

# Pipeline Job

The screenshot shows the Jenkins dashboard at [localhost:8080](http://localhost:8080). The top navigation bar includes links for Dashboard, New Item, Build History, All, and +. Below the navigation is a search bar and a sidebar with links for Streebo, Learn, GTU, LLMs, Regular Tools, IOT, Deployment, and Learning. The main content area features a Jenkins logo and sections for Build Queue, Build Executor Status, and Pipeline Jobs. The Build Queue section shows 'No builds in the queue.' The Pipeline Jobs section lists 'first-job' with status 'S' (green), 'W' (yellow), 'Name ↓', and 'Last Success' at '20 hr'. Below this is an 'Icon' section with S, M, and L options.

The screenshot shows the 'New Item' dialog at [localhost:8080/view/all/newJob](http://localhost:8080/view/all/newJob). The top navigation bar includes links for Dashboard, New Item, Build History, All, and New Item. The main content area is titled 'New Item' and asks for an item name ('first-pipeline'). It then prompts to 'Select an item type' and lists several options:

- Freestyle project**: Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.
- Pipeline**: Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type. This option is highlighted with a border.
- Multi-configuration project**: Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
- Folder**: Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.
- Multibranch Pipeline**: Creates a set of Pipeline projects according to detected branches in one SCM repository.
- Organization Folder**: Creates a set of multibranch project subfolders by scanning for repositories.

At the bottom, a note says 'If you want to create a new item from other existing, you can use this option:' followed by an 'OK' button.

