



Shell Bootcamp 2024

3 Reflections for Week 2

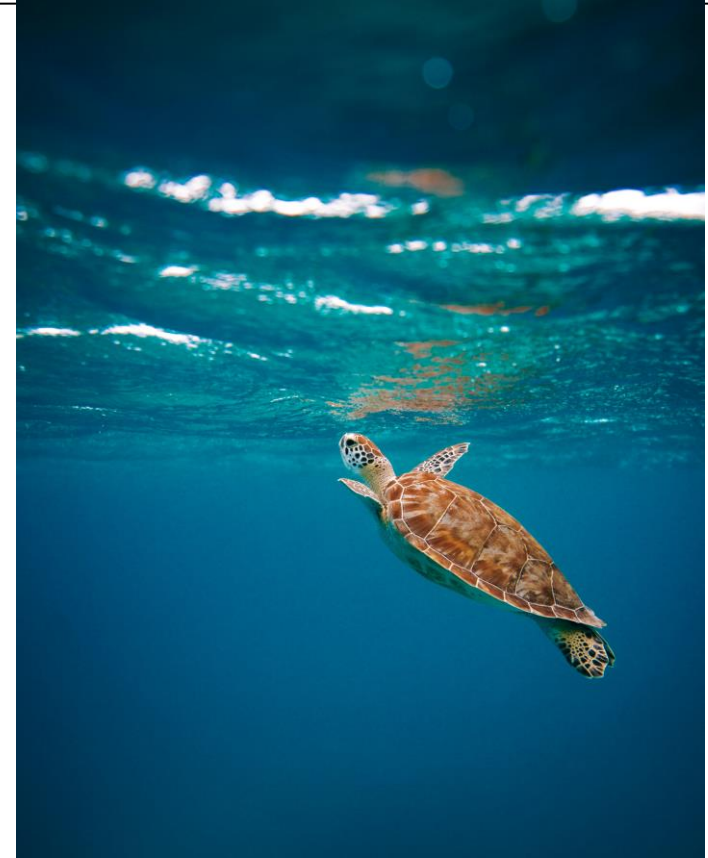
Gayathri Mohandas

Date : 06-Sept-2024



About Me

We all are on our own journey, at our own pace.



My learnings from this week!



