Training TR-102 Report
Day 17

9th July, 2024

The seventeenth day of the TR-102 training program concentrated on key concepts of DevOps, particularly the creation of CI/CD pipelines using Git, understanding various Git commands, and an introduction to Docker.

CI/CD Pipelines using Git

- *Concept of DevOps:*

  - The session started with an in-depth explanation of the DevOps culture and its importance in modern software development.
  - Discussed the benefits of CI/CD pipelines in DevOps, such as faster delivery and improved reliability.

- *Creating CI/CD Pipelines:*

  - Detailed the steps to create CI/CD pipelines using Git.
  - Illustrated practical examples and workflows to show the implementation of these pipelines.
  - Covered integration and deployment strategies, emphasizing continuous integration and continuous deployment.

Git Commands

- *Git Stash:*

  o Covered the purpose and usage of the 'git stash' command.

  o Demonstrated commands to save and apply stashes, such as 'git stash save', 'git stash apply', and 'git stash pop'.

  o Provided scenarios for using stash, like saving uncommitted changes temporarily.

Docker

- *Introduction and Basic Definition:*

  o Introduced Docker and the concept of containerization.

  o Explained how Docker allows running applications in containers on a Linux platform, even if the host system does not have Linux installed.

- *Running Applications:*

  o Discussed the advantages of using Docker for running applications in a consistent environment.

  o Provided examples and use cases to illustrate how Docker can simplify application deployment and management.

Conclusion

Day 17 of the training was comprehensive, covering essential tools and practices in the DevOps lifecycle. The focus on CI/CD pipelines, advanced Git commands, and Docker provided participants with practical skills and knowledge crucial for modern software development and deployment processes.