

# Certification Tasks-Dev-Ops

## Task 1 :

Create a Staging branch in Git-Hub, push code from local repository to remote, and share commands

```
MINGW64/c/Users/admin/Desktop/task1
admin@desktop MINGW64 ~ (master)
$ cd Desktop/
admin@desktop MINGW64 ~/Desktop (master)
$ cd task1/
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ ls
demo.txt  helloworld.txt  sample.txt  steps.txt
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ git remote add origin https://github.com/pradee2604/Certificate-Task.git
error: remote origin already exists.
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ git remote set-url origin https://github.com/pradee2604/Certificate-Task.git
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   demo.txt
    new file:   helloworld.txt
    new file:   sample.txt
    new file:   steps.txt
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ vi demo.txt
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   demo.txt
    new file:   helloworld.txt
    new file:   sample.txt
    new file:   steps.txt
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   demo.txt
```

```
new file:   demo.txt
new file:   helloworld.txt
new file:   sample.txt
new file:   steps.txt
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   demo.txt
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ git add .
warning: in the working copy of 'demo.txt', LF will be replaced by CRLF the next time Git touches it
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ git commit -m "modification saved"
[master (root-commit) c428f29] modification saved
 4 files changed, 7 insertions(+)
 create mode 100644 demo.txt
 create mode 100644 helloworld.txt
 create mode 100644 sample.txt
 create mode 100644 steps.txt
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ git push -u origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 555 bytes | 555.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/pradee2604/Certificate-Task/pull/new/master
To https://github.com/pradee2604/Certificate-Task.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ git branch staging
admin@desktop MINGW64 ~/Desktop/task1 (master)
$ git switch staging
Switched to branch 'staging'
admin@desktop MINGW64 ~/Desktop/task1 (staging)
$ ls
demo.txt  helloworld.txt  sample.txt  steps.txt
admin@desktop MINGW64 ~/Desktop/task1 (staging)
```

```
MINGW64~/Users/admin/Desktop/task1
$ git switch staging
Switched to branch 'staging'

admin@desktop MINGW64 ~/Desktop/task1 (staging)
$ ls
demo.txt helloworld.txt sample.txt steps.txt

admin@desktop MINGW64 ~/Desktop/task1 (staging)
$ rm demo.txt

admin@desktop MINGW64 ~/Desktop/task1 (staging)
$ vi helloworld.txt

admin@desktop MINGW64 ~/Desktop/task1 (staging)
$ git add .
warning: in the working copy of 'helloworld.txt', LF will be replaced by CRLF the next time Git touches it

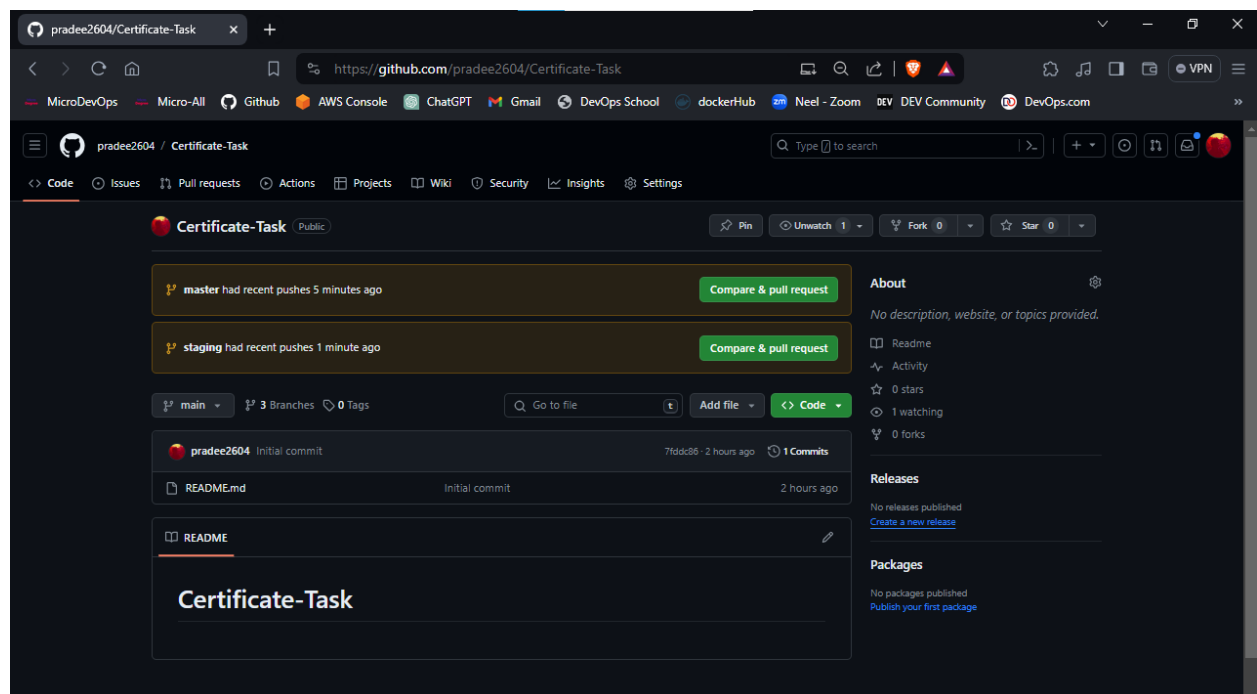
admin@desktop MINGW64 ~/Desktop/task1 (staging)
$ git commit -m "Staging branch modified"
[staging 22c143b] Staging branch modified
2 files changed, 2 insertions(+), 2 deletions(-)
delete mode 100644 demo.txt

admin@desktop MINGW64 ~/Desktop/task1 (staging)
$ git push -u origin staging
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 347 bytes | 347.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Create a pull request for 'staging' on GitHub by visiting:
remote:   https://github.com/pradee2604/Certificate-Task/pull/new/staging
remote:
To https://github.com/pradee2604/Certificate-Task.git
 * [new branch] staging -> staging
branch 'staging' set up to track 'origin/staging'.

admin@desktop MINGW64 ~/Desktop/task1 (staging)
$ ls
helloworld.txt sample.txt steps.txt

admin@desktop MINGW64 ~/Desktop/task1 (staging)
$ git switch master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

admin@desktop MINGW64 ~/Desktop/task1 (master)
$ ls
demo.txt helloworld.txt sample.txt steps.txt
```



