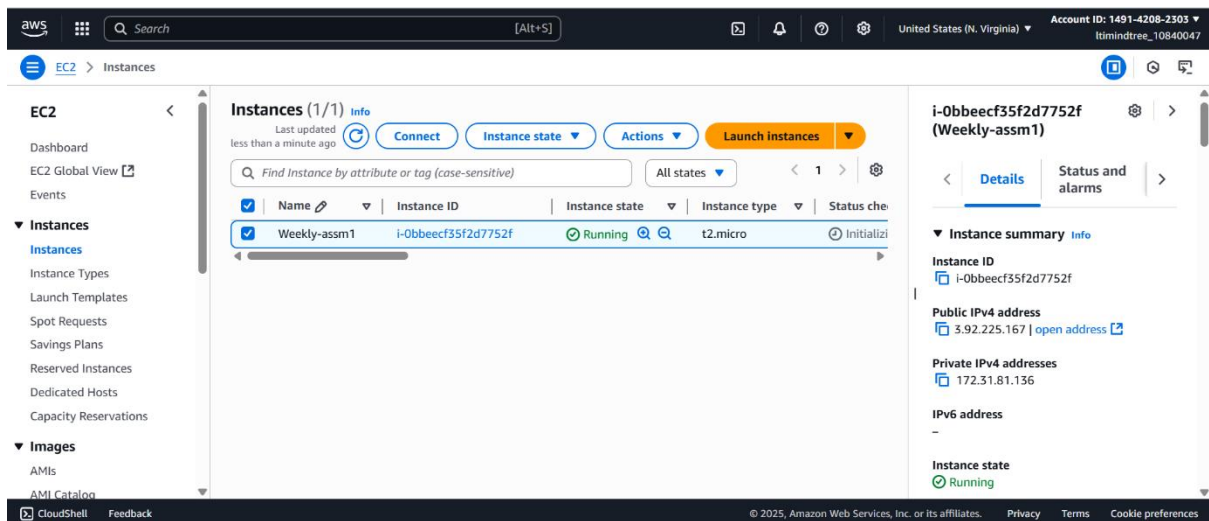


Asmit Kumar – 10840047 - Weekly Assessment 1

Create a user jack and assign a password alberto, This user should be member of wheel group as well as nobody group

First I created an instance in aws



Then I assigned the hostname and logged as a root user

```
root@weekly~  
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
Install the latest PowerShell for new features and improvements! https://aka.ms/PSTools  
  
PS C:\Users\10840047\Downloads> ssh -i "weekly-asm.pem" ec2-user@ec2-3-92-225-167.compute-1.amazonaws.com  
The authenticity of host 'ec2-3-92-225-167.compute-1.amazonaws.com (3.92.225.167)' can't be established.  
ED25519 key fingerprint is SHA256:S7X7SyqZ5TESmq17wy2mBGkjXv8SrPjA2oENgk6MA7c.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'ec2-3-92-225-167.compute-1.amazonaws.com' (ED25519) to the list of known hosts.  
  
#  
_ _ _ _ _ Amazon Linux 2023  
#####  
#####  
#####|  
##### \##/  
##### \|/ _____  
##### V_____|___>  
##### |  
##### / ____/\__/_/_____</_\><br>
```

After that I created a user named Jack and set the password alberto, then I checked if wheel and nobody group already existed, then I added jack to both the groups.

```
root@weekly:~  
[root@weekly ~]# useradd jack  
[root@weekly ~]# passwd jack  
Changing password for user jack.  
New password:  
BAD PASSWORD: The password is shorter than 8 characters  
Retype new password:  
passwd: all authentication tokens updated successfully.  
[root@weekly ~]# cat /etc/group | grep -i wheel  
wheel:x:10:ec2-user  
[root@weekly ~]# cat /etc/group | grep -i nobody  
nobody:x:65534:  
[root@weekly ~]# usermod -G nobody jack  
[root@weekly ~]# usermod -aG wheel jack  
[root@weekly ~]# cat /etc/group | grep -i nobody  
nobody:x:65534:jack  
[root@weekly ~]# cat /etc/group | grep -i wheel  
wheel:x:10:ec2-user,jack  
[root@weekly ~]# |
```

Put a new Java project on GitHub. Create a Jenkins project and integrate it with GitHub. Now add the maven package goal in the Jenkins project. Also make sure the artifacts which are built are saved in the pipeline.

