INTERVIEW QUESTIONS FOR DEVOPS ENGINEER

Round 1 - *Screening*
Duration - 1 *hour* 30*minutes*
Designation - *DevOps* & *Cloud Infrastructure Engineer*
Experience - 2+*Years*

1. How would you ensure **secure** access control and authorization in **cloud environment**

2. What are general **tasks** you perform on **AWS** platform

3. Let's suppose I need to configure **NAT gateway**, in a private subnet I'm unable to install any package, how you will **configure NAT**?

4. Can you describe the role of encryption in **cloud security** and where different **encryption** option available **cloud**

5. Difference between **public subnet** and **private subnet**

6. How **internet gateway** provides the **internet**

7. How the **traffic** routes from **internet gateway** and then comes to **public subnet instance**

8. Difference between **NLB** and **ALB**

9. Can we use **NLB** as **ALB**

10. If I will open port number 80 and 443, If I openly these 2 ports **NLB** will behave like **application load balancer**?

11. Are you sure we cannot enable **security groups** in **NLB**

12. Suppose I need to **block** particular **subnet range** what you will do in **NLB**

13. Do you know about **lambda** functions?

14. How will you **secure** an **application**?

Suppose Flipkart.com, anyone can use it right? Anyone can use and buy anything, sometimes there are attackers they are trying to hit the website, they are malicious traffic so how will you safeguard from malicious traffic, what another layer of security that you enable to find it out that these are the malicious traffic and avoid it.

15. Write a **basic script** for.

>How will you tell any string or variable is and email address? User will pass anything in the variable and you will validate whether it is an email or not

Example@gmail.com @ is there and domain is also there gmail.com, you will conclude that this is correct email address

>Suppose there is a web server flipkart.com sometimes when you open the site it is giving 404 error, write a script to check whether flipkart.com is throwing 404 or not, if it is throwing 404 error then trigger an email to your email address that site is having some error and schedule this particular job to run every minute.

16. How do you **secure** a **production environment** in DevOps setup considering both **system** and **network security**.

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17. What types of **alerts** are you **monitoring**.

18. How will you handle a **security incident**.

19. Can you explain any of implementation done by you for smoothening out a **production support** in **troubleshooting**

20. Have you faced any **challenge** during **production outage**?

21. In VPC I created a **public** and **private subnet** and one instance in both the subnets. So, I am able to log in to **public subnet** instance. Now from that subnet I am trying to log in to **private subnet** instance. I have already enabled **security group** but I am getting some error while logging to the private subnet instance. How will you **fix** it?

22. What will you do if you lose or **forget** the **right key**

23. Write the commands how will you **attach**, **detach**, **mount**.

24. What will you do if the **site** is **working** very **slow**. What you will **check** at **infrastructure level**

25. Difference between **503** and **502** error

26. Difference between **401** and **403** error

27. How will you **deploy** codes to **different stages** in **CICD** pipelines

28. Do you know any **testing tool**?

29. What is unit testing, how we can do **unit testing**?

30. How you are doing **testing** part in **CICD** pipeline

31. Do have any idea about Jenkins file. Can you write a **Jenkins file**

32. What **is any** means in **'agents any'** in Jenkins pipeline

33. Suppose if I need to **run pipeline** in **docker container**, how can you specify it

34. How will you **enforce secure** software **dependency** and **prevent** introduction of any **vulnerability** or **malicious** third-party library in **inside** your **code**.

35. What all things you have **configured** in **trivy**?

36. Suppose you are using artifacts to upload images. So, there are different different images. Anyone can temper/modify it if someone got the access. How do you ensure the integrity of build process and prevent unauthorized modification or tempering with the software artifacts.

37. Let's say I am deploying some the **applications** to **Kubernetes cluster**, sometime it **fails** sometimes it **pass**, what are the general **issues** you are going to **check**

38. Suppose I am getting out of memory error and **crash loopback off** error I am getting. What can I do to **fix** this.

39. Any **major issues** that you have faced while **during** the **deployment**.

40. Can you write deployment script of **blue green**.

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