first-pipeline Config - Jenkins

localhost:8080/job/first-pipeline/configure

Jenkins / first-pipeline / Configuration

Configure General

Description

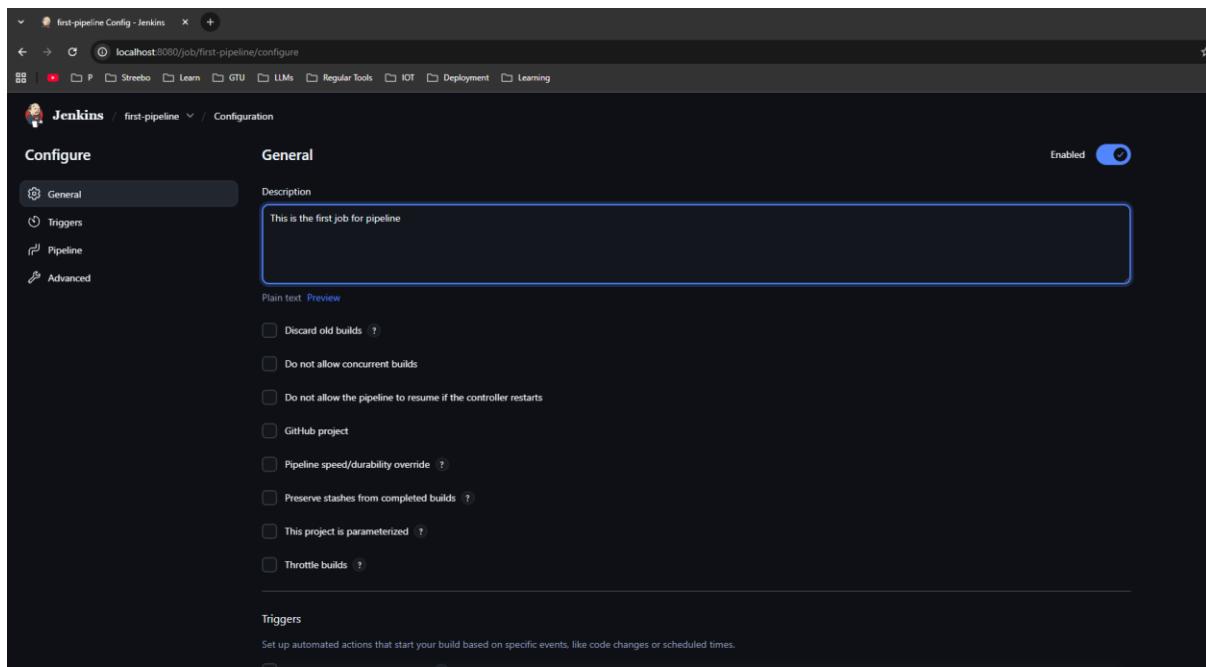
This is the first job for pipeline

Plain text Preview

Discard old builds ?  
 Do not allow concurrent builds  
 Do not allow the pipeline to resume if the controller restarts  
 GitHub project  
 Pipeline speed/durability override ?  
 Preserve stashes from completed builds ?  
 This project is parameterized ?  
 Throttle builds ?

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.



first-pipeline Config - Jenkins

localhost:8080/job/first-pipeline/configure

Jenkins / first-pipeline / Configuration

Configure Pipeline

Definition

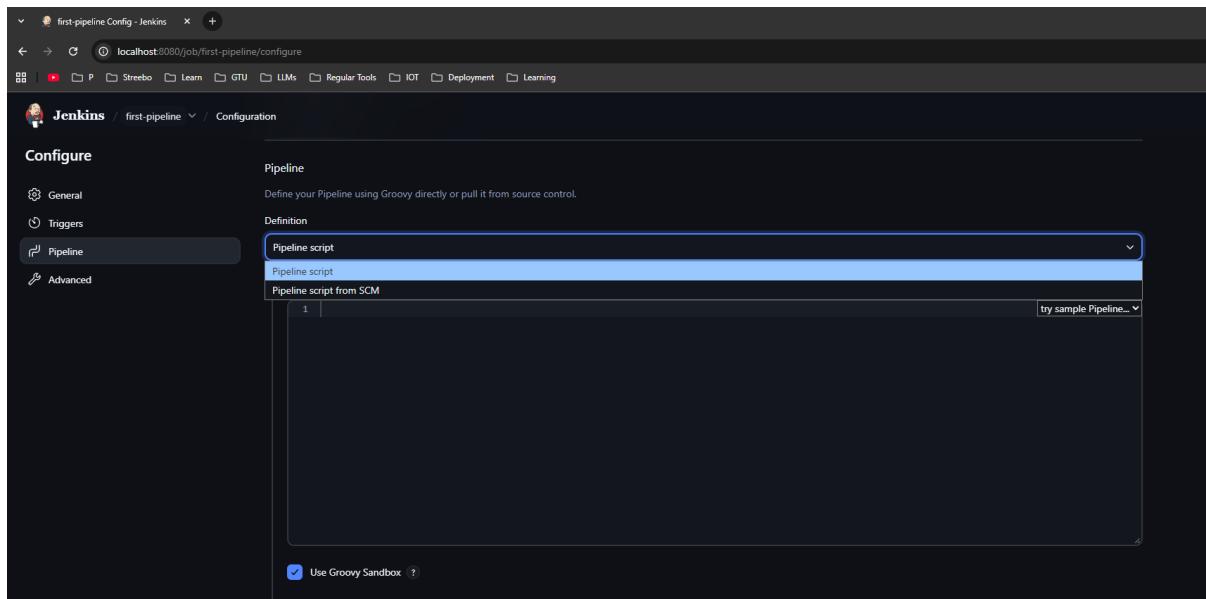
Pipeline script

Pipeline script

Pipeline script from SCM

1 try sample Pipeline...

