Road Map to Web Development

* Front End Web Dev

# Internet

**Phase - I**

How does the internet work?

What is HTTP?

Browser and how they work?

**Phase – II**

DNS and how it works?

What is Domain Name?

What is hosting?

**How does the Internet work?**

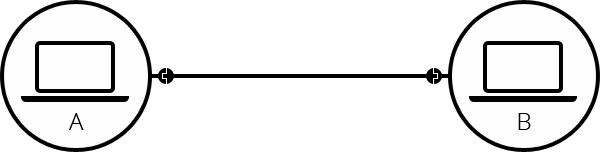
**Summary:** The Internet is the backbone of the Web, the technical infrastructure that makes the web possible. At its most basic, the Internet is a large network of computers which communicate all together.

**Advance and In-detailed Network:** When two computers need to communicate, you have to link them, either physically (usually with an **Ethernet** cable) or wirelessly (for example with **Wi-Fi** or **Bluetooth** systems). All modern computers can sustain any of those connections.

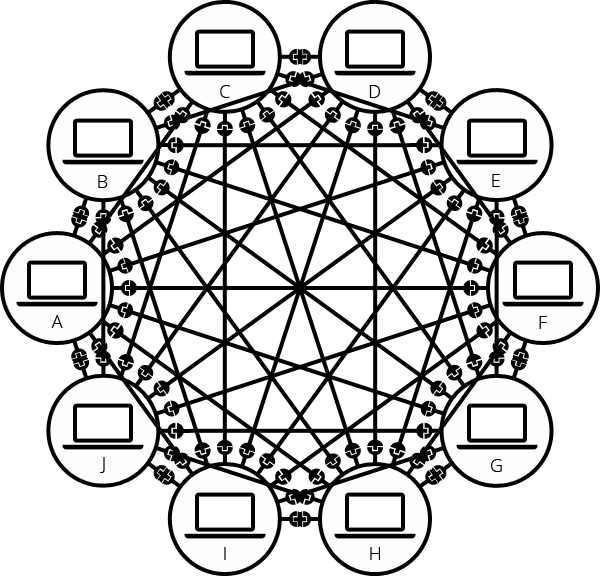
Ethernet Cable Wi-Fi



**Note:** For the rest of this document, we will discuss only about physical cables, but wireless networks work the same.

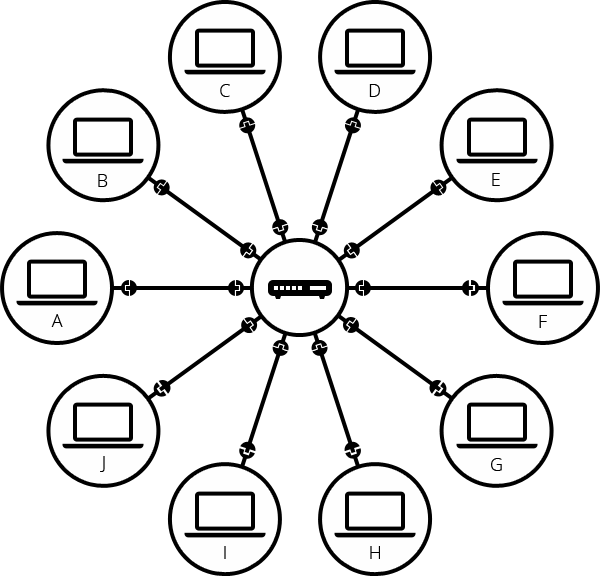


Such a network is not limited to two computers. You can connect as many computers as you wish. But it gets complicated quickly. If you’re trying to connect, say, ten computers, you need 45 cables, with nine plugs per computer.



To solve this problem, each computer on a network is connected to a special tiny computer called a router. This router has only one job like a signaler at a railway station, it makes sure that a message sent from a given computer arrives at the right destination computer. To send a message to computer B, computer A must send the message to the router, which in turn forwards the message to computer B and makes sure the message is not delivered to computer C.

Once we add a router to the system, our network of 10 computers only requires 10 cables a single plug for each computer and a router with 10 plugs.



A network of networks

So far so good. But what about connecting hundreds, thousands, billions of computers? Of course a single router can’t scale that far, but, if you need carefully, we said that a router is a computer like any other, so what keeps us from connecting two routers together? Nothing, so let’s do that.