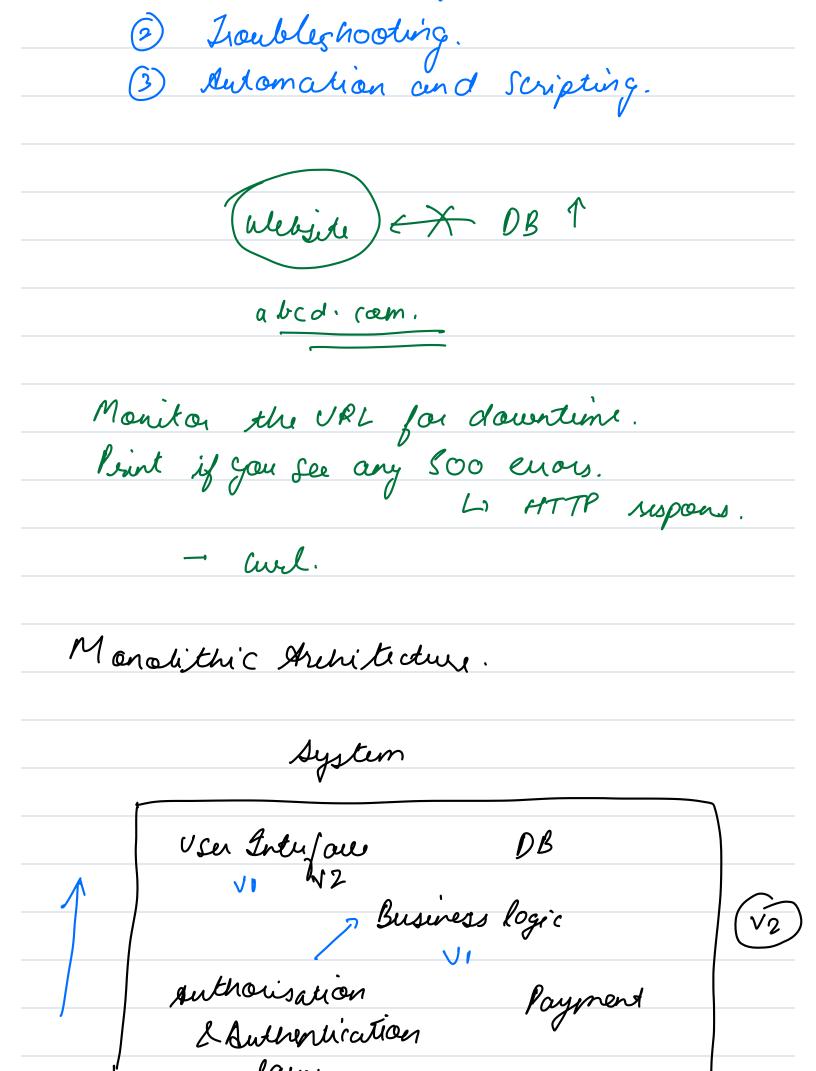
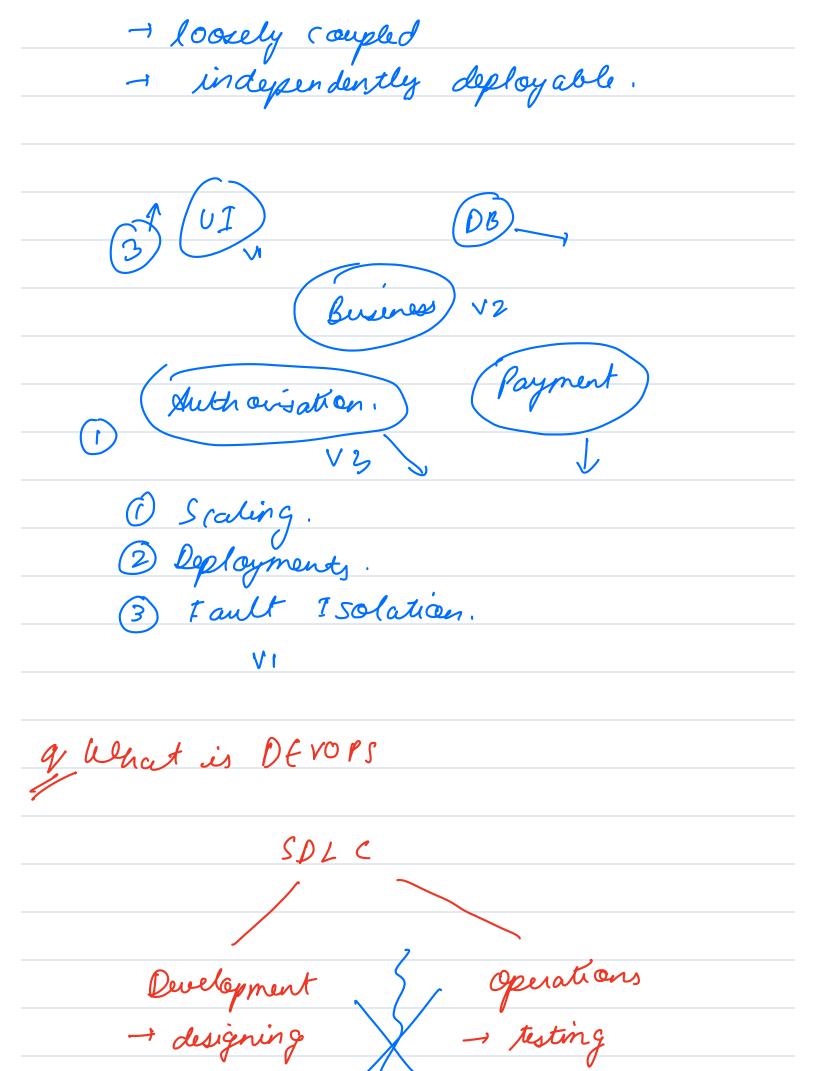
$\rightarrow$	Intro	dut ory	Llass	star	d at	9:06pm
AGENDA		U				
- Introduction						
- Why is python and	l DSA importar	nt for a devops Er	ngineer?			
- Monolithic and Mid	croservice arch	nitecture				
- What is devops						
- Phases of Devops						
- How does the inte	rnet work?					
- What are the top to	echnologies Av	vailable in the ma	rket?			
- How will be we stu	Idying DEVOP	S?				
- What are the job o	pportunities?					
Into E	duto	2n.				
<u> </u>	CKA	( Certif	ied Kul	bernetes !	Adnin)	
-	Aws	Soluti	ons &	reliter	(Prof	essional
					, Asso	uate)
<u> </u>	Zerre	af orm	Cortife			
<del></del>	0 C 1	af orm Foun	dation	•		
& Way	is p	yth on	and D	SA im po	it cent	fai
a D	EVOPS	en gu	en?			
	) Pro	oblem.	Solving	Skill.		