At first I installed git in my terminal

```
root@weekly:~/jenkins-dir [root@weekly jenkins-dir]# yum install git
Amazon Linux 2023 Kernel Livepatch repository                               169 kB/s | 19 kB    00:00
Dependencies resolved.
=====
Package                                Architecture      Version           Repository        Size
=====
Installing:
git                                    x86_64            2.50.1-1.amzn2023.0.1    amazonlinux        53 k
Installing dependencies:
git-core                             x86_64            2.50.1-1.amzn2023.0.1    amazonlinux        4.9 M
git-core-doc                         noarch            2.50.1-1.amzn2023.0.1    amazonlinux        2.8 M
perl-Error                           noarch            1:0.17029-5.amzn2023.0.2    amazonlinux        41 k
perl-File-Find                       noarch            1.37-477.amzn2023.0.7    amazonlinux        25 k
perl-Git                             noarch            2.50.1-1.amzn2023.0.1    amazonlinux        41 k
perl-TermReadKey                     x86_64            2.38-9.amzn2023.0.2    amazonlinux        36 k
perl-lib                             x86_64            0.65-477.amzn2023.0.7    amazonlinux        15 k
=====
Transaction Summary
=====
Install 8 Packages

Total download size: 7.9 M
Installed size: 41 M
Is this ok [y/N]: y
Downloading Packages:
(1/8): git-2.50.1-1.amzn2023.0.1.x86_64.rpm                               1.4 MB/s | 53 kB    00:00
(2/8): perl-Error-0.17029-5.amzn2023.0.2.noarch.rpm                     1.8 MB/s | 41 kB    00:00
(3/8): git-core-doc-2.50.1-1.amzn2023.0.1.noarch.rpm                     35 MB/s | 2.8 MB    00:00
(4/8): perl-File-Find-1.37-477.amzn2023.0.7.noarch.rpm                   1.1 MB/s | 25 kB    00:00
(5/8): perl-Git-2.50.1-1.amzn2023.0.1.noarch.rpm                         2.1 MB/s | 41 kB    00:00
(6/8): perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64.rpm                  1.9 MB/s | 36 kB    00:00
(7/8): git-core-2.50.1-1.amzn2023.0.1.x86_64.rpm                       37 MB/s | 4.9 MB    00:00
(8/8): perl-lib-0.65-477.amzn2023.0.7.x86_64.rpm                       457 kB/s | 15 kB    00:00
```

Then I generated ssh keys and pasted it in the github

```
root@weekly:~/jenkins-dir [root@weekly jenkins-dir]# git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
hint:
hint: Disable this message with "git config set advice.defaultBranchName false"
Initialized empty Git repository in /root/.jenkins-dir/.git/
[root@weekly jenkins-dir]# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:EJivHnX+QbiE5HcKpSKerLcpavcTW7LZkfsa1ZZC4tU root@weekly.assessment.com
The key's randomart image is:
+---[RSA 3072]---+
|  o.                |
| o...              |
|+.+.o.o.E          |
|..B.*o*..          |
|o o + *S*oo +      |
|+ o. o+oo o        |
|..+. +o..          |
|o..o.o o o.        |
```

```
root@weekly:~/jenkins-dir [root@weekly jenkins-dir]# cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCrNUW7KZkdZnk/k8Okog2zuzsXg2IAzHEM2t4MN8DEbmH1+cicu5L8oO6Y7e27qiQlNMTAx5fZ4t05GNL+ubQmzptgpyb/1FjMa1cleupik6Xr+k0Axm+MaNlmOE3idOrxwZeY6ahKz3ccUR5p3loIHJq4Rpd5lOYB2ySbyvRqQlK7y0AWQBcoj4cLEolafDiP6+gz8PGWmQwTI7JCN3Q/vG0dPbq0IQbb6dHA9UxmOmF7LPQyNFP3gohyfyUpaT6+YRzJVZSFbg3g4H9Hs/6Vsl2R3KZCs2Urwk+Tq0HKfCyxmxbkP8AKLMrK0ItH3spIwyqUXKzyy738Dk0NcsmlSWgLDUuKlXjyNdEAF+mL1THw4h9fSwCOh7NFKVTfW5mJ8dPVPBcX1wEpiQgGxFL5B3fTqWxe21MB4XSAdzNDOKYf7eDj5zzH/mUzMr4hT26LANBRq9Vl5G31tTD0+UUbM7c5HN08TQQj04+zkN7sWTO
WrEogKdMfN5o9CCu7LU= root@weekly.assessment.com
[root@weekly jenkins-dir]#
```

