CICD PIPELINES

BY: ARWA AHMED

AGENDA

- What is CICD? And WHY ?

- Tools

- Best practices

WHAT IS CICD ? AND WHY?

Continuous Integration is a practice of integrating code from the multiple source code into a central artifact like image, jar files, npm pkgs .. etc

Continuous Integration can contain multiple phases like unit testing and quality checks for the code, checking security vulnerabilities and upload the artifact to a remote registry

Automating these processes and avoid human interaction in the building phases will lead to a faster and maintable phases

WHAT IS CD ?

- Stands for continuous delivery and also could be deployment

- It means that uploading the artifact to a remote server and being run and available for the production side and viewed by the customer

- Automatic and fast rollback in case of anything goes down or unexpected

TECHNICAL BENEFITS

- Fault Isolations

- More Test Reliability. Using CI/CD, test reliability improves due to the bite-size and specific changes introduced to the system

- Higher revenue since it fix the error so much faster and Fail As soon as possible

- Avoid running apps with high costs if it well not working

- Fast alerting and notifying in case of failure

THANK YOU .. ☺