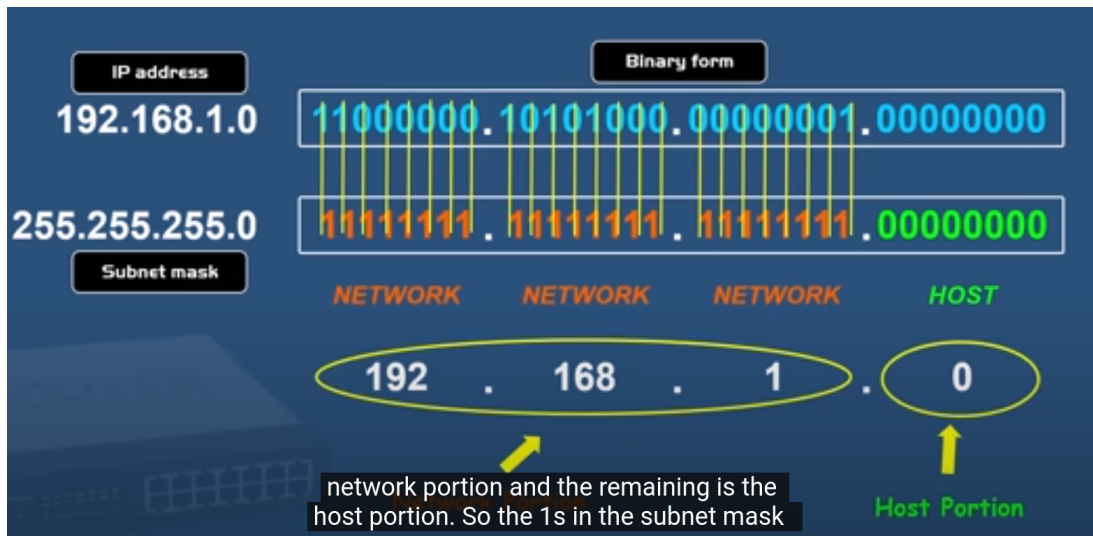


Definitions

Subnet Mask



The subnet mask indicated which parts of the IP address belong to the network and which parts belong to the host.

Class C IP

Class C IP address are given to small organizations that do not have a lot of hosts:

CLASS	FIRST OCTET ADDRESS	DEFAULT SUBNET MASK
A	1 – 126	255 . 0 . 0 . 0
B	128 – 191	255 . 255 . 0 . 0
C	192 – 223	255 . 255 . 255 . 0

DHCP

Make a reservation on the DHCP to get a static IP address. Routers have the DHCP service built in to them.

DHCP



DHCP SETTINGS		
ADDRESS RESERVATION		
IP Address	Device Name	MAC Address
10.0.0.1	MY-PC	00:17:30:46:72:04

A **reservation** ensures that a specific computer or device will always always give me this specific IP address. Now reservations are not typically given to regular

NAT

NAT translates the private Ip to the Public IP

NAT

Network Address Translation



NAT is used in routers.

NAT translates a set of IP addresses to another set of IP addresses.

NAT

In the future, we won't need NAT or private IP addresses.

New generation of IP address, called **IPv6**



76DC:4F59:34CF:71CD:9DC6:89CD:45D6:67A2

Every device will have its own public IP address.

Capable of producing over **340** undecillion IP addresses.

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