GitHub - Add new SSH key

Settings

Type / to search

Go to your personal profile

Asmit-Kumar-Itim (Asmit-Kumar-Itim)

Your personal account

Public profile

Account

Appearance

Accessibility

Notifications

Access

Billing and licensing

Emails

Password and authentication

Sessions

SSH and GPG keys

Organizations

Enterprises

Moderation

Add new SSH Key

Title

Asmit's Linux

Key type

Authentication Key

Key

ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQGCrNUW7KZkdZnk/k8Okog2zuzsXg2IAzHEM2t4MN8DEbmH1+cicu5L8oO6Y7e27qiQlNMTAx5fZ4t05GNL+ubQmzptgpyb/1FjMa1cleupik6Xr+k0Axm+MaNlmOE3idOrxwZeY6ahKz3ccUR5p3loIHJq4Rpd5lOYB2ySbyvRqQlK7y0AWQBcoj4cLEolafDiP6+gz8PGWmQwTI7JCN3Q/vG0dPbq0IQbb6dHA9UxmOmF7LPQyNFP3gohyfyUpaT6+YRzJVZSFbg3g4H9Hs/6Vsl2R3KZCs2Urwk+Tq0HKfCyxmxbkP8AKLMrK0ItH3spIwyqUXKzyy738Dk0NcsmlSWgLDUuKlXjyNdEAF+mL1THw4h9fSwCOh7NFKVTfW5mJ8dPVPBcX1wEpiQgGxFL5B3fTqWxe21MB4XSAdzNDOKYf7eDj5zzH/mUzMr4hT26LANBRq9Vl5G31tTD0+UUbM7c5HN08TQQj04+zkN7sWTOWrEogKdMfN5o9CCu7LU=
root@weekly.assessment.com

Add SSH key

Connected git to my github repository

```
root@weekly:~/jenkins-dir [root@weekly jenkins-dir]# git remote add origin git@github.com:Asmit-Kumar-ltim/My-devops.git
[root@weekly jenkins-dir]# git remote -v
origin  git@github.com:Asmit-Kumar-ltim/My-devops.git (fetch)
origin  git@github.com:Asmit-Kumar-ltim/My-devops.git (push)
[root@weekly jenkins-dir]#
```