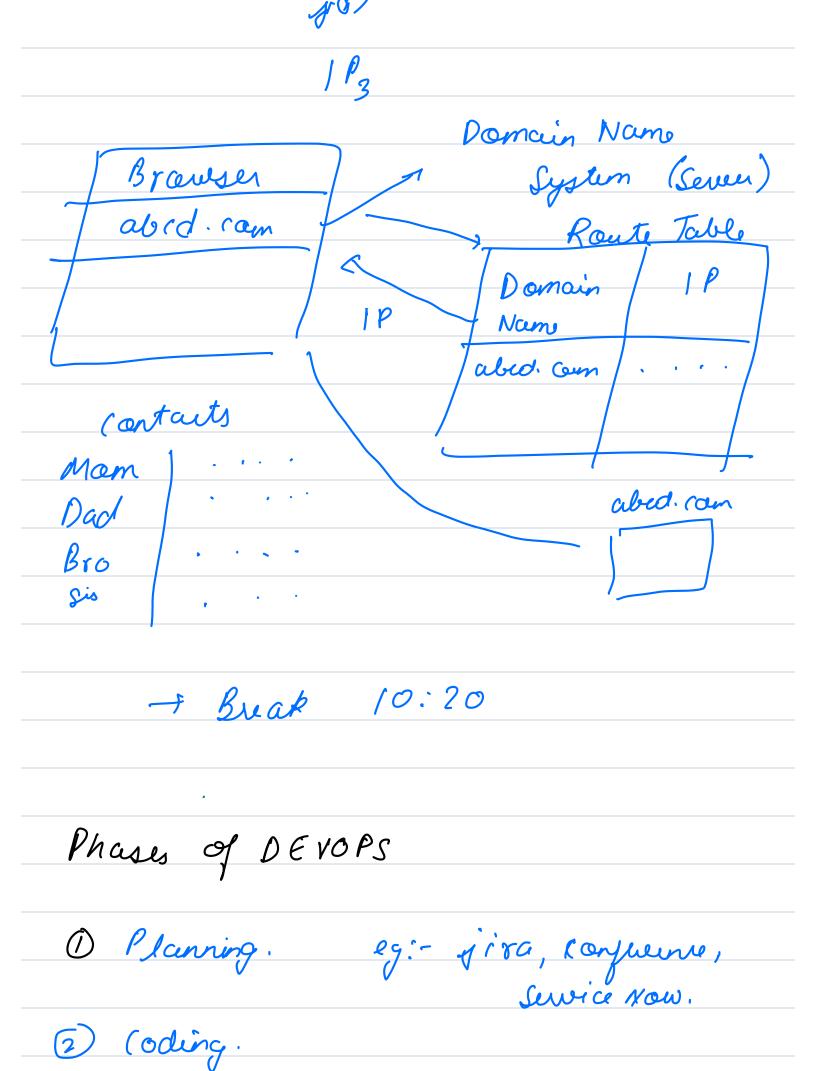


Jager. VI
Challenges
Orallenges (i) Scaling. Unical & horizontal
(i) Scaling. Untical & horizontal  Scaling.
500 GB.
500 GrB.
Lulical
1667B 8 vou Scaling
(ITB. (Stal up.)
7 6467B.
84B 8GB 8GB. Scaling out
Lord.  2 Outages  3 Re deployment.
lood.
2 Outages
3 Redeployment.
- Microservice.

