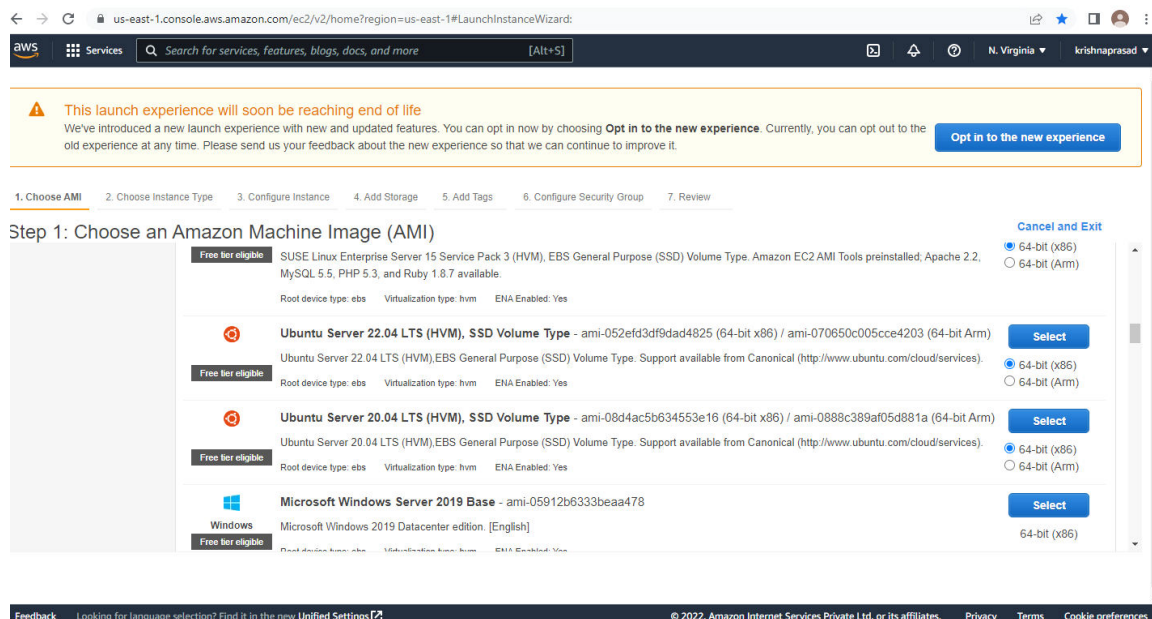
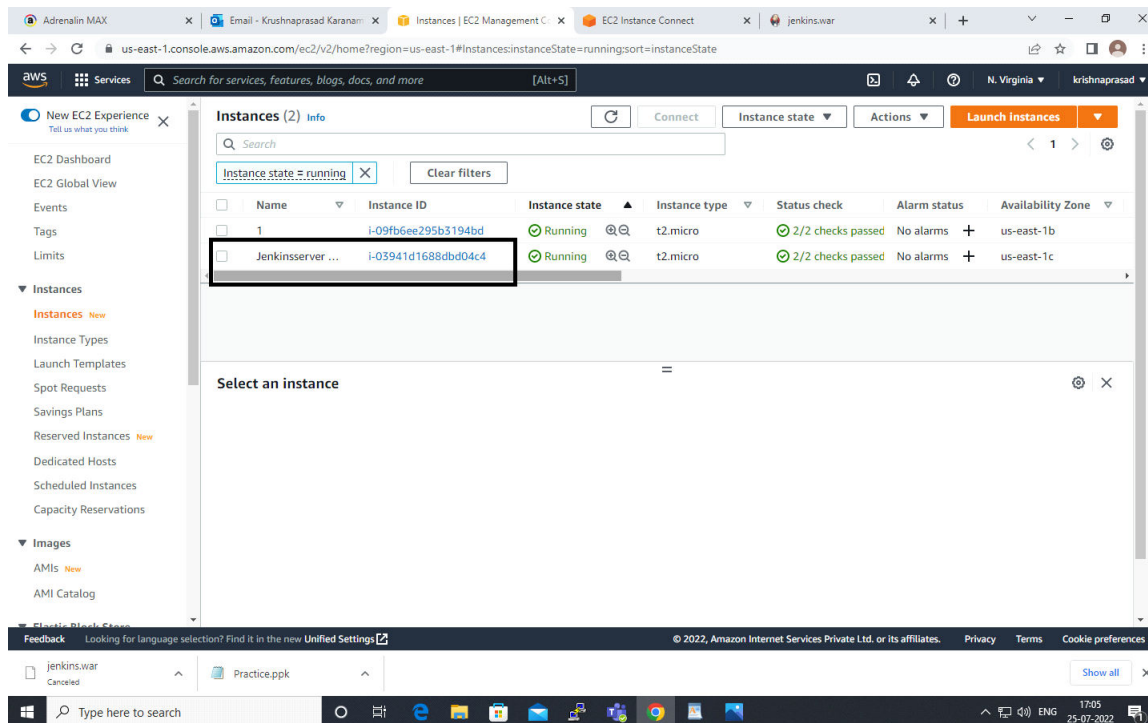


