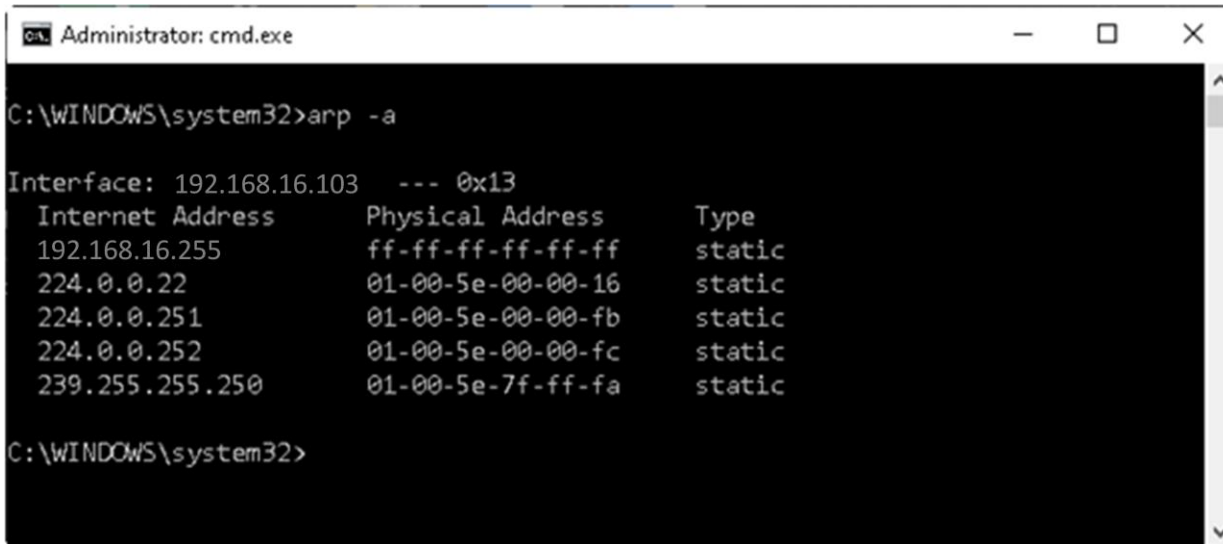


Recovering an LS-28-48-68 from DHCP Mode When No DHCP Server is Available

If you inadvertently programmed the LS-28/48/68 to the **DHCP** Mode on a Network with no DHCP Server present on your network, you will find that you are unable to locate your LS-28/48/68 IP address on the Network using the **arp -a** command line window.