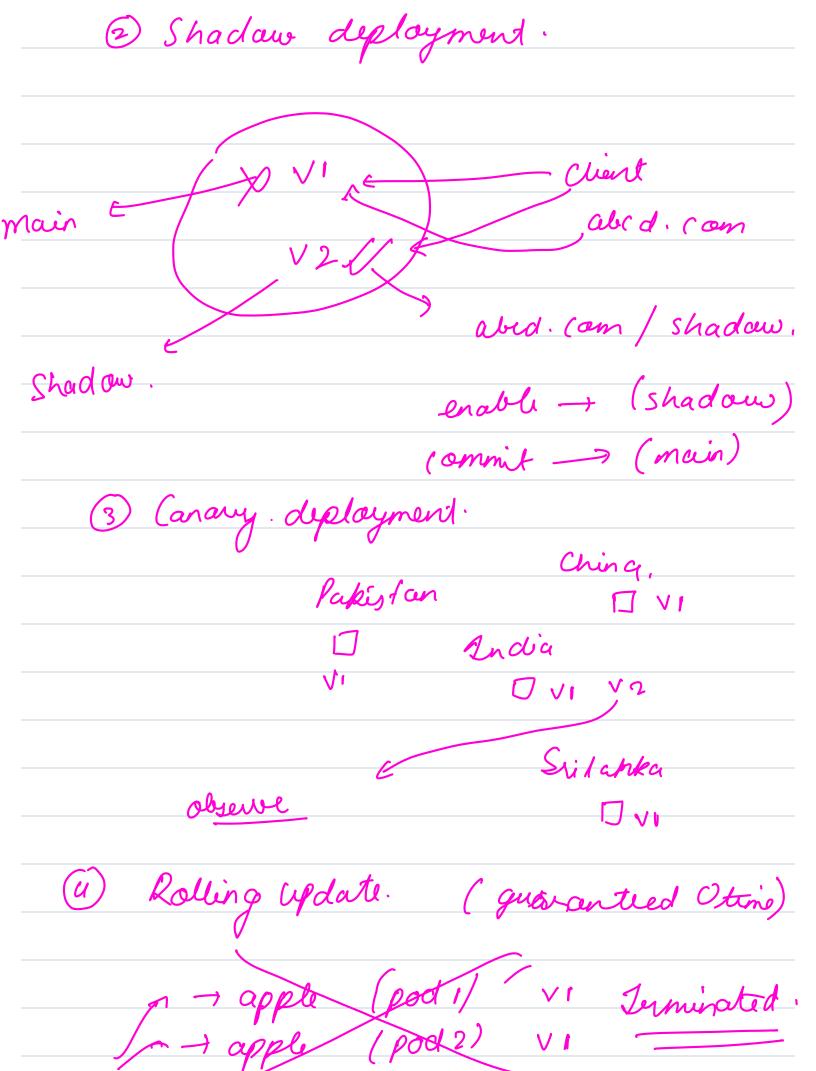


→ (och ) implementation.
→ Cocle implementation.  → Build.  > weeks.
2 weeks (Jugs, rew innovation)
FEEDBACK (new innovation)
SD is taking time
Devops is a practice when the development and the operations team work together to improve the software delivery time.
and the operations team work together
10 improve the software delivery time.
9 Maw does the internet work.
application is live.
abid con.
Brauser bookstore
ab cd. com website
[ google. an
IP
ICANN -> Internel corporation of

Assigned Names and Numbers.
<b>V</b>
1Pv4 —
$1P_{V6}$
28 28 * 8
28 28 2 8 A.B. C.B -> 2 32 ~ 4 Bellion
0-255 0-255
256 -> 28 problem of exhaustion
256 - 7° problem of exhaustion of 11 address.
<b>y</b>
private IP
public IP / internet Saving.
Class A - 10.0.0.0 - 10.255.285.755
Class B - 172./6.0.0 - 172.31.255.25
Class ( > 192.168.0.0 - 192.168.255.755
3 NAT -
network addless
18P 18P translator.
aistel,
- Carrier,