Then I installed java, maven and jenkins

```
root@weekly:~/jenkins-dir [root@weekly jenkins-dir]# yum install java*
Last metadata expiration check: 0:06:26 ago on Sat Aug 9 10:58:38 2025.
Dependencies resolved.
=====
Package                                Architecture Version                                Repository                                Size
=====
Installing:
java-1.8.0-amazon-corretto             x86_64    1:1.8.0_462.b08-1.amzn2023             amazonlinux                                38 M
java-1.8.0-amazon-corretto-devel       x86_64    1:1.8.0_462.b08-1.amzn2023             amazonlinux                                63 M
java-11-amazon-corretto                x86_64    1:11.0.28+6-1.amzn2023                 amazonlinux                                197 k
java-11-amazon-corretto-devel           x86_64    1:11.0.28+6-1.amzn2023                 amazonlinux                                211 k
java-11-amazon-corretto-javadoc         x86_64    1:11.0.28+6-1.amzn2023                 amazonlinux                                13 M
java-17-amazon-corretto                 x86_64    1:11.0.28+6-1.amzn2023                 amazonlinux                                71 M
java-17-amazon-corretto-debugsymbols    x86_64    1:17.0.16+8-1.amzn2023.1              amazonlinux                                213 k
java-17-amazon-corretto-javadoc         x86_64    1:17.0.16+8-1.amzn2023.1              amazonlinux                                172 M
java-17-amazon-corretto-jmods           x86_64    1:17.0.16+8-1.amzn2023.1              amazonlinux                                12 M
java-21-amazon-corretto                 x86_64    1:17.0.16+8-1.amzn2023.1              amazonlinux                                69 M
java-21-amazon-corretto-debugsymbols    x86_64    1:21.0.8+9-1.amzn2023.1               amazonlinux                                213 k
java-21-amazon-corretto-javadoc         x86_64    1:21.0.8+9-1.amzn2023.1               amazonlinux                                223 M
java-21-amazon-corretto-jmods           x86_64    1:21.0.8+9-1.amzn2023.1               amazonlinux                                149 k
java-22-amazon-corretto                 x86_64    1:21.0.8+9-1.amzn2023.1               amazonlinux                                13 M
java-22-amazon-corretto-jmods           x86_64    1:21.0.8+9-1.amzn2023.1               amazonlinux                                75 M
java-22-amazon-corretto-devel           x86_64    1:22.0.2+9-1.amzn2023.1               amazonlinux                                213 k
java-22-amazon-corretto-javadoc         x86_64    1:22.0.2+9-1.amzn2023.1               amazonlinux                                150 k
java-22-amazon-corretto-jmods           x86_64    1:22.0.2+9-1.amzn2023.1               amazonlinux                                13 M
java-23-amazon-corretto                 x86_64    1:22.0.2+9-1.amzn2023.1               amazonlinux                                74 M
java-23-amazon-corretto-debugsymbols    x86_64    1:23.0.2+7-1.amzn2023.1               amazonlinux                                213 k
java-23-amazon-corretto-javadoc         x86_64    1:23.0.2+7-1.amzn2023.1               amazonlinux                                218 M
java-23-amazon-corretto-jmods           x86_64    1:23.0.2+7-1.amzn2023.1               amazonlinux                                151 k
java-24-amazon-corretto                 x86_64    1:23.0.2+7-1.amzn2023.1               amazonlinux                                17 M
java-24-amazon-corretto-debugsymbols    x86_64    1:23.0.2+7-1.amzn2023.1               amazonlinux                                78 M
java-24-amazon-corretto-jmods           x86_64    1:24.0.2+12-1.amzn2023.1              amazonlinux                                202 k
java-24-amazon-corretto-debugsymbols    x86_64    1:24.0.2+12-1.amzn2023.1              amazonlinux                                223 M
=====
```

```
root@weekly:~/jenkins-dir [root@weekly jenkins-dir]# yum install maven
Last metadata expiration check: 0:08:31 ago on Sat Aug 9 10:58:38 2025.
Dependencies resolved.
=====
Package                                Architecture Version                                Repository                                Size
=====
Installing:
maven                                   noarch    1:3.8.4-3.amzn2023.0.5                 amazonlinux                                18 k
Installing dependencies:
alsa-lib                               x86_64    1.2.7.2-1.amzn2023.0.2                 amazonlinux                                504 k
apache-commons-cli                     noarch    1.5.0-3.amzn2023.0.3                   amazonlinux                                76 k
apache-commons-codec                   noarch    1.15-6.amzn2023.0.3                    amazonlinux                                303 k
apache-commons-io                       noarch    1:2.8.0-7.amzn2023.0.5                  amazonlinux                                283 k
apache-commons-lang3                   noarch    3.12.0-7.amzn2023.0.3                  amazonlinux                                559 k