JENKINS INSTALLATION

JENKINS: Tool that is used for automation, and it is an open-source server that allows all the developers to build, test and deploy software. It works or runs on java as it is written in java. By using Jenkins, we can make a continuous integration of projects(jobs) or end-to-endpoint automation.

1.Sign-In to AWS Console: Launch an Instance.





Step 2: After 2/2 checks pass connect the instance from the browser. Use “sudo su -” for switch the root user for super user do permission access.

```

https://ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-081cf994f022ed339
Welcome to Ubuntu 22.04 LTS (GNU/Linux 5.15.0-1011-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

System information as of Mon Jul 25 08:49:01 UTC 2022

System load:  0.013671875      Processes:           103
Usage of /:   19.2% of 7.58GB   Users logged in:     0
Memory usage: 21%              IPv4 address for eth0: 172.31.37.129
Swap usage:   0%

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Mon Jul 25 08:47:06 2022 from 13.233.177.0
ubuntu@ip-172-31-37-129:~$ sudo su -
root@ip-172-31-37-129:~#

```

Step 3: use “sudo apt-get install -y openjdk-11-jdk” command installation of JAVA.

The screenshot shows an AWS console terminal window with the following content:

```
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-31-225:/home/ubuntu# java --version
openjdk 11.0.15 2022-04-19
OpenJDK Runtime Environment (build 11.0.15+10-Ubuntu-0ubuntu0.22.04.1)
OpenJDK 64-Bit Server VM (build 11.0.15+10-Ubuntu-0ubuntu0.22.04.1, mixed mode, sharing)
root@ip-172-31-31-225:/home/ubuntu# wget https://updates.jenkins.io/download/war/2.360/jenkins.war
--2022-07-25 11:25:22-- https://updates.jenkins.io/download/war/2.360/jenkins.war
Resolving updates.jenkins.io (updates.jenkins.io)... 52.202.51.185
Connecting to updates.jenkins.io (updates.jenkins.io)|52.202.51.185|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://get.jenkins.io/war/2.360/jenkins.war [following]
--2022-07-25 11:25:22-- https://get.jenkins.io/war/2.360/jenkins.war
Resolving get.jenkins.io (get.jenkins.io)... 52.167.253.43
Connecting to get.jenkins.io (get.jenkins.io)|52.167.253.43|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://ftp-nyc.osuosl.org/pub/jenkins/war/2.360/jenkins.war [following]
--2022-07-25 11:25:22-- https://ftp-nyc.osuosl.org/pub/jenkins/war/2.360/jenkins.war
Resolving ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)... 64.50.233.100, 2600:3404:200:237::2
Connecting to ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)|64.50.233.100|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 93427972 (89M) [application/x-java-archive]
Saving to: 'jenkins.war'
```

Below the terminal output, the instance details are shown:

```
i-03941d1688dbd04c4
PublicIPs: 18.234.210.218 PrivateIPs: 172.31.31.225
```

Step 6: command “`wget https://get.jenkins.io/war-stable/2.263.4/jenkins.war`” for download the war file by the url.

The screenshot shows the same AWS console terminal window as above, but with a red box highlighting the `wget` command and its output:

```
root@ip-172-31-31-225:/home/ubuntu# wget https://updates.jenkins.io/download/war/2.360/jenkins.war
--2022-07-25 11:25:22-- https://updates.jenkins.io/download/war/2.360/jenkins.war
Resolving updates.jenkins.io (updates.jenkins.io)... 52.202.51.185
Connecting to updates.jenkins.io (updates.jenkins.io)|52.202.51.185|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://get.jenkins.io/war/2.360/jenkins.war [following]
--2022-07-25 11:25:22-- https://get.jenkins.io/war/2.360/jenkins.war
Resolving get.jenkins.io (get.jenkins.io)... 52.167.253.43
Connecting to get.jenkins.io (get.jenkins.io)|52.167.253.43|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://ftp-nyc.osuosl.org/pub/jenkins/war/2.360/jenkins.war [following]
--2022-07-25 11:25:22-- https://ftp-nyc.osuosl.org/pub/jenkins/war/2.360/jenkins.war
Resolving ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)... 64.50.233.100, 2600:3404:200:237::2
Connecting to ftp-nyc.osuosl.org (ftp-nyc.osuosl.org)|64.50.233.100|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 93427972 (89M) [application/x-java-archive]
Saving to: 'jenkins.war'
```

Step 7: “`java -jar jenkins.war`” for run the junkins. And copy the password which generated end of the script.