## Commands

```
admin@desktop MINGW64 ~ (master)
```

```
$ cd Desktop/
```

```
admin@desktop MINGW64 ~/Desktop (master)
```

```
$ cd task1/
```

```
admin@desktop MINGW64 ~/Desktop/task1 (master)
```

```
$ ls
```

```
demo.txt helloworld.txt sample.txt steps.txt
```

```
admin@desktop MINGW64 ~/Desktop/task1 (master)
```

```
$ git remote add origin https://github.com/pradee2604/Certificate-Task.git
```

```
error: remote origin already exists.
```

```
admin@desktop MINGW64 ~/Desktop/task1 (master)
```

```
$ git remote set-url origin https://github.com/pradee2604/Certificate-Task.git
```

```
admin@desktop MINGW64 ~/Desktop/task1 (master)
```

```
$ git status
```

```
On branch master
```

```
No commits yet
```

```
Changes to be committed:
```

```
(use "git rm --cached <file>..." to unstage)
```

```
new file: demo.txt
```

```
new file: helloworld.txt
```

```
new file: sample.txt
```

```
new file: steps.txt
```

```
admin@desktop MINGW64 ~/Desktop/task1 (master)
```

```
$ vi demo.txt
```

```
admin@desktop MINGW64 ~/Desktop/task1 (master)
```

```
$ git status
```

```
On branch master
```

```
No commits yet
```

```
Changes to be committed:
```

```
(use "git rm --cached <file>..." to unstage)
```

new file: demo.txt  
new file: helloworld.txt  
new file: sample.txt  
new file: steps.txt

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: demo.txt

admin@desktop MINGW64 ~/Desktop/task1 (master)

\$ git add .

warning: in the working copy of 'demo.txt', LF will be replaced by CRLF the next time Git touches it

admin@desktop MINGW64 ~/Desktop/task1 (master)

\$ git commit -m "modification saved"

[master (root-commit) c428f29] modification saved

4 files changed, 7 insertions(+)

create mode 100644 demo.txt

create mode 100644 helloworld.txt

create mode 100644 sample.txt

create mode 100644 steps.txt

admin@desktop MINGW64 ~/Desktop/task1 (master)

\$ git push -u origin master

Enumerating objects: 6, done.

Counting objects: 100% (6/6), done.

Delta compression using up to 4 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (6/6), 555 bytes | 555.00 KiB/s, done.

Total 6 (delta 0), reused 0 (delta 0), pack-reused 0

remote:

remote: Create a pull request for 'master' on GitHub by visiting:

remote: <https://github.com/pradee2604/Certificate-Task/pull/new/master>

remote:

To <https://github.com/pradee2604/Certificate-Task.git>

\* [new branch] master -> master

branch 'master' set up to track 'origin/master'.

