Websites, Servers & Cloud Computing : A Practical Approach
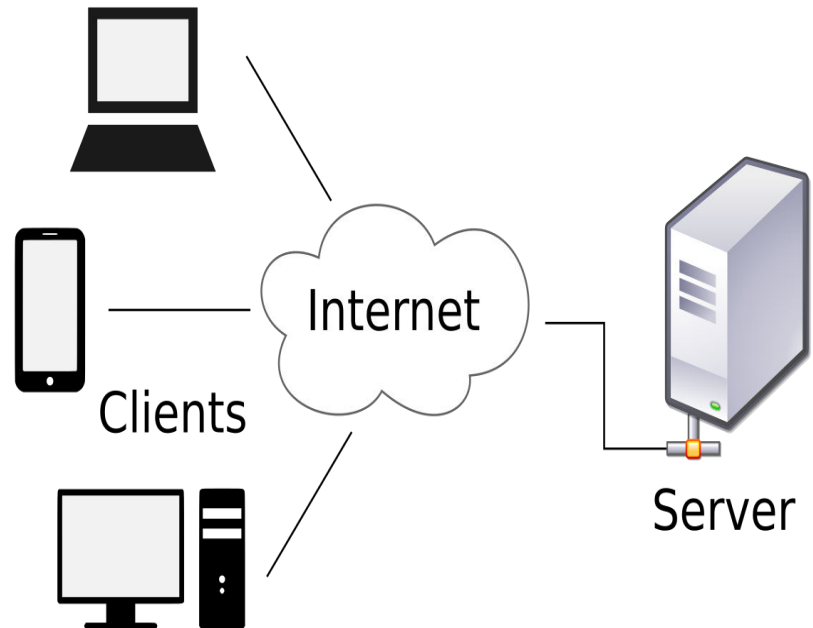
By Vivek Muthal

Topics

- Introduction
- Client
- Server
- Internet
- Website / Web Application
- Serverside Technologies
- Clientside Technologies
- Cloud Computing
- Server Setup
- Current Trends

Introduction

- About Me (I am Vivek Muthal)
- Why this seminar?
  - Because I want to share the tricks.
- What is practical approach?
  - It is just like you do practical in lab.
- Lets move to the next slide

Client

- Who is client?
  - The one who request is client
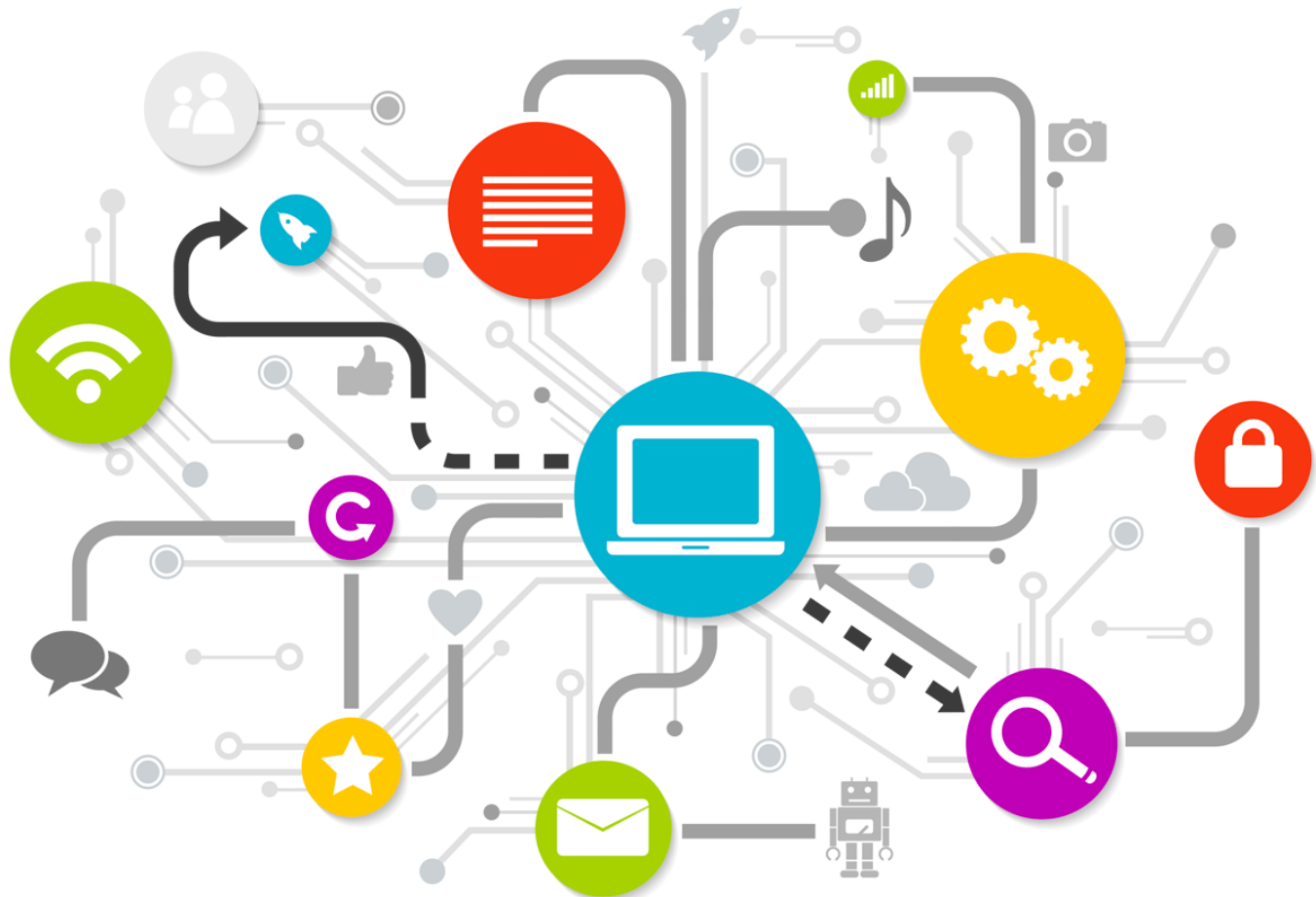
Server

