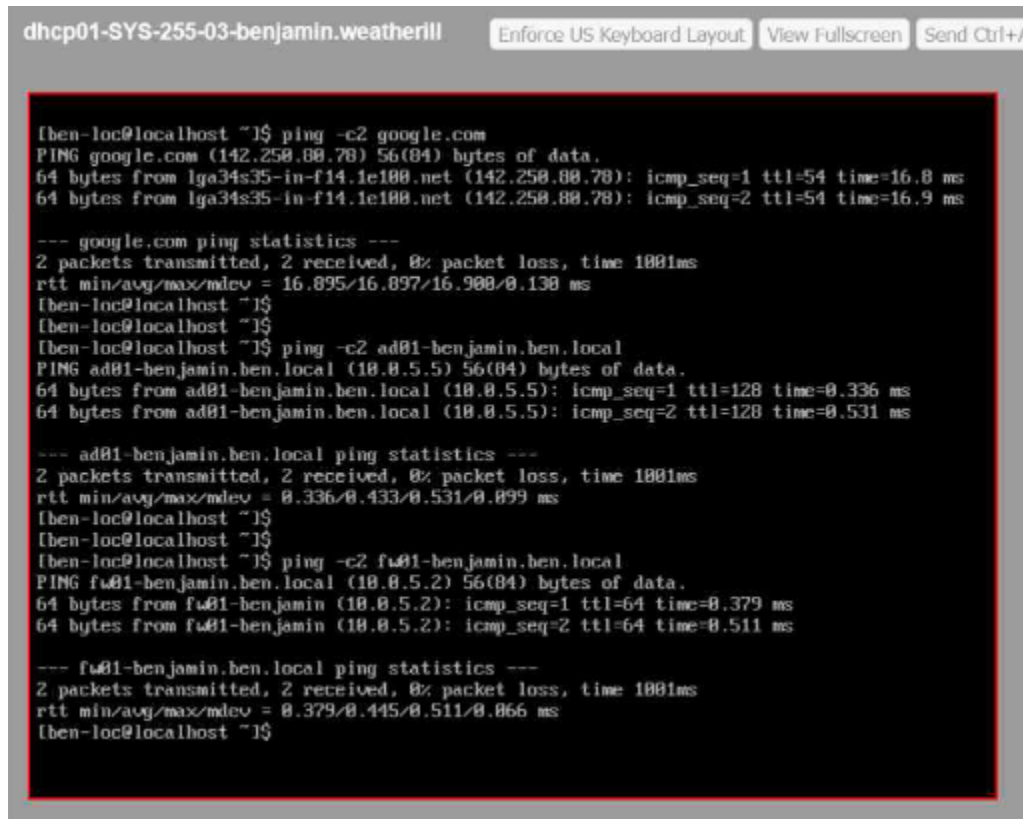Lab03
SYS-255
FA23
Benjamin Weatherill

Deliverables:
1. Here is a screenshot of a successful ping to google.com, ad01, and fw01

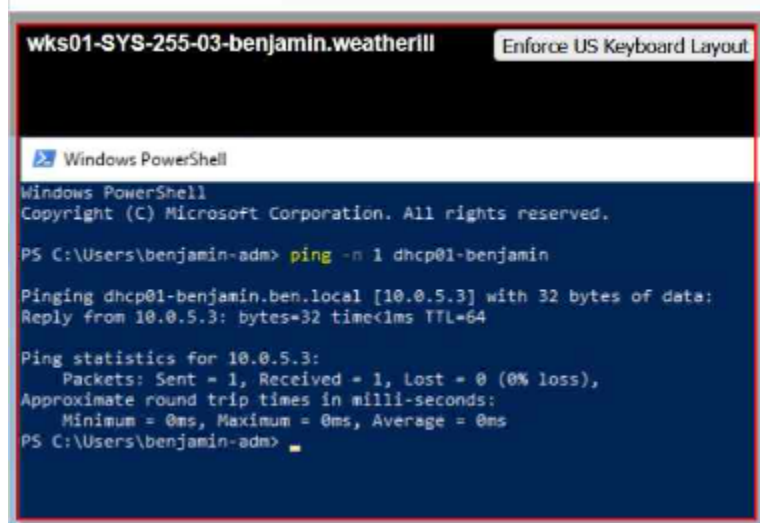dhcp01-SYS-255-03-benjamin.weatherill   Enforce US Keyboard Layout   View Fullscreen   Send Ctrl+A

```
[ben-loc@localhost ~]$ ping -c2 google.com
PING google.com (142.250.80.78) 56(84) bytes of data.
64 bytes from lga34s35-in-f14.1e100.net (142.250.80.78): icmp_seq=1 ttl=54 time=16.8 ms
64 bytes from lga34s35-in-f14.1e100.net (142.250.80.78): icmp_seq=2 ttl=54 time=16.9 ms

--- google.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 16.895/16.897/16.900/0.130 ms
[ben-loc@localhost ~]$
[ben-loc@localhost ~]$
[ben-loc@localhost ~]$ ping -c2 ad01-benjamin.ben.local
PING ad01-benjamin.ben.local (10.0.5.5) 56(84) bytes of data.
64 bytes from ad01-benjamin.ben.local (10.0.5.5): icmp_seq=1 ttl=128 time=0.336 ms
64 bytes from ad01-benjamin.ben.local (10.0.5.5): icmp_seq=2 ttl=128 time=0.531 ms

--- ad01-benjamin.ben.local ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 0.336/0.433/0.531/0.099 ms
[ben-loc@localhost ~]$
[ben-loc@localhost ~]$
[ben-loc@localhost ~]$ ping -c2 fw01-benjamin.ben.local
PING fw01-benjamin.ben.local (10.0.5.2) 56(84) bytes of data.
64 bytes from fw01-benjamin (10.0.5.2): icmp_seq=1 ttl=64 time=0.379 ms
64 bytes from fw01-benjamin (10.0.5.2): icmp_seq=2 ttl=64 time=0.511 ms

--- fw01-benjamin.ben.local ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 0.379/0.445/0.511/0.066 ms
[ben-loc@localhost ~]$
```