Learning 1 | My takeaways



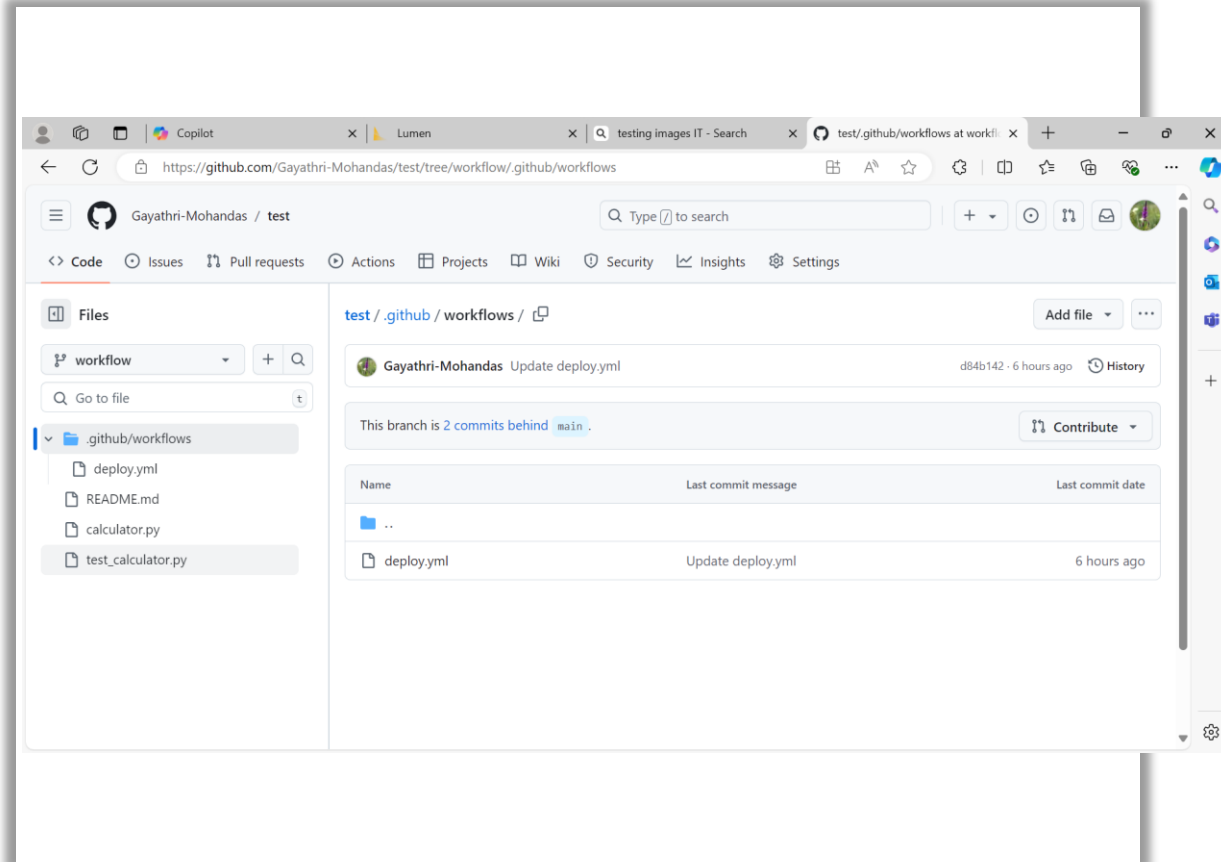
- Unit Testing
 - Purpose: Tests individual components or functions.
 - Focus: Ensures each part works correctly in isolation.
- Integration Testing
 - Purpose: Tests interactions between integrated units or modules.
 - Focus: Identifies issues in interfaces and interactions.
- System Testing
 - Purpose: Tests the complete and integrated application.
 - Focus: Verifies the system meets specified requirements.



Learning 2 | My takeaways



CI/CD in GitHub workflows automates the software development process, ensuring faster and more reliable code deployments. It helps catch bugs early through continuous integration and testing, improving code quality. Continuous delivery/deployment ensures that updates are consistently and safely released to production. This leads to more efficient development cycles and higher-quality software.



Learning 3 | My takeaways



The cloud provides scalable and flexible resources, allowing businesses to adjust their computing power based on demand. It enhances collaboration by enabling access to data and applications from anywhere, at any time. Cloud services also offer cost savings by reducing the need for physical infrastructure and maintenance. Additionally, it ensures data security and disaster recovery through robust backup and recovery solutions.

