

Assignment for 26/4/2024 attendance

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➤ What is size of IPV4 and IPV6?

The size of IPv4 and IPv6 addresses is significantly different, reflecting a major advantage of IPv6: its vastly larger address space.

IPv4: Uses a 32-bit address length. This translates to 2^{32} possible unique addresses, which is roughly 4.3 billion.

IPv6: Employs a 128-bit address length. This offers a much larger address space with 2^{128} possible unique addresses, a number so vast it's expressed as an astronomical term: 340 undecillion.

Due to the exhaustion of IPv4 addresses, IPv6 is crucial for accommodating the ever-growing number of internet-connected devices.