admin@desktop MINGW64 ~/Desktop/task1 (master)

```
$ git branch staging
```

```
admin@desktop MINGW64 ~/Desktop/task1 (master)
```

```
$ git switch staging
```

```
Switched to branch 'staging'
```

```
admin@desktop MINGW64 ~/Desktop/task1 (staging)
```

```
$ ls
```

```
demo.txt helloworld.txt sample.txt steps.txt
```

```
admin@desktop MINGW64 ~/Desktop/task1 (staging)
```

```
$ rm demo.txt
```

```
admin@desktop MINGW64 ~/Desktop/task1 (staging)
```

```
$ vi helloworld.txt
```

```
admin@desktop MINGW64 ~/Desktop/task1 (staging)
```

```
$ git add .
```

```
warning: in the working copy of 'helloworld.txt', LF will be replaced by CRLF the next time Git touches it
```

```
admin@desktop MINGW64 ~/Desktop/task1 (staging)
```

```
$ git commit -m "Staging branch modified"
```

```
[staging 22c143b] Staging branch modified
```

```
2 files changed, 2 insertions(+), 2 deletions(-)
```

```
delete mode 100644 demo.txt
```

```
admin@desktop MINGW64 ~/Desktop/task1 (staging)
```

```
$ git push -u origin staging
```

```
Enumerating objects: 5, done.
```

```
Counting objects: 100% (5/5), done.
```

```
Delta compression using up to 4 threads
```

```
Compressing objects: 100% (2/2), done.
```

```
Writing objects: 100% (3/3), 347 bytes | 347.00 KiB/s, done.
```

```
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
```

```
remote:
```

```
remote: Create a pull request for 'staging' on GitHub by visiting:
```

```
remote:   https://github.com/pradee2604/Certificate-Task/pull/new/staging
```

```
remote:
```

```
To https://github.com/pradee2604/Certificate-Task.git
```

```
* [new branch]   staging -> staging
```

```
branch 'staging' set up to track 'origin/staging'.
```

```
admin@desktop MINGW64 ~/Desktop/task1 (staging)
```

```
$ ls
```

```
helloworld.txt sample.txt steps.txt
```

```
admin@desktop MINGW64 ~/Desktop/task1 (staging)
```

```
$ git switch master
```

```
Switched to branch 'master'
```

```
Your branch is up to date with 'origin/master'.
```

```
admin@desktop MINGW64 ~/Desktop/task1 (master)
```

```
$ ls
```

```
demo.txt helloworld.txt sample.txt steps.txt
```

## Task 2 :

**Create a sample Jenkins CICD pipeline and share output logs and pipeline script**

### Pipeline Script

```
pipeline {
  agent any
  stages {
    stage('Build') {
      steps {
        sh 'echo "Building..."'
      }
    }
    stage('Test') {
      steps {
        sh 'echo "Testing..."'
      }
    }
    stage('Deploy') {
      steps {
        sh 'echo "Deploying..."'
      }
    }
  }
}
```

## Stage View

Jenkins

Search (CTRL+K)

Pradeep

log out

Dashboard > Sample CICD Pipeline >

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

Build History

Atom feed for all

Atom feed for failures

Sample CICD Pipeline

Sample Jenkins CICD pipeline

Edit description

Disable Project

Stage View

Average stage time: 403ms

Average full run time: ~2s

	Build	Test	Deploy
#43 Mar 05 21:09 No Changes	567ms	400ms	409ms
#42 Mar 05 21:02 No Changes	344ms	329ms	314ms
#41 Mar 05 21:01 No Changes	343ms	322ms	333ms
#40 Mar 05 20:56 No Changes	358ms	324ms	339ms

Permalinks

Last build (#4), 47 min ago

## Output log

Jenkins

Search (CTRL+K)

Pradeep

log out

Dashboard > Sample CICD Pipeline > #4

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#4'

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

Console Output

Started by user Pradeep

[Pipeline] Start of Pipeline

[Pipeline] node

Running on Jenkins in /var/lib/jenkins/workspace/Sample CICD Pipeline

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Build)

[Pipeline] sh

+ echo Building...

Building...

[Pipeline] }

[Pipeline] // stage

[Pipeline] stage

[Pipeline] { (Test)

[Pipeline] sh

+ echo Testing...

Testing...

[Pipeline] }

[Pipeline] // stage

[Pipeline] stage

[Pipeline] { (Deploy)

[Pipeline] sh

+ echo Deploying...

Deploying...

