

Backend

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You see here kid? You gotta just go for it; don't think about what comes after or what came before. You just gotta bend your knees, take a deep breath, and jump. And you might think; what if I fall? Well, what if you don't? what if you fly?

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# Protocols

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A protocol is a set of rules for data communication in a network. It allows devices to send and receive data in packets. Data packets are addressed, routed and sent across networks.

## 1.1 IP

IP stands for *Internet Protocol*.

There are two main versions of the Internet Protocol: the older, but still widely used, **IPv4** and the more recent and scalable **IPv6**.

An IP Address is a unique numerical label assigned to every device, such as a computer, phone or server; that is connected to a computer network or the internet.

When information is sent online, it is broken into smaller pieces called data packets. The IP address acts as the "electronic return address" for these packets, ensuring they arrive at the correct destination.

IP addresses can be public or private.

### 1.1.1 Public IP Address

### 1.1.2 Private IP Address

192.186.0.0

## 1.2 TCP

## 1.3 TLS

## 1.4 UDP

## 1.5 DNS