atinject                               noarch    1.0.5-3.amzn2023.0.3                   amazonlinux                                23 k
cairo                                   x86_64    1.18.0-4.amzn2023.0.2                  amazonlinux                                717 k
cdi-api                                noarch    2.0.2-6.amzn2023.0.3                   amazonlinux                                54 k
dejavu-sans-fonts                       noarch    2.37-16.amzn2023.0.2                   amazonlinux                                1.3 M
dejavu-sans-mono-fonts                  noarch    2.37-16.amzn2023.0.2                   amazonlinux                                467 k
dejavu-serif-fonts                      noarch    2.37-16.amzn2023.0.2                   amazonlinux                                1.0 M
fontconfig                              x86_64    2.13.94-2.amzn2023.0.2                 amazonlinux                                273 k
fonts-filesystem                        noarch    1:2.0.5-12.amzn2023.0.2                amazonlinux                                9.5 k
freetype                                x86_64    2.13.2-5.amzn2023.0.1                 amazonlinux                                423 k
google-guice                            noarch    4.2.3-8.amzn2023.0.6                   amazonlinux                                473 k
google-noto-fonts-common                noarch    20240401-1.amzn2023.0.2                amazonlinux                                17 k
google-noto-sans-vf-fonts               noarch    20240401-1.amzn2023.0.2                amazonlinux                                593 k
graphite2                               x86_64    1.3.14-7.amzn2023.0.2                  amazonlinux                                97 k
guava                                   noarch    31.0.1-3.amzn2023.0.6                  amazonlinux                                2.4 M
harfbuzz                                x86_64    7.0.0-2.amzn2023.0.2                   amazonlinux                                873 k
httpcomponents-client                   noarch    4.5.13-4.amzn2023.0.4                  amazonlinux                                657 k
httpcomponents-core                     noarch    4.4.13-6.amzn2023.0.3                  amazonlinux                                632 k
jakarta-annotations                    noarch    1.3.5-13.amzn2023.0.3                  amazonlinux                                46 k
jansi                                   x86_64    2.4.0-3.amzn2023.0.3                   amazonlinux                                113 k
=====
```

```
root@weekly:~/jenkins-dir
[root@weekly jenkins-dir]# wget -O /etc/yum.repos.d/jenkins.repo \
https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2025-08-09 11:08:54-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 146.75.30.133, 2a04:4e42:77::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|146.75.30.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'

/etc/yum.repos.d/jenkins.repo 100%[=====] 85 --.-KB/s in 0s

2025-08-09 11:08:54 (5.80 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]

[root@weekly jenkins-dir]# rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
[root@weekly jenkins-dir]# yum upgrade
Jenkins-stable 684 kB/s | 32 kB 00:00
Dependencies resolved.
Nothing to do.
Complete!
[root@weekly jenkins-dir]# yum install java-17-amazon-corretto -y
Last metadata expiration check: 0:00:07 ago on Sat Aug 9 11:09:10 2025.
Dependencies resolved.

=====
Package Architecture Version Repository Size
=====
Installing:
java-17-amazon-corretto x86_64 1:17.0.16+8-1.amzn2023.1 amazonlinux 213 k
Installing dependencies:
giflib x86_64 5.2.1-9.amzn2023.0.1 amazonlinux 49 k
libICE x86_64 1.1.1-3.amzn2023.0.1 amazonlinux 76 k
libSM x86_64 1.2.4-3.amzn2023.0.1 amazonlinux 45 k
libXi x86_64 1.8.2-1.amzn2023.0.1 amazonlinux 42 k
libXinerama x86_64 1.1.5-6.amzn2023.0.1 amazonlinux 16 k
=====
```

```
root@weekly:~/jenkins-dir
[root@weekly jenkins-dir]# yum install jenkins -y
Last metadata expiration check: 0:00:22 ago on Sat Aug 9 11:09:10 2025.
Dependencies resolved.

=====
Package Architecture Version Repository Size
=====
Installing:
jenkins noarch 2.516.1-1.1 jenkins 83 M

Transaction Summary
=====
Install 1 Package

Total download size: 83 M
Installed size: 83 M
Downloading Packages:
jenkins-2.516.1-1.1.noarch.rpm 41 MB/s | 83 MB 00:02
Total 41 MB/s | 83 MB 00:02
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : jenkins-2.516.1-1.1.noarch 1/1
Running scriptlet: jenkins-2.516.1-1.1.noarch 1/1
Installing : jenkins-2.516.1-1.1.noarch 1/1
Running scriptlet: jenkins-2.516.1-1.1.noarch 1/1
Verifying : jenkins-2.516.1-1.1.noarch 1/1

Installed:
jenkins-2.516.1-1.1.noarch
```

```
[root@weekly jenkins-dir]# systemctl enable jenkins
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service -> /usr/lib/systemd/system/jenkins.service.
[root@weekly jenkins-dir]# systemctl start jenkins
[root@weekly jenkins-dir]#
```

