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1. What is Jenkins?

Jenkins is an open source continuous integration tool written in java that allows us to automate the software development process, making sure that there is minimum involvement from us. It also integrates all the different parts of the development.

1. How do you store credentials in Jenkins securely?

First we need to go Jenkins Dashboard and click on manage Jenkins and we go to manage credential. Under stores scoped to Jenkins on the right and click on Jenkins. Under system, click the Global credentials link to access the domain.

1. What is Continuous Integration

Continuous integration refers to the build and unit testing stages of the software release process. Every revision that is committed trigger an automated build and test. With continuous delivery, code changes are automatically built, test and prepared for a release to production.

1. What is git cherry-pick? What are the scenarios in which git cherry-pick can be used?

Cherry pick is used for merging a particular commit from one branch to another branch. In this case first we need to checkout to the target branch. At this time we need to use this command git cherry-pick <commitid>. Commit the changes and push it to remote target branch.

1. How can you set up a Jenkins job?

We need to login jenkin. In jenkin dashbord click manage jenkin and on mange jenkin inside new items we create a job. In after giving name for the job we select free style project. In second page we set up all the variables like general , source code management , Build Trigger , Build environment , Build etc.

1. How can you create and assign roles in Jenkins?

First we create users to assign the roles based on job we assigned the credentials. For all this we need to install role based plugin.

1. What is the difference between git checkout [branch name] and git checkout -b [branch name]?

git checkout [branchname]= to switch to the existing branch

Git checkout-b [branchname] = to create the branch with switching to that branch.

1. What is the difference between cherry-pick and pull request?

In cherry pick we just pick one commit and push it to merge with the main branch but in pull request we make commit on all and merge it to the main branch.

1. How to install a plugin in Jenkins?

First go to manage plugin, in plugin manager we switch to available and in available we search for the plugin that we want to install and after that we select the plugin and install it.

1. What is agent and how to create agent?

Agent is a servers to run the job. It is a machine which connects to a Jenkins controller and executes tasks when directed by the controller.