



# Assalam-u-alaikum

## BILAL KHAN

This is my 4th video of  
DevOps

# Computer Networking

## **What is Computer?**

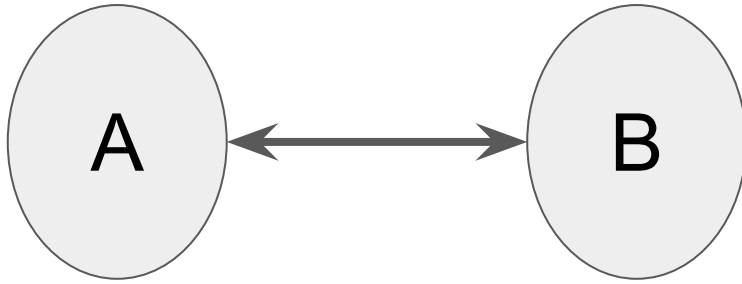
Computer is a machine that will take input from the user and give it an output.

## **What is Computer Networks?**

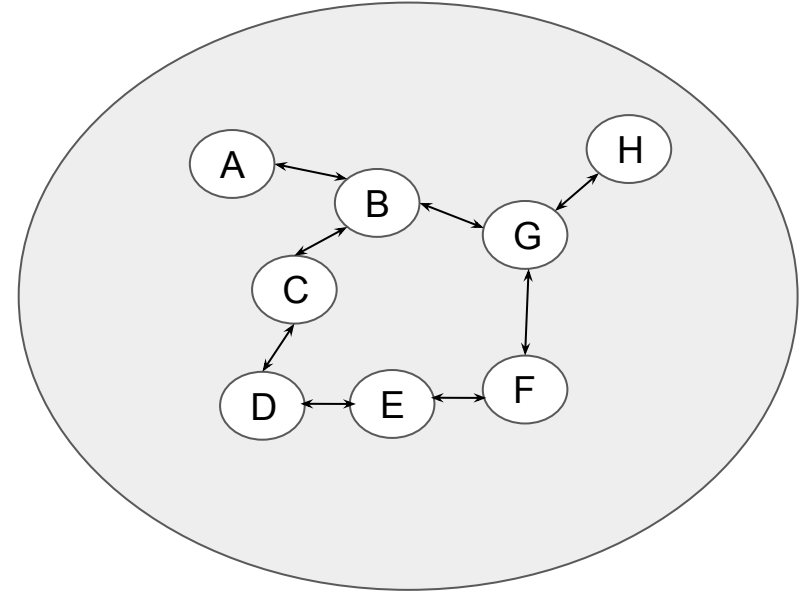
It is a collection of computers that are connected together to form a network.

# What is Internet?

Internet is the collection of all the computer networks.



**Computer Networks**



**Internet**

# History of Internet

In the cold war, USA created an agency called DARPA(Defence Advanced Research Projects Agency) or ARPA that was responsible for the use of advance technologies.

Initially there were some institutions that were connected together

- Stanford Research Institute
- University of California
- University of Utah

They created a network called Arpanet to communicate with each other.

# What is Protocol?

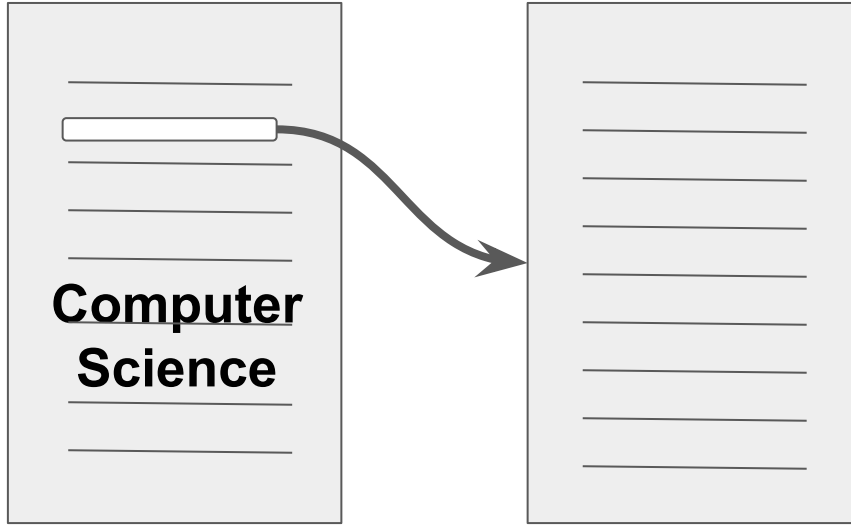
Protocols are the set of rules that are used to communicate with different networks.

Some of the protocols are

- TCP - Transmission Control Protocol
- UDP - User Datagram Protocol
- HTTP - Hypertext Transfer Protocol

## Who set these rules?

# Problem

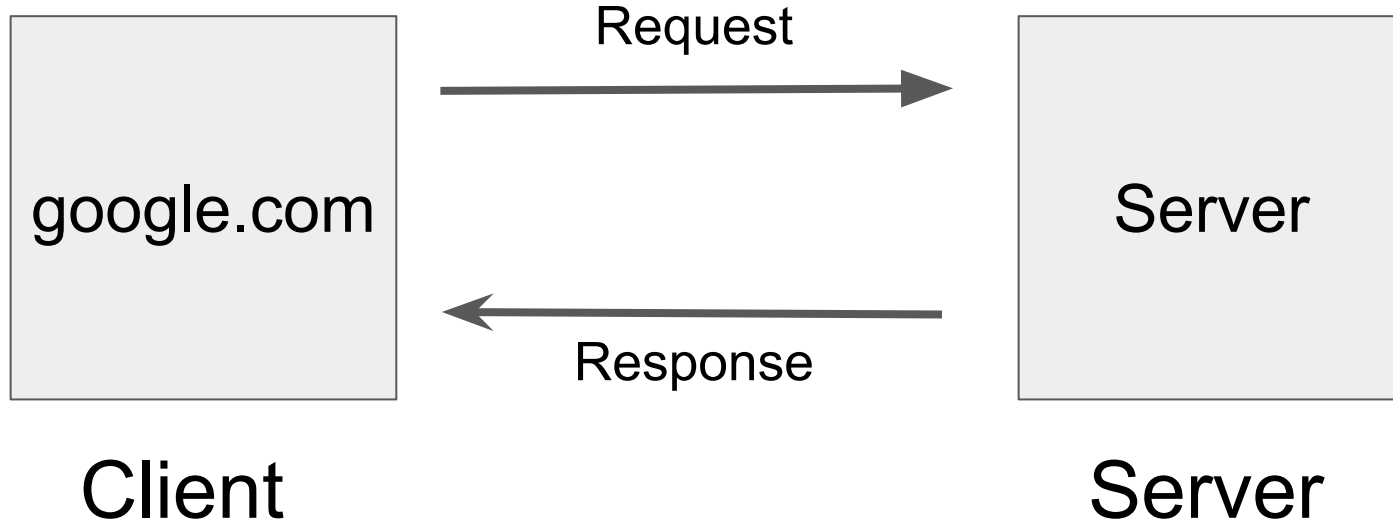


# Solution

**WWW**  
(World Wide Web)

[World's first website](#)

# How world wide web works?



Large files will be transferred in chunks/packets.

**When you type google.com, how does it find which server to connect to?**

All computers and servers are identified by an ip address.

E.g. phone book

Every computer and server that are connected to the internet talk to each other via an ip address.



**Here is the format of an ip address.**

**X.X.X.X**



0-255

Command for checking an  
ip address

```
$ curl ifconfig.me -s
```

# That's It

I hope you will like this video.

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