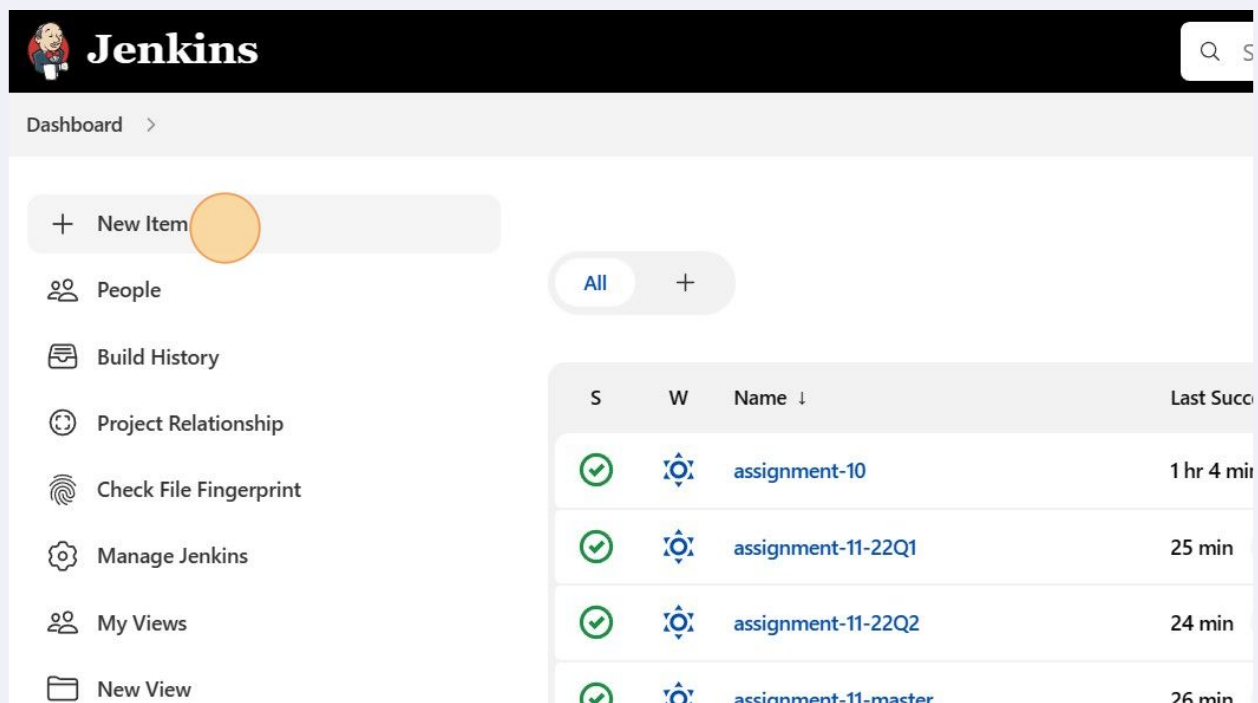


Workflow

stage1-install httpd, stage2-start service, stage3- deploy to httpd

1 Navigate to 13.234.38.99:8080/jenkins

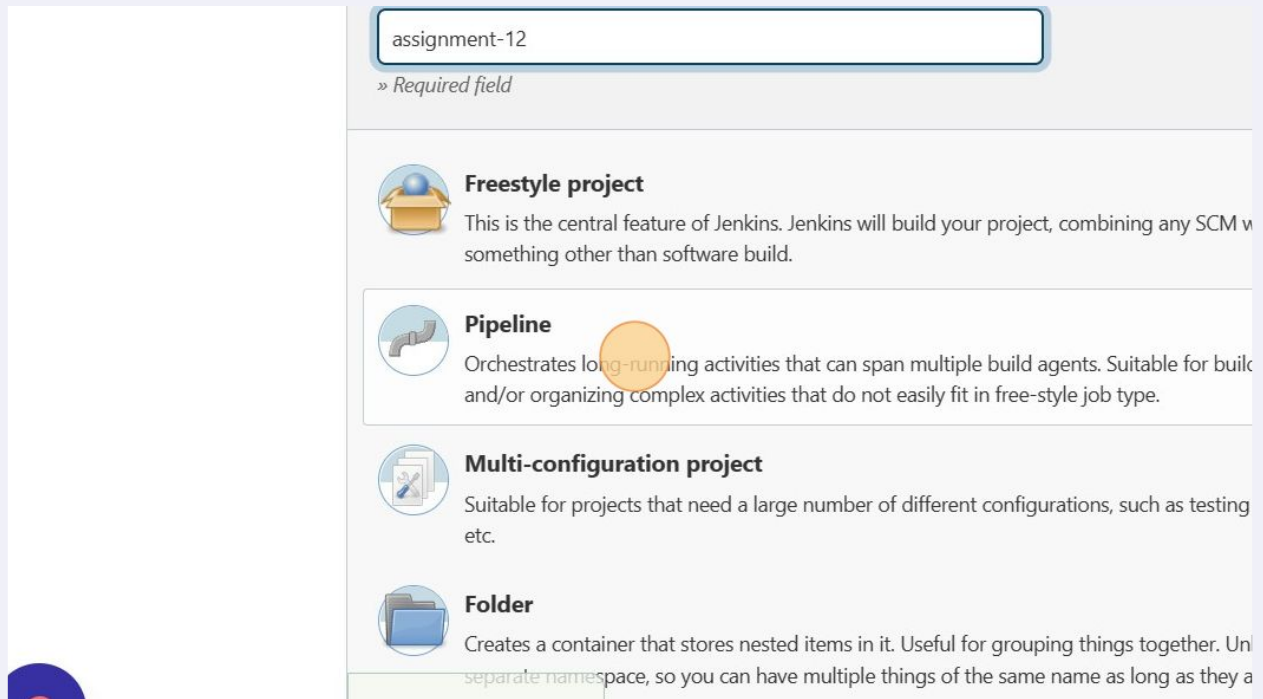
2 Click "New Item"



3 Type "as12"

4

Click "Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or o..."



assignment-12

» Required field

Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with something other than software build.

