

Devops

08

First class on Networking

09

How does internet work?

10

world wide web

11

Internet

~~Network of different~~

12

basically web of cables

16

↳ optical, fiber

17

↳ data is transfer

18

[companies buy them] Tier 1 company

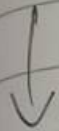
Submarine cable Map

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30							

Tiers 2 company

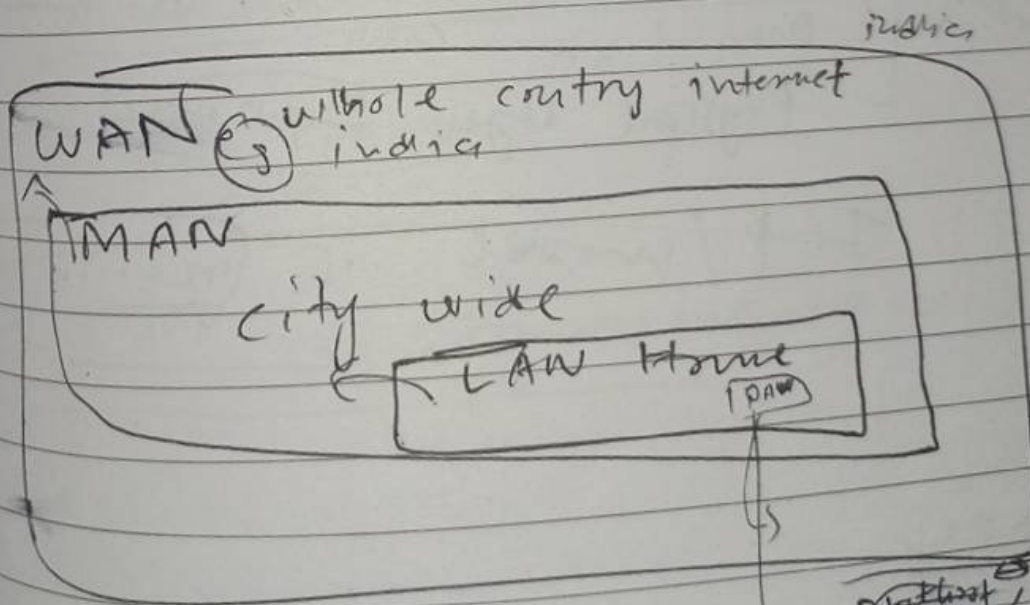
Bsno, jio, telcel

↳ give your cable on rent
to us from Tier 1



Tier 3

Your Broadband
PcL-wifi - nayaatel



Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8

08

Why for it's important for Devops

trouble shooting

09



10

ISP.

~~OSP~~ OSP

Theoretical

11

Alice ~~to~~ Bob
communication

open system interconnection

12

Software { Application
Presentation
Session

transport TCP/IP

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Hardware { Network → wifi - router
Data Link cable
Physical layer. → device

17

TCP / model is real in use

18

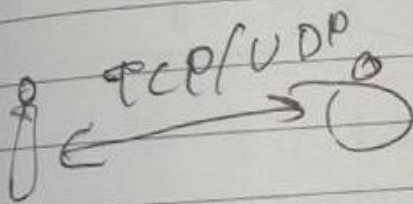
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7

Protocol in Application layer

Protocol

es
443 80
HTTP, / HTTP
SMTP
FTP

① Application



② Transport layer

TCP

uploaded YT video watch is TCP receiving

Example

UDP → streaming

DT6

Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
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				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

SEPTEMBER

12 Tuesday

2023

سبتمبر / أيلول
الثلاثاء ١٢

27 Safar 1445 H

08

09

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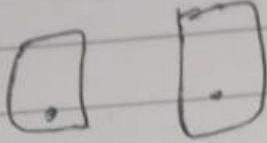
16

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③ Internet layer

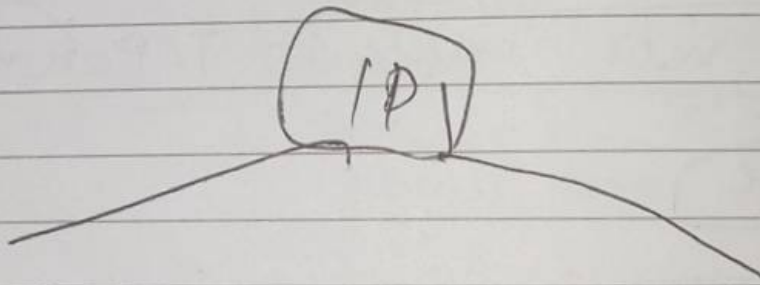
IP



④

Network layer

physical layer



IPv4

IPv6

Subnetting

our own Internet

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VPC

VPN

mac address starting the recording.
from there.

Router

Routing network to our
Device

switch

1200h comment

router -- bahar se internet lena ka
switch -- bahar se liye hae internet
ko spread karna.

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SEPTEMBER

24 Sunday

2023

أيلول / سبتمبر
٢٤ الأحد

9 Raby al-awal 1445 H

08

on-premise

VJ

public

cloud

09

Laptop
HMD
Printer

AWS

CCP

Azure

10

in infrastructure
for locally work

11

12

16

AWS pricing calculation

17

+ submarine cable is near
that why its might cost low

18

making blog on LinkedIn

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