Jenkins Declarative Pipeline

Why you should have a Pipeline

The definition of a Jenkins Pipeline is written into a text file (called a
[`Jenkinsfile`](https://www.jenkins.io/doc/book/pipeline/jenkinsfile)) which in turn can be committed to a
project's source control repository.
This is the foundation of "Pipeline-as-code"; treating the CD pipeline as a part of the application to be
versioned and reviewed like any other code.

**Creating a `Jenkinsfile` and committing it to source control provides a number of immediate
benefits:**

- Automatically creates a Pipeline build process for all branches and pull requests.
- Code review/iteration on the Pipeline (along with the remaining source code).

Pipeline syntax

```
pipeline {
        agent any
        stages {
                stage('Build') {
                        steps {
                                //
                        }
                }
                stage('Test') {
                        steps {
                                //
                        }
                }
                stage('Deploy') {
                        steps {
                                //
                        }
                }
        }
}
```
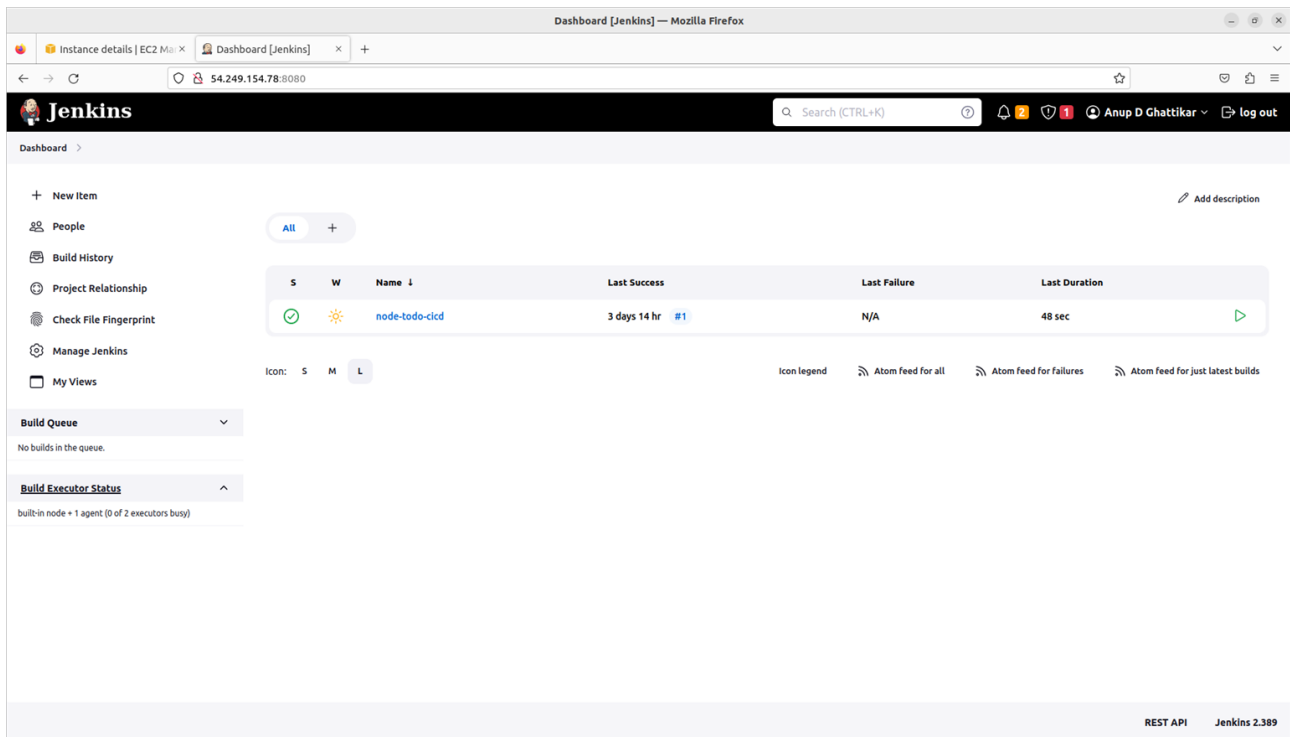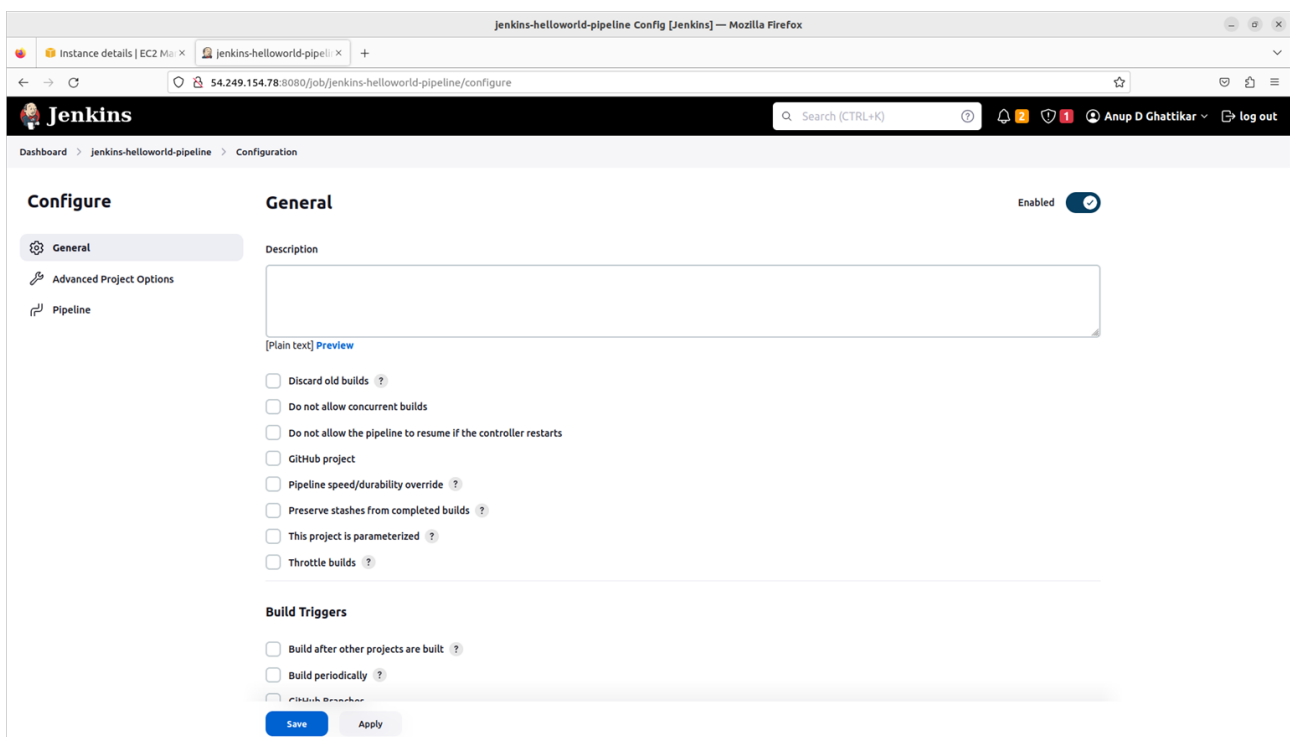
Task-01

