

CI/CD Basics

- 1.What is CI/CD and how does it relate to automation testing?
- 2.Explain the difference between Continuous Integration, Continuous Delivery, and Continuous Deployment.
- 3.Why is CI/CD important in test automation and agile development?
- 4.How** would you integrate automated tests in a CI/CD pipeline?



Tools & Implementation

- 5.Which CI/CD tools have you used (e.g., Jenkins, GitLab CI, CircleCI, GitHub Actions)?
- 6.How** do you trigger your automation suite from a Jenkins pipeline?
- 7.Have you written or configured Jenkinsfiles? What are the key stages in it for automation?
- 8.What is a Jenkins agent? How do you configure it to run Selenium tests?
- 9.How** do you manage test reports (e.g., ExtentReport, Allure) in the pipeline?
- 10.How** do you ensure test results are visible to the entire team via CI/CD?



Testing in CI/CD

- 11.Where do unit, integration, and UI tests fit in a CI/CD pipeline?
- 12.How** do you run smoke vs. regression tests in a CI/CD environment?
- 13.How** do you handle flaky tests in the CI pipeline?
- 14.How** do you set up test environment variables or credentials in the pipeline?
- 15.What happens if an automated test fails in your pipeline? How is it handled?



Advanced/Real-World Scenarios

- 16.Have you worked with Docker or containers to run automated tests in pipelines?
- 17.How** do you parallelize tests to reduce build time in CI/CD?
- 18.What is your approach for test data management in pipelines?
- 19.How** do you ensure your tests are cross-browser or cross-platform in the pipeline?

20. Have you integrated code quality tools like SonarQube in your pipeline?
How?



Version Control + Build Integration

21. How does Git/GitLab/GitHub integrate with your CI/CD pipeline?

22. What is the role of webhooks in CI/CD for test automation?

23. How do you handle feature branch testing vs. main branch builds?



DevOps Collaboration

24. How do you collaborate with DevOps Engineers in maintaining pipelines?

25. Have you set up test automation for microservices or APIs in CI/CD?