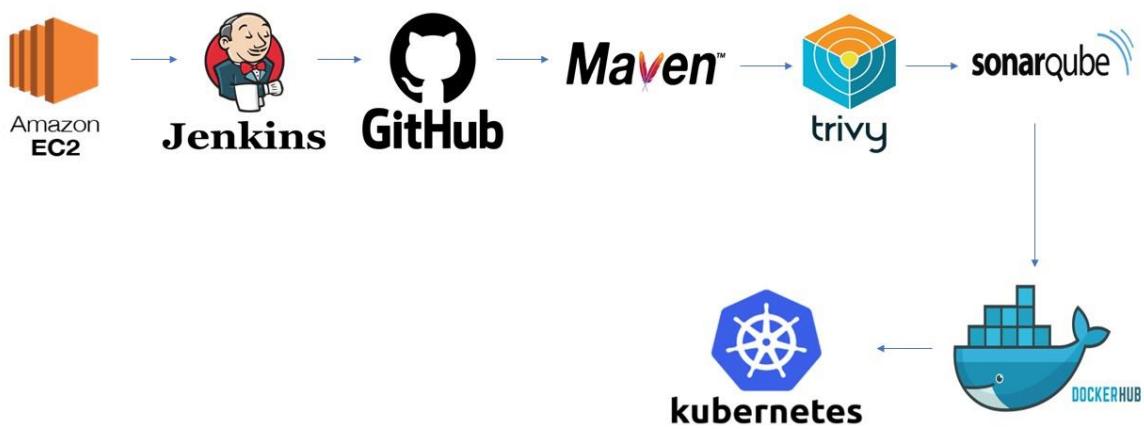


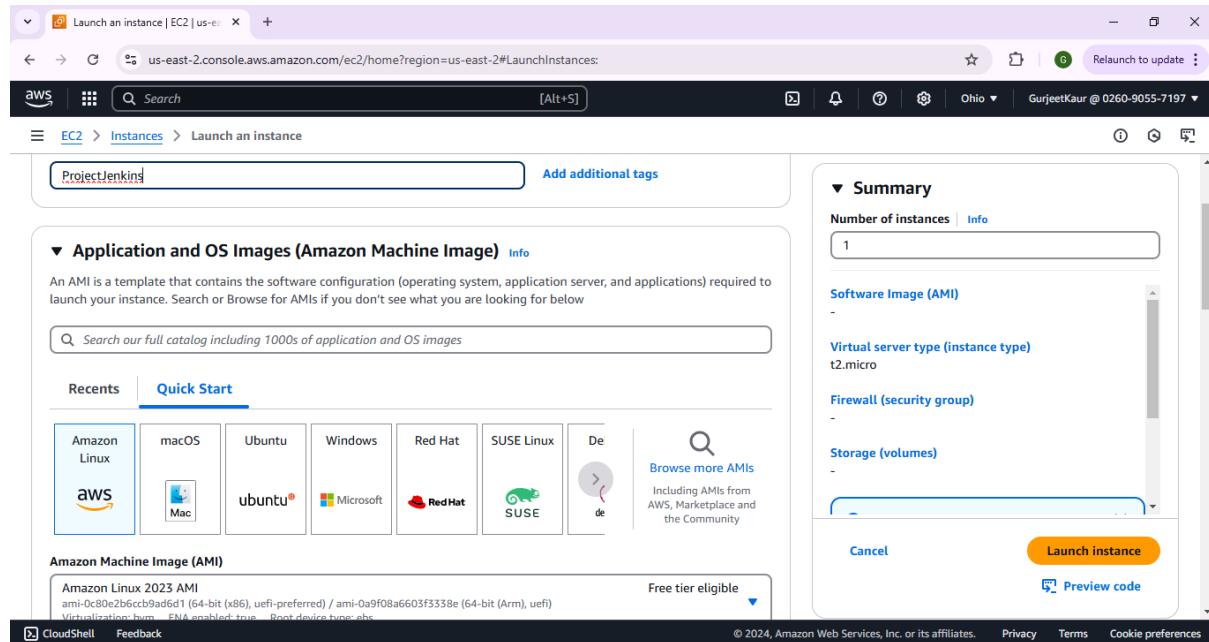
CICD pipeline for Boardgame application

A CI/CD pipeline is a series of automated steps that streamline the software development lifecycle, enabling faster and more reliable software releases. It combines continuous integration (CI) and continuous delivery/deployment (CD) practices.

