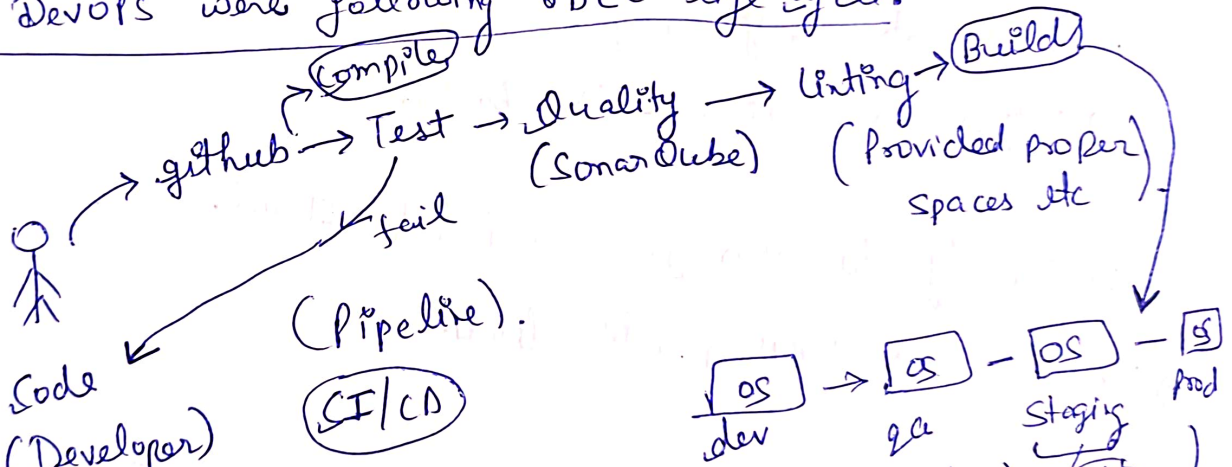
Second use case Zomato added one new feature to reduce Order cancellation wastage of foods.

TTM (Time to Market)

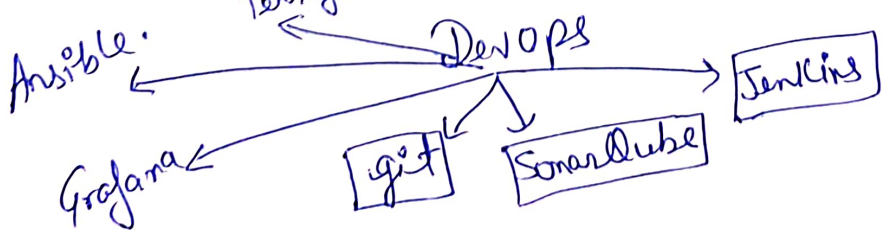
Dev ops → .Automation. (Error free).
↓
.will be fast.

.Before Devops were following SDLC life cycle.



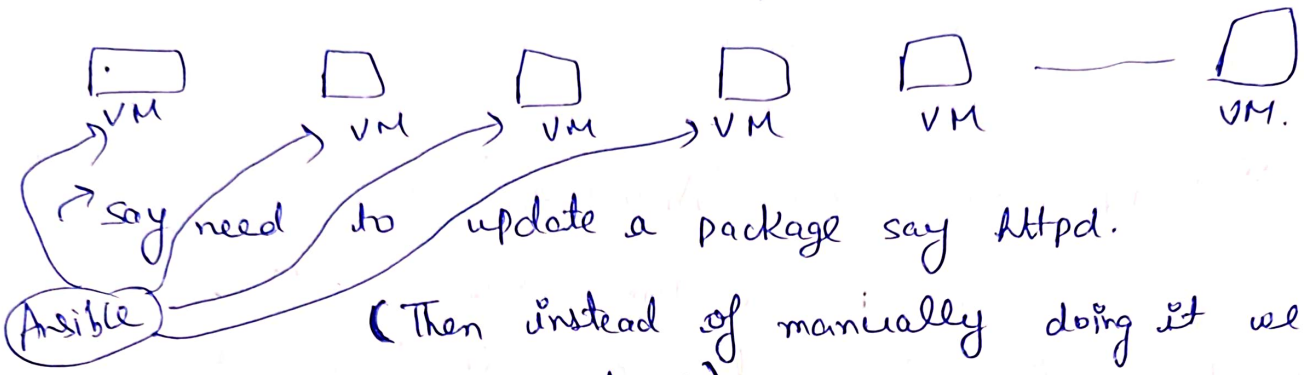
⇒ load testing, integration testing.

