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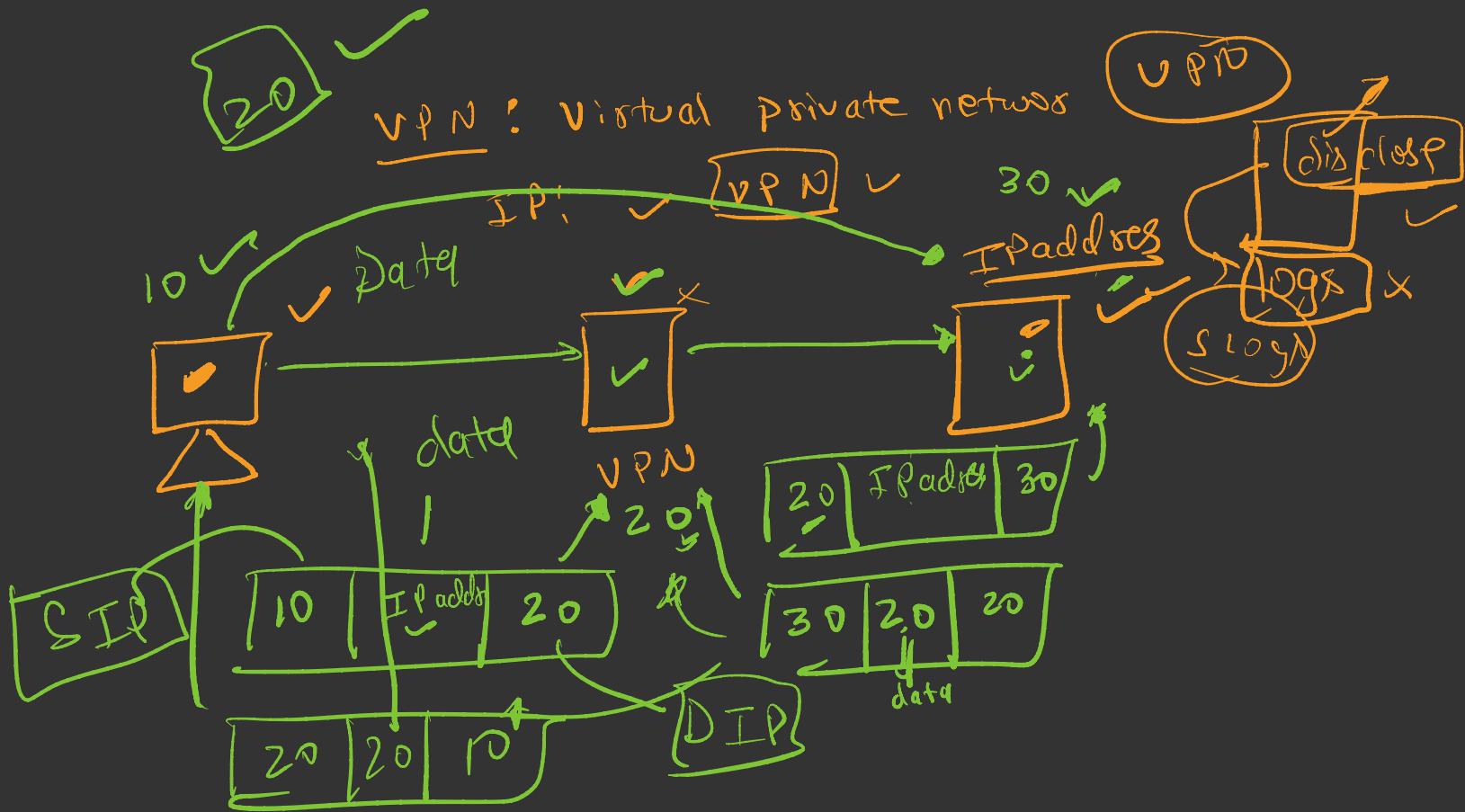
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