

Lab manual – Jenkins First Job

Objective.

To create an Job that need to be executed every 3 min.

Action performed – on the linux Jenkins master server.

```
cd /
```

```
cd sbin
```

```
ls -l
```

Steps:


1. Create the Job
2. Trigger the JOB manually.
3. See the outputs.
4. Check the workspace.
5. Stop the Builds.
6. Delete the builds
7. Delete the project

Step1: - Create the Job


Jenkins »

Enter an item name


» Required field




Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.




Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) 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 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 namespace, so you can have multiple things of the same name as long as they are in different folders.



GitHub Organization
Scans a GitHub organization (or user account) for all repositories matching some defined markers.



Multibranch Pipeline

Click on “OK”

proj1 »

General | Source Code Management | Build Triggers | Build Environment | Build | Post-build Actions

Description

[Plain text] [Preview](#)

☐ Discard old builds

☐ GitHub project


☐ This build requires lockable resources


☐ This project is parameterized


☐ Throttle builds


☐ Disable this project


☐ Execute concurrent builds if necessary











Source Code Management

☒ None

☐ Git

☐ Subversion

Build Triggers

☐ Trigger builds remotely (e.g., from scripts)

☐ Build after other projects are built

☒ Build periodically

Schedule

Would last have run at Tuesday, January 29, 2019 11:51:21 AM EST; would next run at Tuesday, January 29, 2019 11:51:21 AM EST.

☐ GitHub hook trigger for GITScm polling

☐ Poll SCM

Build Environment

☒ Delete workspace before build starts

☐ Use secret text(s) or file(s)

☐ Abort the build if it's stuck

☐ Add timestamps to the Console Output

☐ With Ant

Advanced...

In the Build Env, “We would be deleting workspace before build starts”.

Build

Execute shell

Command

```
cd /  
ls  
|  
cd dev  
ls
```

[See the list of available environment variables](#)

Adv


Add build step ▾


We would be creating an build with above Shell commands to be executed on the Jenkins master itself.


Click on “Save”.


It would take you to the below page.


Jenkins ▾ ▶ proj1 ▶


 Back to Dashboard


 Status


 Changes


 Workspace



 Build Now

 Delete Project

 Configure


 Rename


 Build History trend ▾

 [RSS for all](#)  [RSS for failures](#)

Project proj1

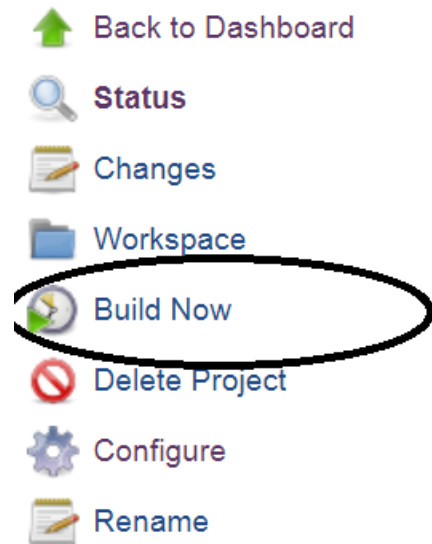
First Job --

 [Workspace](#)

 [Recent Changes](#)


Permalinks


Step2: Trigger the JOB manually.





Click on 'Build now" to trigger the JOB manually.


Jenkins ▶ proj1 ▶ #3


 Back to Project


 Status


 Changes


 **Console Output**

 View as plain text

 Edit Build Information

 Delete Build

 Previous Build



 **Console Output**


Started by user [vishwa](#)
Building in workspace /var/lib/jenkins/workspace/proj1
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] Done
[proj1] \$ /bin/sh -xe /tmp/jenkins5910286284532191335.sh
+ cd /
+ ls
bin
boot
dev
etc
home
lib
lib64
media
mnt
opt
proc
root
run
sbin
srv
sys




This is output of the Build that was created manually.



Step3: See the outputs.

As we have scheduled the build for this job to be 5 min. Below its visible that the job is created automatically.