Terraform.



Replica of PROD env.

Ansible Configuration Management tool
(Update a software, copy a file etc).



Public Cloud H/w Shared.

Private Cloud H/w will not be shared & Dedicated to single organization / one company. (More Security).

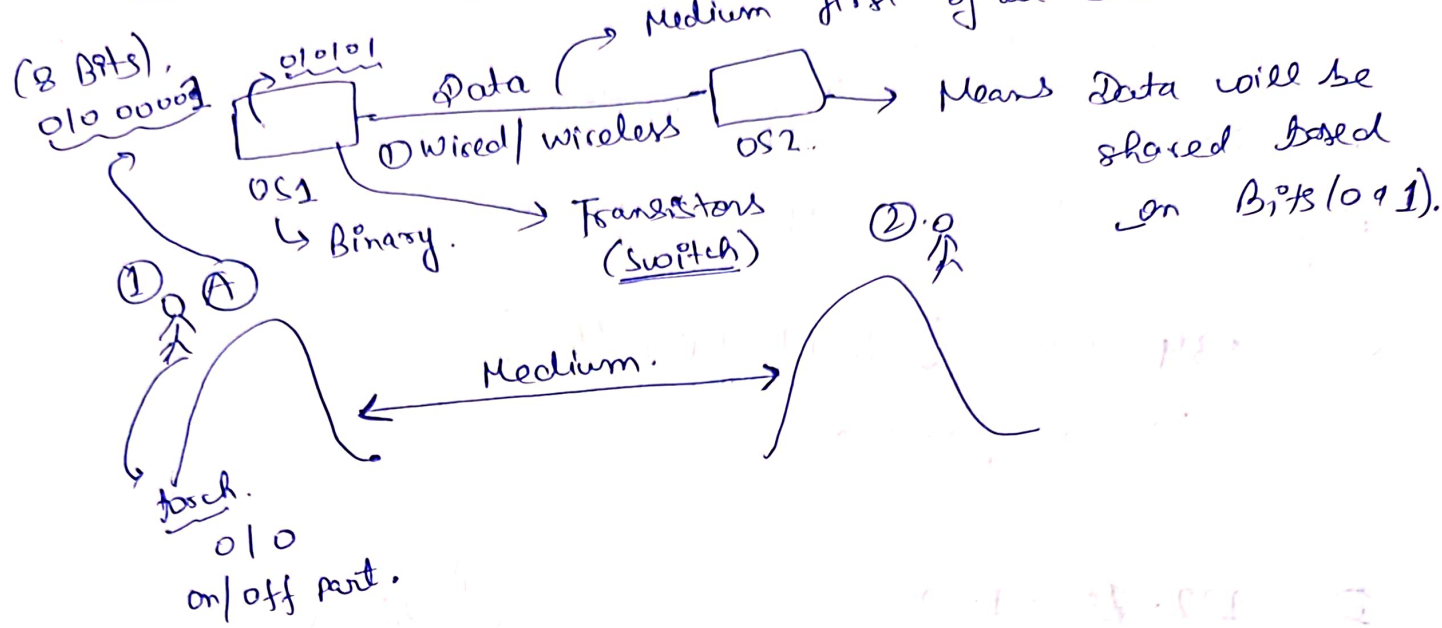
1.) ⇒ **On-premises** were mostly used before cloud computing.
- ↳ full control / Self Manage.
- ↳ Highest upfront cost (Drawback).

2.) Third Party to Manage our Private cloud.

a) VMware b) IBM private clouds.

⇒ How to Share Data b/w Different OS (Operating System).