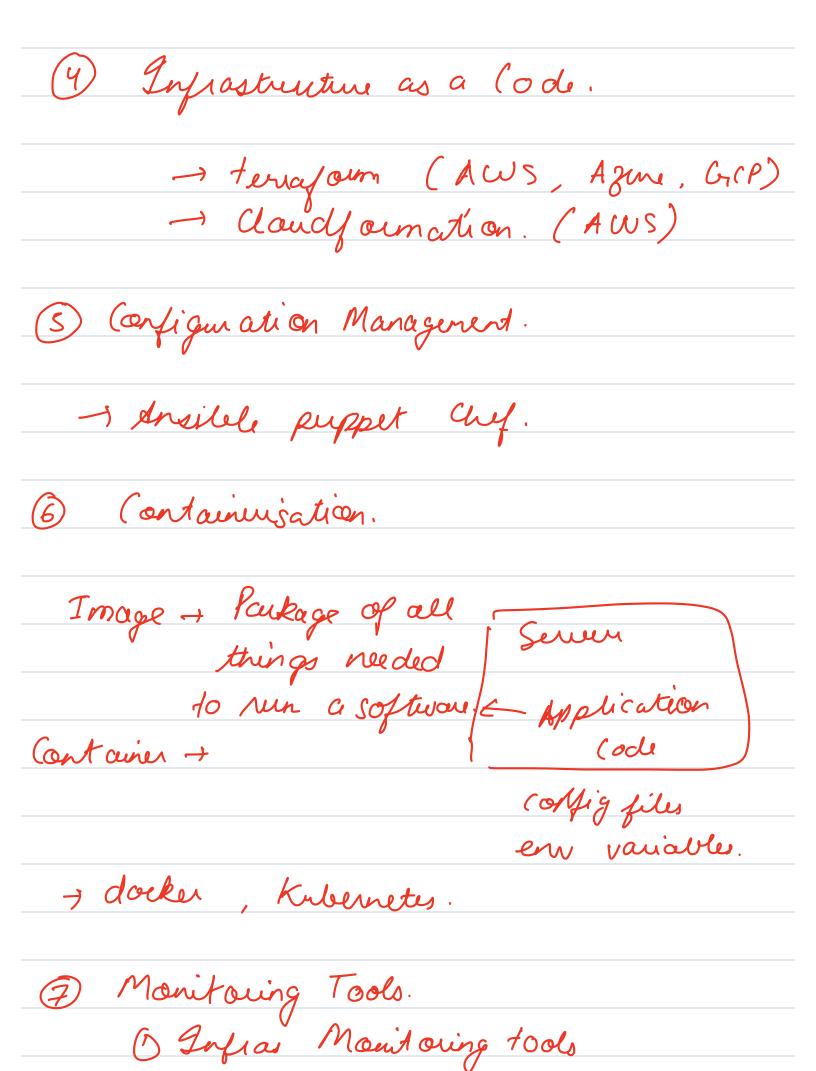
eg:- github. VI, V2 L) J bilburket peyou? 3) Build. (code needs to l'ecome executable). Maven, gradle. selenium, postman. 9 Testing. 3 Deployment. différent deployment strategies 1) Blue - green deployment. Sewer 1



Client 1
2-1 apple (pod3) v2 //
Japple (pod4) V2 /
Health cheeks.
Client _ + (Sever 1)
Server 2
Seven 3 They pass V2 Seven 4 Shealth check.
Seven 4 J health check.
) turninated.
7 70017100 5000
6 operate phase.
e polar price.
-> mouitourg
- maintenance
-1 Scaling

Jennily.
- Semily. - Alerting.
Top technologies in the market.
Top technologies in the market.  (1) Which aland)  AWS.
A WS.
EC2 intances. Ludo Scaling group.
Azme
Viitual marhine VMSS (Scale Set)
GICP
instances instance group.
instances instance group.
instance template.
2) Scripting.
-) python shel
+ ic.
-> Groom (Tonkins sinclines)
-> 9100y (Jenkins pipelines)

CICD. Publisher (45 Production. - gitops - Ango (D



Pronetheus, zabbix, nagios.
2 Claud Monitoring tools.
cloudwatch, Azur manitor.
3 Container monitoring tools.
Prometheus, grafana.
4) Logging
Kilana, ELK.
How will we be learning DE VOPS?
Module 1 - Python Jone Module 2 - DSA  Module 2 - DSA
Module 2 -> DSA
Module 3 -> Linux and Computer System
(2.5 months) -> OS (linux)
→ Shell scripting
- Computer networks.
-) Databases.
Module 4 -> Devops Tools.
(2.5 months) - Docker
- Kubernetis
- Jenkins

- Ansible
- Cay
- puppet
- githerb, ArgoCD, gitops, git - Prometheus, grafana.
Module S -> AWS
Module 6 + System design
Module 7 - Advance DSA.
Devops Engineer
Derops Enginer  Automation
- infrastructur pravisiong.
-> Containers ation.
SRE ->
1 Lutomation
- Reliability & aptime. - Invident planning.
Claud Engineer.

- architecture
→ automation.
automation.