IaaS, PaaS, SaaS



Relevance of learnings for my organization



Learning 1 | Relevance for Shell

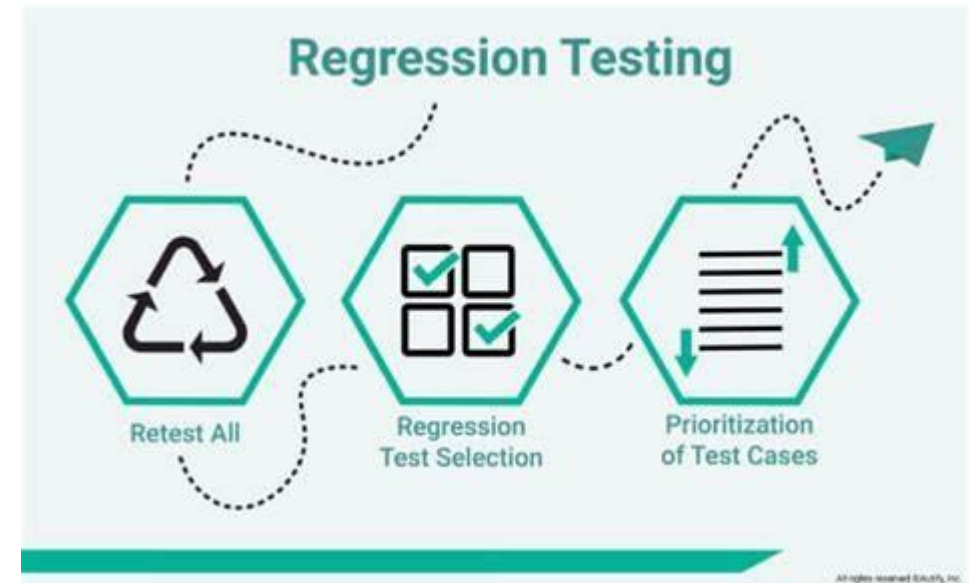


How I feel Shell implements this learning

- Unit testing performed on individual components. Followed by integration testing and even system testing.
- Adding on regular smoke tests and regression tests when new codes modified.

How I feel Shell benefits from this learning

- Ensures the units and modules are up
- Exhaustive tests when new codes are introduced ensures the safety of system



Learning 2 | Relevance for Shell



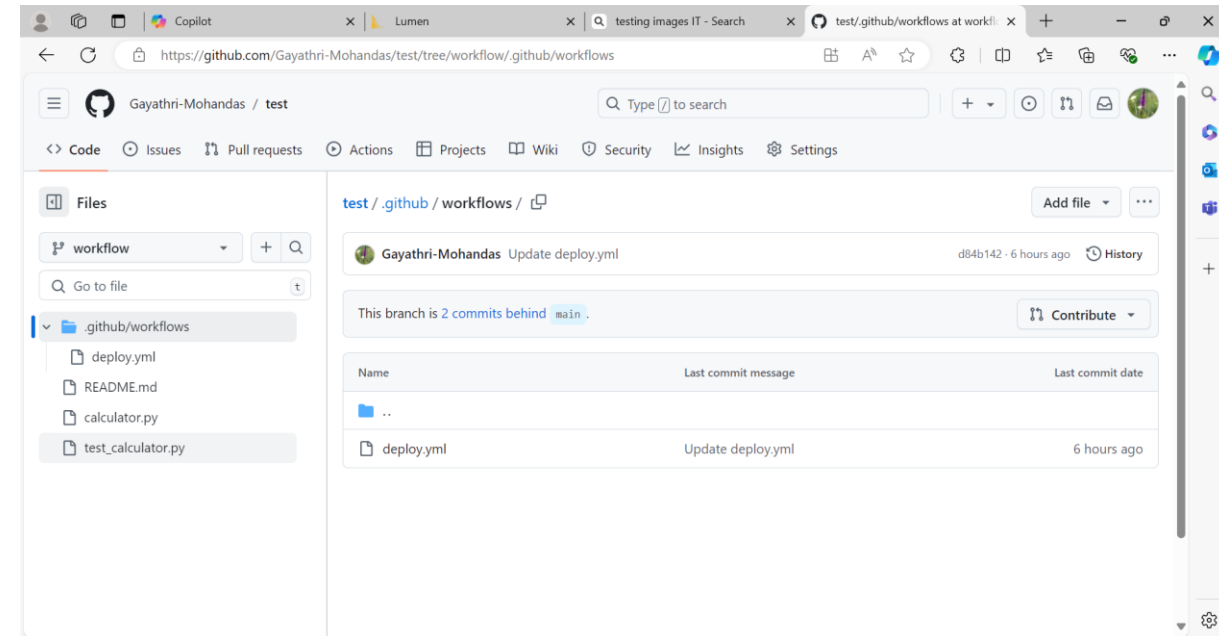
How I feel Shell implements this learning

Improved Efficiency: Streamlines and automates repeatable tasks, reducing errors and saving time¹.