2. A successful ping from my workstation to my dhcp server using only its hostname

wks01-SYS-255-03-benjamin.weatherill   Enforce US Keyboard Layout

```
Windows PowerShell

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\benjamin-adm> ping -n 1 dhcp01-benjamin

Pinging dhcp01-benjamin.ben.local [10.0.5.3] with 32 bytes of data:
Reply from 10.0.5.3: bytes=32 time<1ms TTL=64

Ping statistics for 10.0.5.3:
    Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Users\benjamin-adm>
```

3. Screenshot of successful remote access to my dhcp server from my workstation

wks01-SYS-255-03-benjamin.weatherill   Enforce US Keyboard Layout   View Fullscreen   Send Cl

```
ben-loc@dhcp01-benjamin:~                                                    —
S C:\Users\benjamin-adm> hostname
ks01-benjamin
S C:\Users\benjamin-adm> ssh ben-loc@dhcp01-benjamin
he authenticity of host 'dhcp01-benjamin (10.0.5.3)' can't be established.
CDSA key fingerprint is SHA256:q1DBZs95R3FvcFTiI6OjrmOn0DswVfnztlEn19U+L5U.
re you sure you want to continue connecting (yes/no)? yes
arning: Permanently added 'dhcp01-benjamin,10.0.5.3' (ECDSA) to the list of known hosts.
en-loc@dhcp01-benjamin's password:
ast login: Mon Sep 11 14:42:39 2023 from localhost
ast login: Mon Sep 11 14:42:39 2023 from localhost
ben-loc@dhcp01-benjamin ~]$ hostname
hcp01-benjamin.local
ben-loc@dhcp01-benjamin ~]$
```

4. My most recent history on dhcp01

```
[ben-loc@dhcp01-benjamin ~]$ history | head -n 10
    1  sudo whoami
    2  passwd
    3  exit
    4  hostname
    5  history | head -n 10
[ben-loc@dhcp01-benjamin ~]$
```

5. Two part question and a screenshot of "ls -la" on my home directory
    a. What security implications does this file(.bash_history) represent? List at least one pro and one con.
        i. The file represents the history from the previous session. This can be useful if you got disconnected from your session and want to copy some of the commands you ran in the previous session or if you just want to remember what you ran last session. A con can be if you ran a command with sensitive information, it would be recorded for anyone with access (or hacked in) to view.
        ii. You can completely clear the history by redirecting /dev/null into the .bash_history file thereby clearing it, and running the command history -c to clear all the history.
        iii. "cat /dev/null > ~/.bash_history && history -c && exit"

```
[ben-loc@dhcp01-benjamin ~]$ ls -la
total 16
drwx------. 5 ben-loc ben-loc 124 Sep 11 14:42 .
drwxr-xr-x. 3 root    root     21 Sep 11 14:21 ..
-rw-------. 1 ben-loc ben-loc  24 Sep 11 14:23 .bash_history
-rw-r--r--. 1 ben-loc ben-loc  18 Nov 24  2021 .bash_logout
-rw-r--r--. 1 ben-loc ben-loc 193 Nov 24  2021 .bash_profile
-rw-r--r--. 1 ben-loc ben-loc 231 Nov 24  2021 .bashrc
drwxrwxr-x. 3 ben-loc ben-loc  18 Sep 11 14:22 .cache
drwxrwxr-x. 3 ben-loc ben-loc  18 Sep 11 14:22 .config
drwx------. 2 ben-loc ben-loc  25 Sep 11 14:42 .ssh
[ben-loc@dhcp01-benjamin ~]$ cat .bash_history
sudo whoami
passwd
exit
[ben-loc@dhcp01-benjamin ~]$
```

6. It should be

7. https://github.com/benjamin-weatherill/SYS255/wiki/Lab-03-%E2%80%90-Linux-Configuration