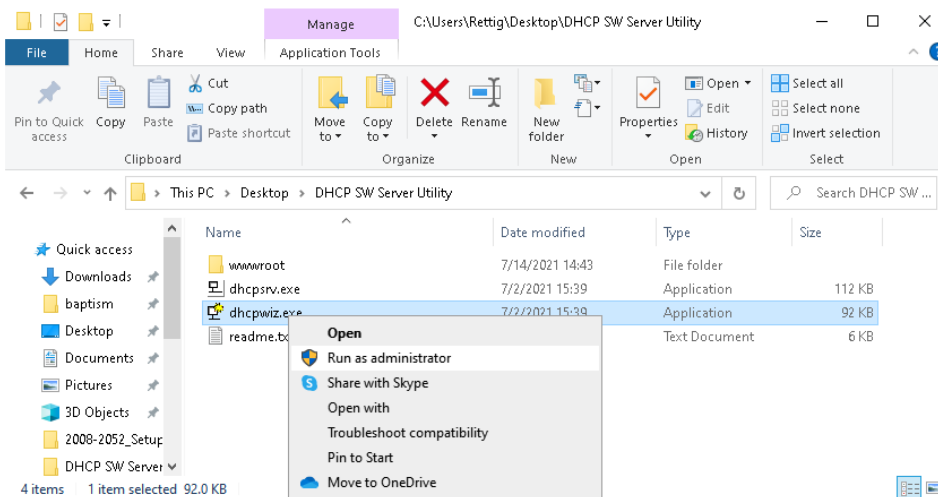
```
C:\WINDOWS\system32>arp -a

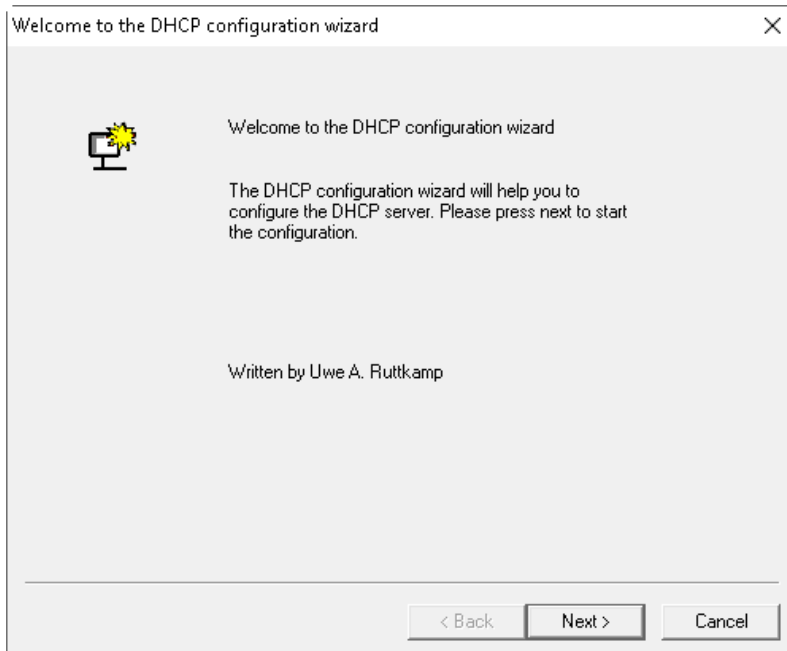
Interface: 192.168.16.103 --- 0x13
Internet Address      Physical Address      Type
192.168.16.255        ff-ff-ff-ff-ff-ff     static
224.0.0.22            01-00-5e-00-00-16     static
224.0.0.251           01-00-5e-00-00-fb     static
224.0.0.252           01-00-5e-00-00-fc     static
239.255.255.250       01-00-5e-7f-ff-fa     static

C:\WINDOWS\system32>
```

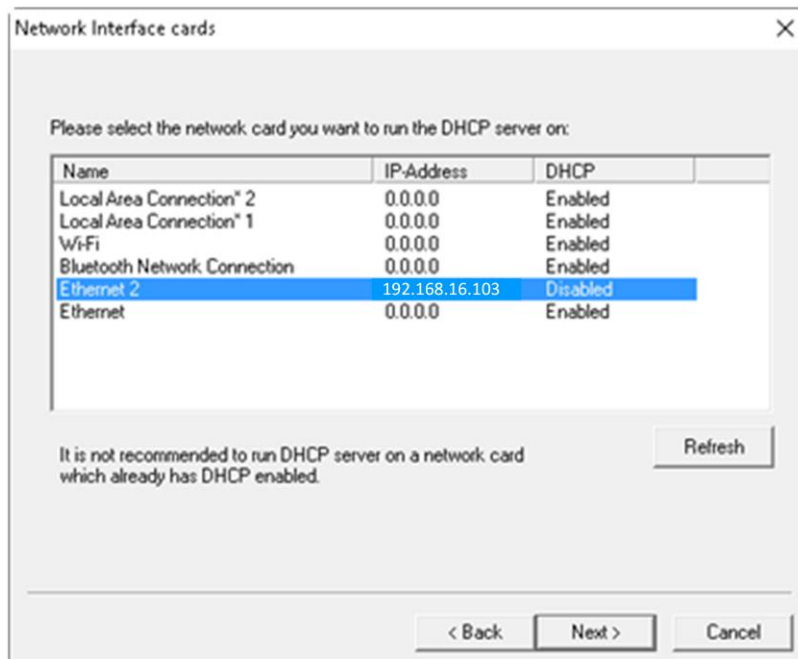
If you find yourself in this situation, perform the following steps:

- 1.) Download the **DHCP SW Server Utility** from Lumistar's FTP, Web Site, or from the software CD provided in your original delivery and place it on the host computer desktop.
- 2.) Connect the host computer directly to the LS-28/48/68 with a single Cat-5+ cable.
- 3.) Using Windows File Explorer, open the **DHCP SW SERVER UTILITY** folder and right-click on **dhcpcwiz.exe** and then **Run as administrator**.