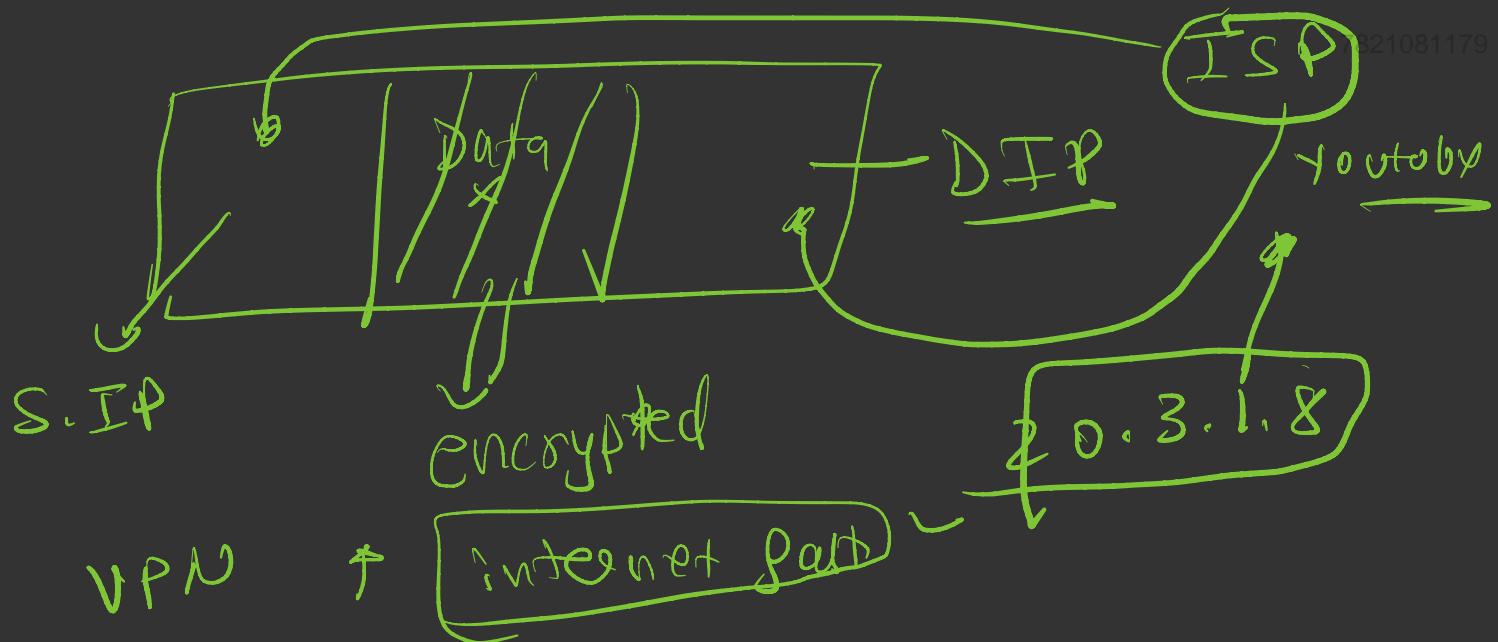
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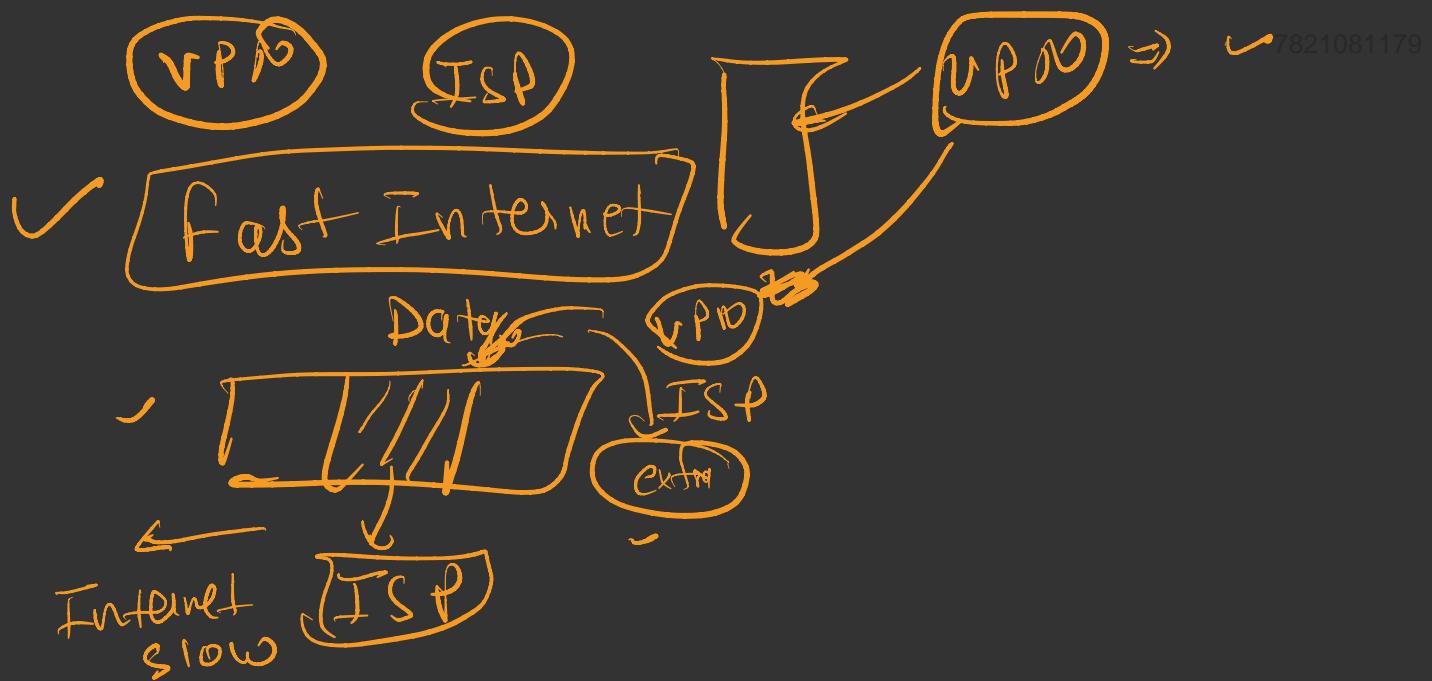


