

- ~~TPK Top~~ → VPN se bhi access nahi kar sakta → Indian Govt. forces VPN to not connect.
- Adult web → VPN se access kar sakta → Indian Govt don't force VPN.

23-09-24

## Lecture - 6 - Dark Web & Subnet Masking

- Dark web  
↓  
→ Illegal works, etc..

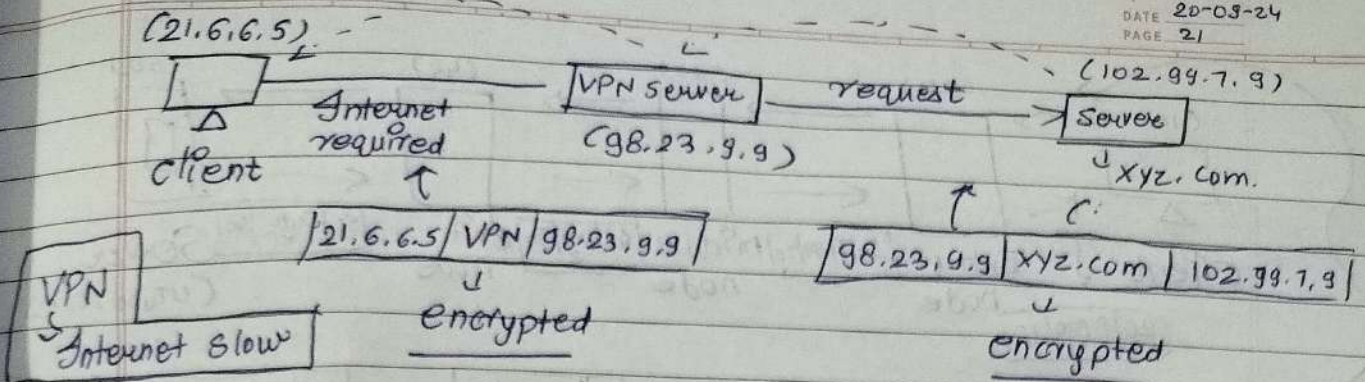
Tor Browser → Extension → .onion

Firstly used by } → Secure  
US Military &  
Anonymous

- There are different protocols to ensure Security & Anonymity

} P.T.O.





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## Lecture - 6 - Dark Web & Subnet Masking

23-03-24

- Dark web  
↓  
→ Illegal works, etc..

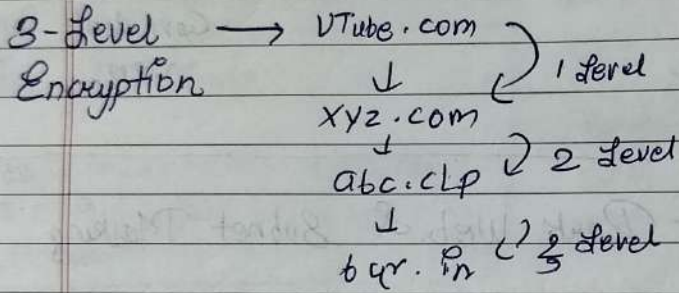
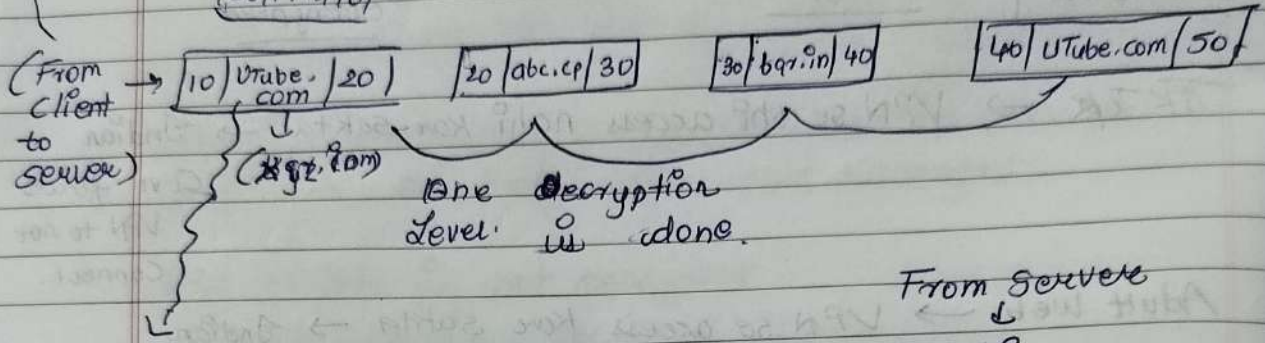
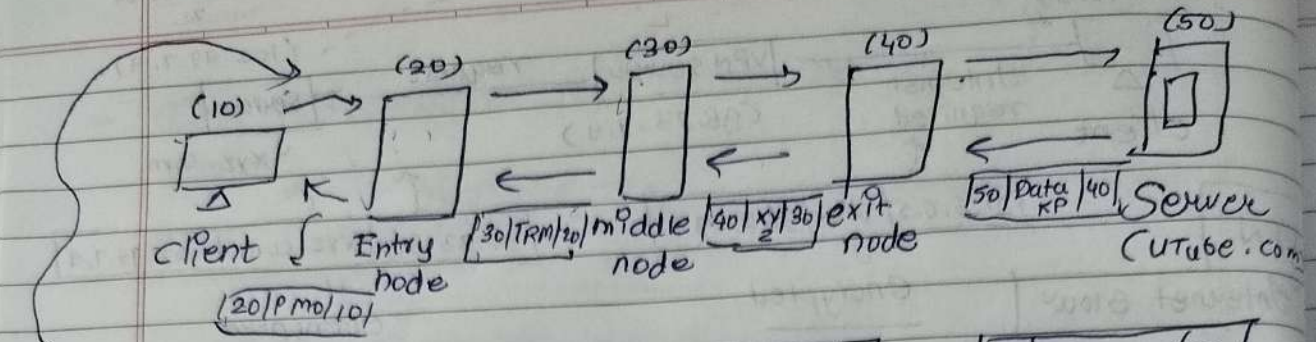
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From server

