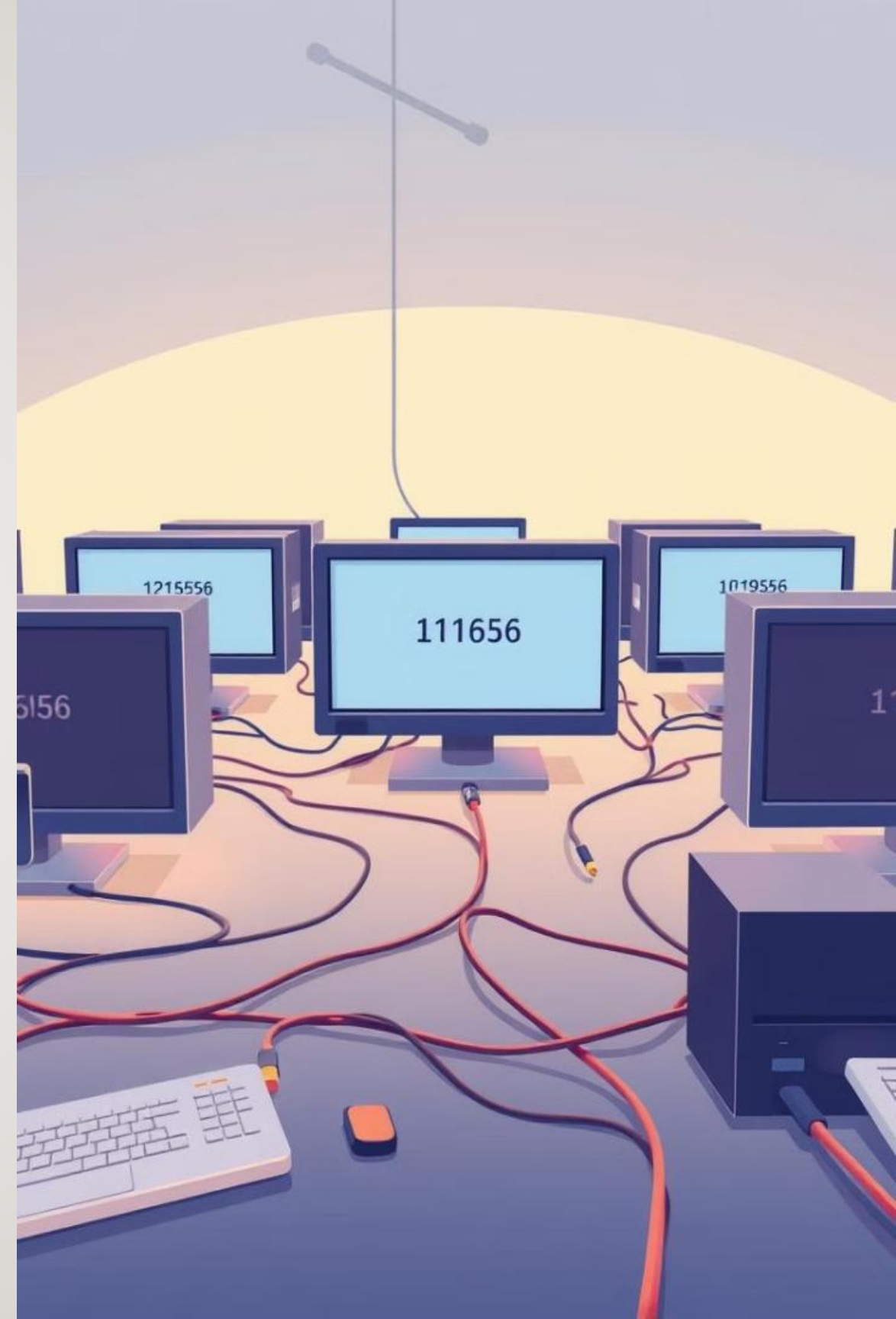


Understanding IP Addresses

IP addresses are a fundamental component of internet communication. They serve as unique identifiers for devices on a network, enabling seamless communication and data transfer between them.



by John Rib A. Cananga





Introduction to IP Addresses

1

Addressing System

IP addresses provide a logical addressing system for devices on a network.