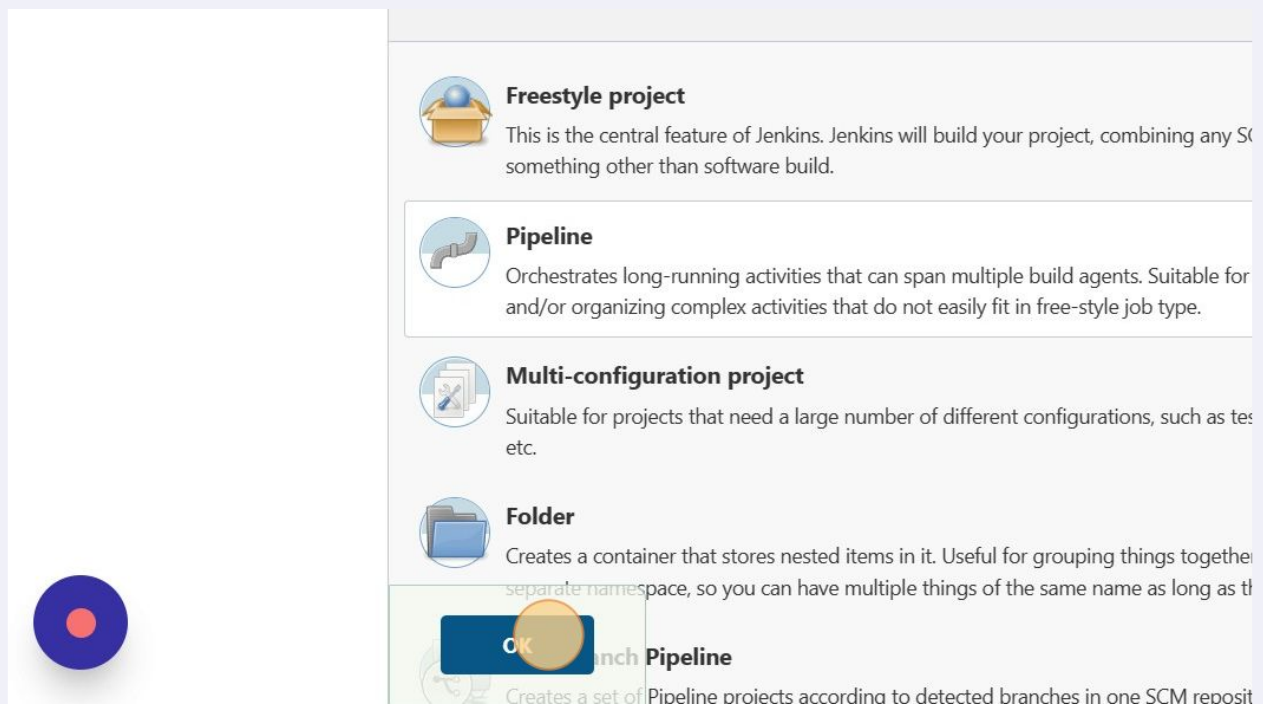
Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing etc.

Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike separate namespaces, so you can have multiple things of the same name as long as they are in different folders.

5

Click "OK"



Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with something other than software build.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building and/or organizing complex activities that do not easily fit in free-style job type.

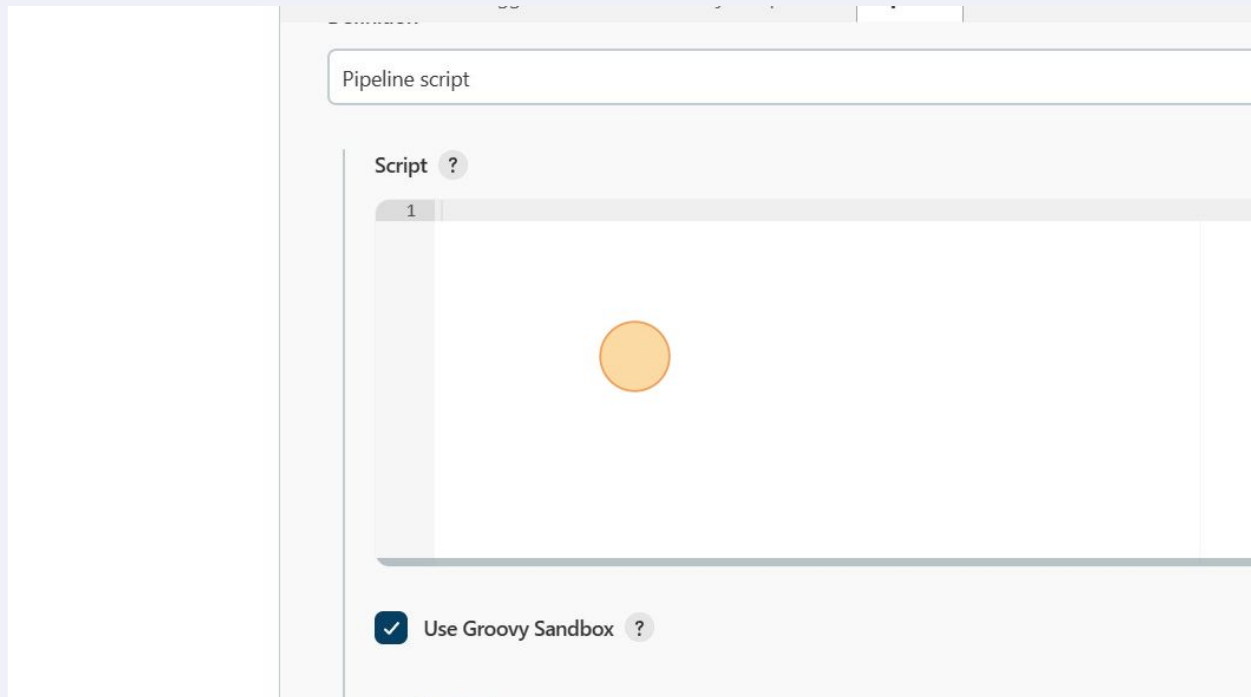
Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing etc.

Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike separate namespaces, so you can have multiple things of the same name as long as they are in different folders.

OK

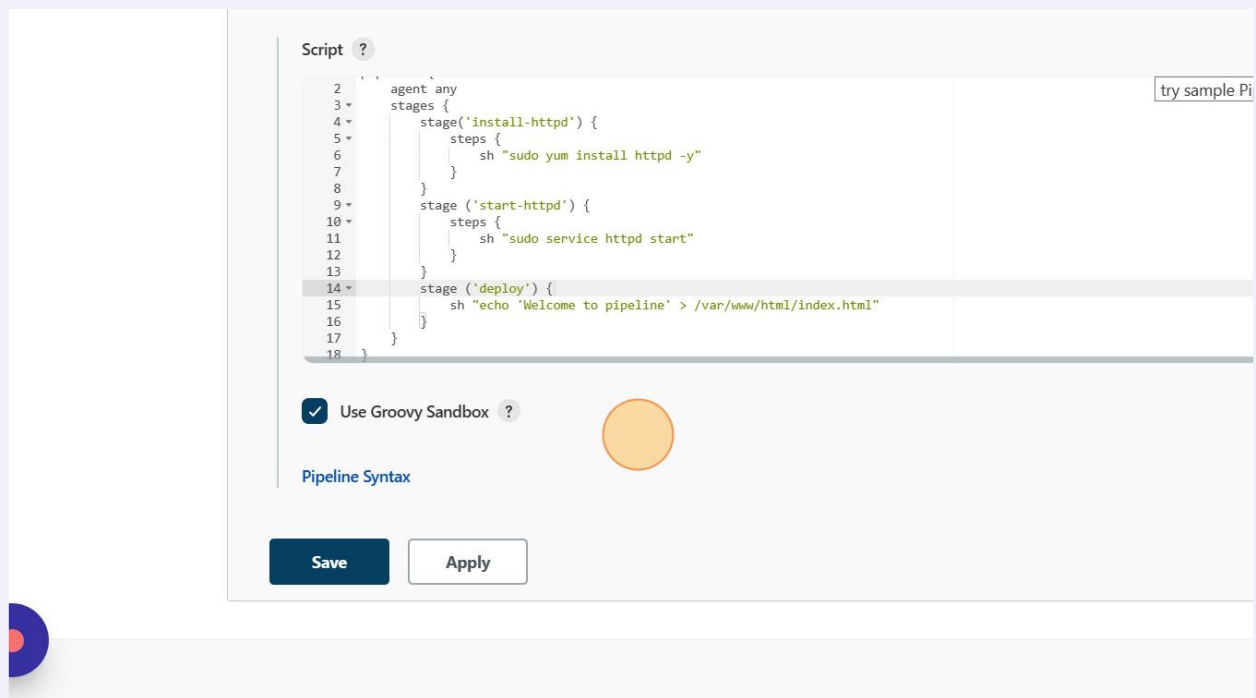
Branch Pipeline
Creates a set of Pipeline projects according to detected branches in one SCM repository.

6 Click here.



7 Type "pipeline {}
stage() {
 install-httpd
}
agent any
stages {
 stage() {
 install-httpd
 }
 str
 eps {
 sh '''
 yum install httpd -y
 '''
 }
 start-httpd
}
steps {
 sh '''
 sudo service httpd start
 '''
 stage() {
 deploy
 }
 sh '''
 sudo chmod -R 777 /var
 '''
}

8 Click here.



Script ?

```
2 agent any
3 stages {
4   stage('install-httpd') {
5     steps {
6       sh "sudo yum install httpd -y"
7     }
8   }
9   stage('start-httpd') {
10    steps {
11      sh "sudo service httpd start"
12    }
13  }
14  stage('deploy') {
15    sh "echo 'Welcome to pipeline' > /var/www/html/index.html"
16  }
17 }
18 }
```

