



CI/CD on Cloud



- What is CI/CD?

Continuous Integration, Continuous Deployment where development process and deployment process are all now in one process managed by DevOps engineers.

- How CI/CD works?

- CI/CD bridges the gaps between development and operation activities and teams by enforcing automation in building, testing and deployment of applications. CI/CD services compile the incremental code changes made by developers, then link and package them into software deliverables. Automated tests verify the software functionality, and automated deployment services deliver them to end users.

- Why use CI/CD on cloud ?

Cloud make it much easier for DevOps in automation and deployment that physical servers due to its flexibility.

Let's Avoid cost

- Avoiding Costs to be spent on testing teams as we will need less time testing as important parts of testing is automated
- Prevent embarrassing or costly security holes as it will auto-detect them.
- Less human error, Faster deployments as deployment is automated in our pipeline , So all human error cost is avoided in production.



Reduce your cost

- Less infrastructure costs from unused resources as unused resources will be cleaned immediately.
- Less developer time on issues from new developer code as the CICD Process will detect any conflict and solve it.



Increase your revenue and protect it !!

- Protect Revenue as downtime will be reduced from a deploy-related crash or major bug
- Protect Revenue as you can Quickly undo to return production to a working state.
- Increase Revenue as New value-generating features will be released more quickly after automating many tasks.
- Increase Revenue as you will need Less time to be on market.



Conclusion

- The benefits of CI/CD impact all ends of the development lifecycle, the customer experience, and the big-picture business strategy and integrating it with the cloud will actually impress you.
- It plays a critical role in software development and delivery and helps smaller teams move faster, respond to constant changes, and incorporate real time feedback—all of which contribute to cost savings, profitability, and a higher-quality end-product.
- DevOps Market size exceeded \$7 billion in 2021 and is expected to grow at a CAGR of over 20% from 2022 to 2028 to a value of over \$30 billion.

