

EXP:15**Assigning IP Address****AIM**

To assign an IP address to a computer or network device and verify successful network configuration and connectivity.

ALGORITHM (Simple & Short)

1. Open **Network Settings / Command Prompt** on the system.
2. Choose the **network adapter** you want to configure.
3. Select **Manual / Static IP configuration**.
4. Enter the required values:
 - IP Address
 - Subnet Mask
 - Default Gateway
 - DNS Server
5. Save the configuration settings.
6. Open Command Prompt and type:
 - ipconfig → to verify the assigned IP
 - ping <gateway IP> → to test connectivity
7. Confirm that the device is connected and reachable on the network.

OUTPUT:

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cmd Select Administrator: Command Prompt

C:\Windows\System32>ipconfig /all

Windows IP Configuration

Host Name . . . . . : DESKTOP-4RUB11A
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Ethernet adapter Ethernet:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Realtek PCIe GbE Family Controller
Physical Address. . . . . : C4-EF-BB-92-D3-C5
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Local Area Connection* 1:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
Physical Address. . . . . : 88-F4-DA-9C-57-80
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Local Area Connection* 2:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #2
Physical Address. . . . . : 8A-F4-DA-9C-57-7F
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Wi-Fi:
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RESULT

The IP address was successfully assigned to the system. The configuration was verified using the ipconfig command, and network connectivity was confirmed through ping testing. Thus, assigning and validating an IP address was demonstrated successfully.