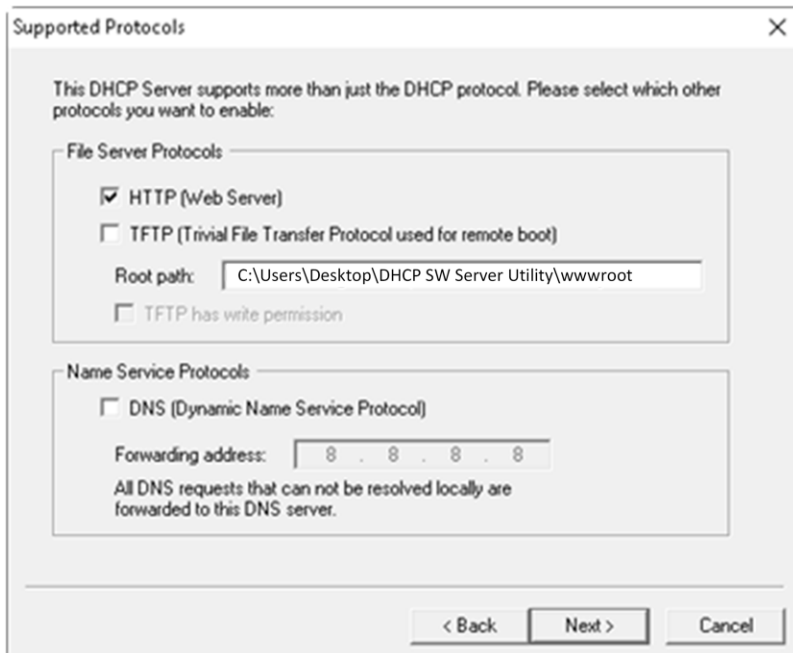


4.) Click the **Next>** button.



As indicated above, **it is not suggested you not run the DHCP Server on a network card which already has DHCP enabled.**

5.) Select your network connection and click the **Next>** button.



Supported Protocols

This DHCP Server supports more than just the DHCP protocol. Please select which other protocols you want to enable:

File Server Protocols

- ☒ HTTP (Web Server)
- ☐ TFTP (Trivial File Transfer Protocol used for remote boot)

Root path:

☐ TFTP has write permission

Name Service Protocols

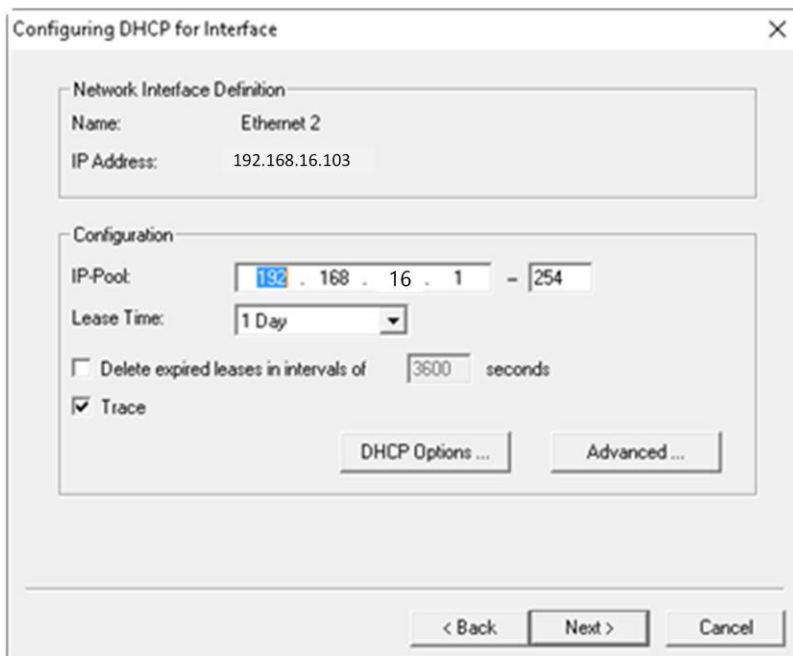
- ☐ DNS (Dynamic Name Service Protocol)

Forwarding address:

All DNS requests that can not be resolved locally are forwarded to this DNS server.