ISP : Streaming

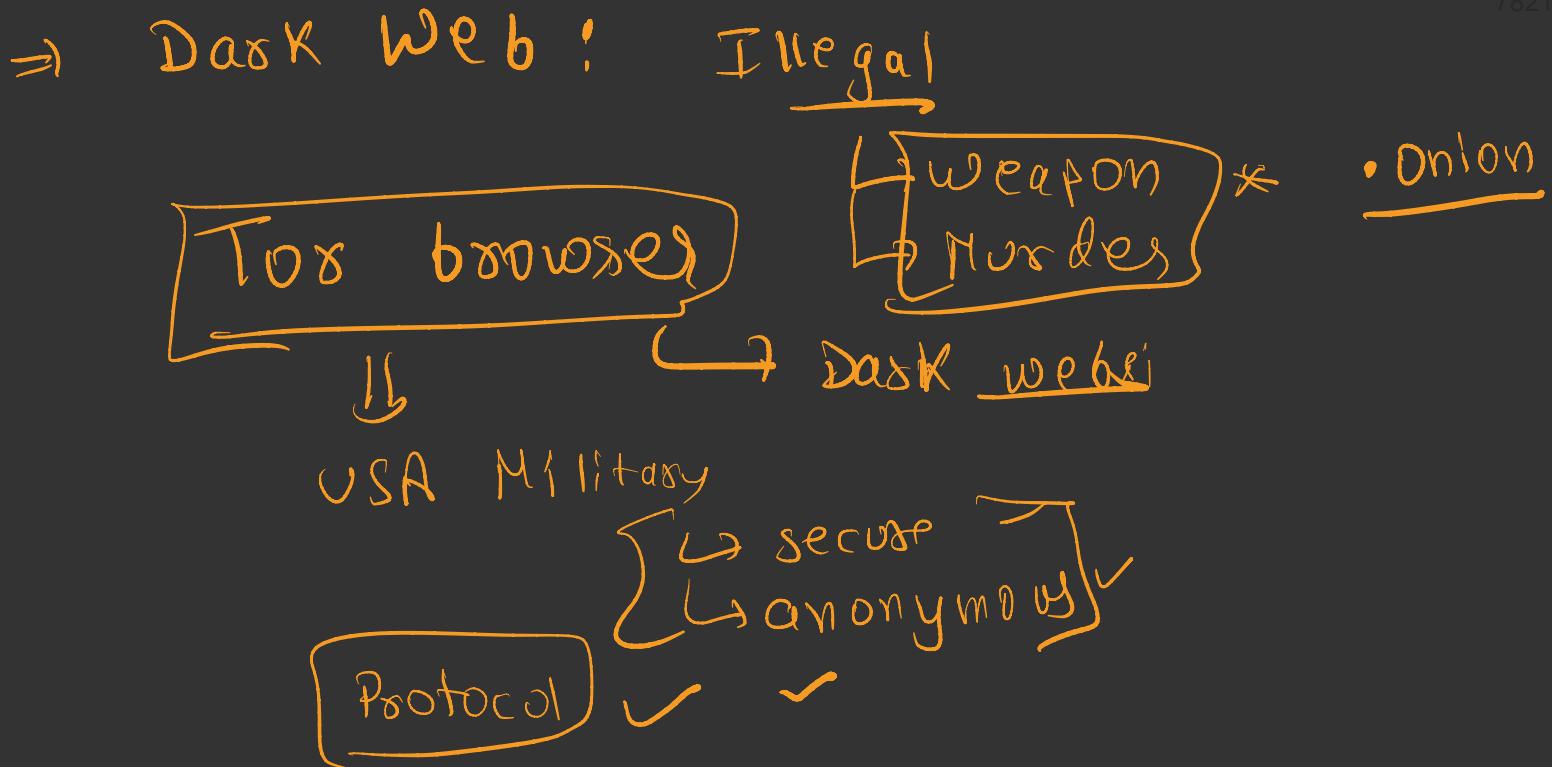
College : Website

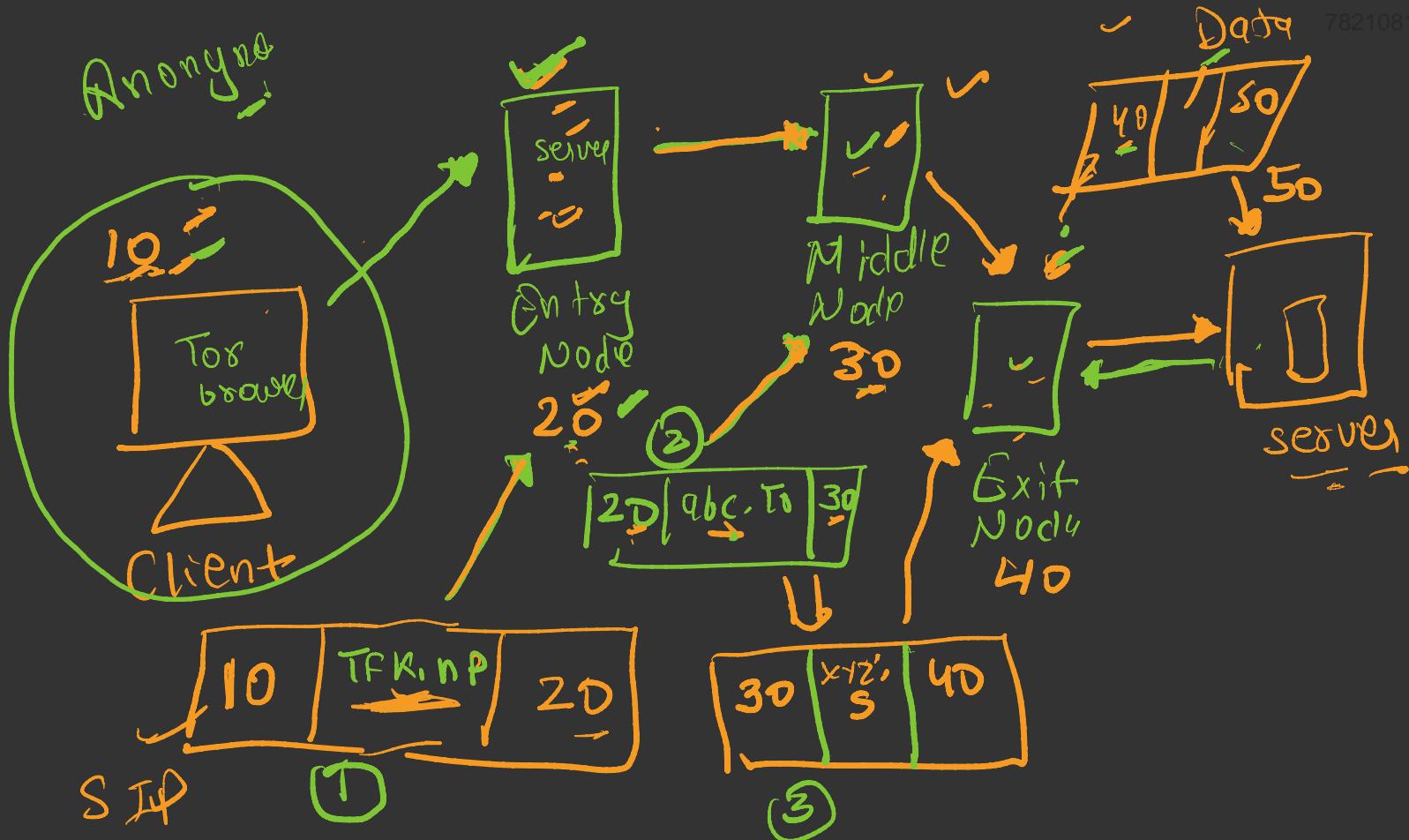