- The one who responds and serves.

HTTP response codes

404
Page not found

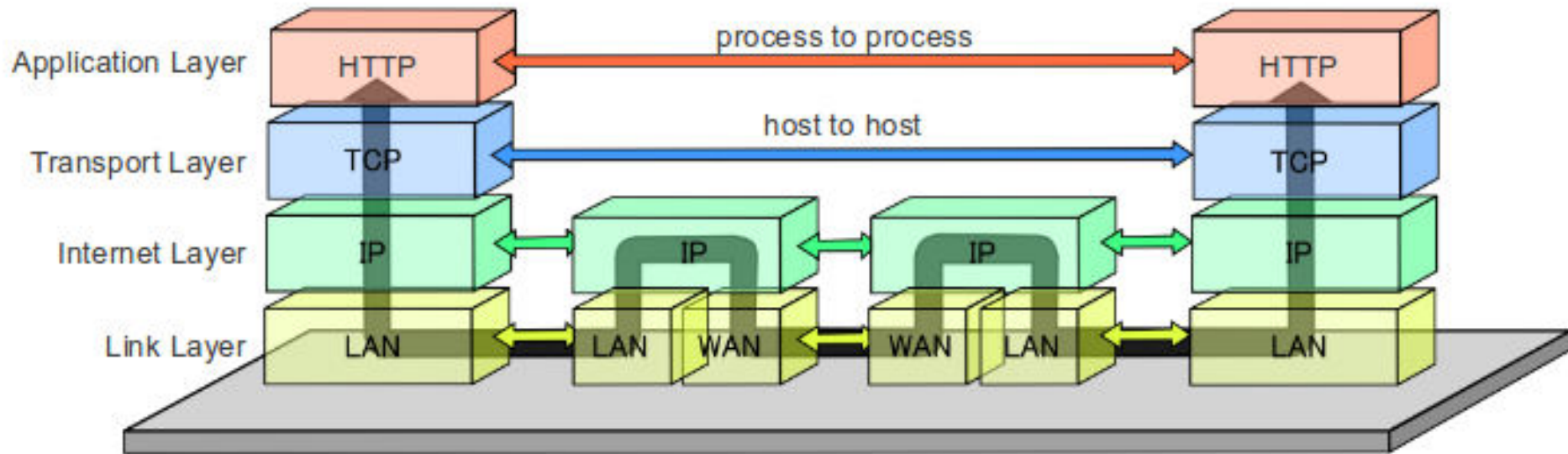| HTTP code	Meaning
200	OK
4xx	Bad request (client's fault)
5xx	Failed request (server's fault)
401	Unauthorized request
404	Resource not found
500	Internal error (bug)
503	Server overloaded

Internet

- Boring, we know about internet….

Behind the scene

Data Flow of the Internet Protocol Suite

Website / Web Application

- How to create a website?
  - HTML / CSS / Client side Javascript / flash
- How to create a web application
  - HMTL/ CSS/ Client side Javascript/ flash
  - Server side processing power
    - PHP, .NET, JAVA etc
- Are these terms interchangeable?
  - Yes if you are using any server side apps which now days everyone uses like wordpress.