In aws instance I added a new inbound rule with port 8080 which is the default port of jenkins so that jenkins can run in the browser.

The image shows two screenshots. The top screenshot is from the AWS Management Console, specifically the 'Edit inbound rules' page for a security group. It shows a table of inbound rules with columns for Security group rule ID, Type, Protocol, Port range, Source, and Description. One rule is configured for port 8080 with a source of 0.0.0.0/0. A warning message at the bottom states: 'Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.' The bottom screenshot is a web browser showing the Jenkins 'Getting Started' page. The page title is 'Unlock Jenkins' and it instructs the user to copy the initial administrator password from the log file `/var/lib/jenkins/secrets/initialAdminPassword`. A text input field for the 'Administrator password' is visible, along with a 'Continue' button.

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type	Protocol	Port range	Source	Description - optional	
sgr-0521cae975e4c5c7a	SSH	TCP	22	Custom	0.0.0.0/0	Delete
-	Custom TCP	TCP	8080	Anyw...	0.0.0.0/0	Delete

Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Preview changes Save rules

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

```
/var/lib/jenkins/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password

Continue

```
root@weekly:~/jenkins-dir  
[root@weekly jenkins-dir]# cat /var/lib/jenkins/secrets/initialAdminPassword  
491583d47c674fd381b571e007ba5465  
[root@weekly jenkins-dir]#
```

After opening jenkins, it was saying that the disk space is low.

The screenshot shows the Jenkins web interface for the 'Built-In Node'. On the left sidebar, there are links for Status, Configure, Build History, Load Statistics, and Script Console. The main content area has a 'Built-In Node' header with a 'Bring this node back online' button and an 'Update offline reason' button. Below this, a red warning message states: 'Disk space is below threshold of 1.00 GiB. Only 470.19 MiB out of 474.69 MiB left on /tmp.' There is also a 'Monitoring Data' dropdown menu. At the bottom, it says 'Projects tied to Built-In Node' with 'None' listed below it. The footer shows 'REST API' and 'Jenkins 2.516.1'.

So I increased the tmp space to 2 gb.

```
root@weekly: ~/jenkins-dir
[root@weekly jenkins-dir]# mount -o remount,size=2G /tmp
[root@weekly jenkins-dir]# df -h /tmp
Filesystem      Size  Used Avail Use% Mounted on
tmpfs           2.0G  4.5M  2.0G   1% /tmp
[root@weekly jenkins-dir]# vim /etc/fstab
[root@weekly jenkins-dir]# mount -a
[root@weekly jenkins-dir]# systemctl daemon-reload
[root@weekly jenkins-dir]# systemctl restart jenkins
[root@weekly jenkins-dir]#
```

Then this problem got solved.

This screenshot shows the same Jenkins 'Built-In Node' page as before, but the disk space warning is gone. The 'Bring this node back online' button has been replaced with a 'Mark this node temporarily offline' button. The rest of the interface, including the sidebar and footer, remains the same.

Then I ran a command to display the path of java and maven