Internet speed slow

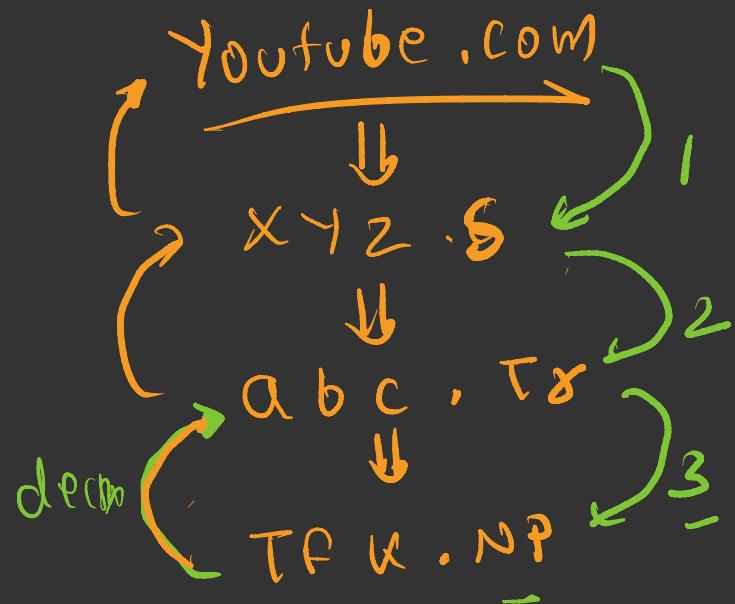
Internet speed

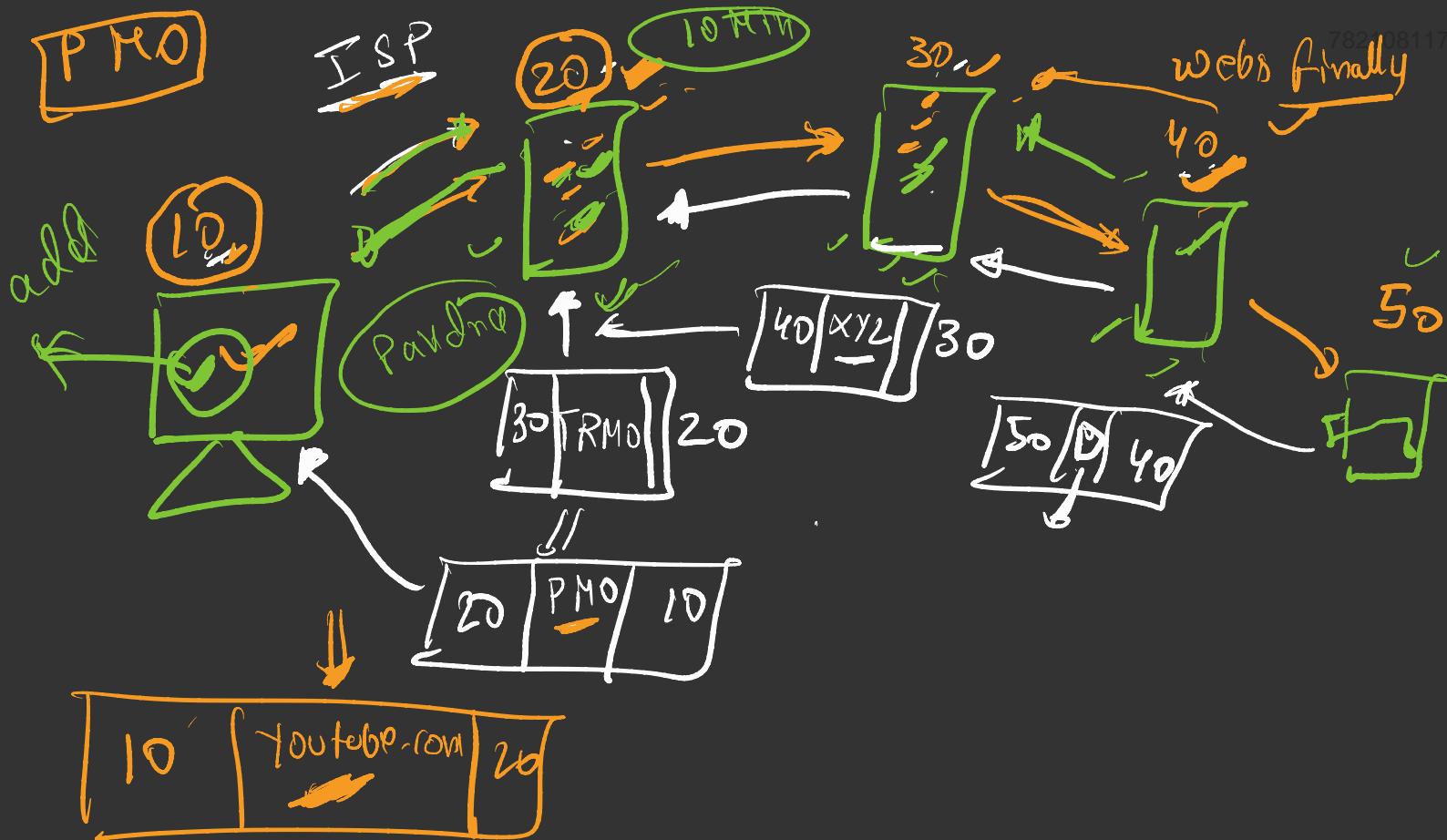