Use Groovy Sandbox ?



first-pipeline Config - Jenkins

localhost:8080/job/first-pipeline/configure

Jenkins / first-pipeline / Configuration

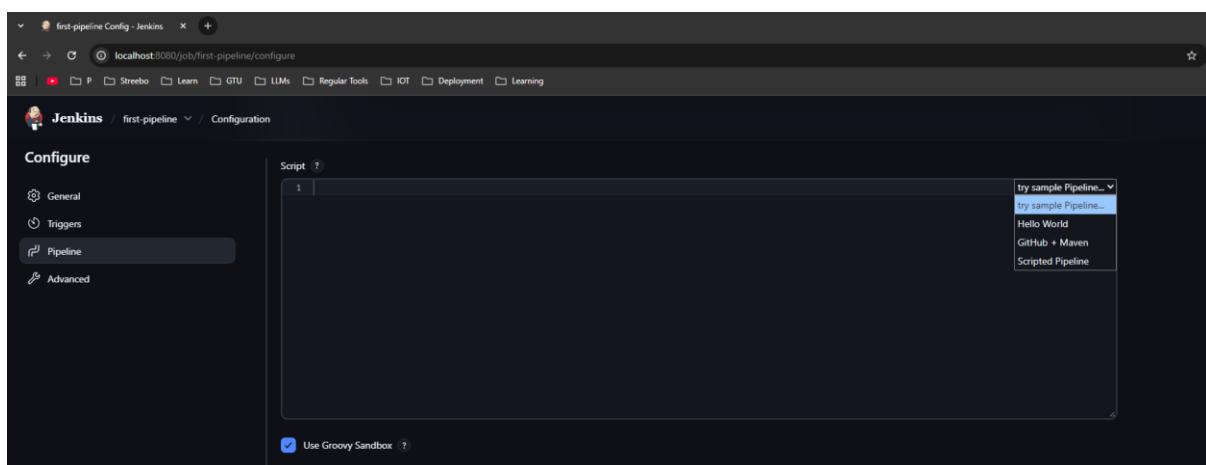
Configure Pipeline

Script

1 try sample Pipeline...

try sample Pipeline...  
Hello World  
GitHub + Maven  
Scripted Pipeline

Use Groovy Sandbox ?



first-pipeline Config - Jenkins

localhost:8080/job/first-pipeline/configure

Jenkins / first-pipeline / Configuration

Configure

Definition

Pipeline script

```
1 pipeline {  
2     agent any  
3  
4     stages {  
5         stage('Hello') {  
6             steps {  
7                 echo 'Hello World'  
8             }  
9         }  
10    }  
11}  
12
```

try sample Pipeline... ▾

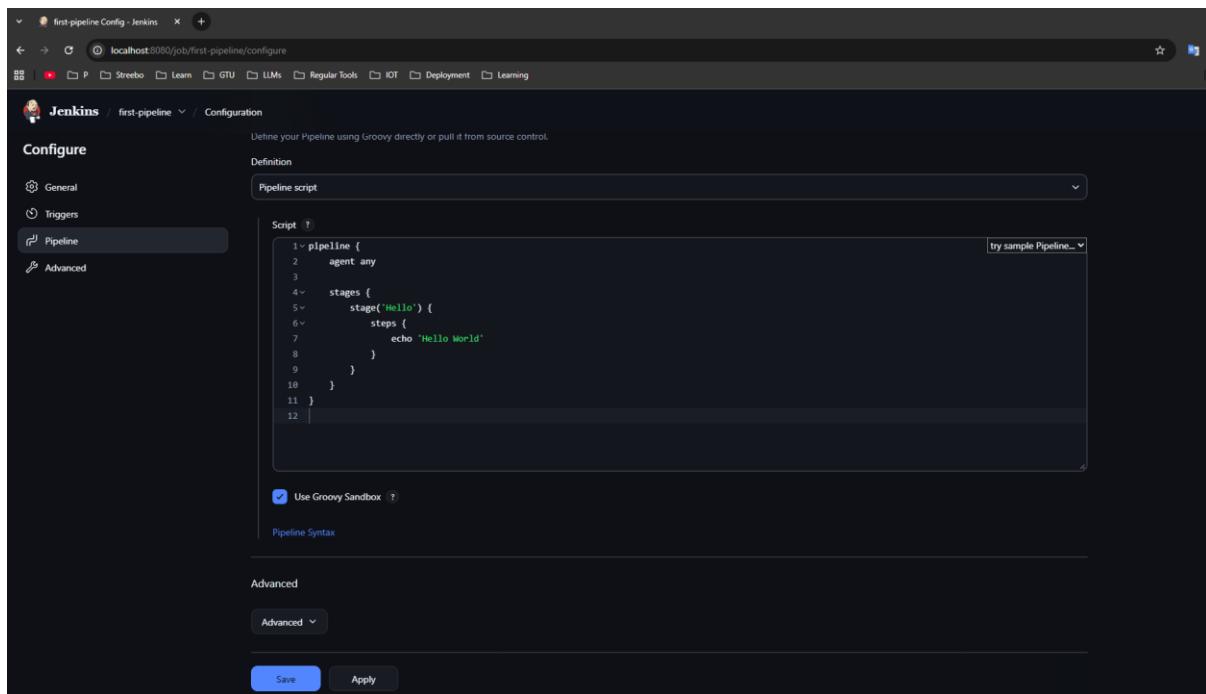
Use Groovy Sandbox ?