```
[root@weekly jenkins-dir]# mvn -v
Apache Maven 3.8.4 (Red Hat 3.8.4-3.amzn2023.0.5)
Maven home: /usr/share/maven
Java version: 17.0.16, vendor: Amazon.com Inc., runtime: /usr/lib/jvm/java-17-amazon-corretto.x86_64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.1.147-172.266.amzn2023.x86_64", arch: "amd64", family: "unix"
```


In Jenkins, I went to manage Jenkins then tools, add jdk and add maven and add java and maven paths to their respective given space

The screenshot shows the Jenkins 'Tools' configuration page. At the top, there's a breadcrumb trail: 'Jenkins / Manage Jenkins / Tools'. Below this, the page is titled 'JDK installations'. There's an 'Add JDK' button. A modal window for adding a new JDK is open. It has a 'Name' field with 'java', a 'JAVA_HOME' field with '/usr/lib/jvm/java-17-amazon-corretto.x86_64', and an unchecked 'Install automatically' checkbox. Below this, there's an 'Add Maven' button. Another modal window for adding a new Maven installation is open. It has a 'Name' field with 'maven', a 'MAVEN_HOME' field with '/usr/share/maven', and an unchecked 'Install automatically' checkbox. At the bottom of this modal is another 'Add Maven' button.

Then I added webhooks and generated token under profile then security and copied the token and pasted it in the github repo – security – webhooks

The screenshot shows the Jenkins 'Security' page. The breadcrumb trail is 'Jenkins / Asmit Kumar / Security'. The page title is 'Security'. On the left, there's a sidebar with various links: Status, Builds, My Views, Account, Appearance, Preferences, Security (highlighted), Experiments, and Credentials. In the main content area, a modal window is open showing a generated token. The modal has a title 'token' and a message: 'Copy this token now, because it cannot be recovered in the future.' Below the message is a text field containing the token '11b0bac02d9ed8a710b5044855375d2a82'. There's a 'Done' button at the bottom right of the modal. In the background, the 'Security' page form is visible, showing fields for 'API Token', 'Current Token', 'Password', and buttons for 'Save' and 'Apply'.

Webhooks

Add webhook

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

✓

[http://3.92.225.167:8080/github-we...](#) (push)

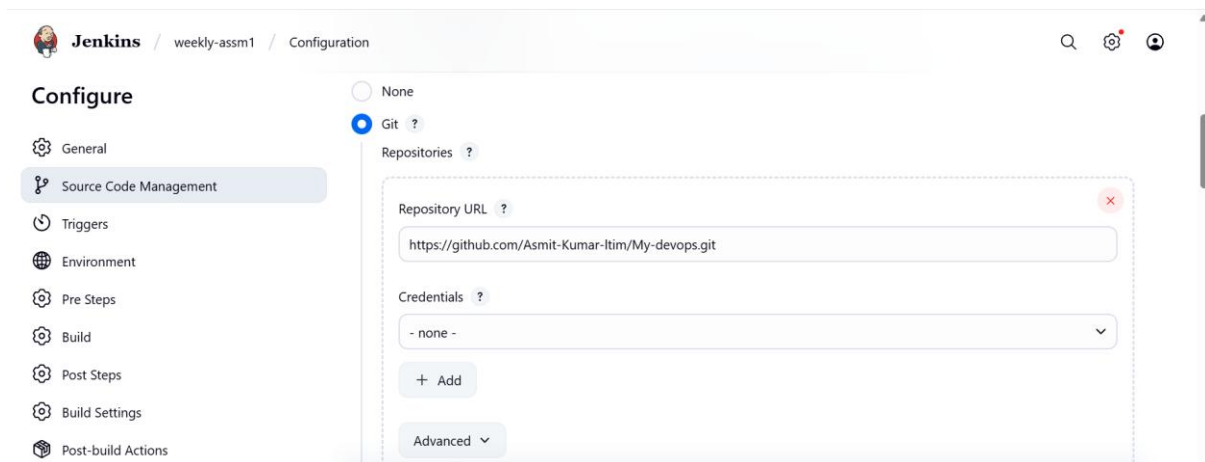
EditDelete

Last delivery was successful.

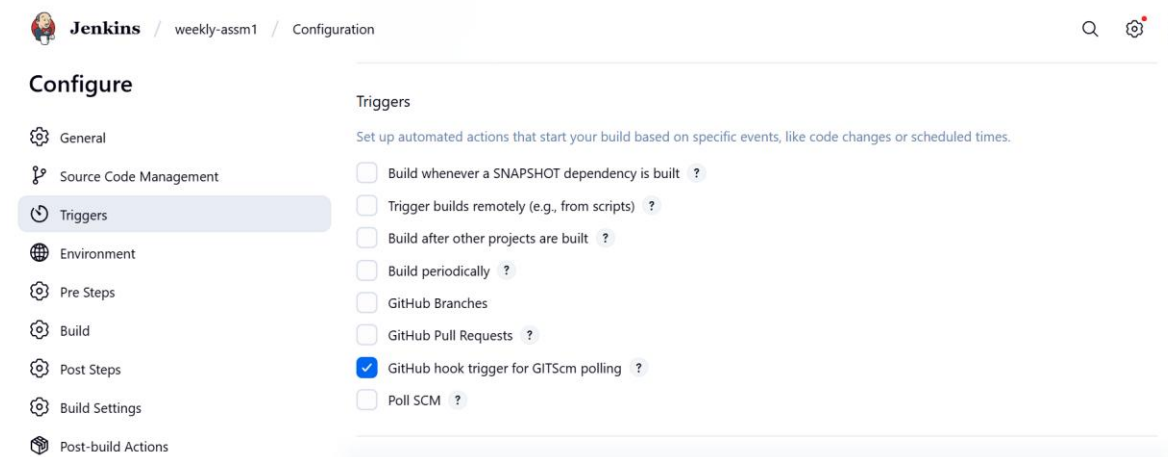
Webhooks is succesfully added.

Now I created a job with maven project named **weekly-asm1**.

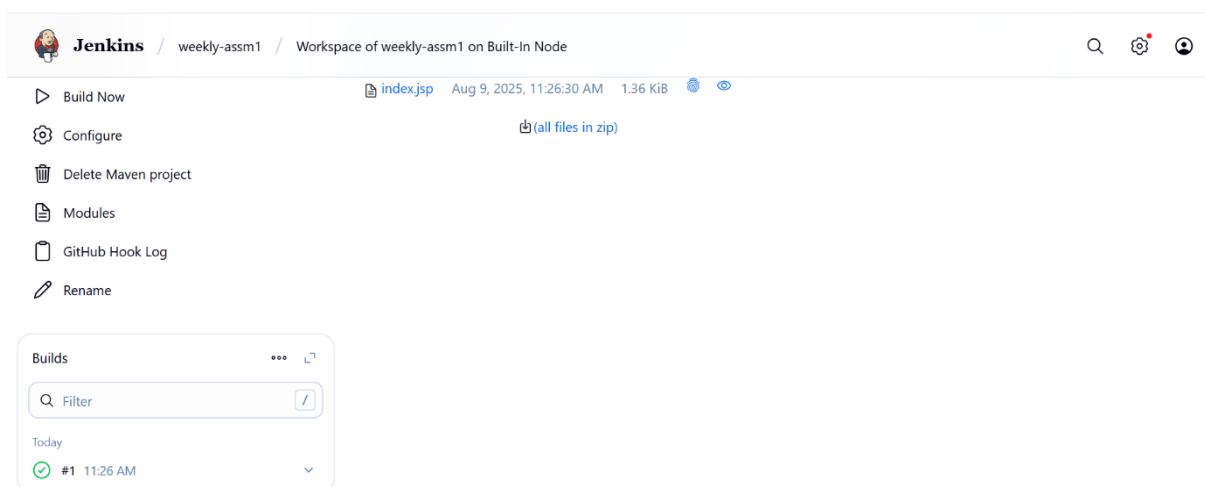
Then I added my github repository url so that the job can read from my repository.




Then I added trigger – Github hook trigger for GITScm polling so that whenever any changes is done by the developer in github it will automatically build the project.






At first I clicked build now and the project got built successfully.





Then I did some changes in the file inside my repository and in second time jenkins built it automatically.


 **Jenkins**


weekly-asm1 / Workspace of weekly-asm1 on Built-In Node


  

 Configure

 Delete Maven project

 Modules

 GitHub Hook Log

 Rename

Builds


Filter

Today




#2 11:28 AM

#1 11:26 AM

Jenkins 2.516.1

 **Jenkins**

weekly-asm1 / #2 / Console Output

