

INTRODUCTION TO CI/CD

By Mohamed Abdel Wahab
AWS DevOps Engineer - Project 3

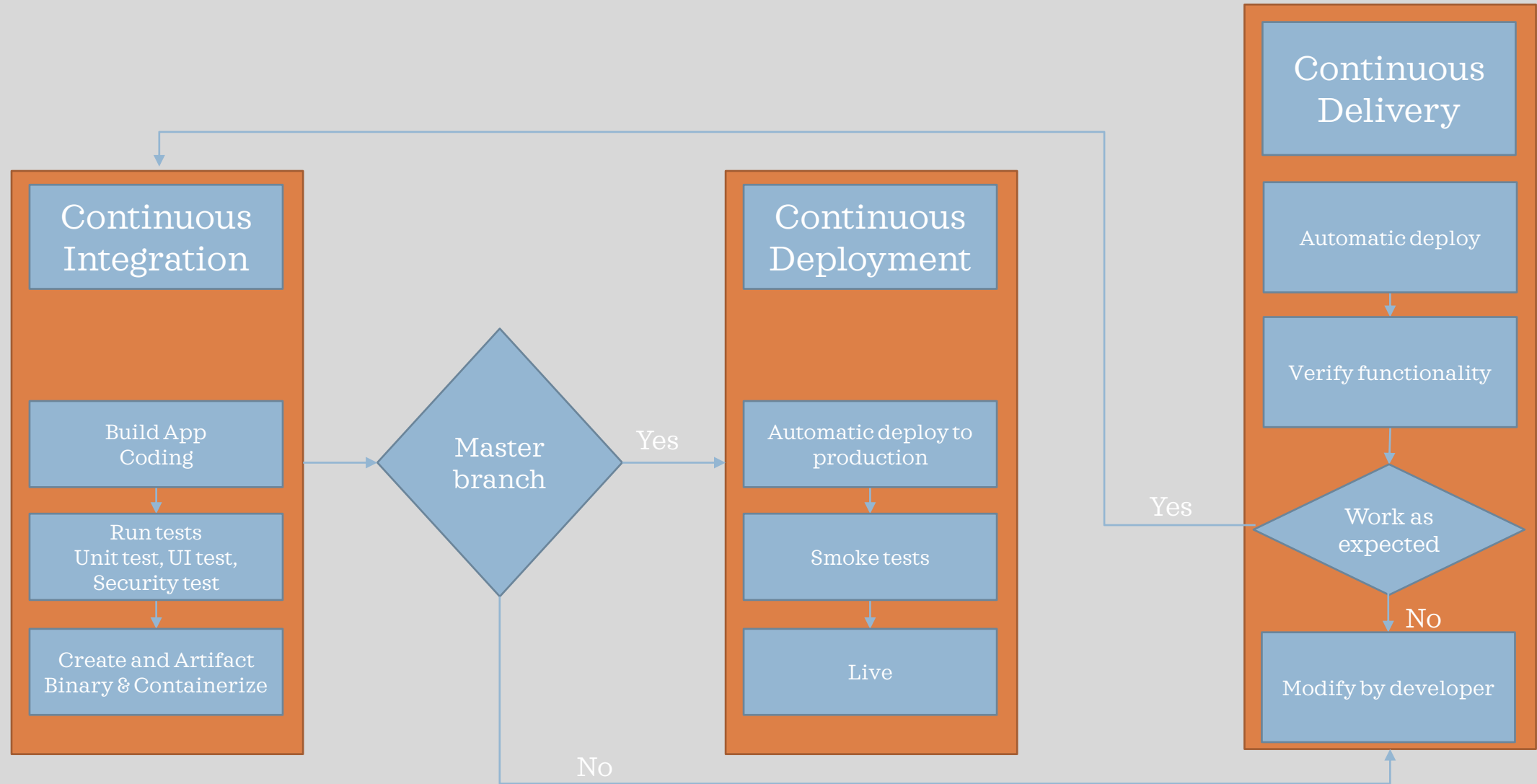
Agenda

- Definitions
- CI/CD process & workflow
- Benefits
- Challenges

Definitions

- CI (continuous integration) : is a software development approach where members of the development team integrate their work frequently, usually each person integrates at least daily leading to multiple integrations per day
- CD (continuous delivery) : is a software discipline where you build software in such a way the the software can be released to production at any time
- CD(continuous deployment) : provides a process to create frequent released but not necessarily deploy them, continuous deployment means that every change automatically get deployed through deployment pipeline

Process and workflow



Benefits

- Automation of new software versions deployment to avoid human errors
- Standardization : standard release process for the whole projects
- Improve developer productivity
- Deliver products that the customer needs accurately

Challenges

- Requires investment and long journey of learning
- Get the developers adapted to the process
- Support from the business team that requires their understanding to the process