Enhanced Collaboration: Provides better visibility into tasks, enabling team members to work together more effectively².

How I feel Shell benefits from this learning

- Cost savings
- Increased Transparency



Learning 3 | Relevance for Shell

How I feel Shell implements this learn

SaaS - Google Workspace, Salesforce, Microsoft 365.

PaaS – Microsoft Azure App Services.

IaaS - Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)

How I feel Shell benefits from this learning

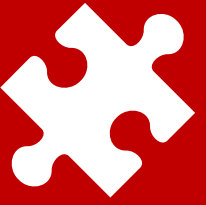
- Scalability
- Elasticity
- On demand



Challenges in implementing learning



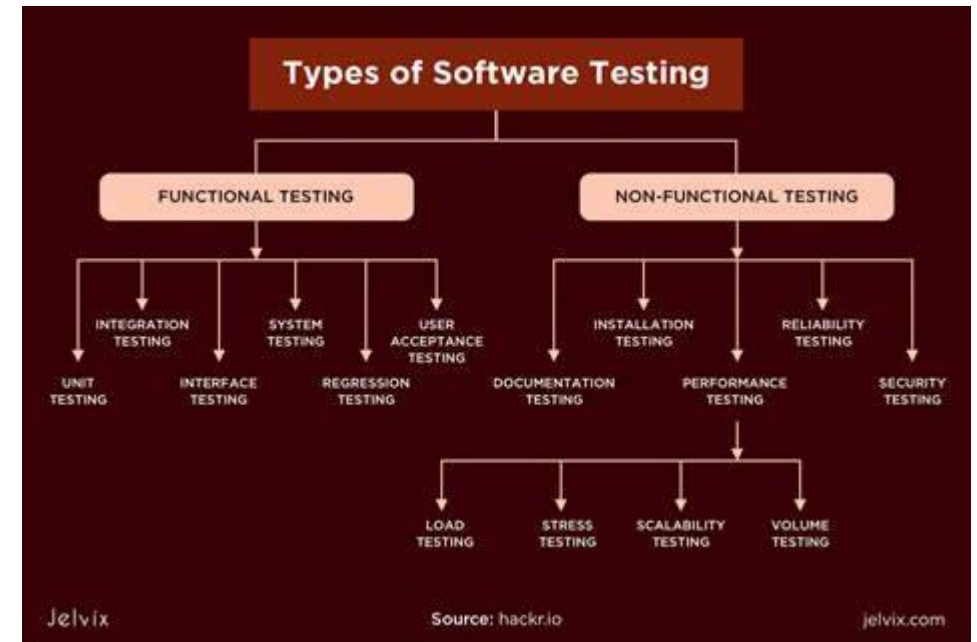
Challenge faced while implementing Learning 1



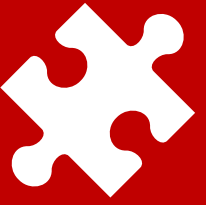
What were the challenges I faced while implementing Learning 1 and my plan to overcome them