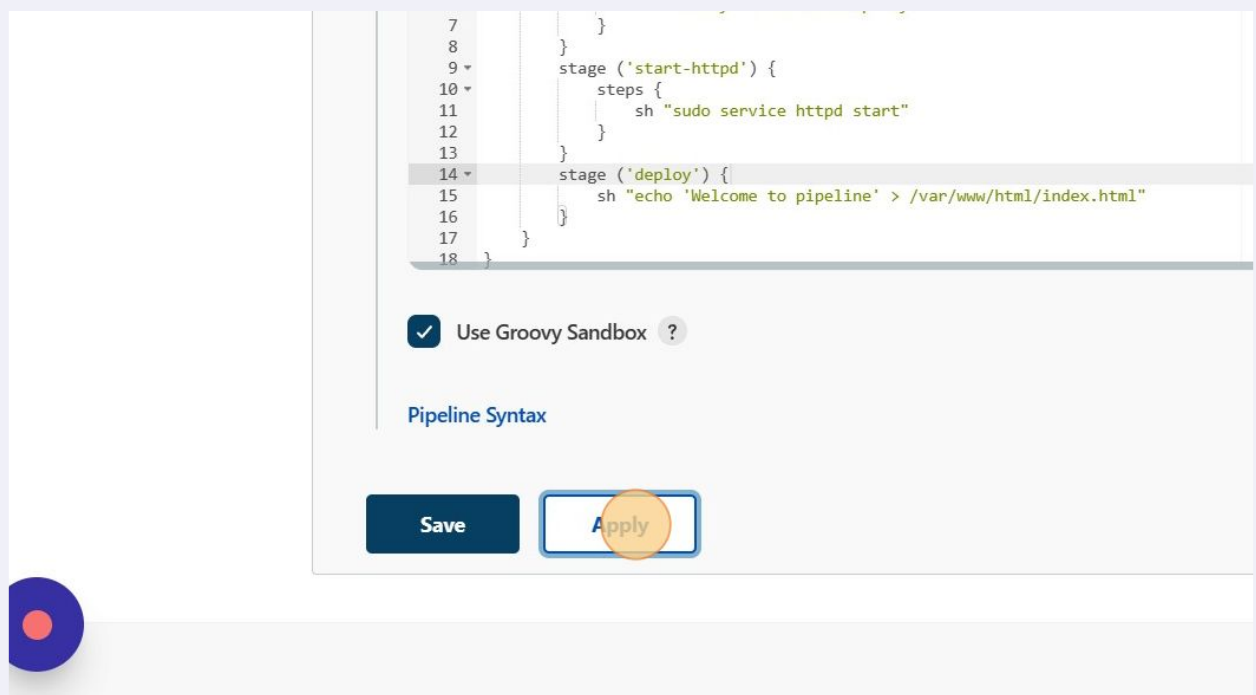
try sample Pi

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save Apply

9 Click "Apply"



7 }
8 }
9 stage('start-httpd') {
10 steps {
11 sh "sudo service httpd start"
12 }
13 }
14 stage('deploy') {
15 sh "echo 'Welcome to pipeline' > /var/www/html/index.html"
16 }
17 }
18 }