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and user information (N. Virginia, krishnaprasad). The main content area displays the 'jenkins.war' file details, including its size (89.10M) and download speed (25.4MB/s). Below this, the 'PublicIPs' and 'PrivateIPs' are listed. The 'Feedback' section is visible at the bottom of the console. The terminal output shows the command 'java -jar jenkins.war' being executed, followed by a series of log messages indicating the successful installation of Jenkins. The logs include information about the Eclipse Jetty server, the Winstone logger, and the Jenkins initialization process. A red box highlights the 'jenkins.war' file name in the terminal command. Another red box highlights the generated administrator password 'a29a556fb084bea881557c29828d372' in the terminal output. The bottom of the terminal shows the Jenkins initial setup instructions, including the URL to access the Jenkins web interface and the location of the initial administrator password file.

```
jenkins.war
100% [=====] 89.10M 25.4MB/s in 4.0s

2022-07-25 11:25:26 (22.5 MB/s) - 'jenkins.war' saved [Y342/Y/2/Y342/Y/2]

root@ip-172-31-31-225:/home/ubuntu# java -jar jenkins.war
Running from: /home/ubuntu/jenkins.war
Subroot: $user.home/.jenkins
2022-07-25 11:26:16.949+0000 [id=1] INFO org.eclipse.jetty.util.log.Log initialized: Logging initialized @1293ms to org.eclipse.jetty.util.log.JavaUtil
log
2022-07-25 11:26:17.142+0000 [id=1] INFO winstone.Logger$logInternal: Beginning extraction from war file
2022-07-25 11:26:18.668+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler$doStart: Empty contextPath
2022-07-25 11:26:18.820+0000 [id=1] INFO org.eclipse.jetty.server.Server$doStart: jetty-9.4.46.v20220331; built: 2022-03-31T16:38:08.030Z; qit: bc17a03
ballecf40bb92e83989e408ae30ae10; jvm
2022-07-25 11:26:19.400+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor$visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.jsp.Jet
tyJspServlet
2022-07-25 11:26:19.581+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager$doStart: DefaultSessionIdManager workerName=node0
2022-07-25 11:26:19.581+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager$doStart: No SessionScavenger set, using defaults
2022-07-25 11:26:20.608+0000 [id=1] INFO o.e.j.server.session.HouseKeeper$doStart: Scavenging: mode0 Scavenging every 60000ms
2022-07-25 11:26:20.608+0000 [id=1] INFO hudson.WebAppMain$contextInitialized: Jenkins home directory: /root/.jenkins found at: $user.home/.jenkins
2022-07-25 11:26:21.306+0000 [id=1] INFO o.e.j.s.handler.ContextHandler$doStart: Started w.83104f7bd(Jenkins v2.360,,file:///root/.jenkins/war/.AWAIIA
BLE)/root/.jenkins/war
2022-07-25 11:26:21.387+0000 [id=1] INFO o.e.j.server.AbstractConnector$doStart: Started ServerConnector@11bb571c[HTTP/1.1, (http/1.1)]{0.0.0.0:8080}
2022-07-25 11:26:21.388+0000 [id=1] INFO org.eclipse.jetty.server.Server$doStart: Started @5733ms
2022-07-25 11:26:21.397+0000 [id=23] INFO winstone.Logger$logInternal: Winstone Servlet Engine running: controlPort=disabled
2022-07-25 11:26:21.493+0000 [id=28] INFO jenkins.InitReactorRunner$1onAttained: Started initialization
2022-07-25 11:26:22.035+0000 [id=29] INFO jenkins.InitReactorRunner$1onAttained: Listed all plugins