Serverside

- Languages: .Net, Java, PHP,
- Framework/ Libraries/ Technologies:
  - Joomla, Wordpress (PHP)
  - .Net MVC
  - Node.js etc
- Software's
  - Website servers like Apache, IIS, Tomcat
  - Mail servers like postfix, sendmail, hmailservers etc

Clientside

- Languages: Browser based Javascript, Java, VB Script etc
- Framework/ Libraries/ Technologies:
  - Angular, underscore, node.js, vue.js, jquery
  - Adobe Flash, android etc
- Software's:
  - Browsers
  - Application Clients
  - API consumer

Cloud Computing

Cloud Computing

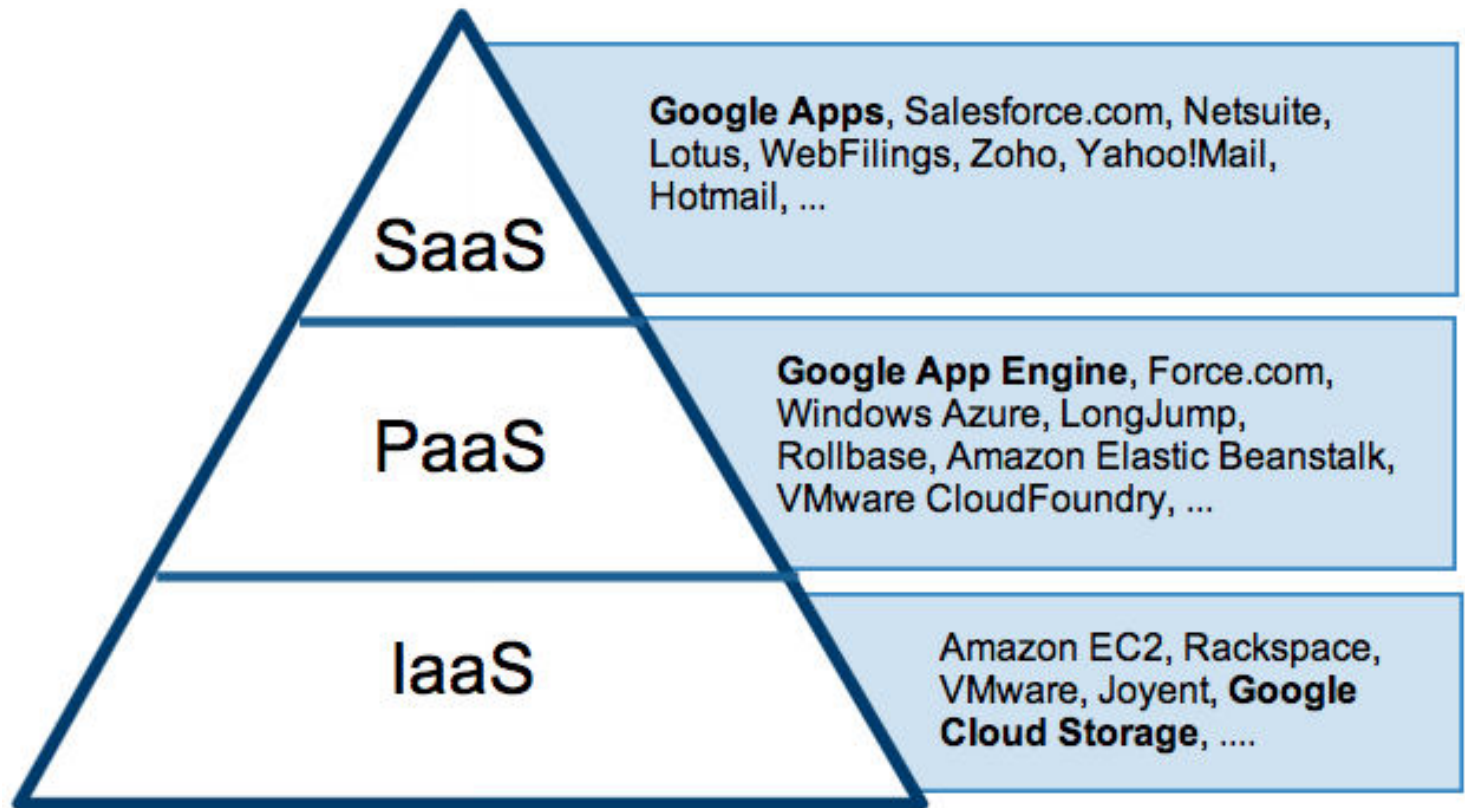|					
SaaS Software as a Service	BPM	CRM	DMS	Social Portal	Web Office
PaaS Platform as a Service	Application Builder	Mashup Studio	Process Designer	Report Editor	Application Engines
IaaS Infrastructure as a Service	Cloud Appliance	Cloud Controller	Elastic Compute	Elastic Storage	Elastic Database

Benefits

Services / Providers

SaaS: **Google Apps**, Salesforce.com, Netsuite, Lotus, WebFilings, Zoho, Yahoo!Mail, Hotmail, ...

PaaS: **Google App Engine**, Force.com, Windows Azure, LongJump, Rollbase, Amazon Elastic Beanstalk, VMware CloudFoundry, ...

IaaS: Amazon EC2, Rackspace, VMware, Joyent, **Google Cloud Storage**, ...

Server setup

404 : Opps, nothing here in the slide. Lets see the demo.

Current Trends

- Common
  - Frontend
  - Backend
  - Database
  - Server
- SaaS
  - Coding on cloud
- Things you should study
  - HTML, CSS, JS
  - Git , Repositories