[Pipeline] }

[Pipeline] // stage

[Pipeline] }

[Pipeline] // node

[Pipeline] End of Pipeline

Finished: SUCCESS

Dashboard

Sample CICD Pipeline

#4

Pipeline Steps

Search (CTRL+K)

Pradeep

log out

Status

Changes

Console Output

Edit Build Information

Delete build '#4'

Restart from Stage

Replay

Pipeline Steps

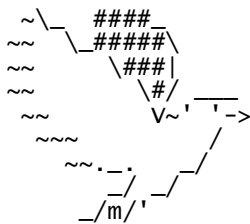
Workspaces

Previous Build

Step	Arguments	Status
Start of Pipeline - (5.4 sec in block)		✓
node - (2.1 sec in block)		✓
node block - (1.6 sec in block)		✓
stage - (0.6 sec in block)	Build	✓
stage block (Build) - (0.51 sec in block)		✓
sh - (0.33 sec in self)	echo "Building..."	✓
stage - (0.43 sec in block)	Test	✓
stage block (Test) - (0.36 sec in block)		✓
sh - (0.28 sec in self)	echo "Testing..."	✓
stage - (0.41 sec in block)	Deploy	✓
stage block (Deploy) - (0.37 sec in block)		✓
sh - (0.29 sec in self)	echo "Deploying..."	✓

Jenkins 2.440.1

## Set-up Jenkins-Commands



Amazon Linux 2

AL2 End of Life is 2025-06-30.

A newer version of Amazon Linux is available!

Amazon Linux 2023, GA and supported until 2028-03-15.  
<https://aws.amazon.com/linux/amazon-linux-2023/>

```
[ec2-user@ip-172-31-23-230 ~]$ sudo su - root
Last login: Sun Mar  3 08:42:00 UTC 2024 on pts/0
[root@ip-172-31-23-230 ~]# hostname jenk
[root@ip-172-31-23-230 ~]# bash
```

```
[root@jenk ~]#
```

```
[root@jenk ~]# cd /etc/yum.repos.d/
```

```
[root@jenk yum.repos.d]# ls
amzn2-core.repo  amzn2-extras.repo
```

```
[root@jenk yum.repos.d]# sudo wget -O /etc/yum.repos.d/jenkins.repo \
> https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2024-03-03 16:10:43-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 146.75.38.133, 2a04:4e42:78::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|146.75.38.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'
```

```
100%[=====] 85 --.-K/s in
0s
```