< Back Next > Cancel

6.) Select the **HTTP (Web Server)** CheckBox then click the **Next>** button.



Configuring DHCP for Interface

Network Interface Definition

Name: Ethernet 2

IP Address: 192.168.16.103

Configuration

IP-Pool: -

Lease Time:

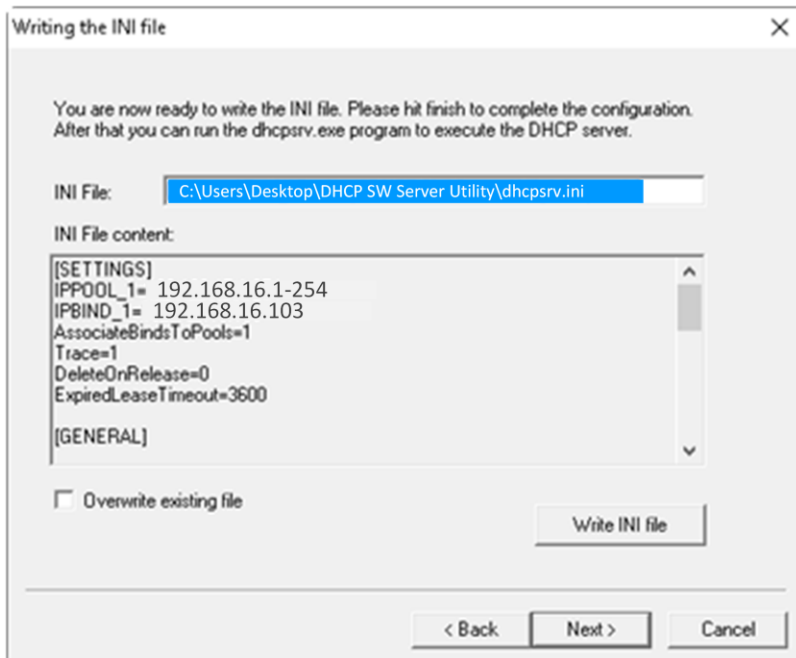
☐ Delete expired leases in intervals of seconds

☒ Trace

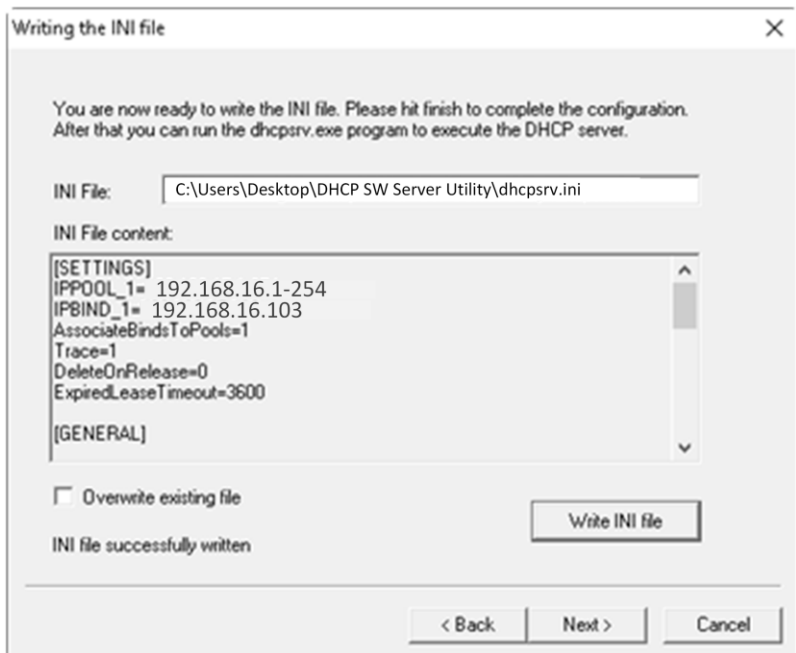
DHCP Options ... Advanced ...

