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**SYS-255-02**  
**STR2026**

**Deliverable 1:**

```
PS C:\WINDOWS\system32> ipconfig /all

Windows IP Configuration

Host Name . . . . . : wks01-connor
Primary Dns Suffix . . . . . : connor.local
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : connor.local

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . . . . . : connor.local
Description . . . . . : Intel(R) PRO/1000 MT Network Connection
Physical Address. . . . . : BC-24-11-12-C3-84
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::40eb:a746:8a49:9999%9(PREFERRED)
IPv4 Address. . . . . : 10.0.5.101(PREFERRED)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : Thursday, February 5, 2026 7:24:22 AM
Lease Expires . . . . . : Thursday, February 5, 2026 7:24:22 PM
Default Gateway . . . . . : 10.0.5.2
DHCP Server . . . . . : 10.0.5.3
DHCPv6 IAID . . . . . : 112993297
DHCPv6 Client DUID. . . . . : 00-01-00-01-30-FA-F8-56-BC-24-11-12-C3-84
DNS Servers . . . . . : 10.0.5.5
NetBIOS over Tcpip. . . . . : Enabled
PS C:\WINDOWS\system32> |
```

**Deliverable 2:**

```
[connor@dhcp01-connor ~]$ sudo cat /var/log/messages | grep -i wks01-connor
[sudo] password for connor:
Feb 5 10:24:19 dhcp01-connor dhcpcd[106882]: DHCPOffer on 10.0.5.101 to bc:24:11:12:c3:84 (wks01-connor) via ens18
Feb 5 10:24:19 dhcp01-connor dhcpcd[106882]: DHCPREQUEST for 10.0.5.101 (10.0.5.3) from bc:24:11:12:c3:84 (wks01-connor)
via ens18
Feb 5 10:24:19 dhcp01-connor dhcpcd[106882]: DHCPACK on 10.0.5.101 to bc:24:11:12:c3:84 (wks01-connor) via ens18
[connor@dhcp01-connor ~]$ |
```

**Deliverable 3:**

388	70.394141	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0xb3042591
398	71.398100	10.0.5.3	10.0.5.101	DHCP	342	DHCP Offer - Transaction ID 0xb3042591
399	71.411415	0.0.0.0	255.255.255.255	DHCP	377	DHCP Request - Transaction ID 0xb3042591
400	71.414953	10.0.5.3	10.0.5.101	DHCP	342	DHCP ACK - Transaction ID 0xb3042591

**Deliverable 4:**

```
#  
# DHCP Server Configuration file.  
#   see /usr/share/doc/dhcp-server/dhcpd.conf.example  
#   see dhcpcd.conf(5) man page  
#  
subnet 10.0.5.0 netmask 255.255.255.0 {  
    option routers 10.0.5.2;  
    option subnet-mask 255.255.255.0;  
    option domain-name "connor.local";  
    option domain-name-servers 10.0.5.5;  
    range 10.0.5.101 10.0.5.125;  
    default-lease-time 3600;  
    max-lease-time 14400;  
}
```

**Deliverable 5:** <https://journal.connorthenetworkjester.net/>