Amazon S3 Real-Time Scenario-Based Questions

1. Your dev team builds microservices daily. How would you use S3 to store build artifacts so testers can pick the right version for testing?

2. How do you implement versioning in S3 to roll back to an older build artifact if the new one fails testing?

3. Developers push artifacts multiple times a day. How do you avoid overwriting issues in S3?

4. How can you organize S3 buckets to handle 20+ microservices so that builds remain easily traceable?

5. How do you restrict QAs to download only artifacts from S3 but prevent them from uploading or deleting?

6. Your Jenkins pipeline uploads build artifacts to S3. How do you securely provide Jenkins IAM access?

7. How do you ensure that build artifacts are encrypted at rest and in transit in S3?

8. How do you enforce least privilege when giving developers access to only their service-specific S3 paths?

9. QAs report that the latest build is failing. How can they fetch the previous working build using S3?

10. If an artifact gets corrupted in S3, how can you recover it?

11. How do you ensure that a tester always downloads the correct artifact version without manual confusion?

12. What is your strategy if multiple QA teams test the same build but require separate test environments?

13. You notice increasing costs because of too many large artifacts stored in S3. How would you optimize?

14. Developers are complaining about slow artifact downloads from S3. How do you speed it up?

15. How do you use lifecycle policies in S3 to automatically clean up old artifacts beyond 30 days?

16. How can you monitor S3 bucket usage and alert if monthly costs exceed budget?

17. How would you configure a Jenkins pipeline to automatically upload build artifacts to S3?

18. How would you validate that an artifact has been successfully uploaded to S3 before notifying testers?

19. How would you integrate S3 with CloudFront so global QA teams can download builds faster?

20. How do you set up a notification (via SNS/Slack) whenever a new build artifact is uploaded to S3 for testing?