

UdaPeople CI/CD

By: Sarah Refaat

DevOps Engineer, CoE department

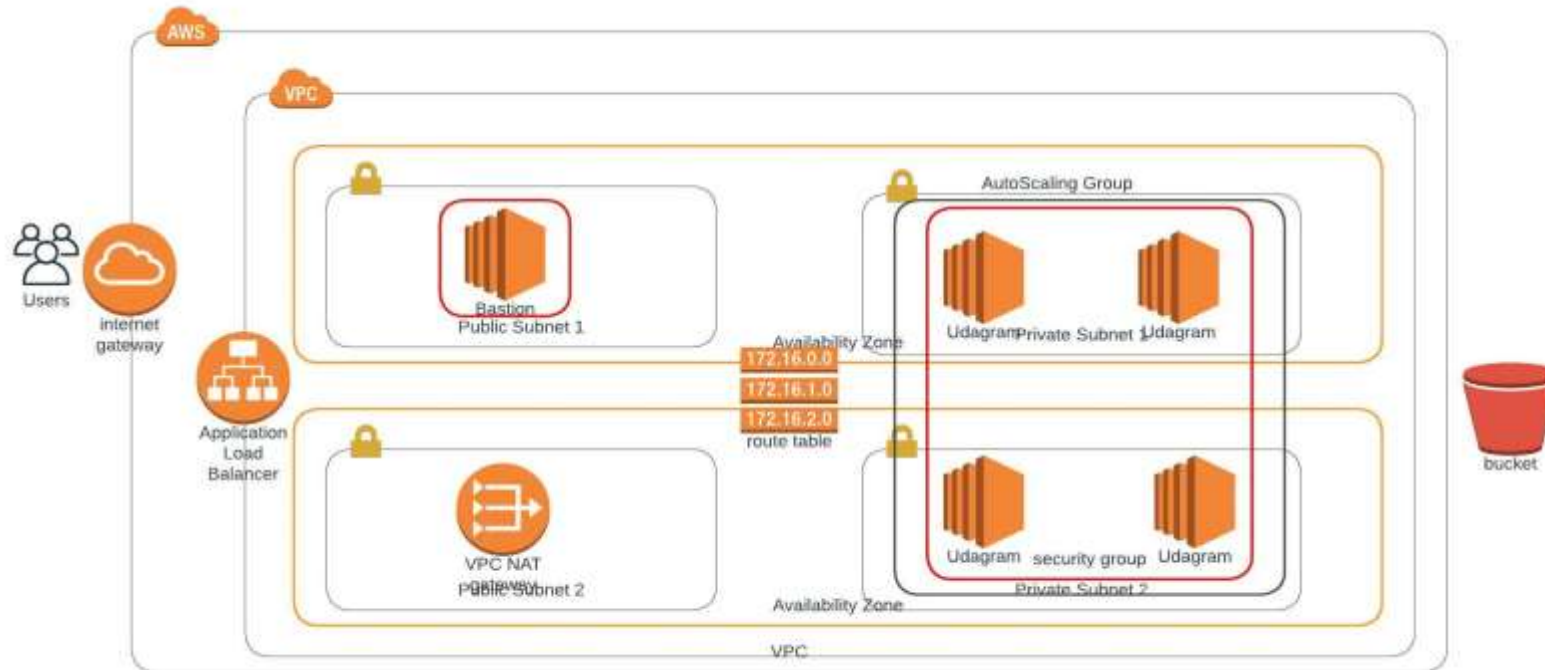
Jun2022

Index

- ▶ Our way of deploying applications
- ▶ Disadvantages
- ▶ Suggested solution
- ▶ Advantages of using CI/CD

Our way of deploying applications

- The normal followed way on our company to deploy any application is :
 - Set our environment on AWS
 - Uploading our application, and deploy the database
 - Set load balancer
 - Publish our domain and make it available to our customers



Disadvantages of used way

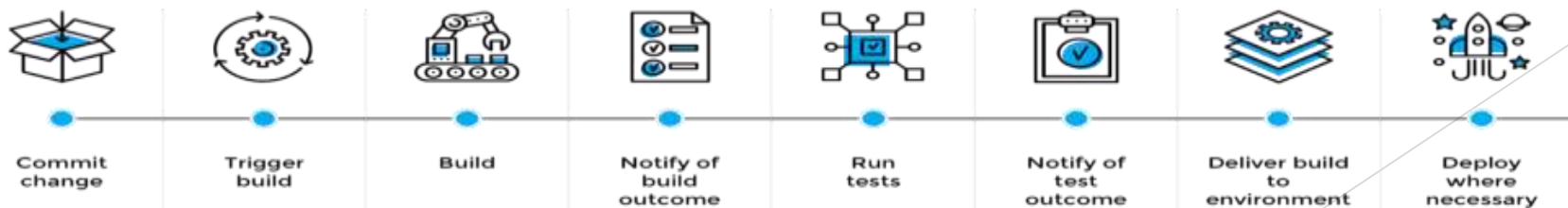
- All activities are **manual** that caused **many errors** and sometimes extra resources launched by mistake which **increase the cost**.
- In average deploying new application **requires 3 members** of the team to detect **all of their working hours for 2 days** to make sure everything is working fine and launch the application **which increase the lateness of delivering** another application, and **increase the hiring demand and the cost**.
- It almost requires **someone to monitor** the application to catch the failure which **delay the discovery of failures** and the **decrease the customer satisfaction** and **decrease the revenue**
- That's why will need to use CI/CD pipelines and apply **DEVOPS** Tips !!



Why CI/CD ?

- ▶ Using automated **CI/CD pipelines** to **create the infrastructure**, that will avoid any extra cost, **Less human error**, **Faster and stable deployments**
- ▶ Building **CI pipelines** will help us to **discover bugs and errors earlier** before deploying to the servers that will help to get customer satisfaction and **Reduced downtime** from a deploy-related crash or major bug that will **increase product revenue**.
- ▶ Creating a **CI/CD pipeline** will help with getting **Faster Production Deployments**, that will help us to launch **New value-generating** features released more quickly
- ▶ **Building a CI/CD Jobs** and making each job with detected target and in this case we can **reuse those jobs** and that will make our **next tasks easier and maintainable**
- ▶ **Failure will be automated handled by pipelines**, that will make the deployment cycle more easy to by done, to the point and easy to maintain

CI/CD Pipeline



Thank you :)