2022-07-25 11:26:23.836+0000 [id=29] INFO jenkins.InitReactorRunner$1onAttained: Prepared all plugins
2022-07-25 11:26:23.843+0000 [id=29] INFO jenkins.InitReactorRunner$1onAttained: Started all plugins
2022-07-25 11:26:23.896+0000 [id=29] INFO jenkins.InitReactorRunner$1onAttained: Augmented all extensions
2022-07-25 11:26:24.409+0000 [id=29] INFO jenkins.InitReactorRunner$1onAttained: System config loaded

i-03941d1688dbd04c4
PublicIPs: 18.234.210.218 PrivateIPs: 172.31.31.225

Feedback Looking for language selection? Find it in the new Unified Settings
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jenkins.war
Canceled Practice.ppk
Show all

Type here to search

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-03941d1688dbd04c4&osUser=ubuntu&sshPort=22#/>
aws Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia krishnaprasad

2022-07-25 11:26:24.403+0000 [id=29] INFO jenkins.InitReactorRunner$1onAttained: System config loaded
2022-07-25 11:26:24.404+0000 [id=29] INFO jenkins.InitReactorRunner$1onAttained: System config adapted
2022-07-25 11:26:24.405+0000 [id=29] INFO jenkins.InitReactorRunner$1onAttained: Loaded all jobs
2022-07-25 11:26:24.411+0000 [id=29] INFO jenkins.InitReactorRunner$1onAttained: Configuration for all jobs updated
2022-07-25 11:26:24.464+0000 [id=42] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$1: Started Download metadata
2022-07-25 11:26:24.498+0000 [id=42] INFO hudson.util.Retrier$1start: Attempt #1 to do the action check updates server
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.codehaus.groovy.vmplugin.v7.Java7$1 (file:/root/.jenkins/war/WEB-INF/lib/groovy-all-2.4.21.jar) to constructor java
lang.invoke.MethodHandles$Lookup(java.lang.Class,int)
WARNING: Please consider reporting this to the maintainers of org.codehaus.groovy.vmplugin.v7.Java7$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2022-07-25 11:26:26.179+0000 [id=29] INFO jenkins.install.SetupWizard$init:

*****
*****
*****

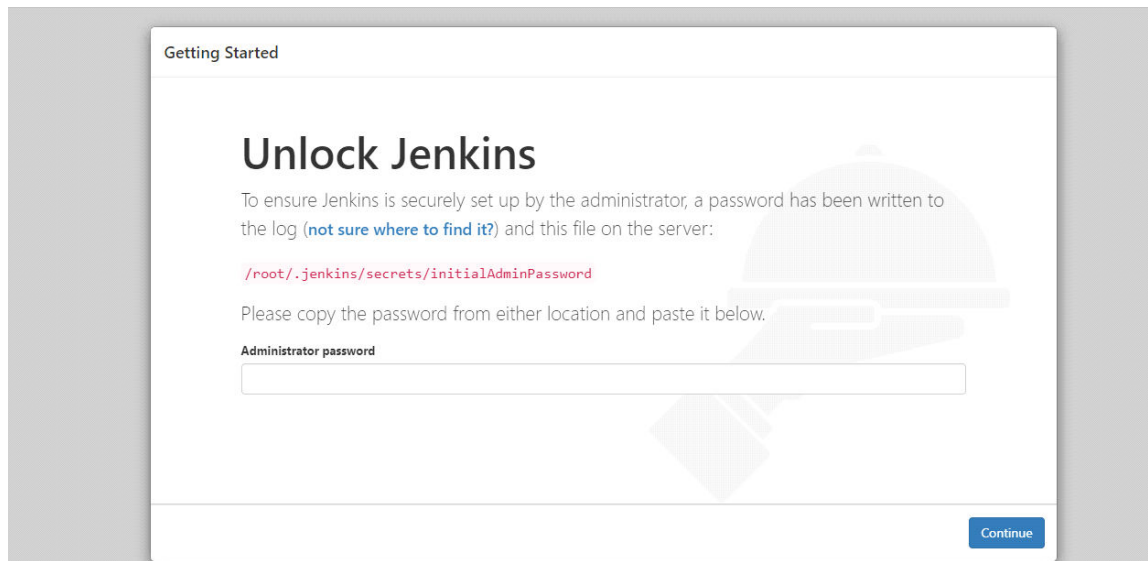
Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:

a29a556fb084bea881557c29828d372

This may also be found at: /root/.jenkins/secrets/initialAdminPassword

*****
*****
*****
```

Step 8: After jenkinsup >> open the local browser enter the Public ip:8080 (172.31.31.225:8080) ,Paste the administrator password which are copied in previous.



Step 9: Next customize jenkins >> choose the install suggested plugins for best practice.



Step 10: create the user profile, for access the jenkins.

Getting Started

Create First Admin User

Username:

admin

Password:

.....

Confirm password:

.....

Full name:


admin





Jenkins 2.263.4

[Skip and continue as admin](#)

[Save and Continue](#)

Step 11 : Completed the Installation, The jenkins dashboard will appear as shown in the below picture.

 **Jenkins**

  3  admin  log out

Dashboard

New Item

People

Build History

Manage Jenkins

My Views

New View


Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

 add description

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job →

Set up a distributed build

Set up an agent →

Configure a cloud →

Learn more about distributed builds ↗

