IPv4 Addresses

- An IPv4 address is 32 bits long.

- It is written as 4 'octets' in dotted decimal format.

- For example 192.168.10.15

- Each octet is 8 bits long (4 x 8 = 32)

Static vs Automatic Addressing

- The IP address is usually set manually on servers, printers and network devices such as routers and switches. It is usually assigned automatically through the Dynamic Host Configuration Protocol (DHCP) on desktop computers.

- To understand how the logical separation between subnets works, you need to understand the IP address in binary.