2024-03-03 16:10:43 (2.88 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]

```
[root@jenk yum.repos.d]# sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
```

```
[root@jenk yum.repos.d]# ls
amzn2-core.repo  amzn2-extras.repo  jenkins.repo
```

```
[root@jenk yum.repos.d]# cat jenkins.repo
[jenkins]
name=Jenkins-stable
baseurl=http://pkg.jenkins.io/redhat-stable
gpgcheck=1
```

```
[root@jenk yum.repos.d]# sudo yum upgrade
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
| 3.6 kB 00:00:00
amzn2extra-docker
| 2.9 kB 00:00:00
amzn2extra-kernel-5.10
| 3.0 kB 00:00:00
jenkins
| 2.9 kB 00:00:00
jenkins/primary_db
| 49 kB 00:00:00
No packages marked for update
```

```
[root@jenk yum.repos.d]# yum install java -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package java-17-amazon-corretto.x86_64 1:17.0.10+8-1.amzn2.1 will be installed
--> Processing Dependency: java-17-amazon-corretto-headless(x86-64) = 1:17.0.10+8-1.amzn2.1 for package: 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: libx11 for package: 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: libxi for package: 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: libxinerama for package: 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: libxt for package: 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: libxrender for package: 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: libxrandr for package: 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: libxtst for package: 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: giflib for package: 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86_64
--> Running transaction check
---> Package giflib.x86_64 0:4.1.6-9.amzn2.0.2 will be installed
--> Processing Dependency: libICE.so.6()(64bit) for package: giflib-4.1.6-9.amzn2.0.2.x86_64
--> Processing Dependency: libSM.so.6()(64bit) for package: giflib-4.1.6-9.amzn2.0.2.x86_64
---> Package java-17-amazon-corretto-headless.x86_64 1:17.0.10+8-1.amzn2.1 will be installed
--> Processing Dependency: jpackage-utils for package: 1:java-17-amazon-corretto-headless-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: fontconfig for package: 1:java-17-amazon-corretto-headless-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: dejavu-sans-fonts for package: 1:java-17-amazon-corretto-headless-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: dejavu-serif-fonts for package: 1:java-17-amazon-corretto-headless-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: dejavu-sans-mono-fonts for package: 1:java-17-amazon-corretto-headless-17.0.10+8-1.amzn2.1.x86_64
--> Processing Dependency: alsa-lib for package: 1:java-17-amazon-corretto-headless-17.0.10+8-1.amzn2.1.x86_64
```

```

--> Processing Dependency: log4j-cve-2021-44228-cve-mitigations for package: 1:java-
17-amazon-corretto-headless-17.0.10+8-1.amzn2.1.x86_64
--> Package libx11.x86_64 0:1.6.7-3.amzn2.0.5 will be installed
--> Processing Dependency: libx11-common >= 1.6.7-3.amzn2.0.5 for package: libx11-
1.6.7-3.amzn2.0.5.x86_64
--> Processing Dependency: libxcb.so.1()(64bit) for package: libx11-1.6.7-
3.amzn2.0.5.x86_64
--> Package libxi.x86_64 0:1.7.9-1.amzn2.0.2 will be installed
--> Processing Dependency: libxext.so.6()(64bit) for package: libxi-1.7.9-
1.amzn2.0.2.x86_64
--> Package libXinerama.x86_64 0:1.1.3-2.1.amzn2.0.2 will be installed
--> Package libXrandr.x86_64 0:1.5.1-2.amzn2.0.3 will be installed
--> Package libXrender.x86_64 0:0.9.10-1.amzn2.0.2 will be installed
--> Package libXt.x86_64 0:1.1.5-3.amzn2.0.2 will be installed
--> Package libXtst.x86_64 0:1.2.3-1.amzn2.0.2 will be installed
--> Running transaction check
--> Package alsa-lib.x86_64 0:1.1.4.1-2.amzn2 will be installed
--> Package dejavu-sans-fonts.noarch 0:2.33-6.amzn2 will be installed
--> Processing Dependency: dejavu-fonts-common = 2.33-6.amzn2 for package: dejavu-
sans-fonts-2.33-6.amzn2.noarch
--> Package dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2 will be installed
--> Package dejavu-serif-fonts.noarch 0:2.33-6.amzn2 will be installed
--> Package fontconfig.x86_64 0:2.13.0-4.3.amzn2 will be installed
--> Processing Dependency: fontpackages-filesystem for package: fontconfig-2.13.0-
4.3.amzn2.x86_64
--> Package javapackages-tools.noarch 0:3.4.1-11.amzn2 will be installed
--> Processing Dependency: python-javapackages = 3.4.1-11.amzn2 for package:
javapackages-tools-3.4.1-11.amzn2.noarch
--> Processing Dependency: libxslt for package: javapackages-tools-3.4.1-
11.amzn2.noarch
--> Package libICE.x86_64 0:1.0.9-9.amzn2.0.2 will be installed
--> Package libSM.x86_64 0:1.2.2-2.amzn2.0.2 will be installed
--> Package libX11-common.noarch 0:1.6.7-3.amzn2.0.5 will be installed
--> Package libXext.x86_64 0:1.3.3-3.amzn2.0.2 will be installed
--> Package libxcb.x86_64 0:1.12-1.amzn2.0.2 will be installed
--> Processing Dependency: libxau.so.6()(64bit) for package: libxcb-1.12-
1.amzn2.0.2.x86_64
--> Package log4j-cve-2021-44228-hotpatch.noarch 0:1.3-7.amzn2 will be installed
--> Running transaction check
--> Package dejavu-fonts-common.noarch 0:2.33-6.amzn2 will be installed
--> Package fontpackages-filesystem.noarch 0:1.44-8.amzn2 will be installed
--> Package libXau.x86_64 0:1.0.8-2.1.amzn2.0.2 will be installed
--> Package libxslt.x86_64 0:1.1.28-6.amzn2 will be installed
--> Package python-javapackages.noarch 0:3.4.1-11.amzn2 will be installed
--> Processing Dependency: python-lxml for package: python-javapackages-3.4.1-
11.amzn2.noarch
--> Running transaction check
--> Package python-lxml.x86_64 0:3.2.1-4.amzn2.0.5 will be installed
--> Finished Dependency Resolution

```

Dependencies Resolved

Package Version Size	Repository	Arch	
Installing:			
java-17-amazon-corretto 1:17.0.10+8-1.amzn2.1 k	amzn2-core	x86_64	175
Installing for dependencies:			
alsa-lib 1.1.4.1-2.amzn2 k	amzn2-core	x86_64	425
dejavu-fonts-common 2.33-6.amzn2 k	amzn2-core	noarch	64