 **Build History** [trend](#) 



 #3	Jan 29, 2019 12:02 PM
 #2	Jan 29, 2019 12:01 PM
 #1	Jan 29, 2019 11:56 AM

 [RSS for all](#)  [RSS for failures](#)


Jenkins > proj1 > #2

 [Back to Project](#)

 [Status](#)

 [Changes](#)

 **Console Output**

 [View as plain text](#)

 [Edit Build Information](#)

 [Delete Build](#)

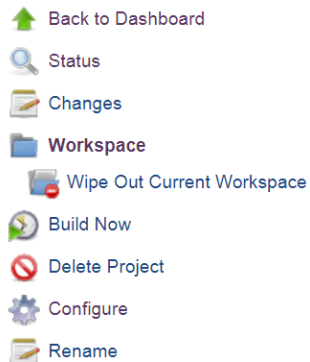
 [Previous Build](#)

 [Next Build](#)

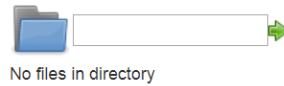
Console Output

```
Started by timer
Building in workspace /var/lib/jenkins/workspace/proj1
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] Done
[proj1] $ /bin/sh -xe /tmp/jenkins6769445414944444957.sh
+ cd /
+ ls
bin
boot
dev
etc
home
lib
lib64
media
mnt
```

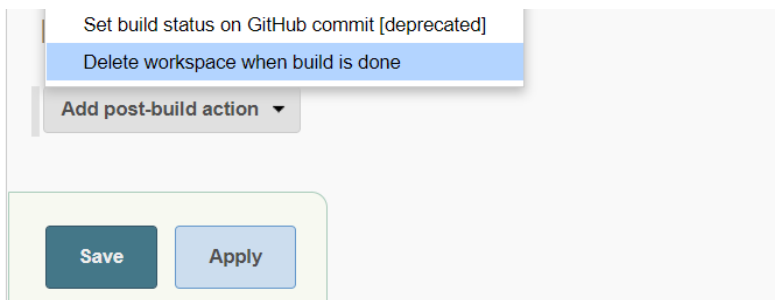
Step4: Check the workspace.



Workspace of proj1 on master

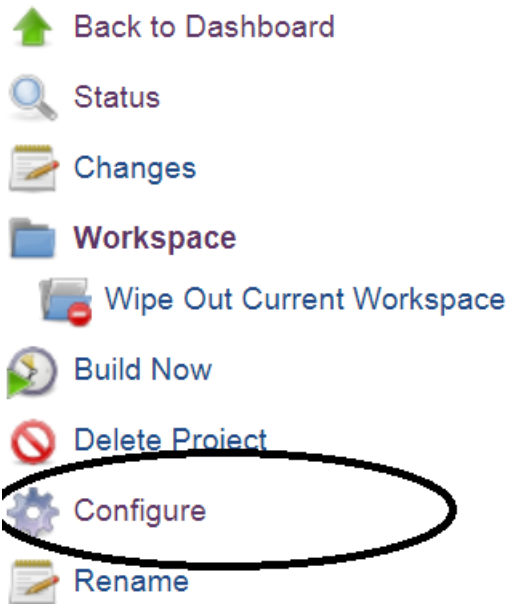


The workspace is the collective of all the temp files that is used during the Build.

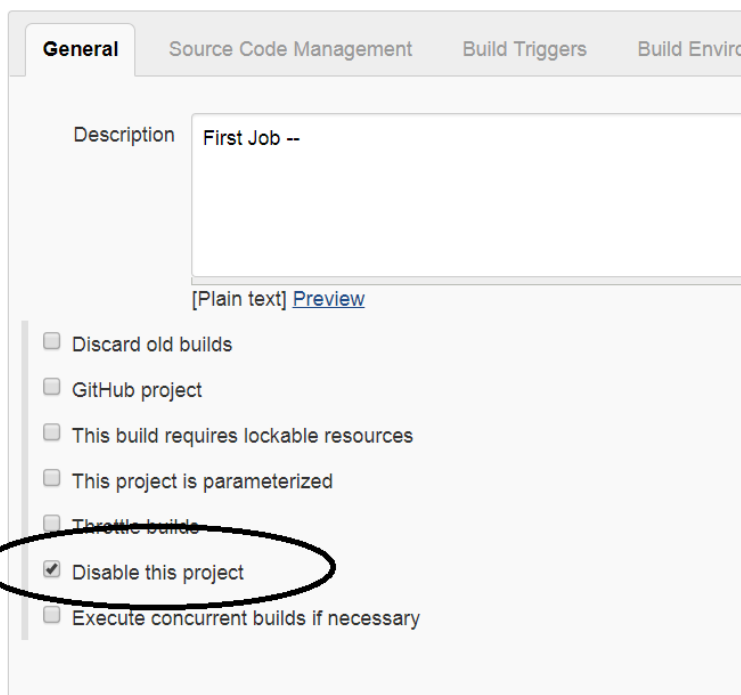


The above image shows, that the workspace for this build would be deleted once the build is complete. Wheather success or Failure.