1.Create a New Job, this time select Pipeline instead of Freestyle Project.

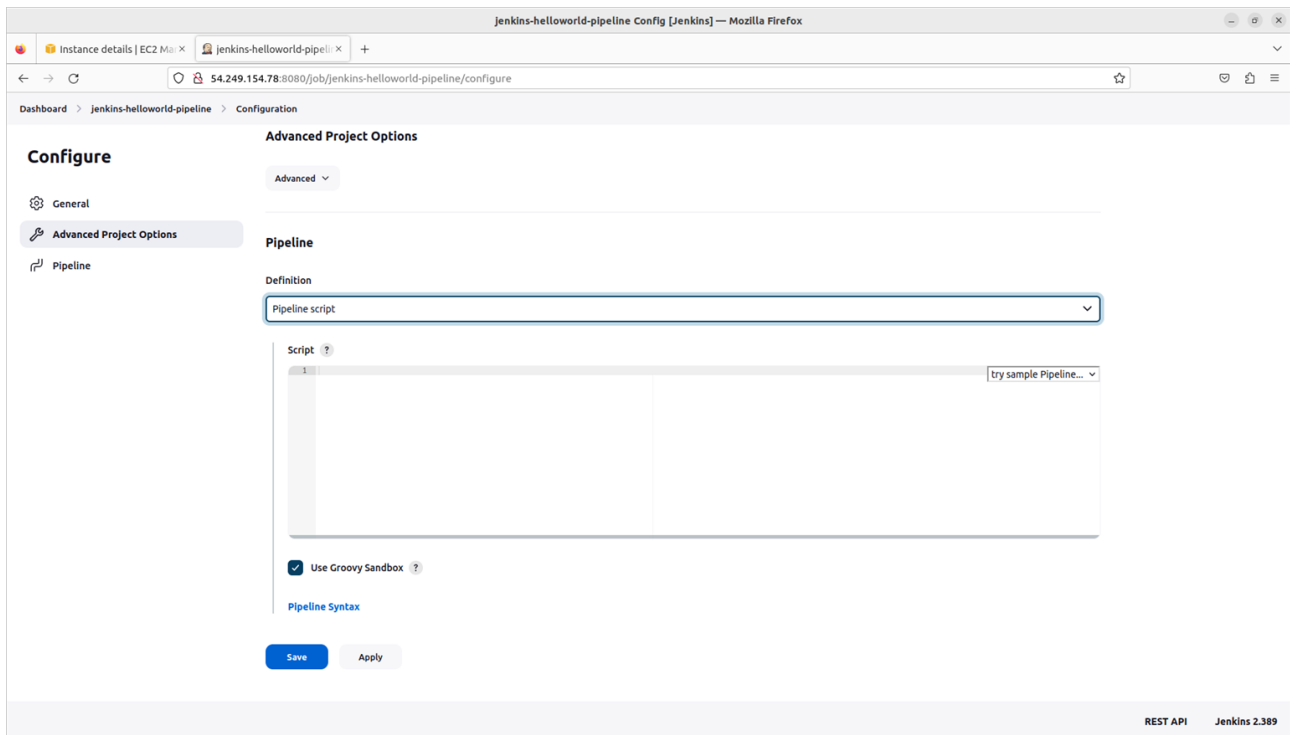1.To create a Declarative pipeline in Jenkins, go to Jenkins UI and click on New item.

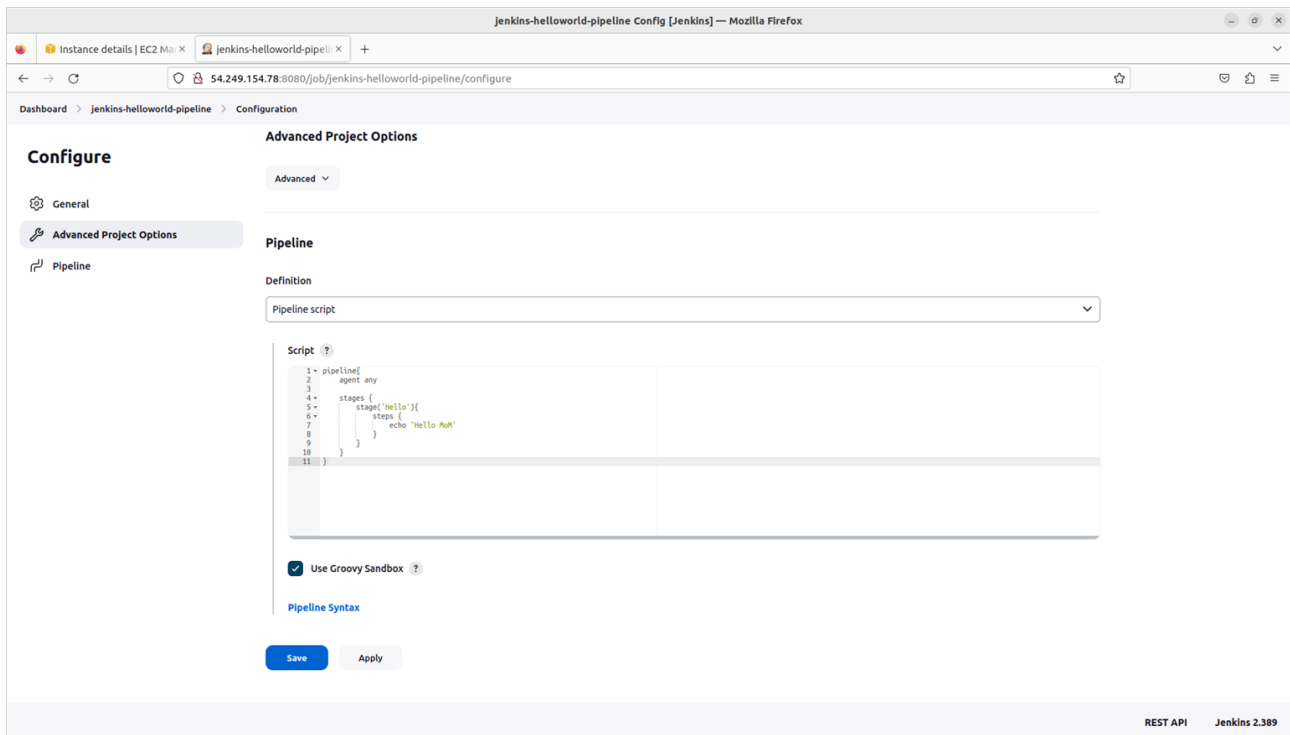2.Enter the pipeline name and select Pipeline, and then click on ok

