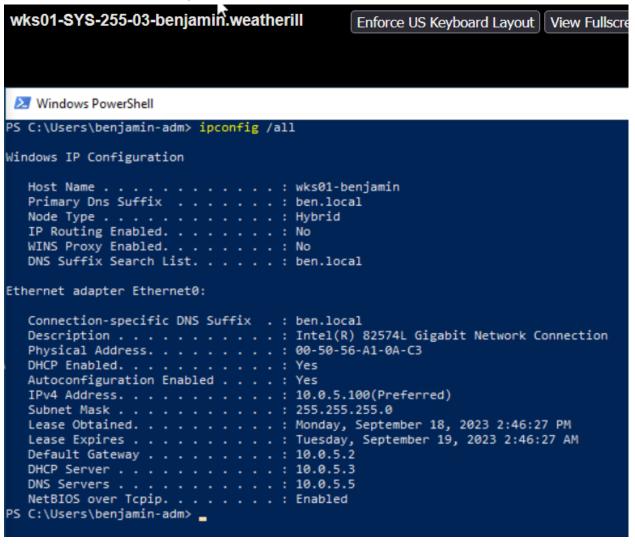
Lab 04: DHCP SYS255 Ben W FA23

Deliverables:

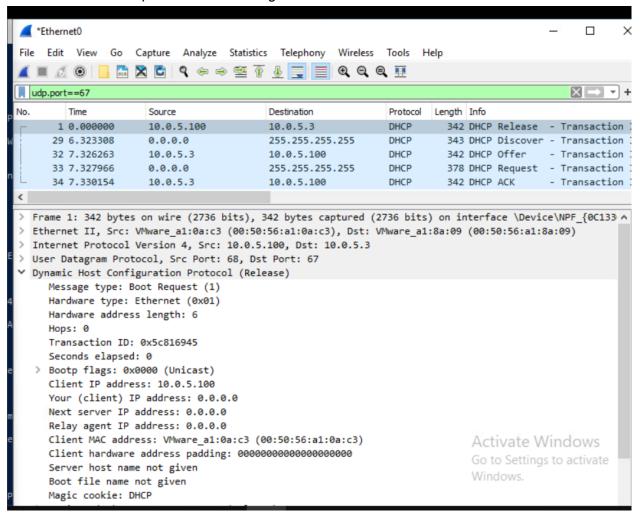
1. The results of ipconfig /all on wsk01



2. System logs of wks01-benjamin requesting DHCP

```
[ben-loc@dhcp01-benjamin ~]$ sudo cat /var/log/messages ; grep wks01-benjamin
(sudo) password for ben-loc:
Sep 18 14:47:12 dhcp01-benjamin dhcpd: DHCPOFFER on 10.0.5.100 to 00:50:56:a1:0a:c3 (wks01-benjamin)
via ens192
Sep 18 14:47:12 dhcp01-benjamin dhcpd: DHCPREQUEST for 10.0.5.100 (10.0.5.3) from 00:50:56:a1:0a:c3
    31-benjamin) via ens192
Sep 18 14:47:12 dhcp01-benjamin dhcpd: DHCPACK on 10.0.5.100 to 00:50:56:a1:0a:c3 (wks01-benjamin) (
ia ens192
Sep 18 15:04:20 dhcp01-benjamin dhcpd: DHCPRELEASE of 10.0.5.100 from 00:50:56:a1:0a:c3 (wks01-benja
nin) via ens192 (found)
Sep 18 15:04:28 dhcp01-benjamin dhcpd: DHCPOFFER on 10.0.5.100 to 00:50:56:a1:0a:c3 (wks01-benjamin)
via ens192
Sep 18 15:04:28 dhcp01-benjamin dhcpd: DHCPREQUEST for 10.0.5.100 (10.0.5.3) from 00:50:56:a1:0a:c3
    01-benjamin) via ens192
Sep 18 15:04:28 dhcp01-benjamin dhcpd: DHCPACK on 10.0.5.100 to 00:50:56:a1:0a:c3 (wks01-benjamin) v
a ens192
[ben-loc@dhcp01-benjamin ~]$
```

3. Wireshark Capture DHCP Messages



4. Changing the lease time Original Default Lease time:

Changed Lease time:

Length: 4

Changed the configuration file:

> Option: (53) DHCP Message Type (ACK)

✓ Option: (51) IP Address Lease Time

> Option: (54) DHCP Server Identifier (10.0.5.3)

IP Address Lease Time: (43200s) 12 hours

```
DHCP Server Configuration file.

see /usr/share/doc/dhcp*/dhcpd.conf.example
see dhcpd.conf(5) man page

subnet 10.0.5.0 netmask 255.255.255.0 {
    default-lease-time 600;
    max-lease-time 7200;
    option routers 10.0.5.2;
    option subnet-mask 255.255.255.0;
    option domain-name "ben.local";
    option domain-name-servers 10.0.5.5;
    range 10.0.5.100 10.0.5.150;
```

Updated Lease time in packet capture:

24 4.041216 10.0.5.3 10.0.5.100 DHCP 342 DHCP ACK

Server host name not given
Boot file name not given
Magic cookie: DHCP

Option: (53) DHCP Message Type (ACK)
Length: 1
DHCP: ACK (5)

Option: (54) DHCP Server Identifier (10.0.5.3)
Length: 4
DHCP Server Identifier: 10.0.5.3

Option: (51) IP Address Lease Time
Length: 4
IP Address Lease Time: (600s) 10 minutes

V Ontion: /1\ Cubnet Mack /SEE SEE SEE A\

5. https://github.com/benjamin-weatherill/SYS255/wiki/Lab-4-Configuring-DHCP