

DHCP Lab



In this lab we need to establish DHCP services. There are two methods to choose from: PfSense's LAN, or Windows DHCP on AD01. Dealer's choice.

Requirements:

- Scope: .150 - .175
- Subnet mask: /24
- Router: FW's LAN
- DNS: Where your DNS records currently reside

Deliverable 1:

Login to wks01 as the named domain admin and change the network settings such that the IP address and DNS server are retrieved automatically from either ad01 or fw01. Provide a screenshot from wks01 of the output of whoami and ipconfig /all commands. Looking for:

- Named Domain User
- DHCP Enabled
- IPv4 Address w/in scope's range
- DHCP Server's IP
- Gateway's IP
- DNS's IP

Command Prompt

```
C:\Users\hermione.granger>whoami
hermione\hermione.granger
```

```
C:\Users\hermione.granger>ipconfig /all
```

Windows IP Configuration

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

Ethernet adapter Ethernet0:

```
Connection-specific DNS Suffix . : hermione.local
Description . . . . . : Intel(R) 82574L Gigabit Network Connection
Physical Address. . . . . : 00-50-56-A1-79-9F
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::91ae:cf14:31db:6745%12(Preferred)
IPv4 Address. . . . . : 10.0.5.150(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : Thursday, January 17, 2019 12:19:06 PM
Lease Expires . . . . . : Thursday, January 17, 2019 2:19:06 PM
Default Gateway . . . . . : 10.0.5.2
DHCP Server . . . . . : 10.0.5.2
DHCPv6 IAID . . . . . : 100683862
DHCPv6 Client DUID. . . . . : 00-01-00-01-23-C7-FF-73-00-50-56-A1-79-9F
DNS Servers . . . . . : 10.0.5.5
NetBIOS over Tcpip. . . . . : Enabled
```

```
C:\Users\hermione.granger>
```

Deliverable 2. This should be documented in a technical journal article, Provide a link.