Pipeline Syntax

Advanced

Advanced ▾

Save Apply



first-pipeline - Jenkins

localhost:8080/job/first-pipeline/

Jenkins / first-pipeline

Status Changes Build Now Configure Delete Pipeline Stages Rename Pipeline Syntax Credentials

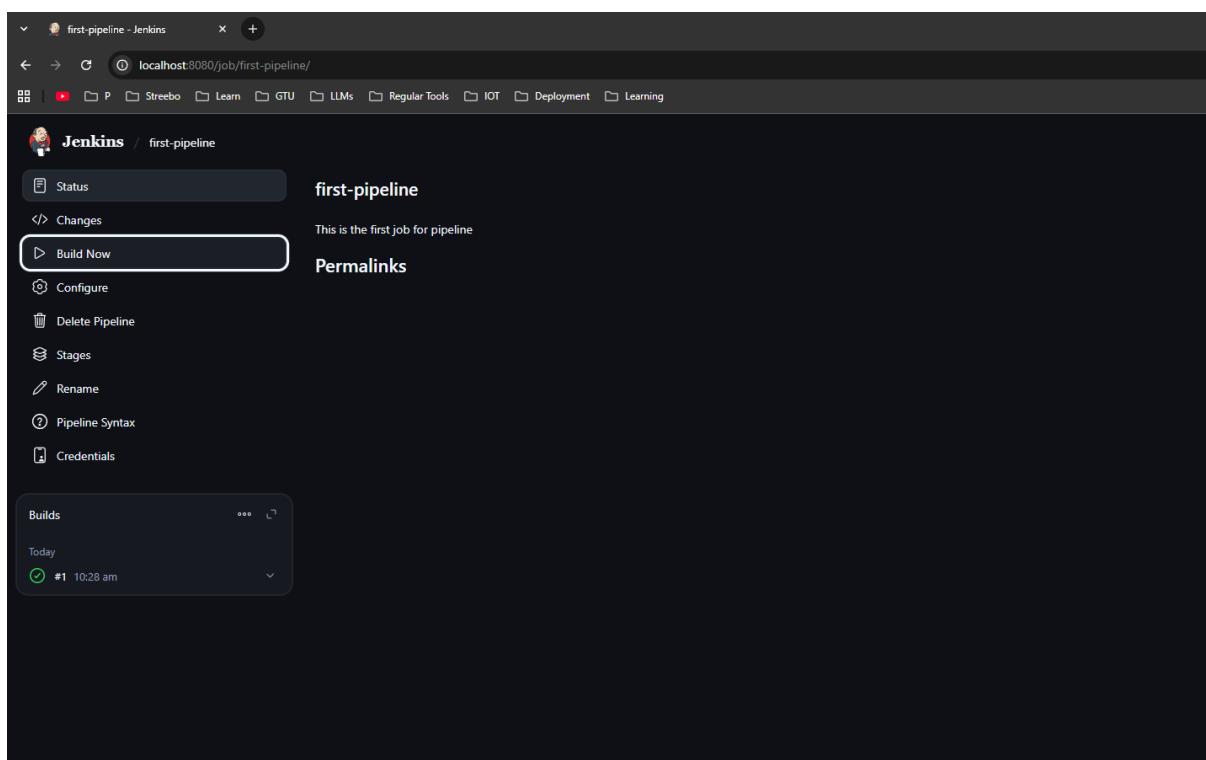
**first-pipeline**

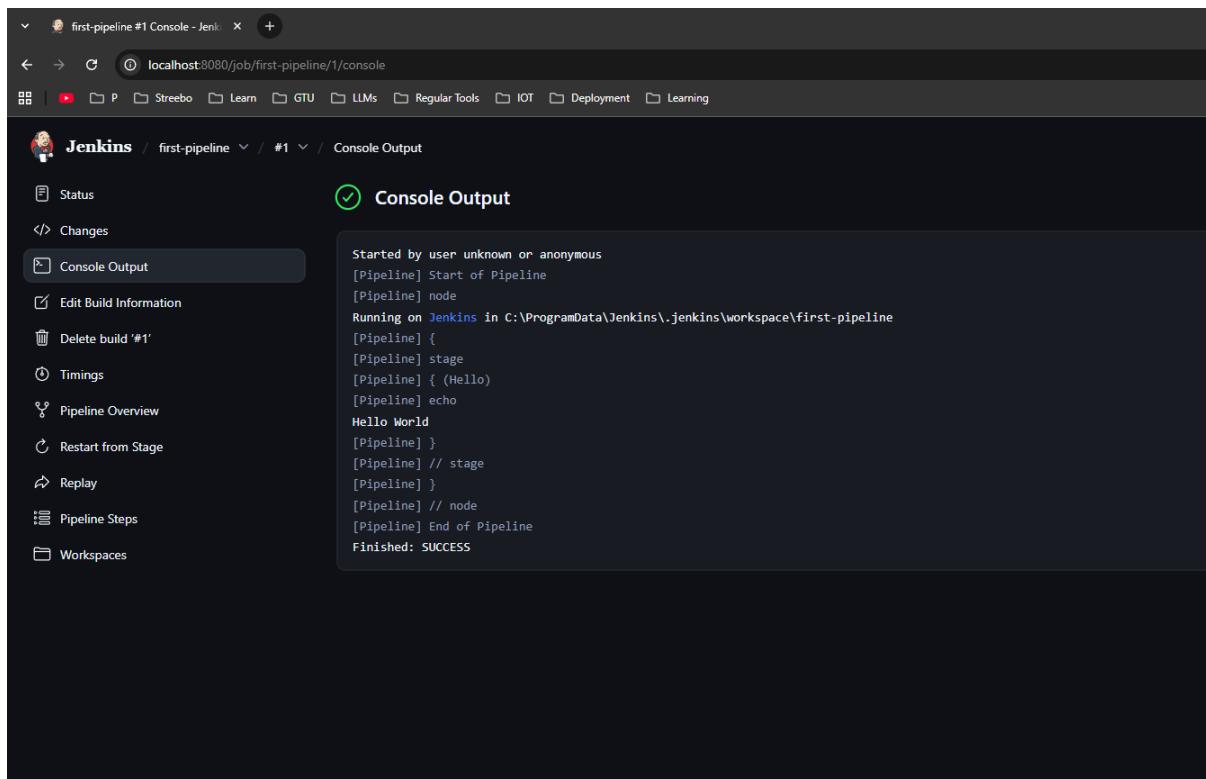
This is the first job for pipeline

Permalinks

Builds

Today #1 10:28 am





The screenshot shows the Jenkins configuration page for the 'first-pipeline' job. The left sidebar has links for General, Triggers, Pipeline (which is selected), and Advanced. The main area is titled 'Configure'.

