

# What is Internet?

- The internet is a global network of interconnected computers and devices that communicate and share information with each other.
- It is the backbone of the web, the technical infrastructure that makes the web possible.
- Vint Cerf, one of the fathers of the internet, explains internet as a network of networks, made up of independently operating networks.
- Connecting computers individually requires large number of cables, so, to solve the issue, each computer is connected to a special tiny computer called router. The router acts like a traffic officer who signals data where to go, meaning destination computer.
- To connect billions of computers, ~~one~~ <sup>one</sup> can scale thousands of routers interconnected to exchange data. <sup>but</sup> Sadly inefficient for creating connections globally for personal purposes, it requires other networks. For example, modem. It connects our network to the telephone infrastructure.
- Next step, to send messages from our network to the network we want to ~~use~~ reach, we need to connect our network to an ISP. (Internet Service Provider).
- An ISP is a company that manages some special routers that are all linked together and can also access other network or ISP's routers. So, through the network of ISP networks, our messages from our network is carried to the destination network.

