

Networking & Content Delivery

Amazon Web Services

Networking & Content Delivery

- Introduction to IP Addressing and On-Premise Networks
- Amazon VPC
- AWS Direct Connect
- AWS CloudFront
- API Gateway
- AWS Cloud Map
- Global Accelerator





IP Addresses and Port Numbers – Part 1

Amazon Web Services

An IP Address stands for Internet Protocol Address.

 A unique string of numbers separated by full stops that identifies each computer using the Internet Protocol to

comm



192.168.4.2

IPv4 Address



Lets Talk Mobile Phones...



Mobile Network Provider



Phone No: xxxxxxxxxx



Lets Talk Mobile Phones...



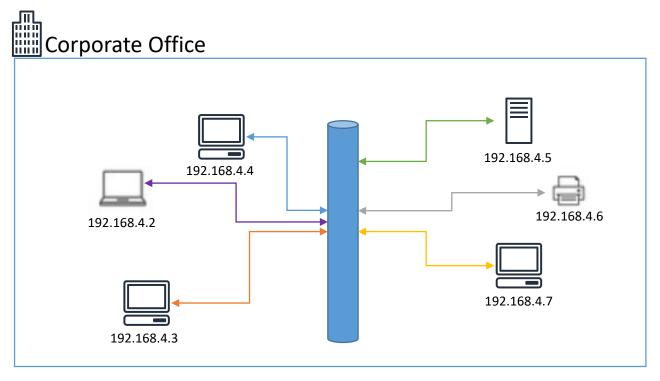


Computers use IP Addresses to communicate with each other...





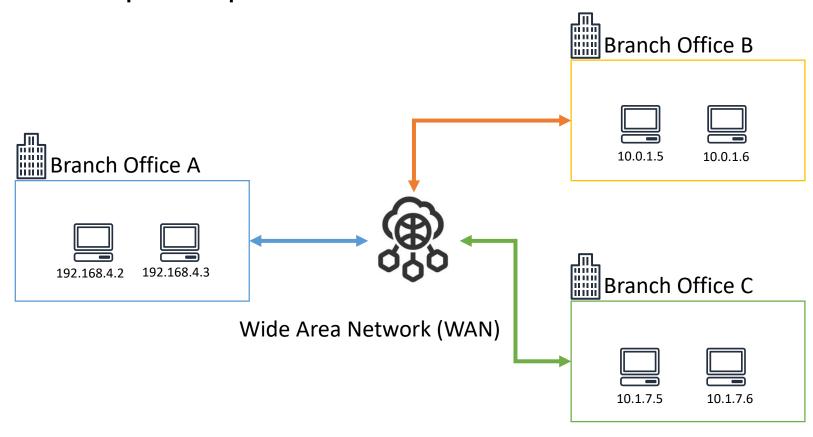
... and to participate in a network.





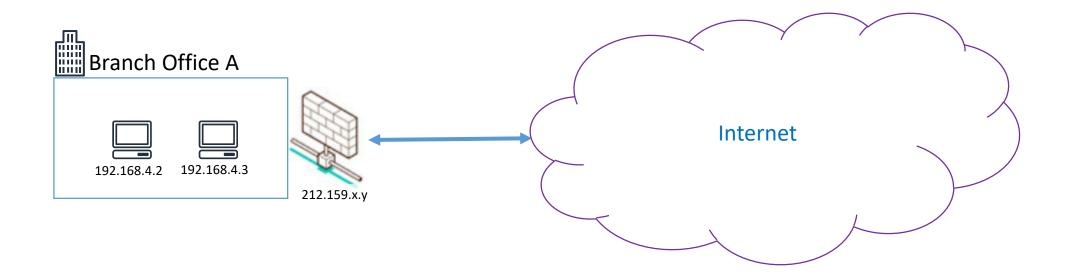
Local Area Network (LAN)

... and to participate in a network.



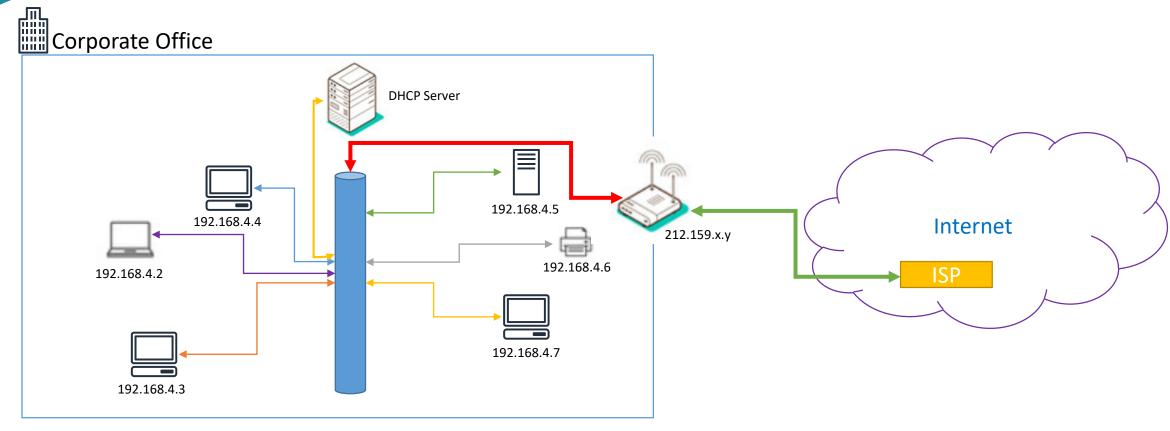


... and to communicated on the Internet





How are IP Addresses assigned?