dejavu-sans-fonts 2.33-6.amzn2 M	amzn2-core	noarch	1.4
dejavu-sans-mono-fonts 2.33-6.amzn2 k	amzn2-core	noarch	433
dejavu-serif-fonts 2.33-6.amzn2 k	amzn2-core	noarch	777
fontconfig 2.13.0-4.3.amzn2 k	amzn2-core	x86_64	253
fontpackages-filesystem 1.44-8.amzn2 k	amzn2-core	noarch	10
giflib 4.1.6-9.amzn2.0.2 k	amzn2-core	x86_64	40
java-17-amazon-corretto-headless 1:17.0.10+8-1.amzn2.1 M	amzn2-core	x86_64	94
javapackages-tools 3.4.1-11.amzn2 k	amzn2-core	noarch	73
libICE 1.0.9-9.amzn2.0.2 k	amzn2-core	x86_64	67
libSM 1.2.2-2.amzn2.0.2 k	amzn2-core	x86_64	39
libX11 1.6.7-3.amzn2.0.5 k	amzn2-core	x86_64	607
libX11-common 1.6.7-3.amzn2.0.5 k	amzn2-core	noarch	165
libXau 1.0.8-2.1.amzn2.0.2 k	amzn2-core	x86_64	29
libXext 1.3.3-3.amzn2.0.2 k	amzn2-core	x86_64	39
libXi 1.7.9-1.amzn2.0.2 k	amzn2-core	x86_64	41
libXinerama 1.1.3-2.1.amzn2.0.2 k	amzn2-core	x86_64	14
libXrandr 1.5.1-2.amzn2.0.3 k	amzn2-core	x86_64	27
libXrender 0.9.10-1.amzn2.0.2 k	amzn2-core	x86_64	26
libxt 1.1.5-3.amzn2.0.2 k	amzn2-core	x86_64	177
libxtst 1.2.3-1.amzn2.0.2 k	amzn2-core	x86_64	20
libxcb 1.12-1.amzn2.0.2 k	amzn2-core	x86_64	216
libxslt 1.1.28-6.amzn2 k	amzn2-core	x86_64	240
log4j-cve-2021-44228-hotpatch 1.3-7.amzn2 k	amzn2-core	noarch	139
python-javapackages 3.4.1-11.amzn2 k	amzn2-core	noarch	31

python-lxml  
3.2.1-4.amzn2.0.5  
M

amzn2-core x86\_64

1.0

# Transaction Summary

Install 1 Package (+27 Dependent packages)

Total download size: 100 M

Installed size: 257 M

Downloading packages:

(1/28): dejavu-fonts-common-2.33-6.amzn2.noarch.rpm  
| 64 kB 00:00:00  
(2/28): alsa-lib-1.1.4.1-2.amzn2.x86\_64.rpm  
| 425 kB 00:00:00  
(3/28): dejavu-sans-mono-fonts-2.33-6.amzn2.noarch.rpm  
| 433 kB 00:00:00  
(4/28): dejavu-sans-fonts-2.33-6.amzn2.noarch.rpm  
| 1.4 MB 00:00:00  
(5/28): dejavu-serif-fonts-2.33-6.amzn2.noarch.rpm  
| 777 kB 00:00:00  
(6/28): fontconfig-2.13.0-4.3.amzn2.x86\_64.rpm  
| 253 kB 00:00:00  
(7/28): fontpackages-filesystem-1.44-8.amzn2.noarch.rpm  
| 10 kB 00:00:00  
(8/28): java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86\_64.rpm  
| 175 kB 00:00:00  
(9/28): giflib-4.1.6-9.amzn2.0.2.x86\_64.rpm  
| 40 kB 00:00:00  
(10/28): javapackages-tools-3.4.1-11.amzn2.noarch.rpm  
| 73 kB 00:00:00  
(11/28): libICE-1.0.9-9.amzn2.0.2.x86\_64.rpm  
| 67 kB 00:00:00  
(12/28): libSM-1.2.2-2.amzn2.0.2.x86\_64.rpm  
| 39 kB 00:00:00  
(13/28): libX11-1.6.7-3.amzn2.0.5.x86\_64.rpm  
| 607 kB 00:00:00  
(14/28): libX11-common-1.6.7-3.amzn2.0.5.noarch.rpm  
| 165 kB 00:00:00  
(15/28): libXau-1.0.8-2.1.amzn2.0.2.x86\_64.rpm  
| 29 kB 00:00:00  
(16/28): libXext-1.3.3-3.amzn2.0.2.x86\_64.rpm  
| 39 kB 00:00:00  
(17/28): libXi-1.7.9-1.amzn2.0.2.x86\_64.rpm  
| 41 kB 00:00:00  
(18/28): libXinerama-1.1.3-2.1.amzn2.0.2.x86\_64.rpm  
| 14 kB 00:00:00  
(19/28): libXrandr-1.5.1-2.amzn2.0.3.x86\_64.rpm  
| 27 kB 00:00:00  
(20/28): libXrender-0.9.10-1.amzn2.0.2.x86\_64.rpm  
| 26 kB 00:00:00  
(21/28): libXt-1.1.5-3.amzn2.0.2.x86\_64.rpm  
| 177 kB 00:00:00  
(22/28): libXtst-1.2.3-1.amzn2.0.2.x86\_64.rpm  
| 20 kB 00:00:00  
(23/28): libxcb-1.12-1.amzn2.0.2.x86\_64.rpm  
| 216 kB 00:00:00  
(24/28): libxslt-1.1.28-6.amzn2.x86\_64.rpm  
| 240 kB 00:00:00  
(25/28): log4j-cve-2021-44228-hotpatch-1.3-7.amzn2.noarch.rpm  
| 139 kB 00:00:00  
(26/28): python-javapackages-3.4.1-11.amzn2.noarch.rpm  
| 31 kB 00:00:00  
(27/28): python-lxml-3.2.1-4.amzn2.0.5.x86\_64.rpm  
| 1.0 MB 00:00:00  
(28/28): java-17-amazon-corretto-headless-17.0.10+8-1.amzn2.1.x86\_64.rpm  
| 94 MB 00:00:01