```
[INFO] Total time: 9.239 s
[INFO] Finished at: 2025-08-09T11:28:56Z
[INFO] -----
[JENKINS] Archiving /var/lib/jenkins/workspace/weekly-asm1/webapp/pom.xml to com.example.maven-project/webapp/1.0-SNAPSHOT/webapp-1.0-SNAPSHOT.pom
[JENKINS] Archiving /var/lib/jenkins/workspace/weekly-asm1/webapp/target/webapp.war to com.example.maven-project/webapp/1.0-SNAPSHOT/webapp-1.0-SNAPSHOT.war
[JENKINS] Archiving /var/lib/jenkins/workspace/weekly-asm1/server/pom.xml to com.example.maven-project/server/1.0-SNAPSHOT/server-1.0-SNAPSHOT.pom
[JENKINS] Archiving /var/lib/jenkins/workspace/weekly-asm1/server/target/server.jar to com.example.maven-project/server/1.0-SNAPSHOT/server-1.0-SNAPSHOT.jar
[JENKINS] Archiving /var/lib/jenkins/workspace/weekly-asm1/pom.xml to com.example.maven-project/maven-project/1.0-SNAPSHOT/maven-project-1.0-SNAPSHOT.pom
channel stopped
Finished: SUCCESS
```

REST API Jenkins 2.516.1