Architecture of CICD pipeline:



Created instance



Launch an instance | EC2 | us-east-2 | Relaunch to update

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

Search [Alt+S]

EC2 > Instances > Launch an instance

ProjectJenkins

Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux Deepin

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI
ami-0c80e2b6ccb9ad6d1 (64-bit (x86), uefi-preferred) / ami-0a9f08a6603f3338e (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Summary

Number of instances | Info

1

Software Image (AMI)

Virtual server type (instance type)

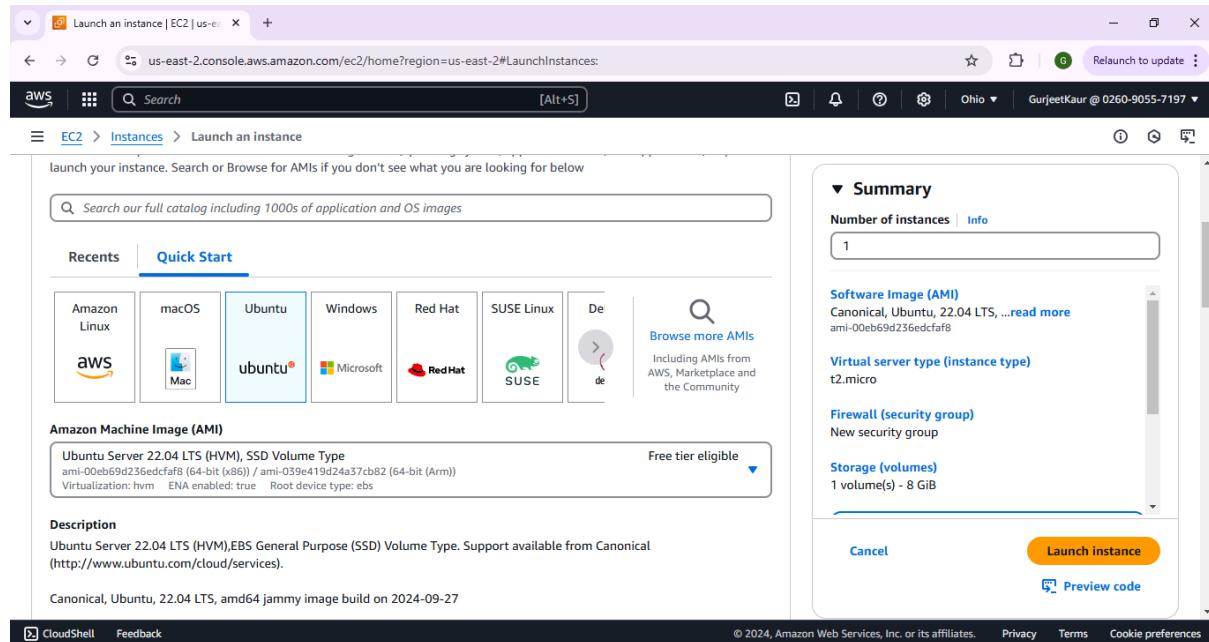
t2.micro

Firewall (security group)

Storage (volumes)

Cancel Launch instance Preview code

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Launch an instance | EC2 | us-east-2 | Relaunch to update

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

Search [Alt+S]

EC2 > Instances > Launch an instance

launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux Deepin

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
ami-00eb69d236edcfa8 (64-bit (x86)) / ami-039e419d24a37cb82 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Ubuntu Server 22.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2024-09-27

Summary

Number of instances | Info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more
ami-00eb69d236edcfa8

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel Launch instance Preview code

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Launch an instance | EC2 | us-east-2 | Relaunch to update

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances

Search [Alt+S]