Step5: Stop the Builds.



Click on the **“Configure”** under the Project.



Put a tick on the **“Disable this project”**. To stop the project , click Save.

Project proj1

First Job --

This project is currently disabled [Enable](#)

[Workspace](#)

[Recent Changes](#)

Build History [trend](#)

	find	X
#4	Jan 29, 2019 12:06 PM	
#3	Jan 29, 2019 12:02 PM	
#2	Jan 29, 2019 12:01 PM	

Permalinks

- [Last build \(#4\), 4 min 5 sec ago](#)
- [Last stable build \(#4\), 4 min 5 sec ago](#)
- [Last successful build \(#4\), 4 min 5 sec ago](#)
- [Last completed build \(#4\), 4 min 5 sec ago](#)

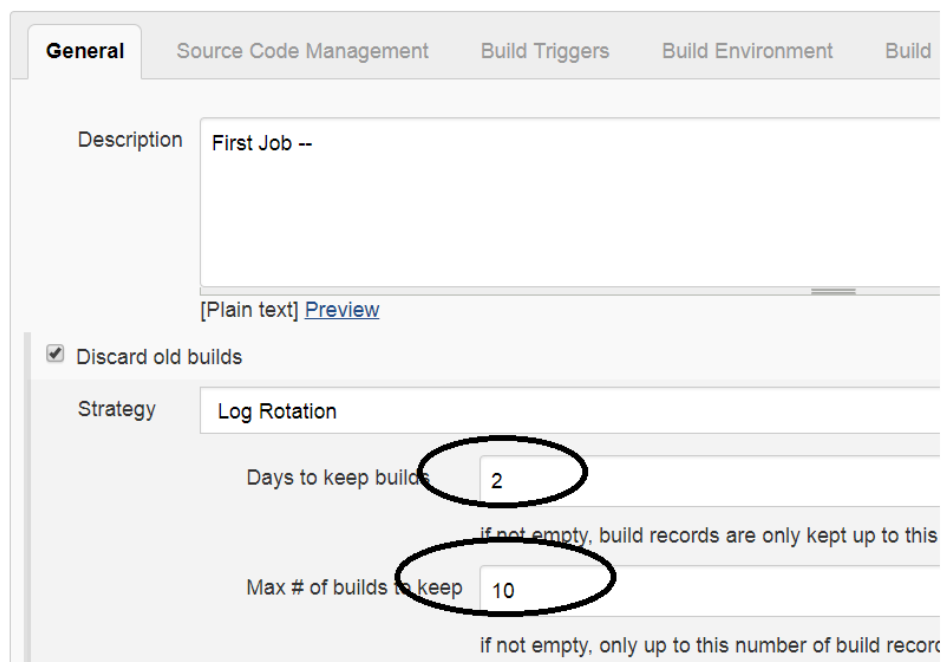
This would stop the Builds of the Project, until enabled Manually.

Step6: Delete the builds

The build can be manually deleted after the builds are created as below.



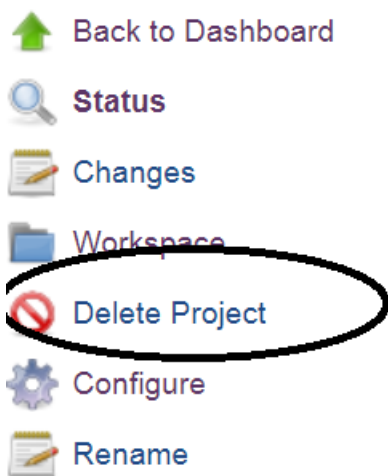
The Delete of the Builds can also be triggered during the build of the projects.



This would delete the old builds, with 2 options.

1. Based on Days – means 2 days max the builds will be there.
2. Max # of builds to keep – means max of 10 builds will be retained.

Step7: Delete the project



Clicking on **“Delete Project”**.

This would delete the entire project, along with all the builds under that.