< Back Next > Cancel

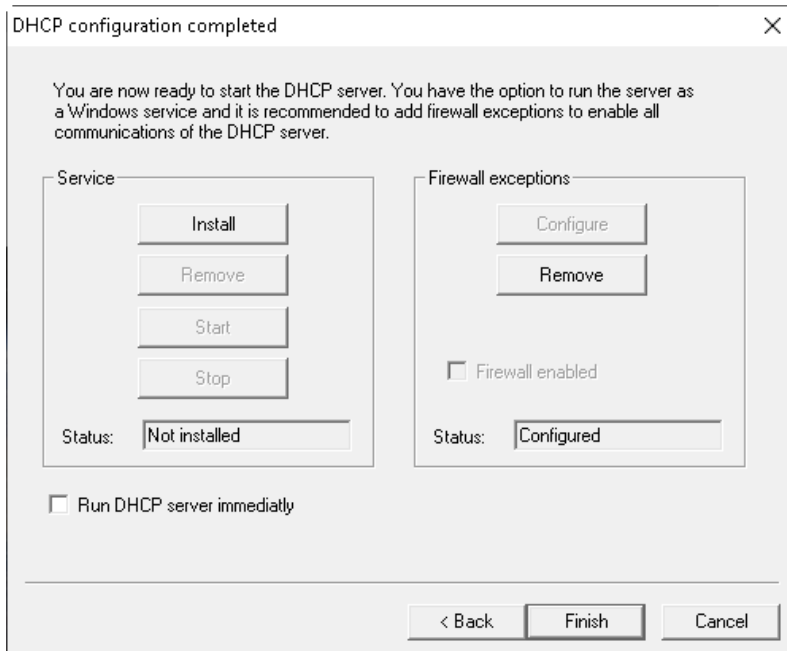
7.) The default above should match your network cards subnet, click the **Next>** button.



8.) Click the **Write INI File** button

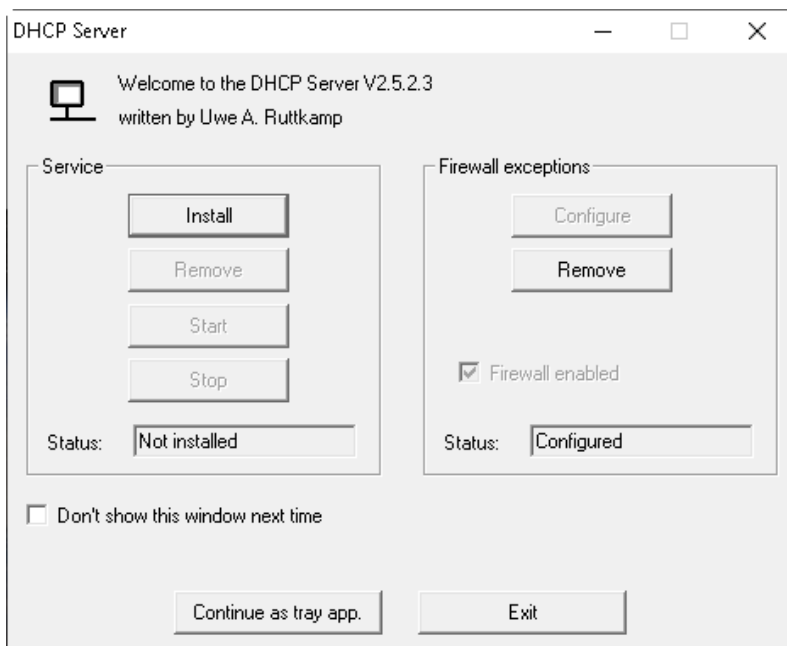


9.) Once the **INI file successfully written** flag is observed, click the **Next>** button.



10.) Click the **Finish** button.