Total  
66 MB/s | 100 MB 00:00:01  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
Installing : libICE-1.0.9-9.amzn2.0.2.x86\_64  
1/28  
Installing : libSM-1.2.2-2.amzn2.0.2.x86\_64  
2/28  
Installing : libxslt-1.1.28-6.amzn2.x86\_64  
3/28  
Installing : fontpackages-filesystem-1.44-8.amzn2.noarch  
4/28  
Installing : dejavu-fonts-common-2.33-6.amzn2.noarch  
5/28  
Installing : dejavu-sans-fonts-2.33-6.amzn2.noarch  
6/28  
Installing : fontconfig-2.13.0-4.3.amzn2.x86\_64  
7/28  
Installing : dejavu-serif-fonts-2.33-6.amzn2.noarch  
8/28  
Installing : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch  
9/28  
Installing : python-lxml-3.2.1-4.amzn2.0.5.x86\_64  
10/28  
Installing : python-javapackages-3.4.1-11.amzn2.noarch  
11/28  
Installing : javapackages-tools-3.4.1-11.amzn2.noarch  
12/28  
Installing : alsa-lib-1.1.4.1-2.amzn2.x86\_64  
13/28  
Installing : libX11-common-1.6.7-3.amzn2.0.5.noarch  
14/28  
Installing : libXau-1.0.8-2.1.amzn2.0.2.x86\_64  
15/28  
Installing : libxcb-1.12-1.amzn2.0.2.x86\_64  
16/28  
Installing : libX11-1.6.7-3.amzn2.0.5.x86\_64  
17/28  
Installing : libXext-1.3.3-3.amzn2.0.2.x86\_64  
18/28  
Installing : libXi-1.7.9-1.amzn2.0.2.x86\_64  
19/28  
Installing : libXrender-0.9.10-1.amzn2.0.2.x86\_64  
20/28  
Installing : libXrandr-1.5.1-2.amzn2.0.3.x86\_64  
21/28  
Installing : libxtst-1.2.3-1.amzn2.0.2.x86\_64  
22/28  
Installing : libXinerama-1.1.3-2.1.amzn2.0.2.x86\_64  
23/28  
Installing : libXt-1.1.5-3.amzn2.0.2.x86\_64  
24/28  
Installing : giflib-4.1.6-9.amzn2.0.2.x86\_64  
25/28  
Installing : log4j-cve-2021-44228-hotpatch-1.3-7.amzn2.noarch  
26/28  
Created symlink from /etc/systemd/system/multi-user.target.wants/log4j-cve-2021-44228-hotpatch.service to /usr/lib/systemd/system/log4j-cve-2021-44228-hotpatch.service.  
Installing : 1:java-17-amazon-corretto-headless-17.0.10+8-1.amzn2.1.x86\_64  
27/28  
Installing : 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86\_64  
28/28  
Verifying : dejavu-serif-fonts-2.33-6.amzn2.noarch  
1/28  
Verifying : 1:java-17-amazon-corretto-17.0.10+8-1.amzn2.1.x86\_64  
2/28  
Verifying : fontpackages-filesystem-1.44-8.amzn2.noarch  
3/28  
Verifying : libxcb-1.12-1.amzn2.0.2.x86\_64  
4/28

```

Verifying : libxrandr-1.5.1-2.amzn2.0.3.x86_64
5/28
Verifying : libxext-1.3.3-3.amzn2.0.2.x86_64
6/28
Verifying : libx11-1.6.7-3.amzn2.0.5.x86_64
7/28
Verifying : log4j-cve-2021-44228-hotpatch-1.3-7.amzn2.noarch
8/28
Verifying : libxi-1.7.9-1.amzn2.0.2.x86_64
9/28
Verifying : dejavu-fonts-common-2.33-6.amzn2.noarch
10/28
Verifying : libxau-1.0.8-2.1.amzn2.0.2.x86_64
11/28
Verifying : libSM-1.2.2-2.amzn2.0.2.x86_64
12/28
Verifying : python-lxml-3.2.1-4.amzn2.0.5.x86_64
13/28
Verifying : libxrender-0.9.10-1.amzn2.0.2.x86_64
14/28
Verifying : libx11-common-1.6.7-3.amzn2.0.5.noarch
15/28
Verifying : dejavu-sans-fonts-2.33-6.amzn2.noarch
16/28
Verifying : fontconfig-2.13.0-4.3.amzn2.x86_64
17/28
Verifying : libxt-1.1.5-3.amzn2.0.2.x86_64
18/28
Verifying : giflib-4.1.6-9.amzn2.0.2.x86_64
19/28
Verifying : libxinerama-1.1.3-2.1.amzn2.0.2.x86_64
20/28
Verifying : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch
21/28
Verifying : libxslt-1.1.28-6.amzn2.x86_64
22/28
Verifying : python-javapackages-3.4.1-11.amzn2.noarch
23/28
Verifying : libxtst-1.2.3-1.amzn2.0.2.x86_64
24/28
Verifying : alsa-lib-1.1.4.1-2.amzn2.x86_64
25/28
Verifying : 1:java-17-amazon-corretto-headless-17.0.10+8-1.amzn2.1.x86_64
26/28
Verifying : libICE-1.0.9-9.amzn2.0.2.x86_64
27/28
Verifying : javapackages-tools-3.4.1-11.amzn2.noarch
28/28