EC2 Instances Launch an instance

Instance type Info | Get advice

Instance type

t2.large

Family: t2 2 vCPU 8 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0928 USD per Hour

On-Demand Ubuntu Pro base pricing: 0.0963 USD per Hour

On-Demand Windows base pricing: 0.1208 USD per Hour

On-Demand SUSE base pricing: 0.1928 USD per Hour

On-Demand RHEL base pricing: 0.1216 USD per Hour

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

newone

Create new key pair

Network settings Info

CloudShell Feedback Edit

Summary

Number of instances 1

Software image (AMI) Canonical, Ubuntu, 22.04 LTS, ...read more ami-00eb69d236edcfaf8

Virtual server type (instance type) t2.large

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 8 GiB

Cancel Launch instance Preview code

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Launch an instance | EC2 | us-east-2 | Relaunch to update

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances

Search [Alt+S]

EC2 Instances Launch an instance

Network Info

vpc-003668e7bfacba25d

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

Allow SSH traffic from Anywhere 0.0.0.0/0

Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security X

Summary

Number of instances 1

Software image (AMI) Canonical, Ubuntu, 22.04 LTS, ...read more ami-00eb69d236edcfaf8

Virtual server type (instance type) t2.large

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 8 GiB

Cancel Launch instance Preview code

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Launch an instance | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

Search [Alt+S]

EC2 Instances Launch an instance

Configure storage Info Advanced

1x 14 GiB gp2 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems Edit

Advanced details Info

CloudShell Feedback

Summary

Number of instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more

ami-00eb69d236edc1af8

Virtual server type (instance type)

t2.large

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 14 GiB

Cancel Launch instance Preview code

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Instances | EC2 | us-east-2

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:

Search [Alt+S]

Instances (1/2) Info

Last updated less than a minute ago

Find Instance by attribute or tag (case-sensitive)

All states

Launch instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

ProjectJenkins i-09850cb055ffbbbad Running t2.large Initializing View alarms us-east-2

