1. The difference between VPN and PROXY

Both a VPN and PROXY mask the ip address of a device .The difference between them is that a VPN will encrypt the data sent and received via your pc types of VPNS are {Remote access,intranet based site to site and extranet based site to site} .But a PROXY does not do that it only masks the ip address of the pc types of PROXYIES are {Reverse Proxy ,Web proxy server, Anonymous Proxy ,High Anonymity Proxy ,Transparent Proxy ,CGI Proxy ,Suffix Proxy ,Distorting Proxy} .Hence connecting to a website or app through a proxy and you already have a VPN connection would be unnecessary.

1. The difference between IPV4 and IPV6

An ip address is used for routing and addressing packets for networking devices.

There are two versions of the internet protocol namely:

* Internet protocol version four {IPV4}
* Internet protocol version six {IPV6}

Both of the ip address versions differ but they in the longterm fulfil the same purpose as they identify machines connected to a network {machines like: pc ,switches ,hubs}.But they differ in how they work the IPV4 uses a numeric address system and its binary bits are separated by a dot{.} while the IPV6uses an alphanumeric address whose binary bits are separated by a colon{:} and is also hexadecimal.

The IPV4 uses a 32 bit address scheme Allowing it to store {4.19 billion addresses}. The IPV6 uses a 128 bit address scheme and it has greatly solved the problem for limited network address resources but also resolves the barriers for multiple access devices to connect to the internet as it is inexhaustible compared to IPV4.