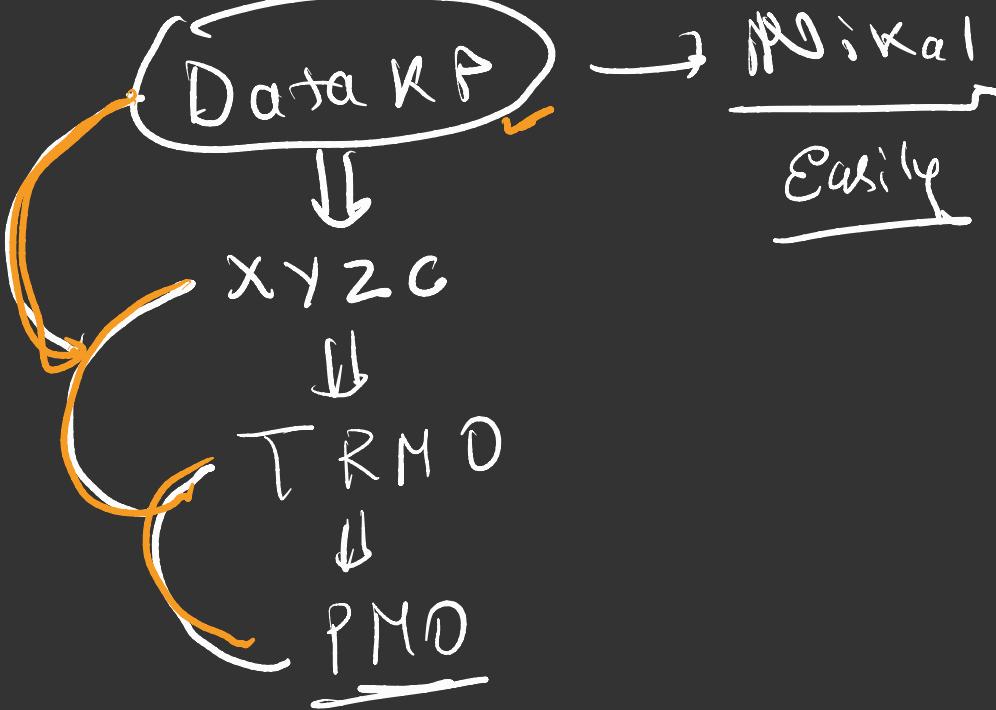




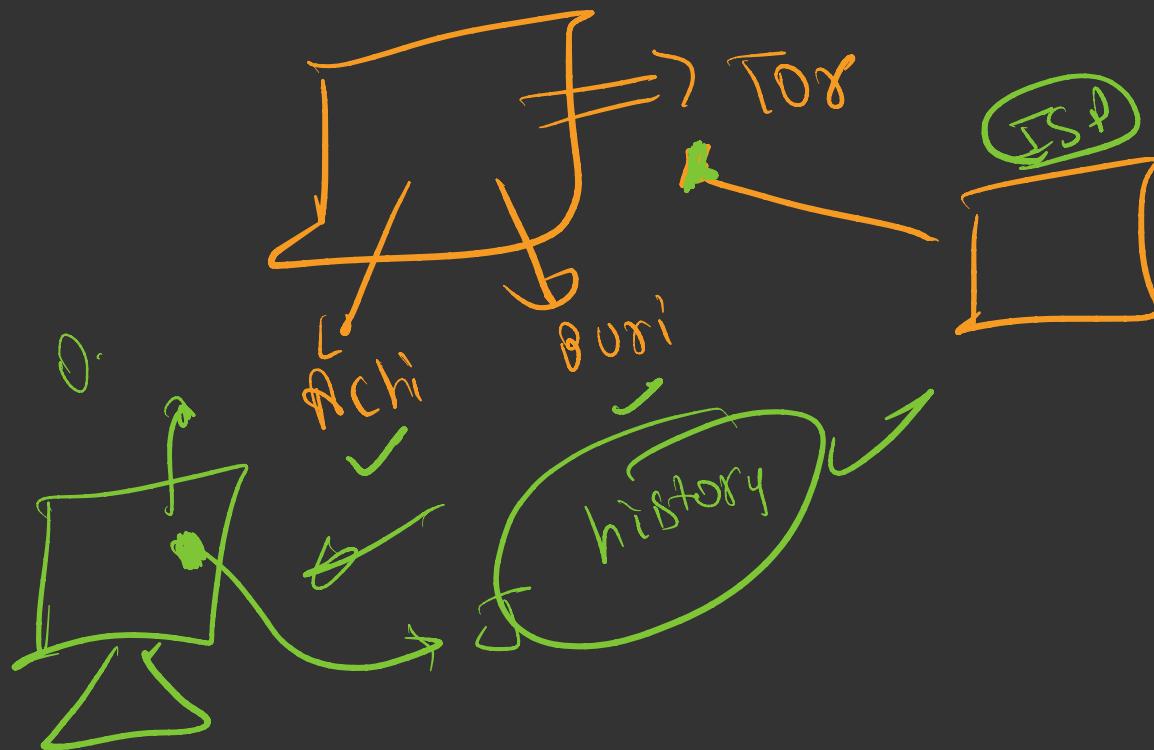


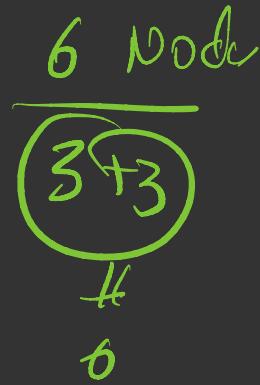






