

# CI/CD approach



# CI/CD

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- Benefits
- Testing and deploy process
- Current approach challenges
- Tools

# Benefits / testing and deploy process

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How it works:

- 1 Continuous integration refers to maintaining a central repository Which ensures the software is always maintained in a streamline where users can make use and deploy
- 2 Continuous delivery prepares code changes for production release without disturbing the production environment for any wrong changes being made

Fully automates the deploying process

- 3 Code -> pushing to source repository -> CI server to run the deploy process -> build/test pass the result to the users
- 4 Due to early capture of bugs and rectified, code pushed to production are less of bugs and developers are alerted before they push code to production

# Benefits towards cost

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- 1 Reduce downtime and revert back to production time saving
- 2 Faster release reducing bug fixing
- 3 Less of human error , faster deployments with less bugs and stable enviroment
- 4 Footprint for large infrastructure is not required , less infra cost

# Issue with current approach

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1

Mindset of the entire team with different technical approach causing delay in delivering the project

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Infrastructure cost maintaining production and dev environments

3

Understanding the entire process ( technical wise with deep knowledge ) which required to gain knowledge on many applications to created stacks and deploy

# tools

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Try it yourself with these two simple “planets”:

1 Circle CI for continuous integration and continuous development

2 AWS cloud provided by udacity

## CONCLUSION

Following this approach reduces the development and release cost and utilizing the resource in other projects and tasks