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save Apply

10 Click "Save"

```
7      }
8    }
9    stage ('start-httpd') {
10     steps {
11       sh "sudo service httpd start"
12     }
13   }
14   stage ('deploy') {
15     sh "echo 'Welcome to pipeline' > /var/www/html/index.html"
16   }
17 }
18 }
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save **Apply**

11 Click "Build Now"

Dashboard > assignment-12 >

↑ Back to Dashboard

Pipeline assignment-12

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

Recent Changes

Stage View

No data available. This Pipeline has not yet run.

Permalinks

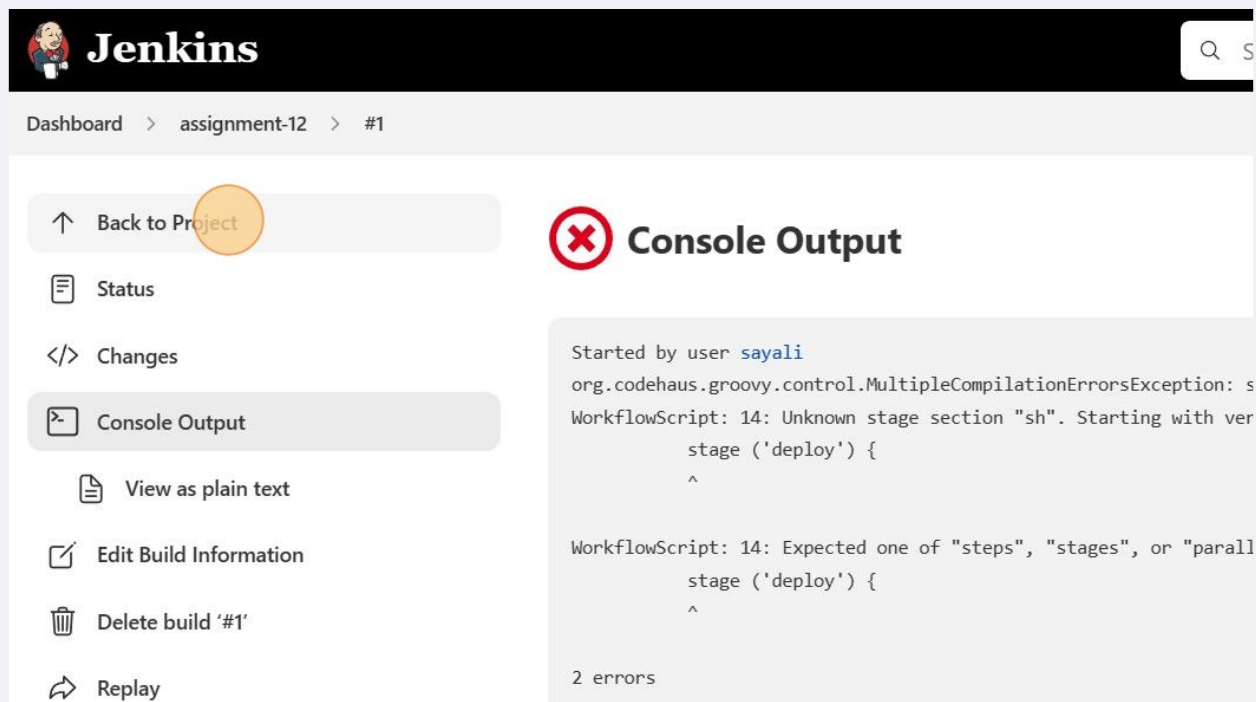
12 Click "Dec 21, 2022 6:41 PM"

The screenshot shows the 'Build Now' interface. On the left, there is a sidebar with options: 'Build Now', 'Configure', 'Delete Pipeline', 'Full Stage View', 'Rename', and 'Pipeline Syntax'. The main area is titled 'Stage View' and contains a message: 'No data available. This Pipeline has not yet run.' Below this, there is a 'Permalinks' section. At the bottom, the 'Build History' section is visible, showing a list of builds. The first build, labeled '#1', is highlighted with a blue circle and an orange circle. The build entry shows the date and time 'Dec 21, 2022 6:41 PM' and a status icon (a red circle with a white 'X'). A tooltip for this build shows 'Took 78 ms' and 'eed for failures'. A search bar labeled 'Filter builds...' is also present.

13 Click "Console Output"

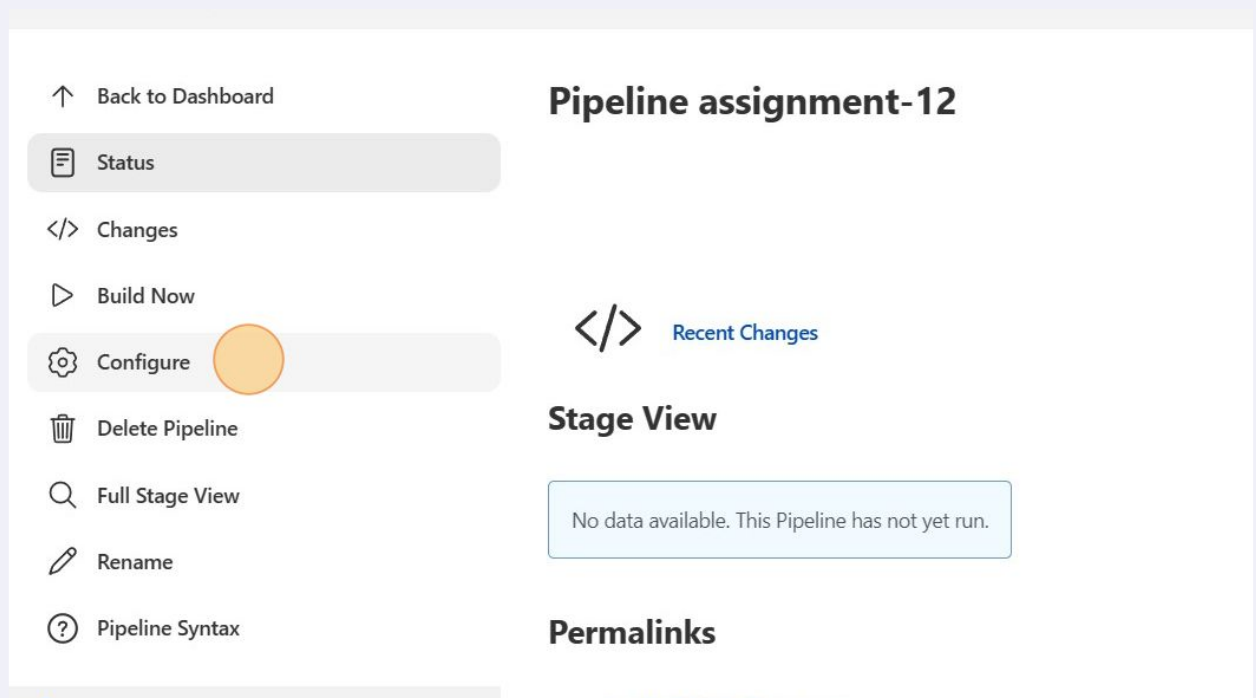
The screenshot shows the 'Build #1 (Dec 21, 2022 6:41:57 PM)' console output page. The page has a breadcrumb trail: 'Dashboard > assignment-12 > #1'. On the left, there is a sidebar with options: 'Back to Project', 'Status', 'Changes', 'Console Output' (highlighted with an orange circle), 'Edit Build Information', 'Delete build '#1'', 'Replay', 'Pipeline Steps', and 'Workspaces'. The main area shows the build status as 'Build #1 (Dec 21, 2022 6:41:57 PM)' with a red circle and a white 'X' icon. Below this, it says 'Started by user sayali' with a user icon. The console output area is currently empty.

14 Click "Back to Project"



The screenshot shows the Jenkins interface for a build named 'assignment-12' with build number '#1'. The left sidebar contains several links: 'Back to Project' (highlighted with an orange circle), 'Status', 'Changes', 'Console Output', 'View as plain text', 'Edit Build Information', 'Delete build '#1'', and 'Replay'. The main content area is titled 'Console Output' with a red error icon. It displays a Groovy error message: 'org.codehaus.groovy.control.MultipleCompilationErrorsException: s WorkflowScript: 14: Unknown stage section "sh". Starting with ver stage ('deploy') { ^'. Below the error, it says 'WorkflowScript: 14: Expected one of "steps", "stages", or "parall stage ('deploy') { ^' and '2 errors'.

15 Click "Configure"



The screenshot shows the Jenkins interface for a pipeline named 'Pipeline assignment-12'. The left sidebar contains several links: 'Back to Dashboard', 'Status', 'Changes', 'Build Now', 'Configure' (highlighted with an orange circle), 'Delete Pipeline', 'Full Stage View', 'Rename', and 'Pipeline Syntax'. The main content area is titled 'Pipeline assignment-12' and shows a 'Recent Changes' section with a code icon. Below this is a 'Stage View' section with a message: 'No data available. This Pipeline has not yet run.' At the bottom, there is a 'Permalinks' section.

16

[Click here.](#)



17

```
Type " [[enter]] steps { [[down]] [[down]] [[right]] [[up]] [[enter]] [[up]] [[right]]
[[right]] [[up]] [[tab]] [[tab]] [[tab]] { [[Backspace]] }"
```


18 Click here.