2

Network Communication

They allow devices to communicate with each other, enabling data exchange and information flow.

3

Unique Identification

Each device on a network has a unique IP address, preventing conflicts and ensuring efficient communication.

Class A IP Address

Address Range

1.0.0.0 to 126.255.255.255

Network Mask

255.0.0.0

Network Size

16,777,214 hosts per network



Class A IP Address Details

IP Address	10.0.0.1
Subnet Mask	255.0.0.0
Default Gateway	10.0.0.254

Class B IP Address

Address Range

128.0.0.0 to 191.255.255.255

Network Mask

255.255.0.0

Network Size

65,534 hosts per network



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Class B IP Address Details

IP Address	172.16.0.1
Subnet Mask	255.255.0.0
Default Gateway	172.16.0.254

Classs B IP
Hietif
PT.34058.14
C. Default Gatway

Class C IP Address

Address Range

192.0.0.0 to 223.255.255.255

Network Mask

255.255.255.0

Network Size

254 hosts per network

Class C IP

192.168.1.100

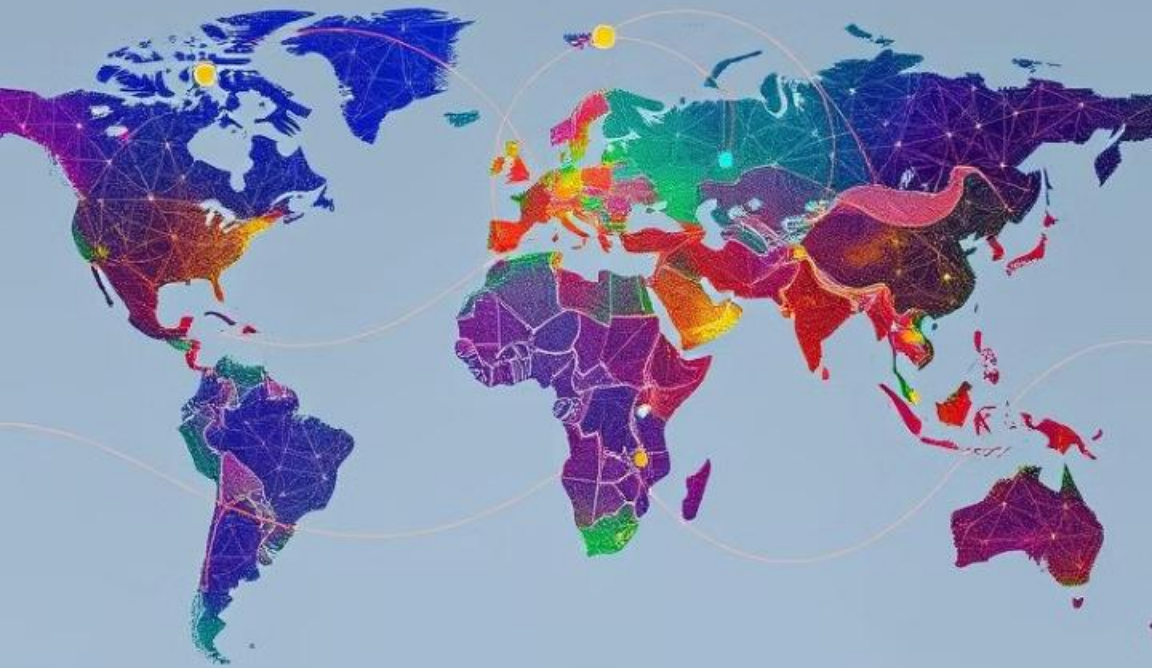
255.255.255.0

Class C IP Address Details

IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254

Class D IP Address (Multicast)

Address Range	Network Mask	Purpose
224.0.0.0 to 239.255.255.255	N/A	Used for group communication, where a single message is sent to multiple recipients simultaneously.



Conclusion

Understanding IP addresses is essential for anyone working with networks. These addresses are crucial for network communication, identification, and data transfer. Class A, B, C, and D addresses each serve specific purposes and contribute to the efficient functioning of the internet.