(N/W) (Networking)



Basic N/W rules

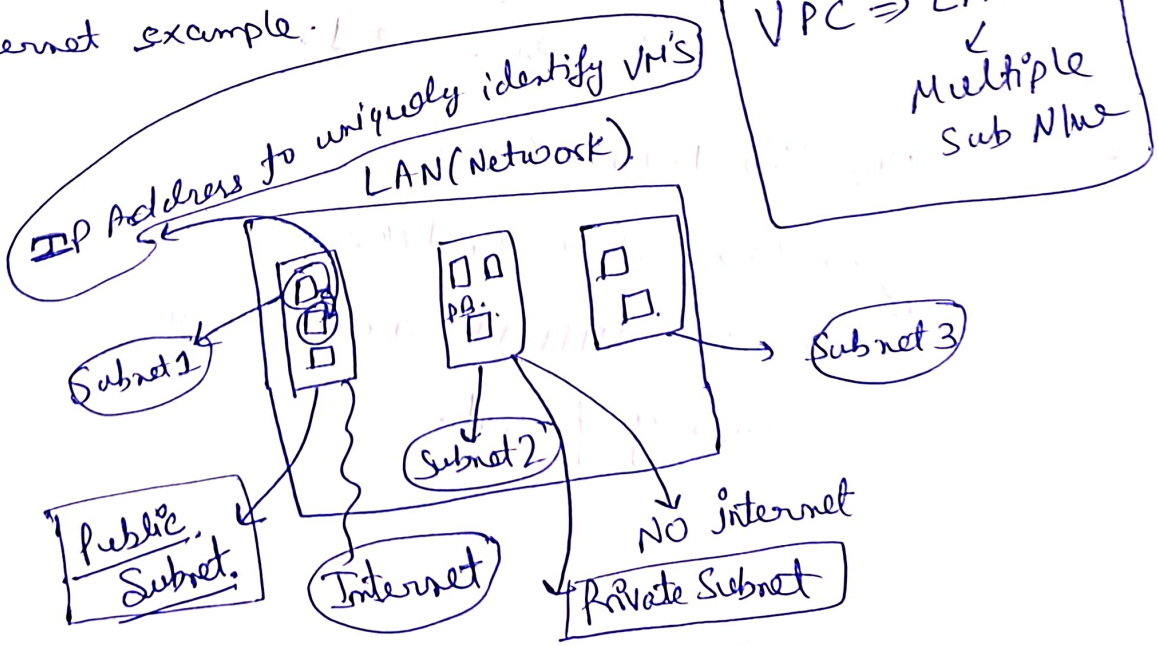
1.) Medium (wired / wireless)
2.) Must have a valid IP Address.
3.) Must Have on the same N/W (network).

4.) Private IP → Private IP
Public IP → Public IP.

Valid IP Address:

LAN ⇒ (Local Area N/W) Connect Devices with a certain Area.
WAN ⇒ Internet example.
(Wide Area Network).

PC ⇒ N/W Cards



⇒ Which is valid IP Address (IPconfig)

IP → Any No which is of 32 Bit Size is a valid IP Address. → This is for readable format only.

Google DNS ⇒ 8.8.8.8 (4 octet) (8 Bits). → .octet format.

(Ping) to check connectivity B/w 2 Parts.

(Ex) 134744072 (Valid IP Address)
(Decimal format).

(1) 192.168.1.90
(2) 8.8.8.8
(3) 134744072
} All 3 are Valid IP Address.

NetMask → All IP Address will Have NetMask as well.
↳ 255.255.255.0
↳ whether 2 systems are on Same N/w or not.

11111111 } → 255
All 8 Bits are 1.

(Ex) 192.168.1.90. (IP)
255.255.255.0 (Net Mask)

11111111 11111111 11111111 00000000.
Binary format.