Data KP

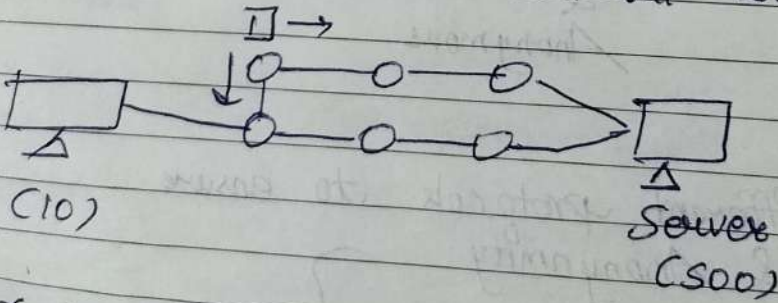
XYZ

TRM

PMD

Client has Power to decrypt the original message.

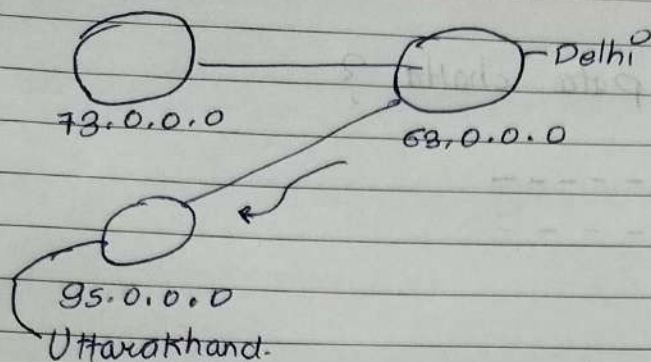
\* IP Address : Random nahi bat sakta → Internet Slow?



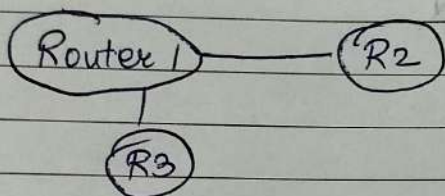
Router decides but how?

One way is that router has all the information & makes it a table. ⇒ Time Consuming method.



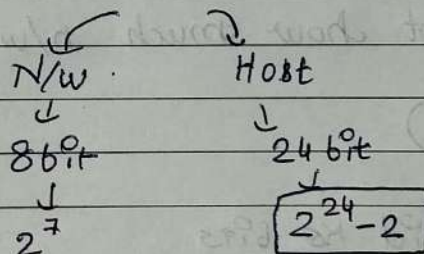


- Router is deciding paths regionwise & meaningfully.



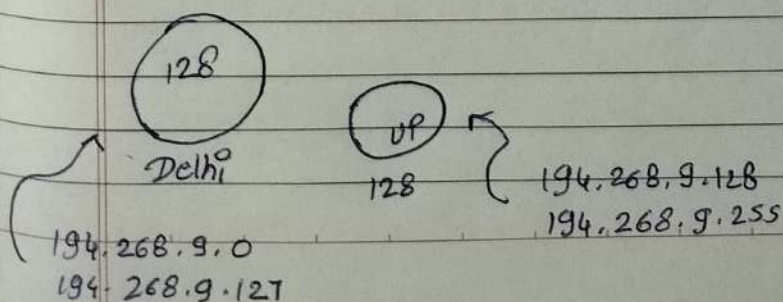
## \* Subnet Masking

Idea  $\rightarrow$  73.0.0.0

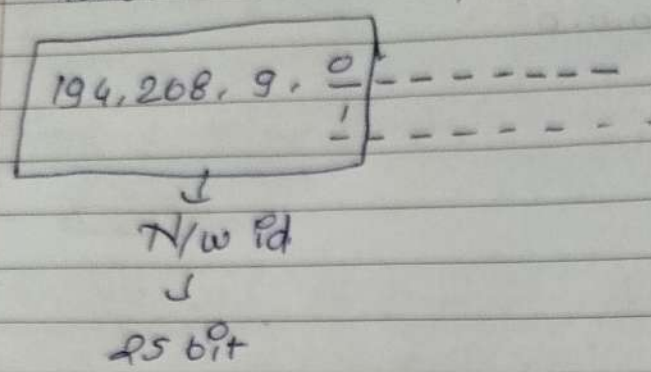


- Eg  $\rightarrow$  Class C  
 $\downarrow$   
194.268.9.0  
 $\downarrow$   
No. of Host  $\rightarrow 2^8 - 2 = 254$

- To make things simpler,



Packet ko kaise pata chalta ?



- Last 7 bit will be host id.

Delhi

194.268.9.0/25

194.268.9.127/25

UP

194.268.9.128/25

194.268.9.255/25

- This "/25" represent how much n/w id I have

- Eg → 8.9.6.128/8

n/w Id ke bits

- Regions are divide by Subnet masking
- Router stores the subnet information.