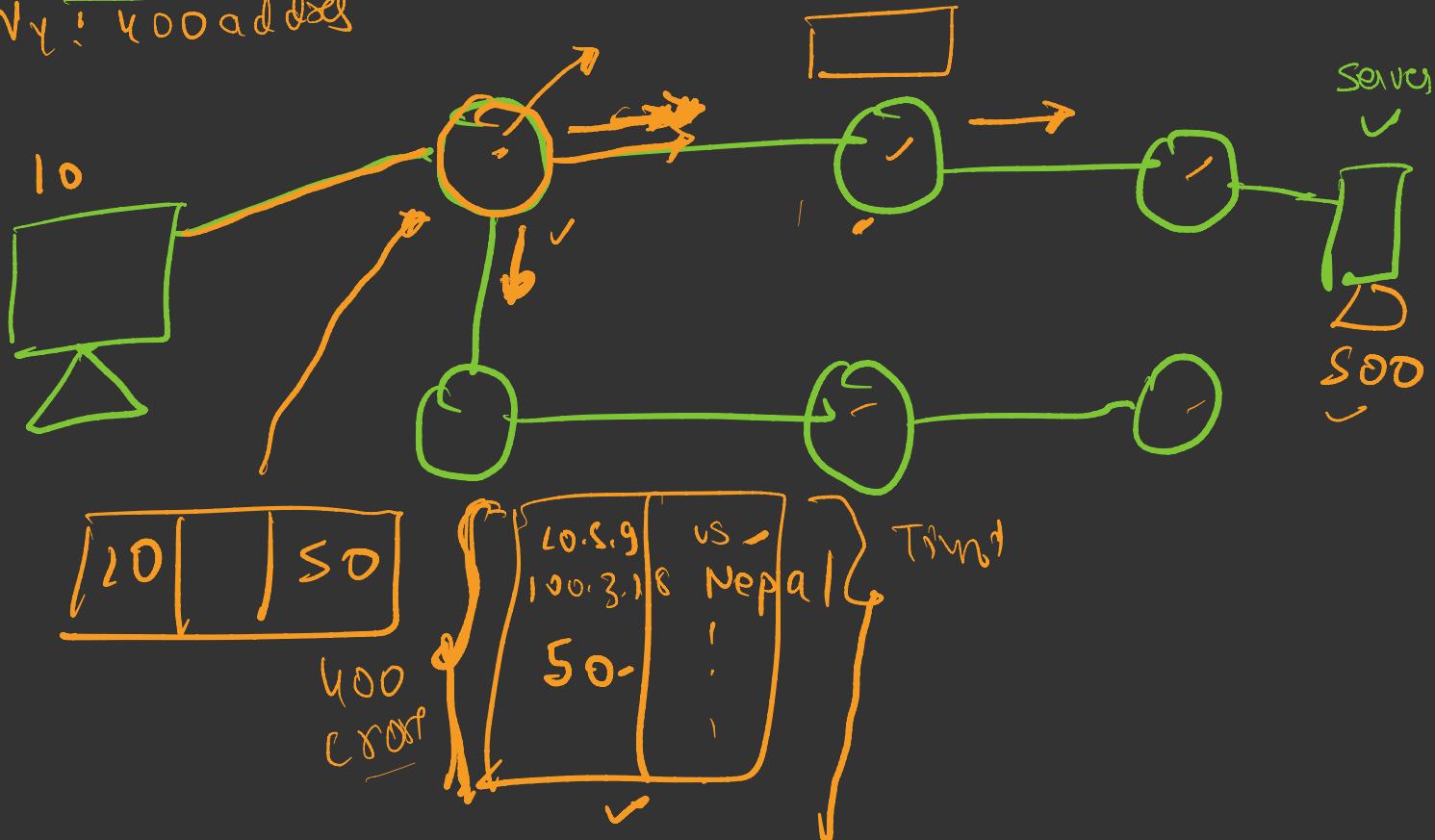
③ ⇒ level encryption

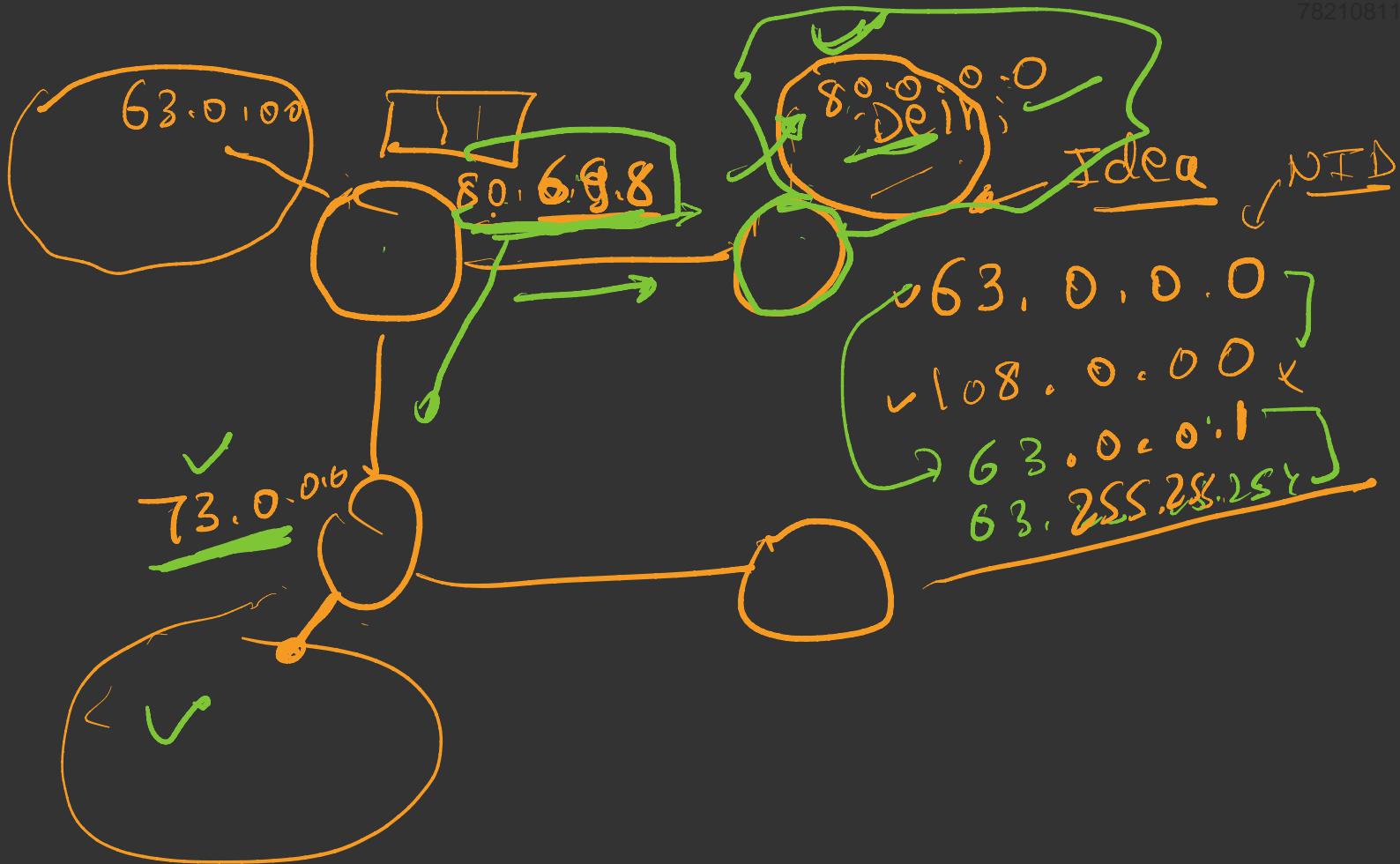