⇒ Bitwise AND two IP & Netmask then we get Network Name

⇒ 192.168.1.90 (IP)
& 255.255.255.0 (Netmask)
192.168.1 → N/w Name.
(24)

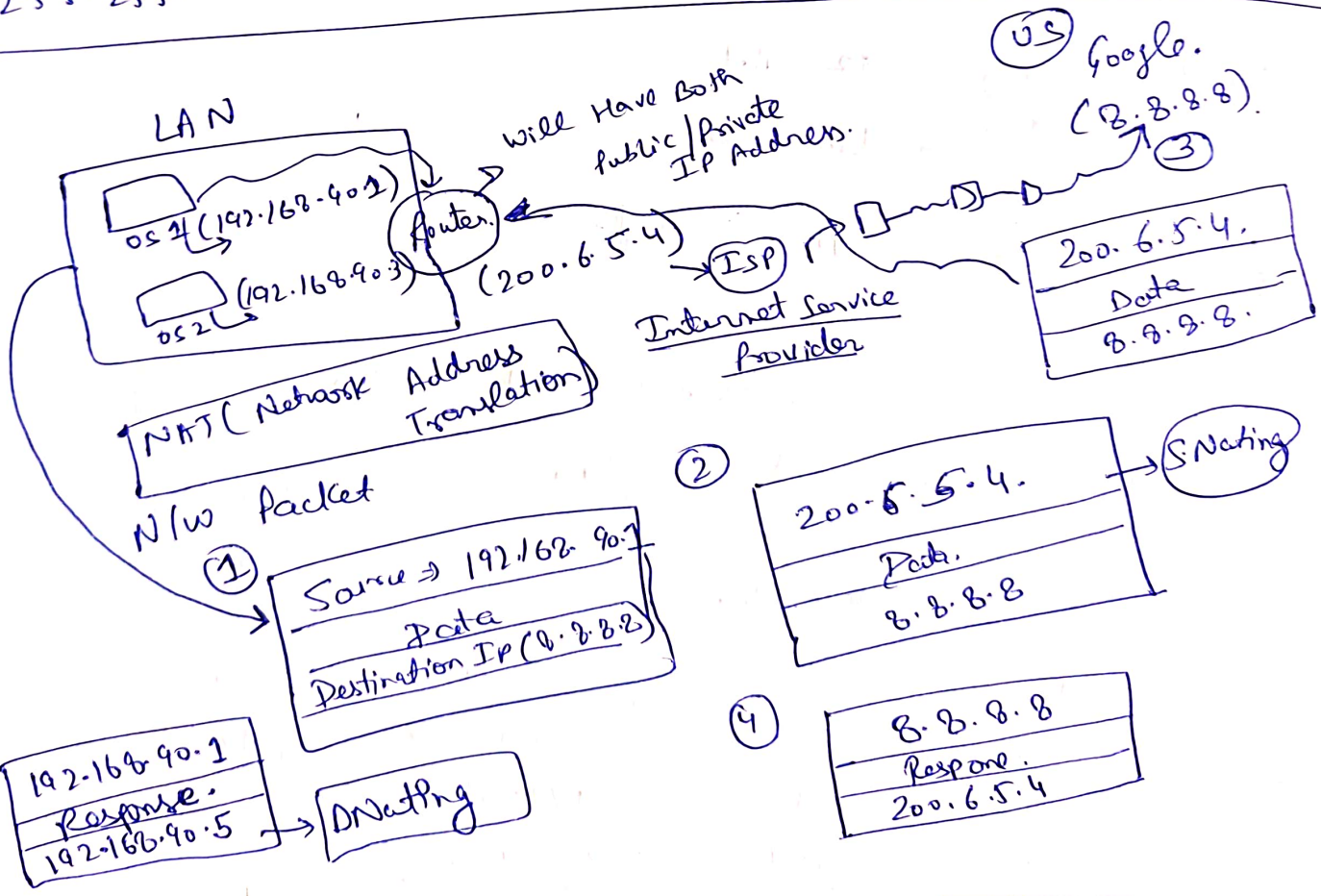
CIDR Notification.
↓ How Many Bits are 1.
Classless Inter-Domain Routing

