

CI/CD DevOps Hands-On Workshop



Prerequisite

The following is the prerequisite for participant to take this workshop.

- Basic knowledge or experience in programming; knowledge in Java programming language is recommended.
- Personal notebook/laptop to use in the hands-on workshop session. Linux environment is recommended, and some tools installation on top of docker engine will be performed – ensure you have the security access to perform installation on your laptop.
- Knowledge in basic version control is recommended, but not mandatory.

Workshop Overview

In this 3 days of SCM, CI/CD & DevOps Hands-on Workshop, you will learn how to version control your application code and database, build DevOps pipeline and use it to package and ship your solution. You will also learn the best practice of branching, Continuous Integration (CI), pre-flight test, peer review, pipelining and finally achieve Continuous Delivery for your team and organisation.

DAY

1

Source Code Management (SCM)

Learn how to use version control with several branching approaches for application and database changes, bake your solution into container image, and store it to container registry

DevOps Pipeline

Learn the best practice of DevOps automation, and build your pipeline, configure the pipeline and all required steps, including set-up branch policies, peer-review and pre-flight test.

DAY

2

DAY

3

CI and CD

Learn on how to set-up your Continuous Integration (CI) tools and practice to use it properly, and then extend it to Continuous Delivery, to ship your incremental changes faster with DevOps pipeline.

Who is this workshop for?

SCM, CI/CD & DevOps Hands-on Workshop is designed for everyone working in the field of IT, start from Development to Operation. Our program is especially beneficial for IT professionals who are seeking to improve the practical knowledge and skill to implement proper versioning, Continuous Integration (CI) and Continuous Delivery (CD).

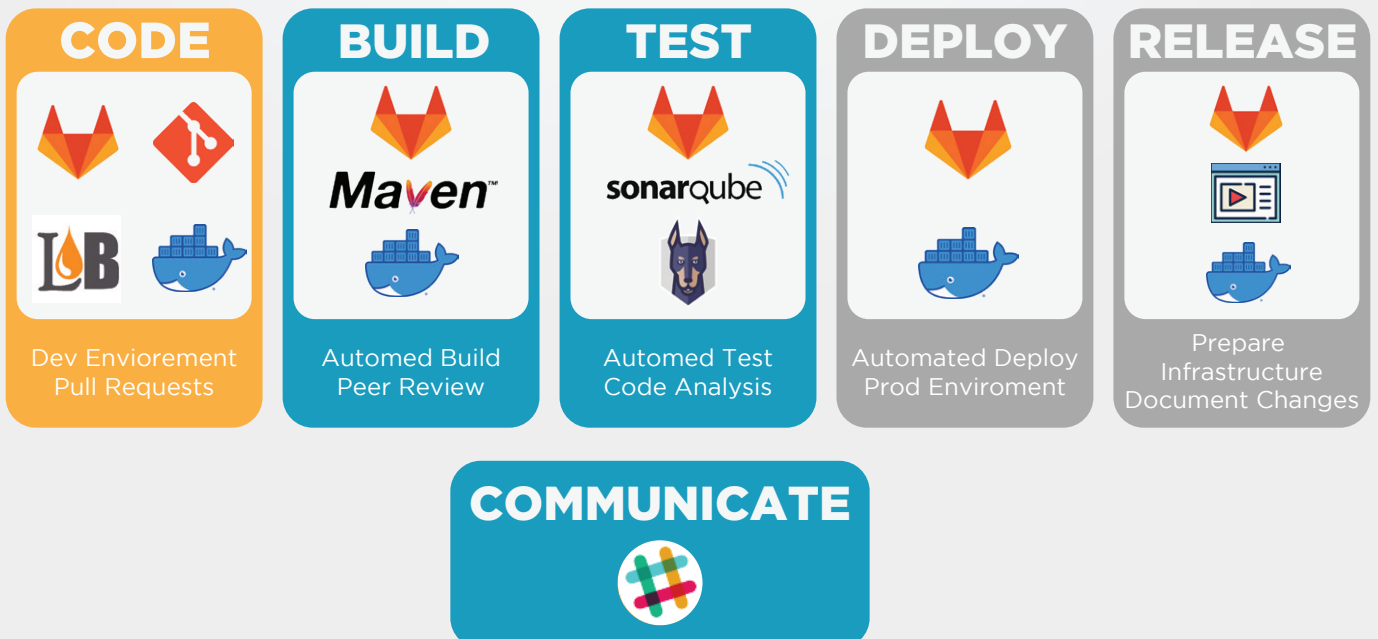
The following will definitely benefit from this workshop:

- Professionals involved in IT development, and IT Operation.
- IT professionals working within, or approaching an Agile or DevOps environment with the need for a detailed understanding and practical skills of the Version Control System, Continuous Integration (CI) and Continuous Delivery (CD)
- Software Developers working using Agile framework/methodology
- Infrastructure/Platform Engineers that works toward pip line development.



Technology Stack in the Workshop

Following is the technology stack will be used in the workshop:



Workshop Agenda

Following is the agenda for our 3 days Hands-on Workshop

DAY 1

Source Code Management (SCM)

- Version Control System Type
- Different Branching Approach
- Practical Containerisation with Docker
- Version Control your Application Code with Git and GitLab
- Version Control your Database Code with Git and GitLab
- Bake it into your container image

DAY 2

DevOps Pipeline

- What is DevOps? What is DevOps Pipeline for?
- Steps in DevOps Pipeline
- Configure your DevOps Pipeline with Gitlab-CI
- Set-up Quality assessment in the pipeline with Peer Review
- Set-up Quality assessment in the pipeline with Pre-Flight Test

DAY 3

Continuous Integration

- What is Continuous Integration?
- How to do proper Continuous Integration
- How to leverage Feature Toggle

Continuous Delivery

- What is Continuous Delivery?
- How to achieve Continuous Delivery (CD)
- How to do proper versioning and set-up release decision

Delivered By

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