ProjectJenkins i-0211097b6d9f38dd0 Terminated t2.large - View alarms us-east-2

CloudShell Feedback

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Installed Jenkins on the server and created IAM role for it and attached to EC2 instance

```
ubuntu@ip-172-31-4-107:~  
admin@DESKTOP-3A6NR56 MINGW64 ~/Desktop/Gurjeet_Data/Gitpractice (test)  
$ ssh -i "newone.pem" ubuntu@ec2-3-133-145-125.us-east-2.compute.amazonaws.com  
The authenticity of host 'ec2-3-133-145-125.us-east-2.compute.amazonaws.com (3.133.145.125)' can't be established.  
ED25519 key fingerprint is SHA256:FpCKewPiPcGKE09Q2IK7WoVr5eg2kxwvTdrM629yg.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
warning: Permanently added 'ec2-3-133-145-125.us-east-2.compute.amazonaws.com' (ED25519) to the list of known hosts.  
Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 6.8.0-1015-aws x86_64)  
  
* Documentation: https://help.ubuntu.com  
* Management: https://landscape.canonical.com  
* Support: https://ubuntu.com/pro  
  
System information as of Thu Dec 12 17:26:54 UTC 2024  
  
System load: 0.25 Processes: 123  
Usage of /: 11.9% of 13.39GB Users logged in: 0  
Memory usage: 2% IPv4 address for eth0: 172.31.4.107  
Swap usage: 0%  
  
Expanded Security Maintenance for Applications is not enabled.  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*copyright*.  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
ubuntu@ip-172-31-4-107:~$
```

```
ubuntu@ip-172-31-4-107:~  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*copyright*.  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
ubuntu@ip-172-31-4-107:~$ sudo apt update  
Hit 1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease  
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]  
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]  
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]  
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]  
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]  
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]  
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]  
Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]  
Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 kB]  
Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2193 kB]  
Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [374 kB]  
Get:13 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [17.9 kB]  
Get:14 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [2733 kB]  
Get:15 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [477 kB]  
Get:16 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [612 kB]  
Get:17 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1180 kB]  
Get:18 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [288 kB]  
Get:19 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [26.4 kB]  
Get:20 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [44.4 kB]  
Get:21 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [15.5 kB]  
Get:22 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [440 kB]  
Get:23 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.7 kB]  
Get:24 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.1 kB]  
Get:25 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 kB]  
Get:26 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 kB]  
Get:27 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [228.0 kB]
```

```
ubuntu@ip-172-31-4-107:~  
Get:28 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]  
Get:29 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [672 B]  
Get:30 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]  
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1968 kB]  
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [314 kB]  
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [13.3 kB]  
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [2644 kB]  
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [460 kB]  
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [580 B]  
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [958 kB]  
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [204 kB]  
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [19.5 kB]  
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.6 kB]  
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [8260 B]  
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [224 B]  
Fetched 34.8 MB in 195 (1797 kB/s)  
Reading package lists... done  
Building dependency tree... done  
Reading state information... done  
37 packages can be upgraded. Run 'apt list --upgradable' to see them.  
ubuntu@ip-172-31-4-107:~$ java  
Command 'java' not found, but can be installed with:  
sudo apt install openjdk-11-jre-headless # version 11.0.24+8-ubuntu3--22.04, or  
sudo apt install default-jre # version 2:1.11-7build2  
sudo apt install openjdk-17-jre-headless # version 17.0.12+7-1ubuntu2--22.04  
sudo apt install openjdk-18-jre-headless # version 18.0.2+9-2--22.04  
sudo apt install openjdk-19-jre-headless # version 19.0.2+47-ubuntu3--22.04  
sudo apt install openjdk-21-jre-headless # version 21.0.4+7-1ubuntu2--22.04  
sudo apt install openjdk-8-jre-headless # version 8u422-b05-1--22.04  
ubuntu@ip-172-31-4-107:~$ sudo apt install openjdk-17-jre-headless  
Reading package lists... done  
Building dependency tree... done  
Reading state information... done  
The following additional packages will be installed:  
  alsatopology-conf alsauucm-conf ca-certificates-java fontconfig-config fonts-dejavu-core java-common libasound2 libasound2-data libavahi-client3  
