Benefits of CI/CD

HOW CAN CI/CD IMPROVE REVENUE, AVOID AND REDUCE COSTS ?

Compiling/Test errors are caught faster

In an environment where multiple developers are constantly pushing new code to a branch, the chances of having compiling/test errors can be very high. However, by using a CI pipeline we can:

Automate the building process and notify developers when errors happen so they can fix them quickly.

- Developers spend less time fixing coding errors and therefore we can reduce costs.
- Test Errors caught in early stages allow us to avoid cost to fix production errors

Discover Security Vulnerabilities

Software security is our number one priority, when we are constantly adding new features to our product, we should always make sure we are not adding security issues on it. To help us with that we can:

Create a job in our CI pipeline to analyze our code for security gaps every time a new change is committed.

We can prevent security spots to be discovered in the production environment and avoid additional costs to allocate developers to fix them. Also, we can avoid cost by preventing possible court lawsuits related to security gaps.

Automate Infrastructure Creation/Cleanup

Releasing a new version of our software requires some infrastructure activities to either create new resources that are going be used or remove non required ones. Those activities demand humans to operate and are susceptible to possible errors. To fix that we can:

Create a job in our CD pipeline to automate the infrastructure creation and cleanup

- Avoid human errors and additional cost when deploying our software to production.
- Save money on resources that are not being used anymore.

Faster Rollbacks

When deploying a new software to production we need to be prepared for possible errors that can occur. Those errors need to be fixed quickly. To do that we can:

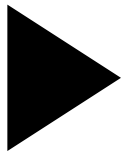
Create a JOB that rolls back to the last software version

Make sure our clients are not affected by errors and our software is stable meaning that we are protecting our revenue.

Faster Deploys

To aggregate value to our product we constantly need to add new features to our software. This process can very demand since we need to make sure our new version is not going to affect the old functionalities. As we check on previous slides, we can do that by:

Implementing a complete CI/CD pipeline to get errors and vulnerabilities in earlier stages, and automatize infrastructure creation, deploys and rollbacks



Delivery new features more frequently and therefore increase our revenue and aggregate value to our product.