



Alber Ayman

give your application auto-deploy superpowers

UDACITY ADVANCED CLOUD DEVOPS NANODGREE



CICD

Work Less Earn More

CI/CD PIPELINES AND REMOVING HUMAN ERROR

What is CICD?

- ▶ **Continuous Integration CI** : is combining all developers' working copies to one unified pipeline several times a day.
- ▶ Has to do with everything concerned with code the main goal of CI is to shorten release time and release more working versions of our product.
- ▶ **Continuous Integration CD**: Software approach to automate deployments which is delivered frequently.
- ▶ So we can grantee customers satisfaction at early stage of product lifecycle.



Why?

- ▶ Reduce Cost : Less developer time on issues from new developer code.
- ▶ Avoid Cost : Less bugs in production and less time in testing.
- ▶ Avoid Cost : Prevent embarrassing or costly security holes.
- ▶ Avoid Cost : Less human error, Faster deployments.
- ▶ Reduce Cost : Less infrastructure costs from unused resources.
- ▶ Increase Revenue: New value-generating features released more quickly.
- ▶ Increase Revenue: Less time to market.
- ▶ Protect Revenue: Reduced downtime from a deploy-related crash or major bug
- ▶ Protect Revenue: Quick undo to return production to working state.



Main Takeaway:

- ▶ Faster feedback from customers.
- ▶ More responsive to changes and updates.
- ▶ Better quality and reduced waste , Increase profit and revenue.
- ▶ Customer satisfaction from day one.
- ▶ More productivity and less error prone.
- ▶ Automate the whole software lifecycle with a click of a button.

