

Round 1 - Technical Round 1

Duration - 30minutes

Designation - DevOps Engineer

Experience - 2+Years

1. Introduce Yourself

2. So, on **AWS** what all resources have you worked on?

3. Have you worked with **ECS**?

4. On EC2, have you worked with **auto-scaling** groups? Based on what **metrics** did you scale?

5. Suppose if you have to add storage to **EC2**. How would you do that? Can we do it without shutting down the server?

6. Suppose you have to **deploy** an **application** on **AWS**. Can you explain how you would create an **infrastructure** for this?

7. Can you explain if you need to deploy a **backend** application with **frontend** and **databases**? What all resources will you use on **AWS**, and how will you create it?

8. In Linux, do you know what **hard links** and **soft links** are?

9. How will you create a **user** in Linux? Now make that user a **Sudo** user. How will you do that?

10. In Docker, have you written a **Dockerfile** or **Docker Compose**? What is the difference between **RUN**, **CMD**, and **ENTRYPOINT**?

11. Can you tell the command you used to **build** the **images** and **run** the **container**?

12. Suppose we have to run that **container** in the **background**. How can we do that?

13. Suppose if you have to **expose** any kind of **port**. How can we do that?

14. Suppose you have 2 **Docker containers** running and you need to connect from one Docker container to another. How will you do that? And how to connect them if they are in different networks?

15. Can you pass your **ENTRYPOINT** and **CMD** as part of **Docker run**?

16. Suppose you have an application running on a **Docker container** and your application has some data that you need to keep even if the **container dies or restarts**. How will you do that?

17. Can we use the same **volume** for different **containers**?

18. How do you check the **resource utilization** of a Docker container?

19. How will you find out which process is consuming more **CPU** or **memory** in Linux?

20. Suppose you have an **EC2 server** in which Linux is running and you get an alert that your server's **disk space** utilization has gone above **90%**. How will you troubleshoot it?

21. How will you find out the **top 10 files** that are occupying the **most space**?

22. What have you exactly worked with **ECS**?

23. Have you worked with **RDS**?

24. How will you copy data from one **RDS** to another RDS?

25. Have you worked on **Kubernetes**?

26. On Docker level, have you worked on fixing **container vulnerabilities** or something like that?

27. On AWS, suppose you have deployed an application on **EC2**. It has to access files from an **S3 bucket**, but it is not able to access it. How will you troubleshoot it?

28. On AWS, have you worked with **ElastiCache** or **Kafka**?

29. Suppose your **EC2** server has become **slow**. How will you **troubleshoot** it?

30. In Linux, how do you **change** the **permissions** of files?

31. How do you change the **ownership** of **files** in Linux?

32. Suppose you have 2 **Docker containers**. One is an **application** container and the other is a **database** container. Both are in the same **network**, but the **application** container is **not** able to **connect** to the **database** container. How will you **troubleshoot** it?

33. Suppose you get an error, "**connection timed out**." What will you check?

34. In **AWS**, have you worked with **multiple accounts**?

35. Do you know **scripting**?

36. Do you know how to run **cron jobs** on a Linux server?