**Script :**

```
1 v pipeline {
2   agent any
3
4   stages {
5     stage('Build') {
6       steps {
7         echo 'Building Project...'
8       }
9     }
10   }
11   stages {
12     stage('Test') {
13       steps {
14         echo 'Running Tests...'
15     }
16   }
17 }
```

**Advanced**

Use Groovy Sandbox ?

**Pipeline Syntax**

**Buttons:** Save, Apply

first-pipeline Config - Jenkins

localhost:8080/job/first-pipeline/configure

General Triggers Pipeline Advanced

Configure

Script

```
12 stage('Test') {  
13     steps {  
14         echo 'Running Tests...'  
15     }  
16 }  
17 stages {  
18     stage('Deploy') {  
19         steps {  
20             echo 'Deploying Application...'  
21         }  
22     }  
23 }  
24 }  
25 }  
26 }
```

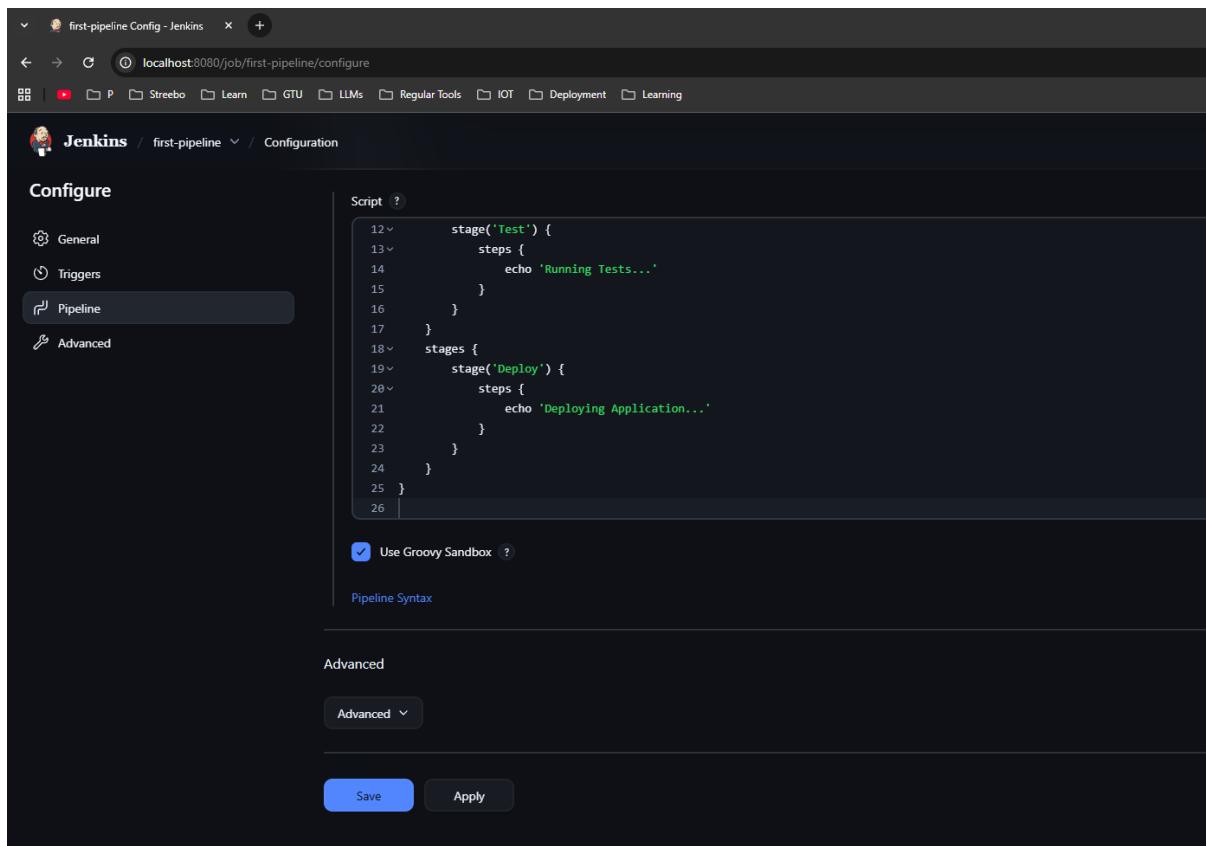
Use Groovy Sandbox

Pipeline Syntax

Advanced

Advanced

Save Apply



first-pipeline #2 Console - Jenkins

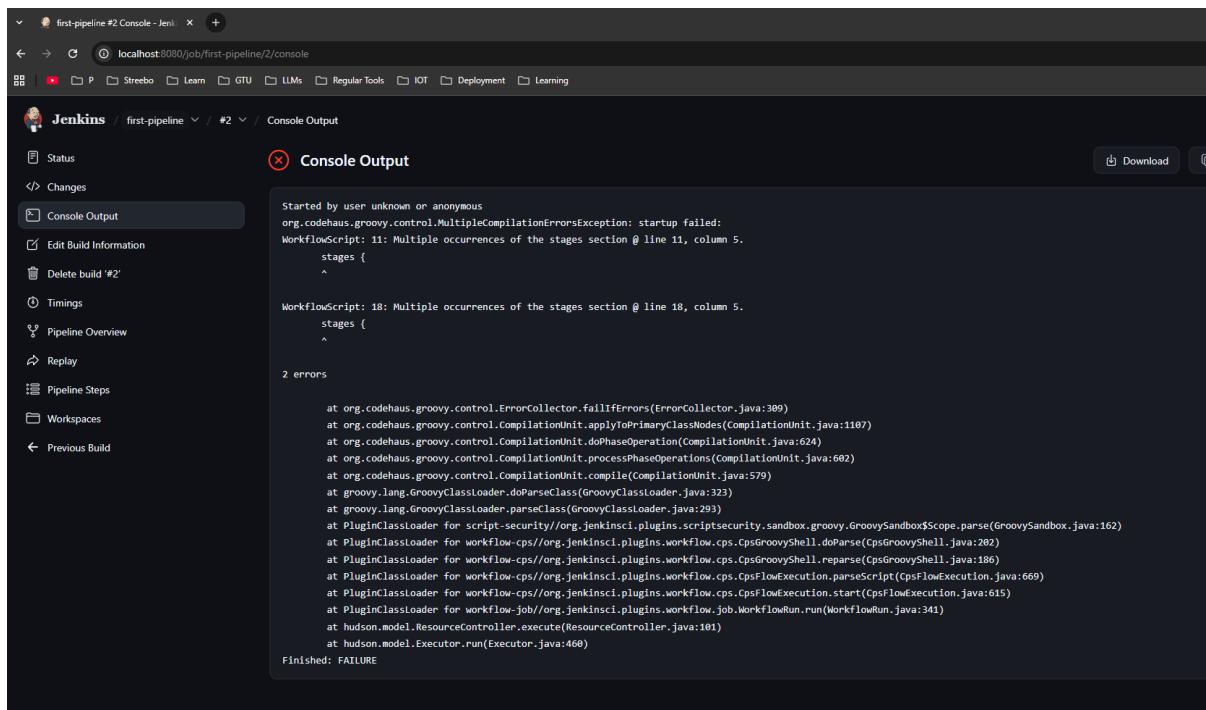
localhost:8080/job/first-pipeline/2/console

Status Changes Console Output Edit Build Information Delete build '#2' Timings Pipeline Overview Replay Pipeline Steps Workspaces Previous Build

