

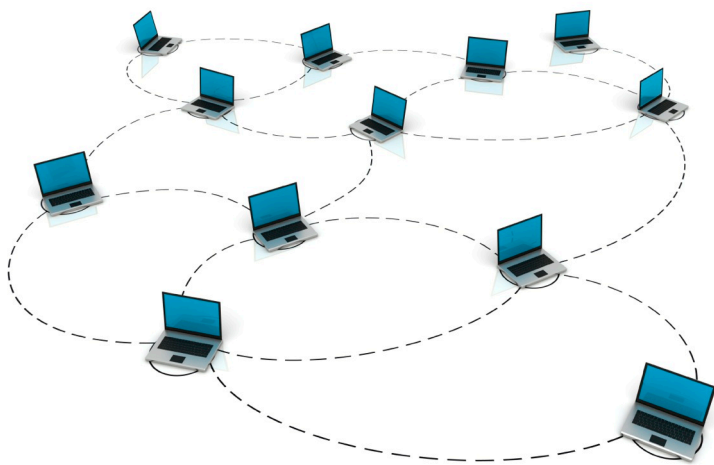
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Build your own Internet: Top Tips



Networking is connecting several computers together to communicate. Networks can be connected in a variety of different ways using different components, some add extra security or some increase network efficiency. These networks enable us to work together, access same information or even share access to hardware such as printers!

For a network to work properly it has to follow a selection of rules, these rules are called “Protocols”, allowing communication between computers sending and receiving data.

The Internet vs World Wide Web

- The Internet is a huge network connecting billions of computers together across the World.
- Computers can communicate to one another permitted they are both connected via the Internet.

- The WWW is a way to access information on the Internet.
- It uses a HTTP Protocol to transmit data across the Internet.
- The web uses browsers e.g. Explorer, Firefox, Safari or Chrome.
- The browsers allow users to access web based documents called Web Pages.

The hardware used within a network can vary, however below are a list of some components you may find and what they do. Note: you will not be using all of these components within the bootcamp.

Networking hardware	Hardware	Description
	Ethernet Cables	Packet switched computer networking technology for local area networks. (LANs)
	Crimping Tool	Used to connect a connector to the end of a cable. Each wire is placed in the connector and the connector is squeezed in the tool.
	Ethernet connector	Looks similar to a phone connector, used to connect one computer to another, modem, DSL or local network.
	Router	Forwarding packets of data along networks to terminals using protocols to communicated with each other.
	LAN Network Cable Tester	Used to check electrical connections in a cable.
	Modem	Enabling a computer to send data through the connected cables.
	Firewall	Security for your networking, controlling traffic by checking the data packets and sending/not sending them on.
	Switch	Used to connect several devices on a network together, sends a message to a device that needs it, not to all devices like a hub.
	Hub	Linking several devices together and sending same message to those devices within that network segment.
	Bridge	Connecting a LAN to another LAN using the same protocols (rules).
	Proxy Server	Middle man between terminal and the internet, so monitoring and maintenance can go ahead.
	Gateway	Acts like a gateway to another network.

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