```
7      }
8    }
9    stage ('start-httpd') {
10      steps {
11        sh "sudo service httpd start"
12      }
13    }
14    stage ('deploy') {
15      steps {
16        sh "echo 'Welcome to pipeline' > /var/www/html/index.html"
17      }
18    }
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save **Apply**

19 Click "Apply"

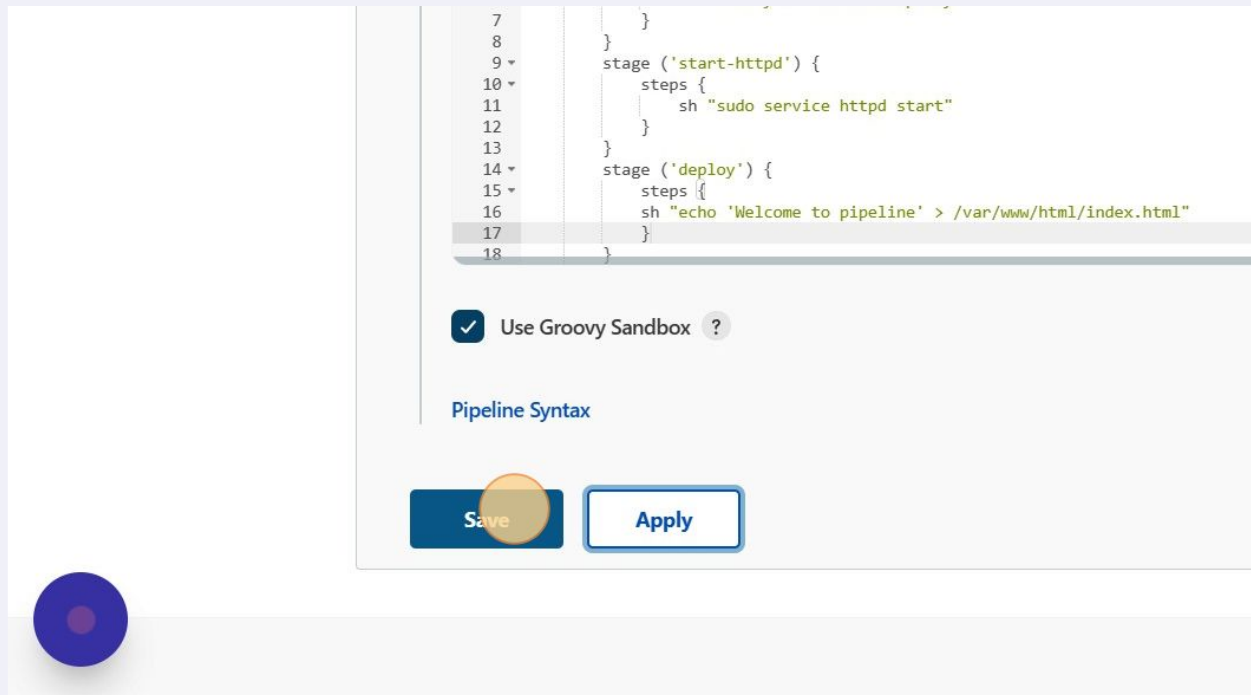
```
7      }
8    }
9    stage ('start-httpd') {
10      steps {
11        sh "sudo service httpd start"
12      }
13    }
14    stage ('deploy') {
15      steps {
16        sh "echo 'Welcome to pipeline' > /var/www/html/index.html"
17      }
18    }
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save **Apply**

20 Click "Save"



The screenshot shows a code editor with Groovy pipeline syntax. The code defines two stages: 'start-http' and 'deploy'. The 'start-http' stage has a step to start the httpd service. The 'deploy' stage has a step to echo a message and write it to an HTML file. Below the code editor, there is a checkbox labeled 'Use Groovy Sandbox' which is checked. At the bottom, there are two buttons: 'Save' and 'Apply'. The 'Save' button is highlighted with a blue circle.

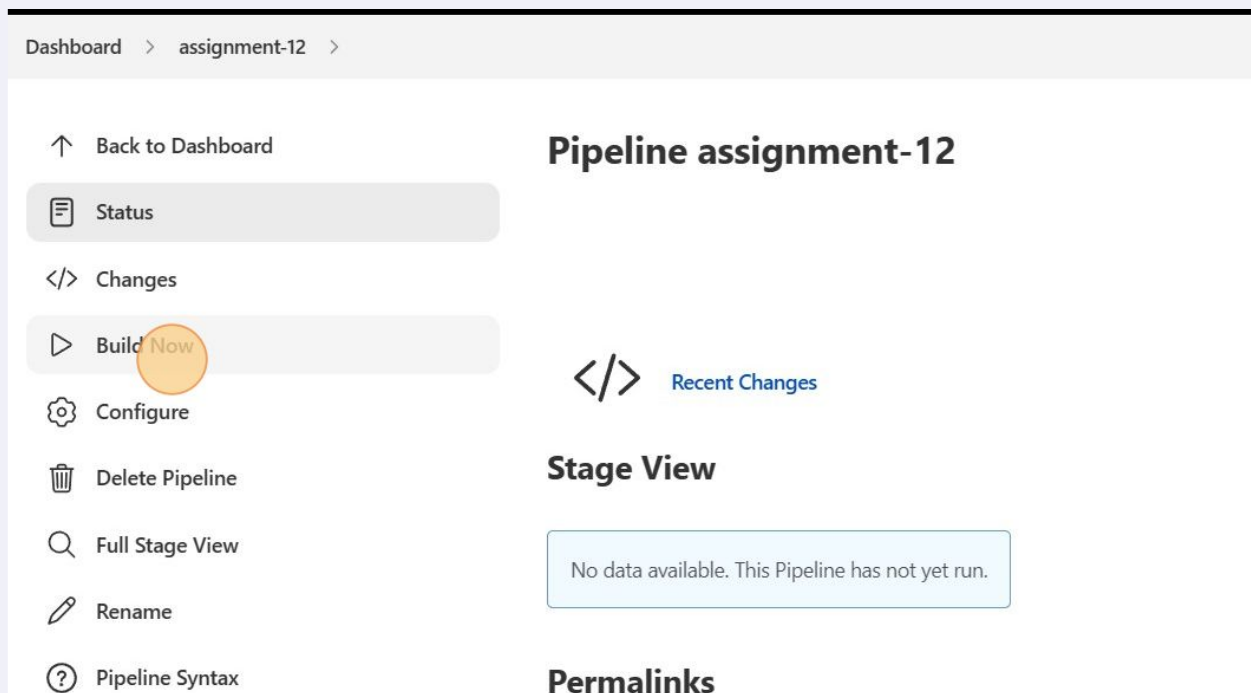
```
7      }
8    }
9    stage ('start-http') {
10     steps {
11       sh "sudo service httpd start"
12     }
13   }
14   stage ('deploy') {
15     steps {
16       sh "echo 'Welcome to pipeline' > /var/www/html/index.html"
17     }
18   }
```

☒ Use Groovy Sandbox ?

Pipeline Syntax

Save Apply

21 Click "Build Now"



The screenshot shows the 'Pipeline assignment-12' dashboard. On the left, there is a sidebar with navigation links: 'Back to Dashboard', 'Status', 'Changes', 'Build Now' (highlighted with a blue circle), 'Configure', 'Delete Pipeline', 'Full Stage View', 'Rename', and 'Pipeline Syntax'. The main content area has a title 'Pipeline assignment-12' and a 'Recent Changes' section with a code icon. Below that is a 'Stage View' section with a message: 'No data available. This Pipeline has not yet run.' At the bottom, there is a 'Permalinks' section.

Dashboard > assignment-12 >

↑ Back to Dashboard

📄 Status

</> Changes

▶ Build Now

⚙️ Configure

🗑️ Delete Pipeline

🔍 Full Stage View

✎ Rename

❓ Pipeline Syntax

Pipeline assignment-12

</> Recent Changes

Stage View

No data available. This Pipeline has not yet run.

Permalinks

22 Click "Dec 21, 2022 6:42 PM"

The screenshot shows the Jenkins Pipeline View interface. On the left, a sidebar contains links: Build Now, Configure, Delete Pipeline, Full Stage View, Rename, and Pipeline Syntax. Below this is the Build History section, which includes a search bar and a list of builds. Build #2 is highlighted with a blue circle and an orange circle, indicating the selected build. The main area displays the Stage View for the selected build, showing a table of stages and their durations. The stages are 'install-httpd' (4s) and 'start-httpd' (1s). The average stage times are 4s and 1s, respectively. The average full run time is approximately 8s. The build status is 'No Changes'.

Stage	Duration
install-httpd	4s
start-httpd	1s

Average stage times:
(Average full run time: ~8s)

Build #2: Dec 21, 2022 6:42 PM, No Changes

Build #1: Dec 21, 2022 6:41 PM, No Changes

23 Click "Console Output"

The screenshot shows the Jenkins Build #2 Console Output view. The top navigation bar includes 'Dashboard > assignment-12 > #2'. The main area displays the build status as 'Build #2 (Dec 21, 2022 6:42:39 PM)' with a green checkmark icon. Below the status, there is a section for 'Started by user sayali' with a clock icon. On the left, a sidebar contains links: Back to Project, Status, Changes, Console Output (highlighted with an orange circle), Edit Build Information, Delete build '#2', Restart from Stage, and Replay.

Dashboard > assignment-12 > #2

Build #2 (Dec 21, 2022 6:42:39 PM)

Started by user [sayali](#)

Back to Project

Status

Changes

Console Output

Edit Build Information

Delete build '#2'

Restart from Stage

Replay

24 Switch to tab "sample-app/index.html at 22Q2 · sayalip848/sample-app"

25 Switch to tab "Instances | EC2 Management Console"

26 Click this checkbox.