3.Go to project configuration page
4.Now go to the pipeline session, In definition select Pipeline script
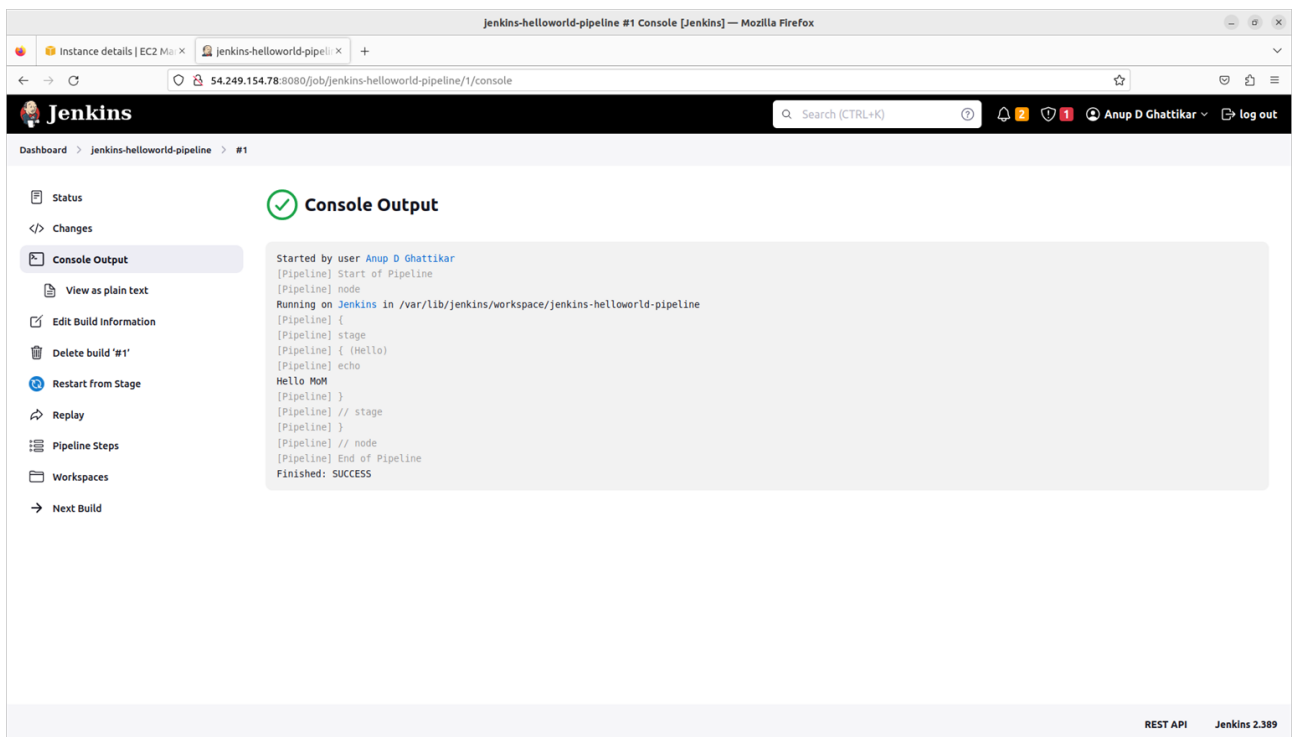

5.Write a pipeline script

What is Pipeline - A pipeline is a collection of steps or jobs interlinked in a sequence.

Declarative: Declarative is a more recent and advanced implementation of a pipeline as a code.

Scripted: Scripted was the first and most traditional implementation of the pipeline as a code in Jenkins. It was designed as a general-purpose DSL (Domain Specific Language) built with Groovy.

6. Build the project. You can manually build the project by clicking on the "Build Now" link in the project's main page

7. After a build is completed, you can view the console output by clicking on the "Console Output" link in the build page.

8. You can see the each stage view by clicking on the "Full Stage View" in the project main page.