Actions Edit View Help
3. Sheeps External Home
4. Sheeps Running time
5. Sheeps Country
6. Sheep Nmap
7. Sheep Whois
8. Exit
Checking For Nmap on Remote host
Checking Complete
Starting Nmap Scan, Enter desired destination: 192.168.112.131
Enter desired port:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-06-04 01:49 EDT
Nmap scan report for 192.168.112.131
Host is up (0.00011s latency).
PORT STATE SERVICE
22/tcp open ssh
Nmap done: 1 IP address (1 host up) scanned in 0.08 seconds
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File Actions Edit View Help
Starting Whois Scan, Enter Desired Destination:
192.168.112.131
\mbox{\#} ARIN WHOIS data and services are subject to the Terms of Use
# available at: https://www.arin.net/resources/registry/whois/tou/
# If you see inaccuracies in the results, please report at
# https://www.arin.net/resources/registry/whois/inaccuracy_reporting/
# Copyright 1997-2025, American Registry for Internet Numbers, Ltd.
NetRange:
                   192.168.0.0 - 192.168.255.255
                   192.168.0.0/16
NetName:
                   PRIVATE-ADDRESS-CBLK-RFC1918-IANA-RESERVED
NetHandle:
                   NET-192-168-0-0-1
                   NET192 (NET-192-0-0-0-0)
NetType:
                   IANA Special Use
OriginAS:
Organization:
                  Internet Assigned Numbers Authority (IANA)
                  1994-03-15
RegDate:
Updated:
                   2024-05-24
Comment: These addresses are in use by many millions of independently operated networks, which might be as small as a single computer connected to a home gateway, and are automatically configured in hundreds of millions of devices. They are only intended for u
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After each part was complete and properly tested I continued to the next part. All that became at the end my first working script and project in this Course.

Thanks to Doron Zohar for guiding me through this process with advice and help.

Another tool that I used to help me around is Deepseek.com for correcting lines I had trouble with.