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, a 'Services' menu, a search bar, and a keyboard shortcut '[Alt+S]'. Below the navigation bar, there are icons for various services: EC2, VPC, EFS, S3, IAM, CloudWatch, and Simple Notification Service. On the left side, there is a sidebar with a 'New EC2 Experience' toggle and a list of navigation items: EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and a collapsed 'Instances' section. The main content area is titled 'Instances (1/4) Info' and features a search bar with the placeholder text 'Find instance by attribute or tag (case-sensitive)'. Below the search bar is a table with the following columns: Name, Instance ID, Instance state, and Instance type. The table contains four rows of data:

Name	Instance ID	Instance state	Instance type
jenkins-master	i-02ece85701be7aec8	Running	t2.mic
slave	i-0ad0b017bcfe11690	Running	t2.mic
salve	i-08485a8c7870f960b	Terminated	t2.mic
slave2	i-03e20740ad29f280b	Running	t2.mic

The 'slave' instance is highlighted with a blue background, and its checkbox is circled in red. Below the table, there is a section titled 'Instance: i-0ad0b017bcfe11690 (slave)' with tabs for 'Details', 'Security', 'Networking', 'Storage', 'Status checks', and 'Monitoring'.

27 Click this checkbox.

The screenshot shows the AWS Management Console interface. On the left, there's a navigation menu with options like 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', and 'Instances'. The 'Instances' section is expanded, showing a list of instances. The 'jenkins-master' instance is selected, and its checkbox is highlighted with an orange circle. The instance details show it is in a 'Running' state.

Name	Instance ID	Instance state	Instance type
jenkins-master	i-02ece85701be7aec8	Running	t2.micro
slave	i-0ad0b017bcfe11690	Running	t2.micro
salve	i-08485a8c7870f960b	Terminated	t2.micro
slave2	i-03e20740ad29f280b	Running	t2.micro

28 Click here.

The screenshot shows the details of the 'jenkins-master' instance. The 'Public IPv4 address' is highlighted with an orange circle. The instance is in a 'Running' state. The details section shows the instance ID, public IPv4 address, instance state, and private IP DNS name.

Details	Security	Networking	Storage	Status checks	Monitoring	Tags
Instance: i-02ece85701be7aec8 (jenkins-master)						
Instance summary						
Instance ID	Public IPv4 address		Private IPv4 address		Public IPv6 address	
i-02ece85701be7aec8 (jenkins-master)	13.234.38.99 open address		i-02ece85701be7aec8 (jenkins-master)		Public IPv6 address	
IPv6 address	Instance state		Private IP DNS name (IPv4 only)		Public IPv6 address	
-	Running		ip-172-31-34-123.ap-south-1.compute.internal		Public IPv6 address	
Hostname type	Private IP DNS name (IPv4 only)		Private IP DNS name (IPv4 only)		Public IPv6 address	
IP name: ip-172-31-34-123.ap-south-1.compute.internal	ip-172-31-34-123.ap-south-1.compute.internal		ip-172-31-34-123.ap-south-1.compute.internal		Public IPv6 address	

29 Switch to tab "New tab"

30 Click "Back to Project"

The screenshot shows the Jenkins web interface. At the top is the Jenkins logo and a search bar. Below the header is a breadcrumb trail: Dashboard > assignment-12 > #2. On the left side, there is a sidebar with several buttons: 'Back to Project' (with an upward arrow icon), 'Status' (with a list icon), 'Changes' (with a code icon), 'Console Output' (with a terminal icon), 'View as plain text' (with a document icon), 'Edit Build Information' (with a pencil icon), 'Delete build '#2'' (with a trash icon), and 'Restart from Stage' (with a circular arrow icon). The 'Back to Project' button is highlighted with an orange circle. The main area on the right is titled 'Console Output' with a green checkmark icon. It displays the following text: 'Started by user sayali', '[Pipeline] Start of Pipeline', '[Pipeline] node', 'Running on Jenkins in /root/.jenkins/workspace/assignment-12', '[Pipeline] {', '[Pipeline] stage', '[Pipeline] { (install-httpd)', '[Pipeline] sh', '+ sudo yum install httpd -y', 'Loaded plugins: extras_suggestions, langpacks, priorities, update', and 'Resolving Dependencies'.

31 Click "Configure"

↑ Back to Dashboard

Pipeline assignment-12

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

Recent Changes

Stage View

Average stage times:
(Average full run time: ~8s)

	install-httpd	start-httpd
	4s	1s
#2	4s	1s

Dec 21 18:42 No Changes

Build History trend ▾

32 Click here.

Script ?

