

Docker ---

- 1) Diff between args and env in Docker?
- 2) Diff between run and cmd in Docker?
- 3) What's the use of multistage Docker file and write one multistage Docker file?
- 4) Best practices during Docker compose file
- 5) can you write a simple Docker file?
- 6) What is the difference between CMD and ENTRYPOINT in Docker?
- 7) What is virtualization?
- 8) why container is called light weight?
- 9) tag immutability in docker?
- 10) ADD and COPY command in Docker?
- 11) Write a Docker file for java application deployment for which source repo is on GitHub.
- 12) Write a Docker file for any database setup.
- 13) Suppose I am a running monolithic application on an AWS EC2 machine. I want to containerize it. What will be all the steps to do achieve the same?
- 14) backoff limit. It is the number of times that a failed Pod will be recreated before the job is

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considered failed. The default value is 6. What is crashbackloop of error>

15) host.docker.internal used by docker container to connect to service running on localhost(host machine on which docker is running)

16) What is Docker networking and its types?

17) Write a Docker file to start nginx server on Ubuntu machine.

18) Write docker run command and mount the existing volume /var/log with the read permission.

19) Does the docker container have the same ip as host in host network?

//////////////////// TCS //////////////////////

20) What's the default network in Docker?

21) Can we delete the image while container is running out of that image?

22) What's difference between k8 and Docker in terms of their usage and if any?

23) What is the difference between vm virtualization and Docker virtualization?(container uses guest os while vm uses complete os)

24) How to create a user and group to run dockerfile rather than running it from root user?

```
RUN groupadd -r xsmf-group && useradd -r -g xsmf-group xsmf-user
USER xsmf-user
```





24 ARCHITECTURE OF KUBERNETES – MASTER(api-server,controller,etcd, scheduler) and SLAVE(kubelet kubeproxy)

25 what is ingress?

26 configmap and secrets

27 types of service: ClusterIP, node port, external name, load balancer

28 If we are using service of type lb, no need of ingress. If using service of type clusterip, then need ingress and lb on top of it.

29 taints and tolerations, Node affinity, anti affinity.

30 EKS deployment steps

31 How to distribute 10 pods equally over 10 nodes? - anti affinity

32 How to do k8 nodes maintenance and upgrades? K8 drain Effects of kubectl cordon:

No new pods will be scheduled on the node



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- 36) Can two pods share same pvc and what will happen if both try to write at one time?
- 37) How to schedule a pod onto a particular node?
- 38) What is the use of service account?
- 39) What is ClusterRole?
- 40) What's difference between k8 and Docker in terms of their usage and if any?
- 41) How Docker Swarm and kubernetes is different ?

AWS----

- 1) NACL vs security group
- 2) ec2 s3 access- by IAM role
- 3) trust relationship and policy
- 4) cross account s3 access



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5) vpc endpoint and api gateway

6) how will ec2 connect s3 without internet (using vpc endpoint)

7) how to handle secret

8) What are the types of storage accounts in AWS S3?

9) Are you familiar with lifecycle management in S3 buckets? How do you set up lifecycle policies?

10) What are the differences between load balancers and why do we need them uses acc to need?

11) Have you worked with Auto scaling group? Tell me parameters which can be considered while configuring asg.

12) Which AWS services do you consider when setting up a CI/CD pipeline for a microservices application?

13) On a day with unusually high traffic for an e commerce application, how would you, as a cloud engineer, manage the current setup to handle the load smoothly?

14) When auto scaling instances, how do you manage the backend RDS database?

15) Have you ever set up cross-account access for S3? For example, if the QA team needs access to the production database?

16) How can an S3 account in Account A access and S3 account in Account B?

17) Can you differentiate between IAM policies and IAM roles?

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48) what is your day to day task as aws administrator?

49) Have you done any solutioning work?

50) Have you used AWS data migration service?

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51) have you set up the VPN in aws?

52) How to set up VPC peering and VPC tunneling?

53) What do you understand by endpoint?

54) What are the assessment tool you have used during AWS migration?

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55) What is the use of CloudWatch alarms and CloudWatch events? Tell me the differences as well.

56) What issues can arise if my two of vpc have overlapping cidr blocks and how to resolve this?

57) What's the difference between EC2 and S3?

58) Can I attach same ec2 instance into multiple target groups?

59) What are different types of ec2? (memory optimized, compute optimized, general purpose)

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- 58) Can I attach same ec2 instance into multiple target groups?
- 59) What are different types of ec2? (memory optimized, compute optimized, general purpose instances) and different classes like : t, m , r etc
- 60) What are all different storage class available in S3?
- 61) What are all possible causes for target group unhealthy? (S3 Intelligent-Tiering , S3 standard, S3 Standard-Infrequent Access)



Linux---

- 1) Command for cpu memory. - top,
- 2) Write script to add 2 no. in bash script and print with another function
- 3) Write a bash script to reverse the string
- 4) command to print all process in linux
- 5) Dollar sign in linux
- 6) command to check memory, cpu, process, load etc.
- 7) list volumes mounted on your system= df -T, mpstat -P ALL
free -h
ps aux --sort=-%mem
- 8) system hostname = hostname
- 9) command to tell which os version - `uname -a` version of os and arch of os like linux ubuntu x86
- 10) "ip addr" or ifconfig command to see ip addr of ur machine
- 11) systemctl start service_name. -- to start and stop services like systemctl start Jenkins
- 12) Write a shell script to Count the Number of Lines in all the Files Inside a Directory. For example, if there are 10 files in a directory and each file contains 100 lines then the count will be 1000.
- 13) Write a shell script for the table of 4.



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14) write a bash script to rotate the logs of file if either it has been 7 days older or size of log file has reached above threshold

15) Write a small Shell Script that will iterate through all namespaces in Kubernetes Cluster and list down all deployments in all namespaces.

16) Write a shell script that checks the status of all pods in a given Kubernetes namespace and alerts if any pod is not in the Running state

17) chmod and chown

Note: nproc for cpu usage, free for memory details and top command to show everything like memory, cpu, processes. Df command for disk usage



- 1) Write Jenkins file
- 2) What is multi branch pipeline
- 3) Write Jenkins file to print hello world
- 4) What is CI/CD?
- 5) Jenkins Shared Library
- 6) webhook setup
- 7) slack integration
- 8) multi branch pipeline-multiple people working together on a project. cant push to main. create their own branch from main test changes using jenkins and merge it back. It discovers any new branch automatically and creates a build for it in jenkins UI on scanning this multi pipeline branch. SCan every two minutes for any change.
- 9) PARAMETRIZED PIPELINE
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- 10) Declarative or scripted pipeline
- 11) I have to write Jenkins file stages in a way that even if one stage fails pipeline doesn't stop and it proceed with next steps till the end. (Catch Error block)
- 12) How will you set up notification things in pipeline so that if it fails it will notify to a user.
- 13) What is diff between continuous delivery and continuous deployment?



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//////////////////////////////// TCS //////////////////////////////////

14) What is blue ocean in Jenkins?

15) What is multi build in Jenkins?

16) Can we add external ec2 mac

17) how can we migrate running launched?

Simplify

Define

Ask AI Assistant

ne which is recently

GIT -----

1) What is branching strategy in git?

2) push and pull events, trigger?

3) Git fork, clone, stash, pull, fetch, merge

4) How to setup web server like tomcat apache jboss node js

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