Understanding different testing scenarios

<https://github.com/Gayathri-Mohandas/UNext-Bootcamp>



Challenge faced while implementing Learning 2

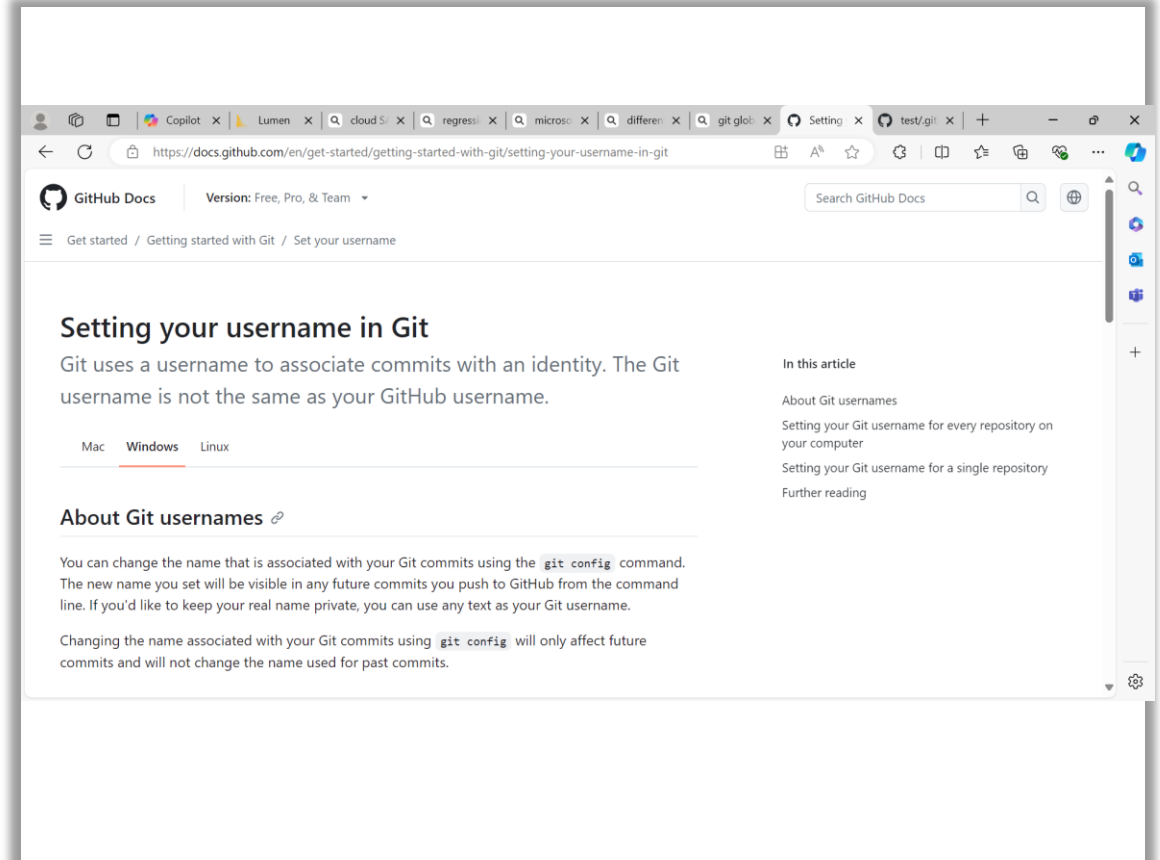


What were the challenges I faced while implementing Learning 2 and my plan to overcome them