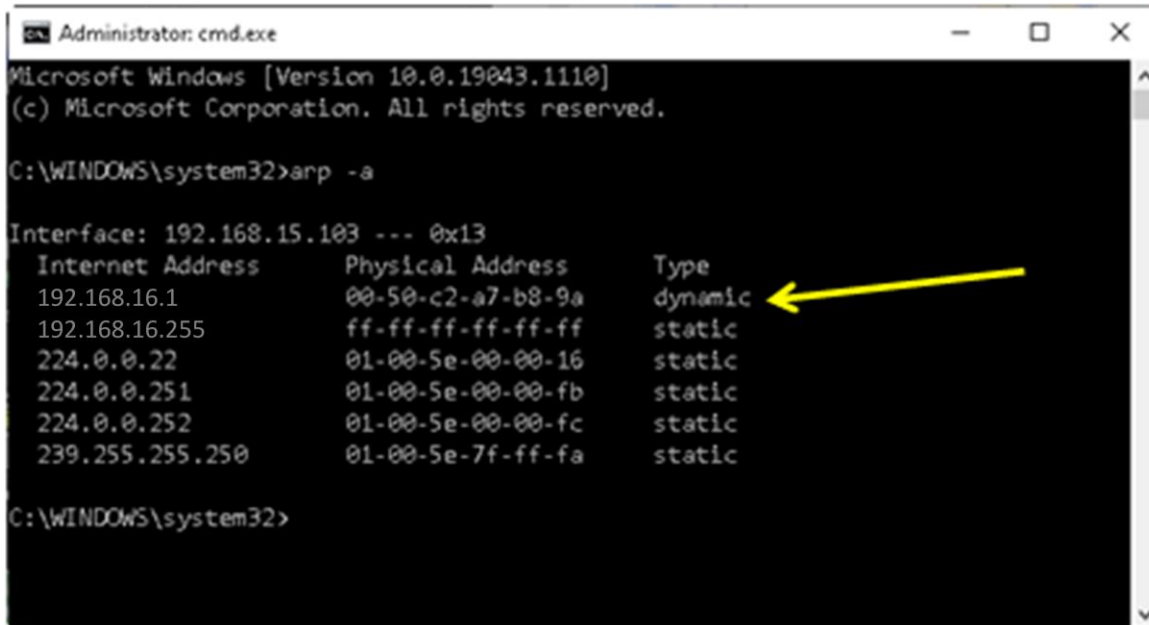
11.) From Windows File Explorer right-click on **dhcpsrv.exe** and **Run as administrator**.



12.) Click the **Continue as tray app.** Button.

13.) Power on the LS-26/48/68.