```

Installed:

```
java-17-amazon-corretto.x86_64 1:17.0.10+8-1.amzn2.1
```

Dependency Installed:

```

alsa-lib.x86_64 0:1.1.4.1-2.amzn2      dejavu-fonts-common.noarch
0:2.33-6.amzn2      dejavu-sans-fonts.noarch 0:2.33-6.amzn2
dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2      dejavu-serif-fonts.noarch
0:2.33-6.amzn2      fontconfig.x86_64 0:2.13.0-4.3.amzn2
fontpackages-filesystem.noarch 0:1.44-8.amzn2      giflib.x86_64 0:4.1.6-
9.amzn2.0.2      java-17-amazon-corretto-headless.x86_64 1:17.0.10+8-
1.amzn2.1
javapackages-tools.noarch 0:3.4.1-11.amzn2      libICE.x86_64 0:1.0.9-
9.amzn2.0.2      libSM.x86_64 0:1.2.2-2.amzn2.0.2
libx11.x86_64 0:1.6.7-3.amzn2.0.5      libx11-common.noarch
0:1.6.7-3.amzn2.0.5      libxau.x86_64 0:1.0.8-2.1.amzn2.0.2
libxext.x86_64 0:1.3.3-3.amzn2.0.2      libxi.x86_64 0:1.7.9-
1.amzn2.0.2      libxinerama.x86_64 0:1.1.3-2.1.amzn2.0.2
libxrandr.x86_64 0:1.5.1-2.amzn2.0.3      libxrender.x86_64
0:0.9.10-1.amzn2.0.2      libxt.x86_64 0:1.1.5-3.amzn2.0.2
libxtst.x86_64 0:1.2.3-1.amzn2.0.2      libxcb.x86_64 0:1.12-
1.amzn2.0.2      libxslt.x86_64 0:1.1.28-6.amzn2
log4j-cve-2021-44228-hotpatch.noarch 0:1.3-7.amzn2      python-javapackages.noarch
0:3.4.1-11.amzn2      python-lxml.x86_64 0:3.2.1-4.amzn2.0.5

```

Complete!

```
[root@jenk yum.repos.d]# sudo yum install jenkins.noarch
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package jenkins.noarch 0:2.440.1-1.1 will be installed
--> Finished Dependency Resolution
```

Dependencies Resolved

```
=====
Package                               Arch   Repository
Version                               Size
=====
Installing:
jenkins                               noarch
2.440.1-1.1                           jenkins
82 M
```

Transaction Summary

```
=====
Install 1 Package
```

```
Total download size: 82 M
Installed size: 83 M
Is this ok [y/d/N]: y
Downloading packages:
jenkins-2.440.1-1.1.noarch.rpm
| 82 MB 00:00:26
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : jenkins-2.440.1-1.1.noarch
1/1
  Verifying   : jenkins-2.440.1-1.1.noarch
1/1
```

```
Installed:
jenkins.noarch 0:2.440.1-1.1
```

Complete!

```
[root@jenk yum.repos.d]# sudo systemctl daemon-reload
```

```
[root@jenk yum.repos.d]# sudo systemctl enable jenkins.service
```

Created symlink from /etc/systemd/system/multi-user.target.wants/jenkins.service to /usr/lib/systemd/system/jenkins.service.

```
[root@jenk yum.repos.d]# sudo systemctl start jenkins
```

// Visit <http://localhost:8080> (replace localhost with the hostname or IP address of your server if Jenkins is installed on a remote machine)

```
[root@jenk yum.repos.d]# cat /var/lib/jenkins/secrets/initialAdminPassword
60e208300deb4b88a964b720026c0e16
```

```
// [root@jenk yum.repos.d]# sudo rm -r jenkins.repo (to remove jenkins.repo)
// [root@jenk yum.repos.d]# sudo systemctl stop jenkins (to stop jenkins service)
```