255.255.0.0
↳ /16 CIDR

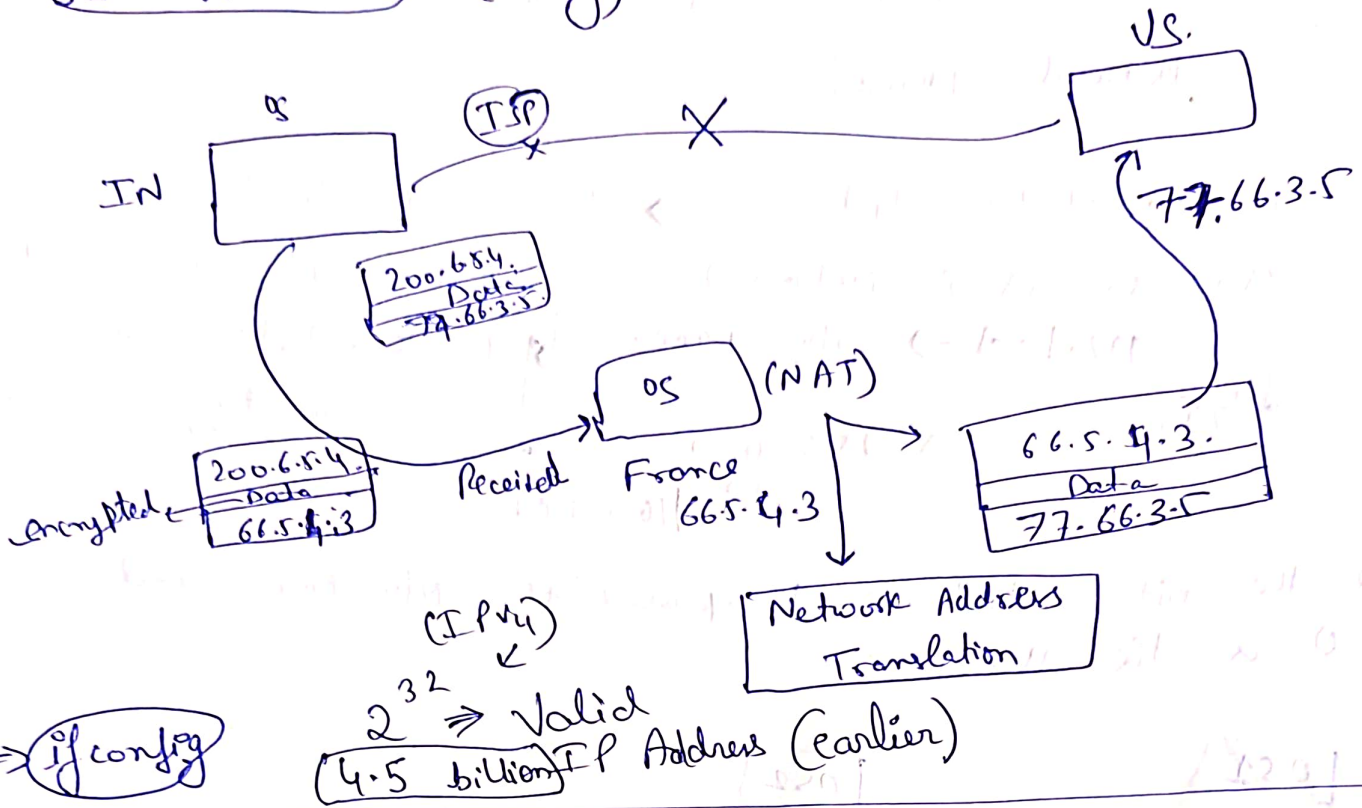
*
⇒ All the Bits which are 1 represent the N/w Name and 0 as the Host Name.

(Ex) OS1 OS2

192.168.1.3 192.
255.255.



How VPN works (Proxy)



(IPv4)

2^{32} ⇒ Valid IP Address (earlier)

(4.5 billion)

⇒ ifconfig

IPv4 ⇒ 2^{32} Bit (can only be created).

IPv6 ⇒ Size ⇒ 128 Bit

⇒ 2^{128} ⇒ Limitless.

IPv6 ⇒ Consist (NAT) part.

⇒ Launch on EC2 instance and then rest of the part is on next page.

⇒ Launch 2 instances.

OS1 instance

ifconfig

IP ⇒ 172.31.22.69

OS2 instance

ifconfig

172.31.22.69

Now check if OS2 can ping OS1

Able to ping, since they are running in the same VPC, same Subnet, have same netmask as well

⇒ Install Apache Server