Console Output

Started by user unknown or anonymous  
org.codehaus.groovy.control.MultipleCompilationErrorsException: startup failed:  
WorkflowScript: 11: Multiple occurrences of the stages section @ line 11, column 5.  
 stages {  
 ^  
  
WorkflowScript: 18: Multiple occurrences of the stages section @ line 18, column 5.  
 stages {  
 ^  
  
2 errors  
  
at org.codehaus.groovy.control.ErrorCollector.failIfErrors(ErrorCollector.java:309)  
at org.codehaus.groovy.control.CompilationUnit.applyPlugins(CompilationUnit.java:1107)  
at org.codehaus.groovy.control.CompilationUnit.doPhaseOperation(CompilationUnit.java:624)  
at org.codehaus.groovy.control.CompilationUnit.processPhasesOperations(CompilationUnit.java:602)  
at org.codehaus.groovy.control.CompilationUnit.compile(CompilationUnit.java:579)  
at groovy.lang.GroovyClassLoader.doParseClass(GroovyClassLoader.java:323)  
at groovy.lang.GroovyClassLoader.parseClass(GroovyClassLoader.java:293)  
at org.codehaus.groovy.control.ScriptProcessor\$1.run(ScriptProcessor.java:162)  
at PluginClassLoader for script-security/org.jenkinsci.plugins.scriptsecurity.sandbox.groovy.GroovySandbox\$Scope.parse(GroovySandbox.java:162)  
at PluginClassLoader for workflow-cps/org.jenkinsci.plugins.workflow.cps.CpsGroovyShell.doParse(CpsGroovyShell.java:202)  
at PluginClassLoader for workflow-cps/org.jenkinsci.plugins.workflow.cps.CpsGroovyShell.reparse(CpsGroovyShell.java:186)  
at PluginClassLoader for workflow-cps/org.jenkinsci.plugins.workflow.cps.CpsFlowExecution.parseScript(CpsFlowExecution.java:669)  
at PluginClassLoader for workflow-cps/org.jenkinsci.plugins.workflow.cps.CpsFlowExecution.start(CpsFlowExecution.java:615)  
at PluginClassLoader for workflow-job/org.jenkinsci.plugins.workflow.job.WorkflowRun.run(WorkflowRun.java:341)  
at hudson.model.ResourceController.execute(ResourceController.java:101)  
at hudson.model.Executor.run(Executor.java:468)

Finished: FAILURE



Jenkins / first-pipeline / Configuration

Configure

General Triggers Pipeline Advanced

Script ?

```
1 pipeline {  
2     agent any  
3     stages {  
4         stage('Build') {  
5             steps {  
6                 echo 'Building Project...'  
7             }  
8         }  
9         stage('Test') {  
10            steps {  
11                echo 'Running Tests...'  
12            }  
13        }  
14     }  
15     stage('Deploy') {  
16         steps {  
17             echo 'Deploying Application...'  
18         }  
19     }  
20 }
```

try sample Pipeline...

Use Groovy Sandbox ?

Pipeline Syntax

Advanced

Advanced

Jenkins / first-pipeline / Configuration

Configure

General Triggers Pipeline Advanced

Script ?

```
8     }  
9 }  
10 stage('Test') {  
11    steps {  
12        echo 'Running Tests...'  
13    }  
14 }  
15 stage('Deploy') {  
16    steps {  
17        echo 'Deploying Application...'  
18    }  
19 }  
20 }  
21 }  
22 |
```

Use Groovy Sandbox ?

Pipeline Syntax

Advanced

Advanced

The screenshot shows the Jenkins interface for a job named "first-pipeline". The build number is "#3". The "Console Output" tab is selected. The output log is displayed in a monospaced font:

```
Started by user unknown or anonymous
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\.jenkins\workspace\first-pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] echo
Building Project...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] echo
Running Tests...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
Deploying Application...
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```