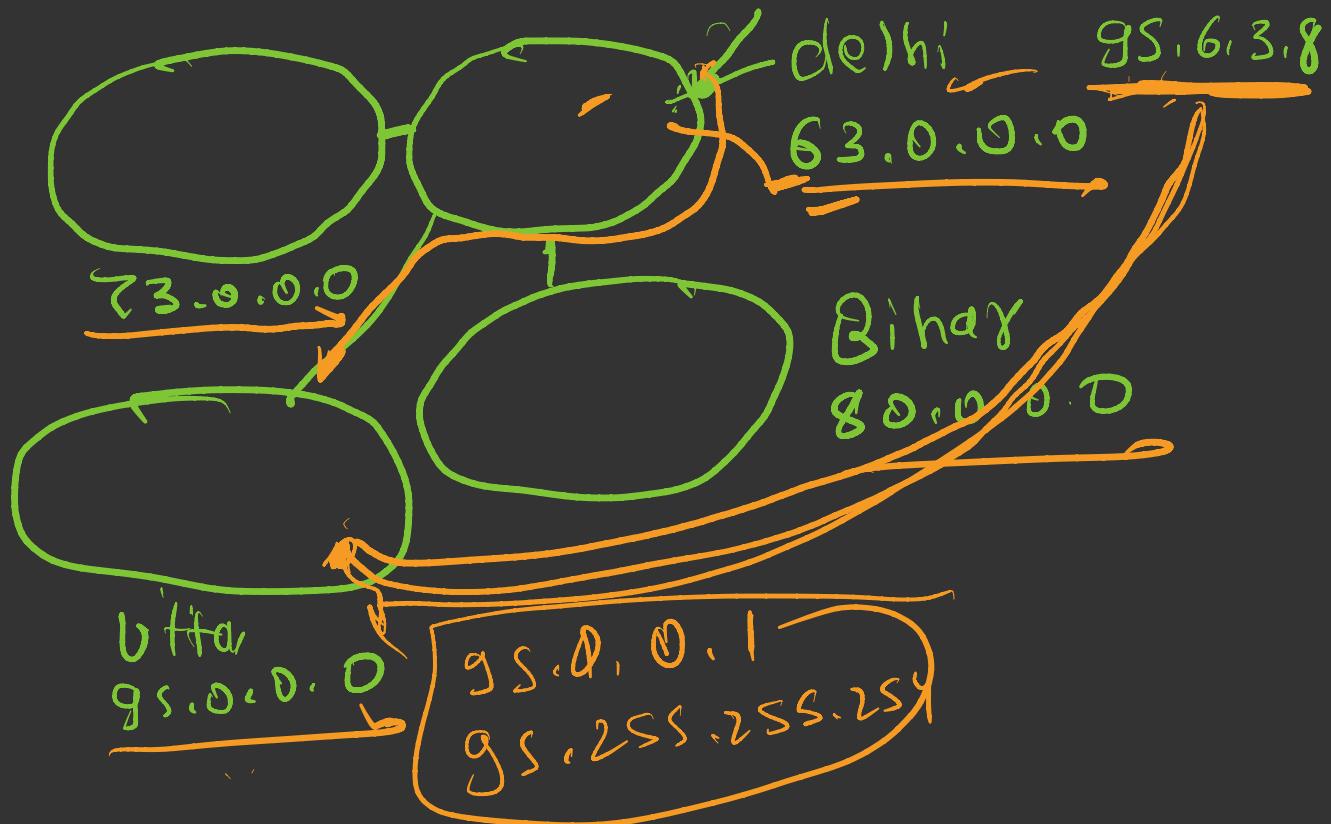


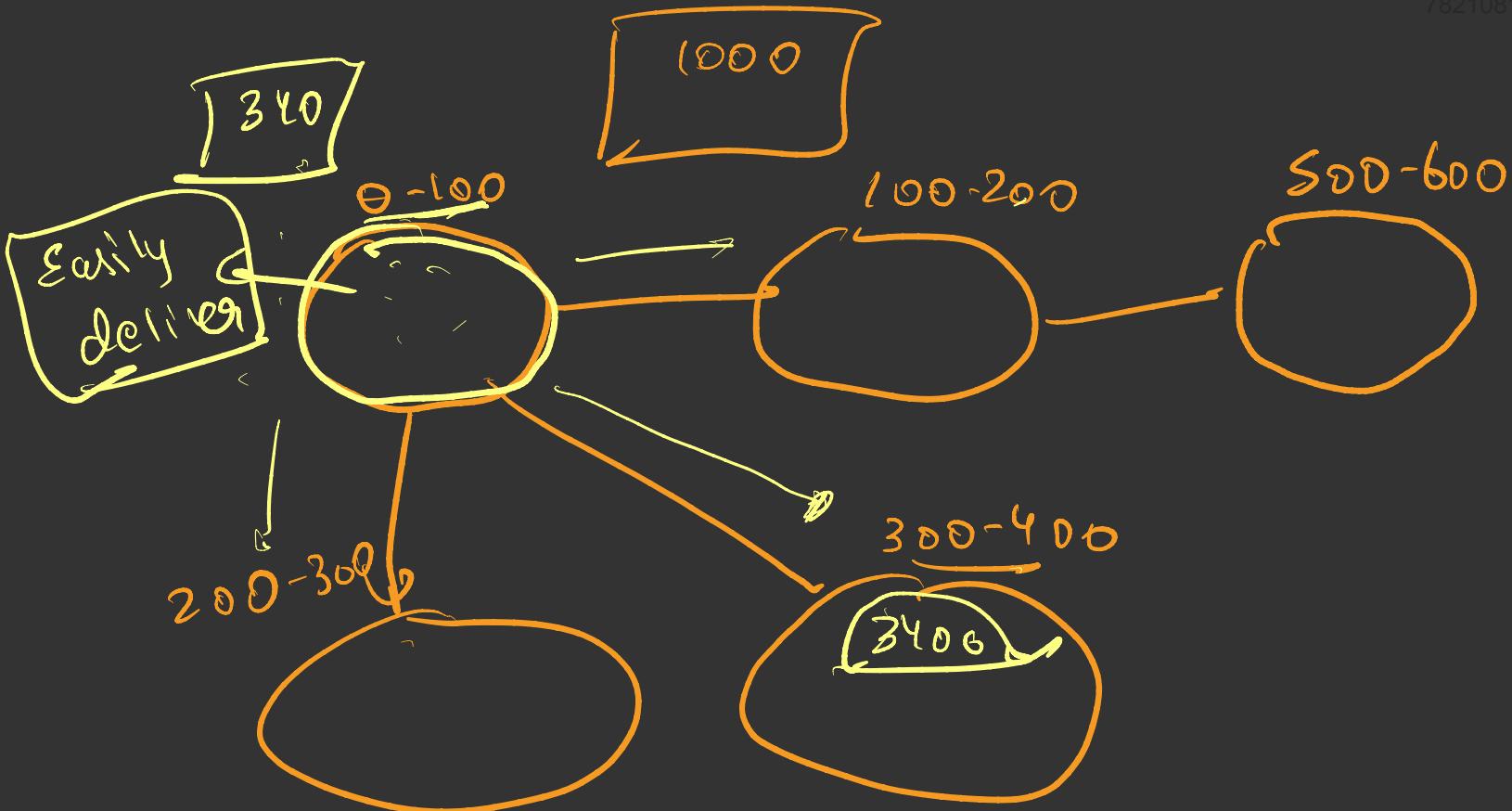
IP address: Random Nahi  
IPv4: 400 addresses

