Name: Date: Class:

Section 2: Independent Practice Worksheet Answer Key

Instructions:
Open your Kali PowerShell terminal and perform the following tasks:

1. Install FTP and connect to the Metasploitable2 target over port 21. You may need to use the “msfadmin” user and password to log in.
2. Install SSH and connect to the Metasploitable2 target over port 22. You’ll find that Metasploitable2 uses old ciphers that are unsupported in Kali. Hint: SSH cipher will be rejected on connection attempts.
3. Add the following to your SSH terminal connection string: `-oHostKeyAlgorithms=+ssh-rsa`

Provide screenshots of your successful connections.
(Suggested Solution)
Install FTP and connect to Metasploitable2.
apt install -y ftp

```
┌──(root㉿kali)-[/]
└─# ftp 192.168.10.2
Connected to 192.168.10.2.
220 (vsFTPd 2.3.4)
Name (192.168.10.2:root): msfadmin
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

Install SSH and connect to the Metasploitable2 target.
apt install -y ssh

The key to this task is modifying the SSH connection string to allow Kali to communicate with an outdated cipher on Metasploitable2 (RSA): -oHostKeyAlgorithms=+ssh-rsa

```
┌──(root㉿kali)-[/]
└─# ssh -oHostKeyAlgorithms=+ssh-rsa msfadmin@192.168.10.2
msfadmin@192.168.10.2's password:
Linux 32554753bfe5 4.13.0-21-generic #24-Ubuntu SMP Mon Dec 18 17:29:16 UTC 2017 x86_64

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
Last login: Sun Jun  1 17:08:51 2025 from kalilinux.hackwork
msfadmin@metasploitable2:~$ whoami
msfadmin
msfadmin@metasploitable2:~$
```