14.) Open a Command Line Shell and type **arp -a**



```
Administrator: cmd.exe
Microsoft Windows [Version 10.0.19043.1110]
(c) Microsoft Corporation. All rights reserved.

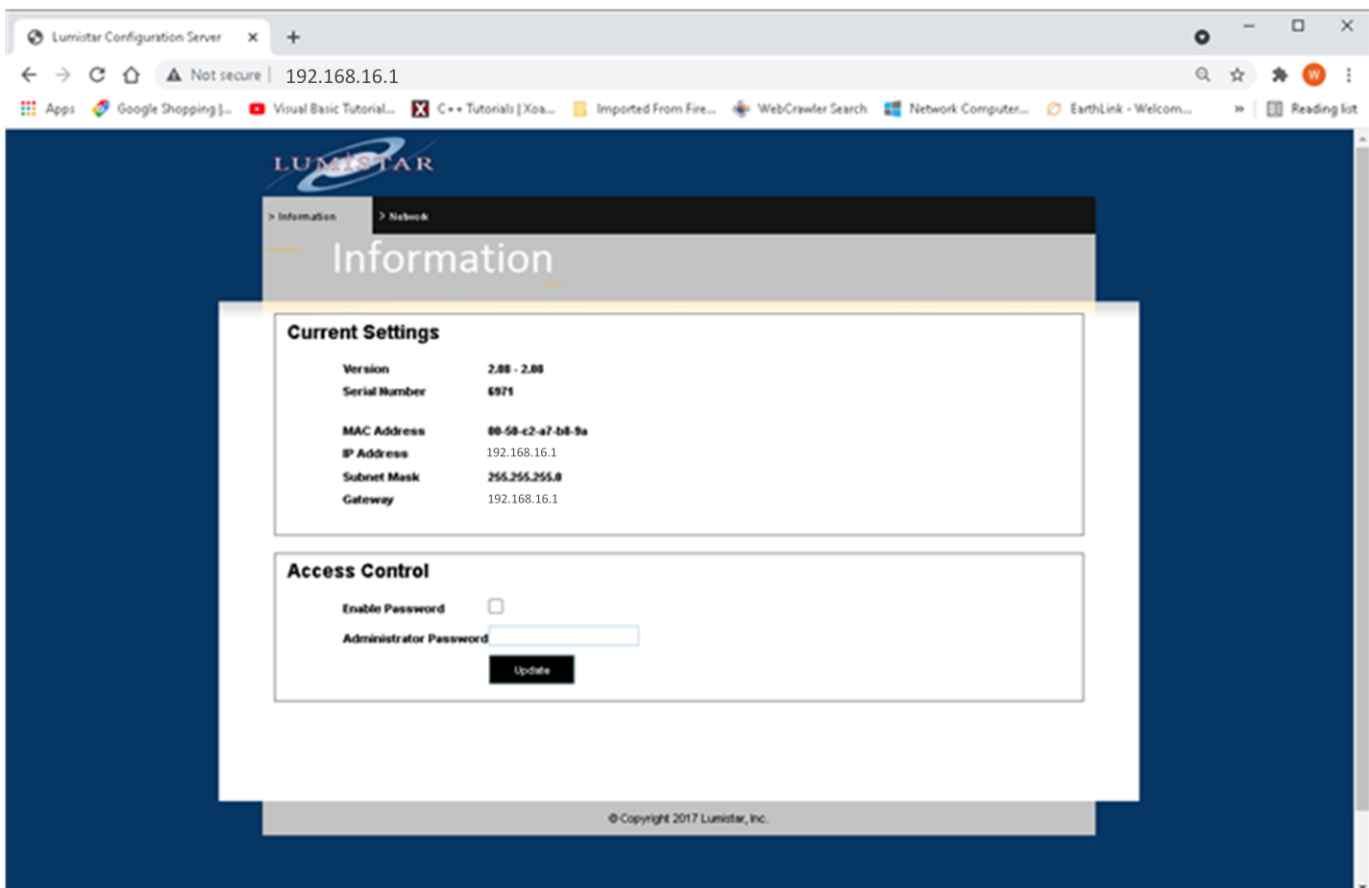
C:\WINDOWS\system32>arp -a

Interface: 192.168.15.103 --- 0x13
Internet Address      Physical Address      Type
192.168.16.1          00-50-c2-a7-b8-9a    dynamic
192.168.16.255        ff-ff-ff-ff-ff-ff    static
224.0.0.22            01-00-5e-00-00-16    static
224.0.0.251           01-00-5e-00-00-fb    static
224.0.0.252           01-00-5e-00-00-fc    static
239.255.255.250       01-00-5e-7f-ff-fa    static

C:\WINDOWS\system32>
```

The arrow in the picture above indicates the IP address assigned to your LS-28/48/68 by the DHCP software utility.

15.) Enter this address into your Browser.



16.) Select the **Network** Tab:

The screenshot shows a web browser window with the URL `192.168.16.1/network.html`. The page title is "Network Settings" and it features the LUMSTAR logo. Under the "IP Settings" section, the following values are entered in the input fields:

Field	Value
Fixed IP Address	192.168.16.220
Fixed Subnet Mask	255.255.255.0
Fixed Gateway	192.168.16.1

The "Enable DHCP" checkbox is checked, and the "Update" button is visible at the bottom of the form.

17.) Uncheck the **Enable DHCP** check box and enter your preferred Static address, subnet and gateway and follow this by clicking the "Update" button:

The screenshot shows the same web browser window as in the previous image. In this state, the "Enable DHCP" checkbox is unchecked. The static IP settings remain the same:

Field	Value
Fixed IP Address	192.168.16.220
Fixed Subnet Mask	255.255.255.0
Fixed Gateway	192.168.16.1

The "Update" button is still visible at the bottom of the form.

18.) Wait for approximately 15 seconds and then close the web browser.

19.) Power cycle the LS-28/48/68.

20.) Now you should be able to ping the new static IP address and your units should be visible on the network to the LS28_App or the DPE_App software applications.