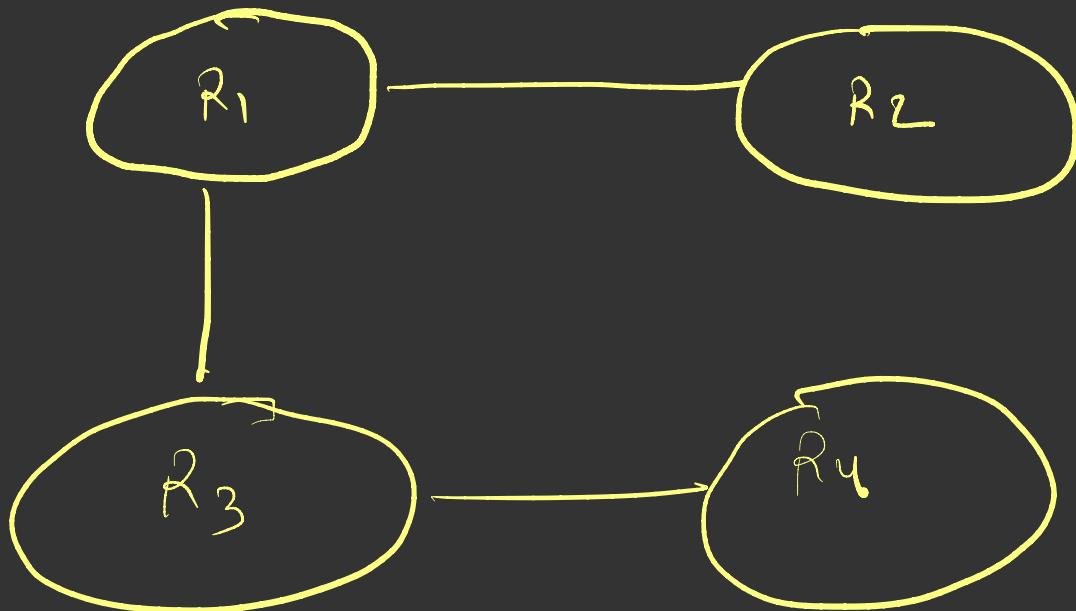
Internet slow ↴











# Subnet Masking

194.268.9.0

Delhi  
128

256bit  
[76bit]

194.268.9.0 /25

194.268.9.127 /25

194.268.9.8 /25

24 8 bit<sup>1</sup>

194.268.9.0

194.268.9.128 → No. of hosts ↑ Class C

256

194.268.9.128 /25  
194.268.9.255 /25

256bit  
[76bit]

0 0 0 0 1 0 0

194.268.9.130 / 25

194.268.9.130 / 1000000000

194.268.9.130 / 28

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Network ID

8.9.6.128 / 8 → N.

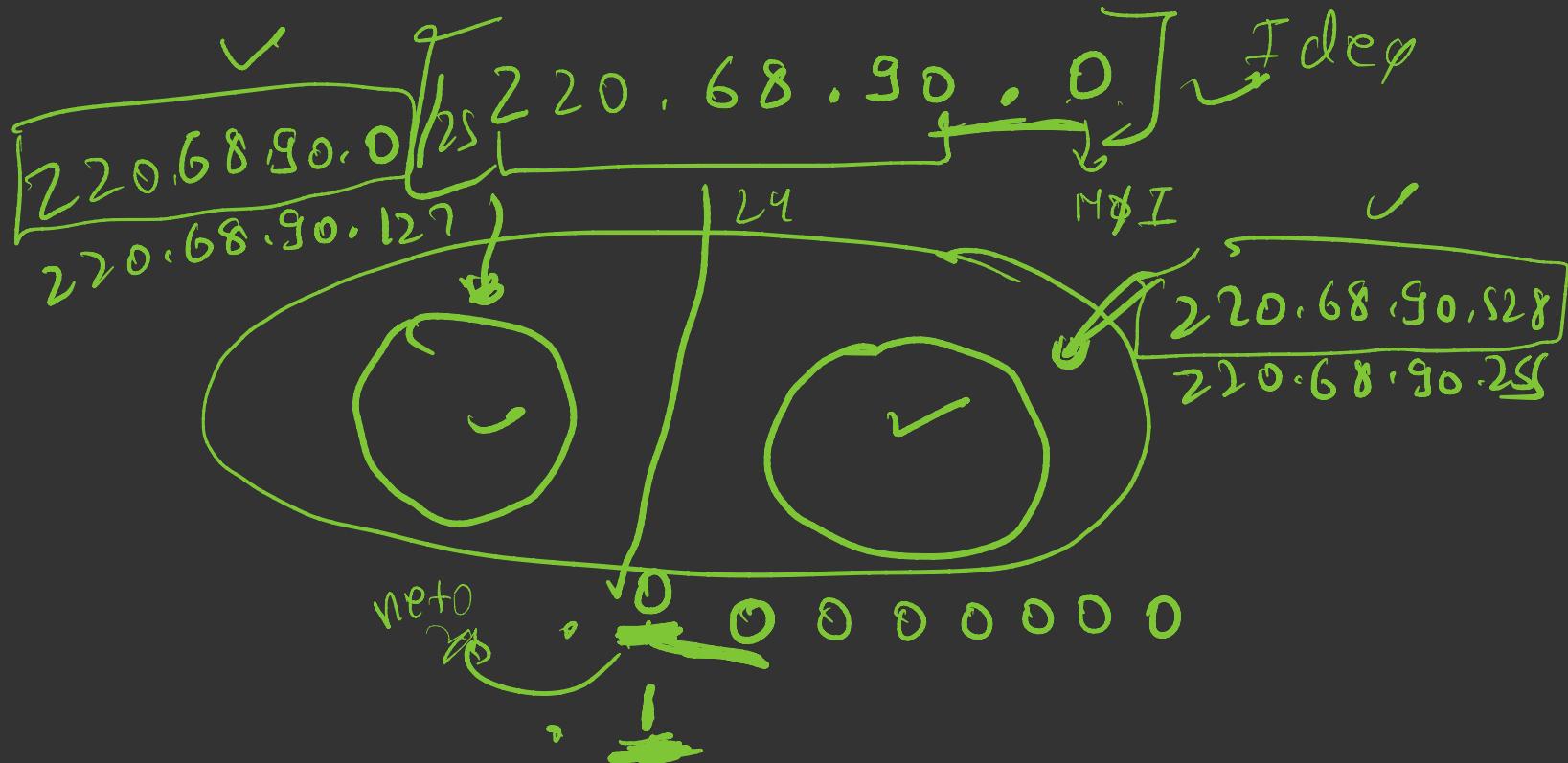
8.0.0.0

Router / Subnet Mask

130 . 6 . 8 . 5 / 16

The diagram illustrates the subnet masking process. An IP address 130.6.8.5 is shown above a horizontal line. To its right is a slash followed by the subnet mask 16. Below this line, another horizontal line contains the subnet掩码 11111111.00000000.00000000.00000000. This second line is enclosed in a rounded rectangular box. An arrow points from the right side of the box towards the rightmost octet of the IP address, indicating that the subnet mask is being applied to determine the subnet portion of the address.

130 . 6 . 0 . 0



$$\begin{array}{r} 200.6.8.0 \\ \times 64 \\ \hline 112 \\ 480 \\ 1200 \\ \hline 1280 \end{array}$$

Diagram illustrating the multiplication process:

- The factors 200.6.8.0 and 64 are enclosed in boxes.
- Arrows point from the circled 64 to each of the four digits of the first factor.
- Arrows point from the circled 64 to the circled 64 in the second factor.
- Arrows point from the circled 64 in the second factor to the circled 128 in the product.

