



# DEVOPS – CI/CD CASE-STUDY

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23-11-2020 to 27-11-2020

Venkatesh Reddy Madduri && ShankarPrasad

# Agenda

- Case-Study Discursion
- Conclusion

# FIS DevOps Training

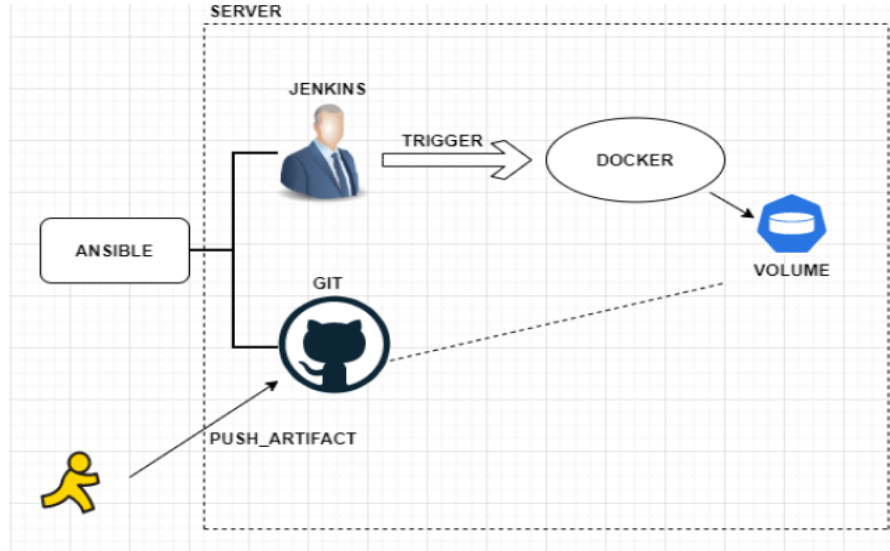
## Case Study:

There's a project lined up for one of the reputed banks and we must make sure the development and infrastructure pipelines are streamlined. As per the market standards we will proceed with the new generation technologies for the upcoming assignment, however, before proceeding with the actual configuration i would like to have a proof of concept to ensure the workflow is viable. Having said, I would expect you to prepare a workflow which incorporates CI/CD using the below tools that perform due diligence.

1. Git – Version Control System for tracking the code changes
2. Jenkins – Used for integration
3. Ansible – Used for Provisioning
4. Docker – Tool used to containerize
5. Kubernetes – Container Orchestration

## Requirement:

Use Ansible for provisioning Git and Jenkins onto the server. Create a html (lightweight content) or a lightweight application push it to your git repository, once the code is pushed an automatic build should be triggered in Jenkins that should make sure the provisioning of Docker along with the volume is done, added, I should also see a web server with the html that got pushed into my git repository running inside docker container and the same I should be able to access over internet.



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## Steps:

- Install ansible before starting the process
- Create a playbook or use adhoc commands to install git and Jenkins (purpose is to use ansible for provisioning, kindly don't use yum package manager)
- Create a sample html (work it on your own or surf google)
- Create your repository in Git
- Push the html to your Git repository
- Create a Jenkins freestyle job/pipeline job to ensure the provisioning of docker is done once a code is merged into master
- Also, add the volume configuration and try placing the artifact collected from git inside a container using the same Jenkins job

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## Project Submission:

For each above mentioned steps, take a snippet and attach the same in a word document by giving a brief description

**Due Date:** 2 Weeks from now i.e. 10<sup>th</sup> December 2020

# Conclusion

- ❖ We hope we were able to give you all a great kick start with DevOps tools
- ❖ Take it as a journey, go step by step
- ❖ All the best !!!



**ANY  
Questions ?**

Thank you



