

Jenkins Continuous Integration & Deployment

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Agenda:

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- Continuous Integration
- Architectural Diagram
- Jenkins Installation
- Plugins required for Jenkins

- Creation of a Job
- Build & Deployment

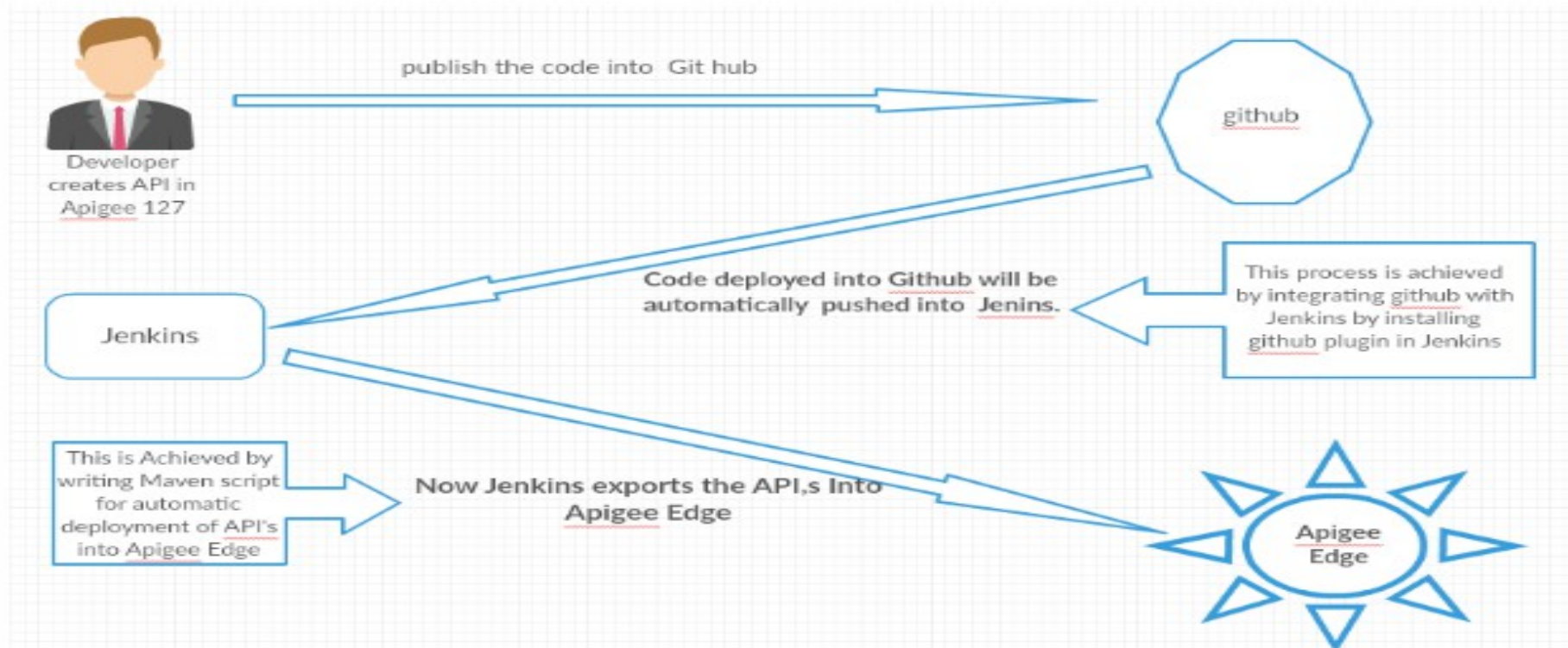
About Jenkins

- Jenkins is a powerful application that allows “continuous integration” and “continuous delivery” of projects.
- Jenkins is a Software that allows continuous integration and continuous delivery of projects, regardless of the platform.
- We can integrate Jenkins with a number of testing and deployment technologies.

Continuous Integration:

- Continuous Integration is a development practice that requires developers to integrate code into a shared repository at regular intervals.

Architectural Diagram:



Jenkins Installation Steps:

- Download Latest and stable version of Jenkins from the Jenkins Website.



Starting Jenkins:

- Open the command prompt. From the command prompt, browse to the directory where the jenkins.war file is present.
- Now run the following command:

D:\>Java -jar Jenkins.war

- After the command is executed various tasks will run. Once the process is completed without errors, the following line will come in the command prompt.

INFO: Jenkins is fully up and running

Accessing Jenkins:

- Once Jenkins is up and running, then we can access Jenkins from the following link
<http://localhost:8080>
- Now the jenkins Dashboard will be displayed on the screen.

Required Plugins:

- github plugin
- git plugin
- Performance Plugin
- Maven Installation Plugin

Creation of Job:

- Click on new item then select a Maven project.
- In the Source Code Management select Git Hub project and mention the github Url to access the github.

Build & Deploy:

- For deploying the project into Apigee Edge we need to give the properties in **Build pre steps** in configuration part for particular project.
- Give the Root POM and goals in build steps.
- Next we need to specify the parameters used in Maven command.
- Next Build the project.
- If the project is success then the API proxy will be deployed into Apigee Edge.

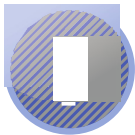
THANK YOU



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