Local Area Network (LAN)



Versions of IP Addresses

Two Versions of IP Addresses

192.168.4.2

IPv4 Address

2001:0db8:85a3:0000:0000:8a2e:0370:7334

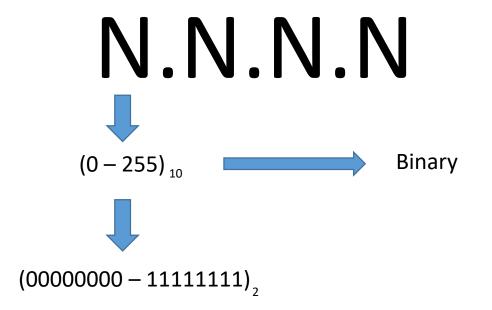
IPv6 Address



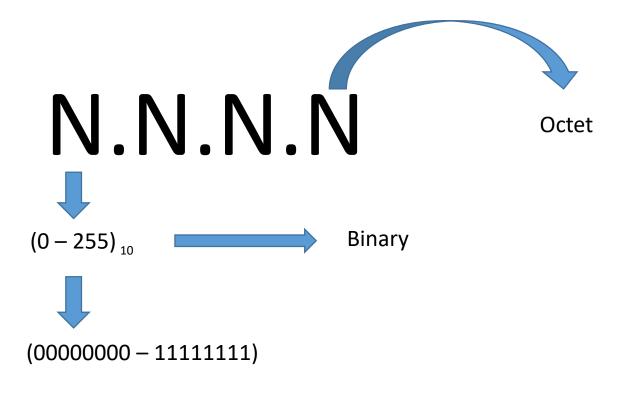
The IP Address Format

NNNN

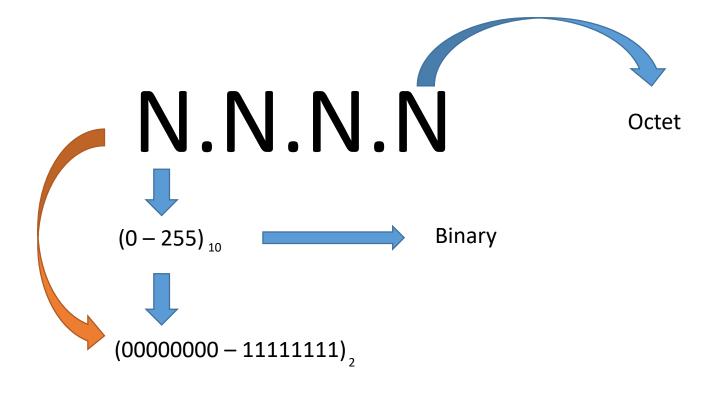




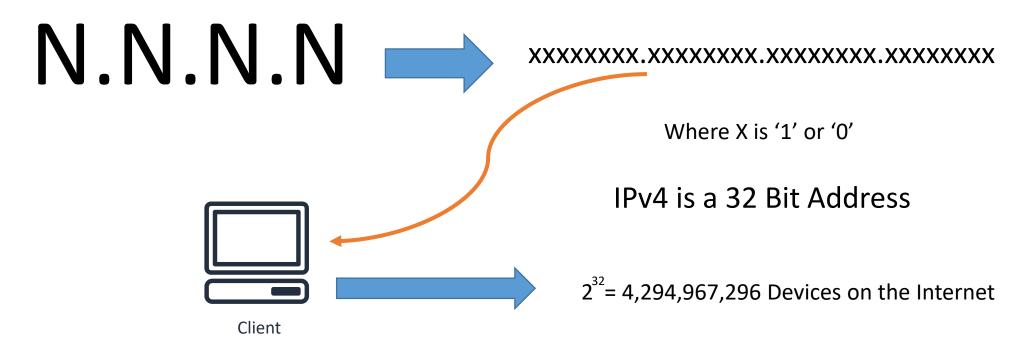














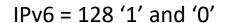
The Problem with IPv4 32Bit Address

Only 4,294,967,296 Devices on the Internet



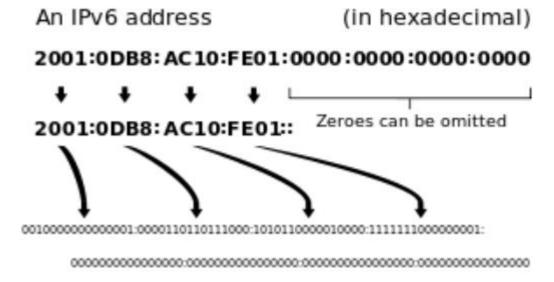


The IPv6 Address Format is a 128 Bit Address





2¹²⁸ (exactly 340,282,366,920,938,463,463,374,607,431,768,211,456)





Next Video