

# Network Addressing

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# Address

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- MAC Address
- IP Address

# MAC

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A **Media Access Control (MAC)** address is a 48-bit (6 bytes) address that is used for communication between two hosts in an Ethernet environment.

It is a hardware address, which means that it is stored in the firmware of the network card (NIC).

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MAC addresses are usually written in the form of 12 hexadecimal digits. For example, consider the following MAC address:

**D8-D3-85-EB-12-E3**

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How to find out your own MAC address?

# IP Address

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An IP address is a 32-bit number that identifies a host on a network

An IP address is usually written in the form of four decimal numbers separated by periods (.)

Example

10.2.3.4

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## How to find out your IP address?

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- Using CMD
  - Using Google



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**Private IP address** of a system is the IP address which is used to communicate within the same network. Using private IP data or information can be sent or received within the same network.

**Public IP address** of a system is the IP address which is used to communicate outside the network. Public IP address is basically assigned by the ISP.

## Private addresses ranges

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- 10.0.0.0 – 10.255.255.255
- 172.16.0.0 – 172.31.255.255
- 192.168.0.0 – 192.168.255.255

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Which information can we get from IP Address?

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<https://viewdns.info/>

<https://www.whatismyip.com/>

<https://whois.domaintools.com/>

<https://www.whois.com/whois/>

182.73.197.20 (VIT)

182.72.39.10

182.72.39.9