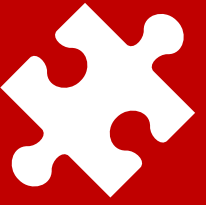
Clone a repo

Resolved via github username and email command

<https://github.com/Gayathri-Mohandas/UNext-Bootcamp>



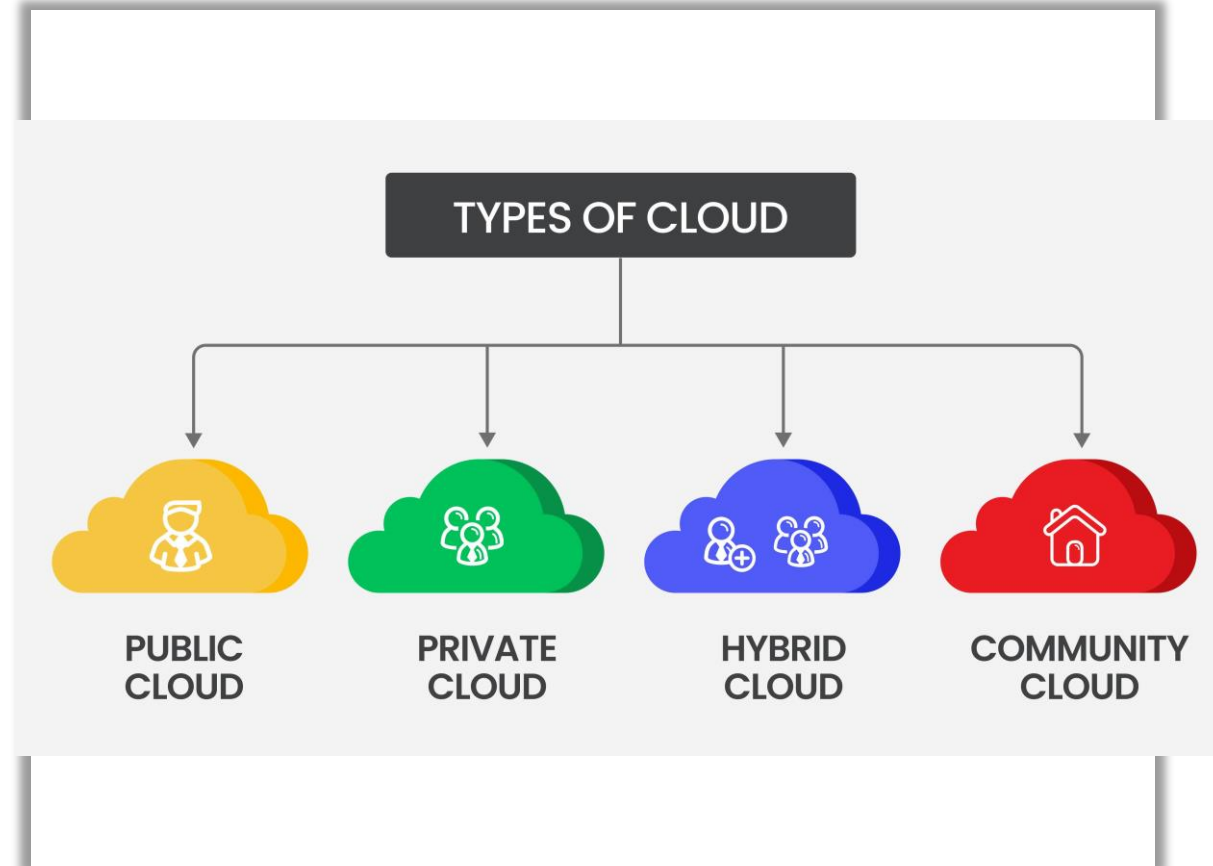
Challenge faced while implementing Learning 3



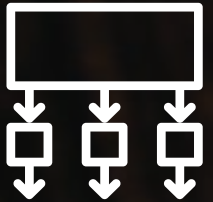
What were the challenges I faced while implementing Learning 3 and my plan to overcome them

Scenarios and examples of cloud

<https://github.com/Gayathri-Mohandas/UNext-Bootcamp>

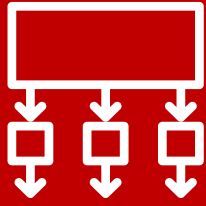


Action Plan



My Action Plan for this Week

Actions	Timeline	Status
<ol style="list-style-type: none">1. Github workflows2. Azure devOps Agile	<ol style="list-style-type: none">1. YouTube lectures2. Watch more YouTube tutorials	<ol style="list-style-type: none">1. done2. In progress



Learning is also Fun!



Learning is also Fun!



Please share how "Your" learning was fun this week

- JAM sessions
- Hands on implementation of Vm



Summary



- DBMS, Software testing, Devops, Cloud, Case work
- Hands on sessions of Vm, Agile, workflows, github actions

The background of the slide is a dark, textured surface with a pattern of glowing, golden-brown lines and dots, resembling a digital rain or data stream effect. The lines are vertical and slightly blurred, creating a sense of motion. The dots are scattered throughout, adding to the digital aesthetic.

Thank You