```
1 pipeline {
2   agent any
3   stages {
4     stage('install-httpd') {
5       steps {
6         sh "sudo yum install httpd -y"
7       }
8     }
9     stage('start-httpd') {
10      steps {
11        sh "sudo service httpd start"
12      }
13    }
14    stage('deploy') {
15      steps {
16        sh "echo 'Welcome to pipeline' > /var/www/html/index.html"
17      }
18    }
19  }
20 }
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save **Apply**

33

Type " `sh "" sudo chmod -R 777 /var /www/html` " `[[Backspace]] /www/html`

34

Click "Apply"

The screenshot shows a Jenkins pipeline configuration interface. The main area displays a Groovy script for a pipeline with two stages: 'start-httpd' and 'deploy'. The 'start-httpd' stage contains a step to start the httpd service. The 'deploy' stage contains two steps: one to set permissions on the web directory and another to create a welcome message file. Below the script, there is a checkbox labeled 'Use Groovy Sandbox' which is checked. At the bottom, there are two buttons: 'Save' and 'Apply'. The 'Apply' button is highlighted with a blue border and a yellow circle, indicating it is the target for the next action.

```
6       sh "sudo yum install httpd -y"
7     }
8   }
9   stage ('start-httpd') {
10     steps {
11       sh "sudo service httpd start"
12     }
13   }
14   stage ('deploy') {
15     steps {
16       sh "sudo chmod -R 777 /var/www/html"
17       sh "echo 'Welcome to pipeline' > /var/www/html/index.html"
```

☒ Use Groovy Sandbox ?

Pipeline Syntax

Save Apply

35 Click "Save"

```
6      sh "sudo yum install httpd -y"
7    }
8  }
9  stage ('start-httpd') {
10    steps {
11      sh "sudo service httpd start"
12    }
13  }
14  stage ('deploy') {
15    steps {
16      sh "sudo chmod -R 777 /var/www/html"
17      sh "echo 'Welcome to pipeline' > /var/www/html/index.html"
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save **Apply**

36 Click "Build Now"

Dashboard > assignment-12 >

↑ Back to Dashboard

Pipeline assignment-12

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

[Recent Changes](#)

Stage View

	install-httpd	start-httpd
Average stage times: (Average <u>full</u> run time: ~8s)	4s	1s

37 Click "Welcome to pipeline"

Welcome to pipeline

38 Click "Welcome to pipeline"

Welcome to pipeline