  libavahi-common-data libavahi-common3 libcupsys2 libfontconfig1 libgraphite2-3 libharfbuzz0b libjpeg-turbo8 libjpeg8 libicms2-2 libpcssclite1  
Suggested packages:  
  default-jre libasound2-plugins alsacard cups-common liblcm2-utils pcscd libnss-mdns fonts-dejavu-extra fonts-ipafont-gothic fonts-ipafont-mincho  
  fonts-wqy-microhei1 fonts-wqy-zhenhei fonts-indic  
The following NEW packages will be installed:  
  alsatopology-conf alsauucm-conf ca-certificates-java fontconfig-config fonts-dejavu-core java-common libasound2 libasound2-data libavahi-client3  
  libavahi-common-data libavahi-common3 libcupsys2 libfontconfig1 libgraphite2-3 libharfbuzz0b libjpeg-turbo8 libjpeg8 libicms2-2 libpcssclite1 openjdk-17-jre-headless  
0 upgraded, 1 newly installed, 0 to remove and 37 not upgraded.  
Need to get 51.1 MB of archives.  
After this operation, 203 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y
```

```
ubuntu@ip-172-31-4-107:~  
sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \  
https://pkgs.jenkins.io/debian/jenkins.io-2023.key  
echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \  
https://pkgs.jenkins.io/debian binary/ | sudo tee \  
/etc/apt/sources.list.d/jenkins.list > /dev/null  
sudo apt-get update  
sudo apt-get install jenkins -y  
sudo systemctl enable jenkins|
```

```
ubuntu@ip-172-31-4-107:~  
Updating certificates in /etc/ssl/certs...  
0 added, 0 removed; done.  
Running hooks in /etc/ca-certificates/update.d...  
done.  
done.  
Setting up openjdk-17-jre-headless:amd64 (17.0.13+11-2ubuntu1~22.04) ...  
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/java to provide /usr/bin/java (java) in auto mode  
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jpackage to provide /usr/bin/jpackage (jpackage) in auto mode  
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/keytool to provide /usr/bin/keytool (keytool) in auto mode  
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/rmiregistry to provide /usr/bin/rmiregistry (rmiregistry) in auto mode  
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/lib/jexec to provide /usr/bin/jexec (jexec) in auto mode  
scanning processes...  
scanning linux images...  
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.  
ubuntu@ip-172-31-4-107:~ vi jenkins.sh  
ubuntu@ip-172-31-4-107:~ vi jenkins.sh  
ubuntu@ip-172-31-4-107:~ sh jenkins.sh  
--2024-12-12 17:28:48-- https://pkg.jenkins.io/debian/jenkins.io-2023.key  
Resolving pkg.jenkins.io (pkg.jenkins.io)... 146.75.78.133, 2a04:4e42:83::645  
Connecting to pkg.jenkins.io (pkg.jenkins.io)|146.75.78.133|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 3175 (3.1K) [application/pgp-keys]  
Saving to: '/usr/share/keyrings/jenkins-keyring.asc'  
  
/usr/share/keyrings/jenkins-keyring.asc 100%[=====] 3.10K --.-KB/s in 0s  
2024-12-12 17:28:48 (60.0 MB/s) - '/usr/share/keyrings/jenkins-keyring.asc' saved [3175/3175]  
  
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease  
Hit:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Hit:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease  
Ign:5 https://pkg.jenkins.io/debian binary/ InRelease  
Get:6 https://pkg.jenkins.io/debian binary/ Release [2044 B]  
Get:7 https://pkg.jenkins.io/debian binary/ Release.gpg [833 B]  
Get:8 https://pkg.jenkins.io/debian binary/ Packages [66.5 kB]
```

```
ubuntu@ip-172-31-4-107:~  
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease  
Ign:5 https://pkg.jenkins.io/debian binary/ InRelease  
Get:6 https://pkg.jenkins.io/debian binary/ Release [2044 B]  
Get:7 https://pkg.jenkins.io/debian binary/ Release.gpg [833 B]  
Get:8 https://pkg.jenkins.io/debian binary/ Packages [66.5 kB]  
Fetched 69.4 kB in 1s (111 kB/s)  
Reading package lists... Done  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  net-tools  
The following NEW packages will be installed:  
  Jenkins  
0 upgraded, 2 newly installed, 0 to remove and 37 not upgraded.  
Need to get 94.0 MB of additional disk space will be used.  
After this operation, 96.6 MB of additional disk space will be used.  
get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 net-tools amd64 1.60+git20181103.Oeebece-1ubuntu5 [204 kB]  
get:2 https://pkg.jenkins.io/debian binary/ jenkins 2.489 [93.8 kB]  
Fetched 94.0 MB in 10s (9717 kB/s)  
Selecting previously unselected package net-tools.  
(Reading database ... 66869 files and directories currently installed.)  
Preparing to unpack .../net-tools_1.60+git20181103.Oeebece-1ubuntu5_amd64.deb ...  
Unpacking net-tools (1.60+git20181103.Oeebece-1ubuntu5) ...  
Selecting previously unselected package jenkins.  
Preparing to unpack .../archives/jenkins_2.489_all.deb ...  
Unpacking jenkins (2.489) ...  
Setting up net-tools (1.60+git20181103.Oeebece-1ubuntu5) ...  
Setting up jenkins (2.489) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.  
Processing triggers for man-db (2.10.2-1) ...  
Scanning processes...  
Scanning linux images...  
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.  
Synchronizing state of jenkins.service with sysV service script with /lib/systemd/systemd-sysv-install.  
Executing: /lib/systemd/systemd-sysv-install enable jenkins  
ubuntu@ip-172-31-4-107:~
```

```

ubuntu@ip-172-31-4-107:~ 
Unpacking jenkins (2.489) ...
Setting up net-tools (1.60+git20181103.0eebece-lubuntu5) ...
Setting up jenkins (2.489) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning Linux images...
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.
Synchronizing state of jenkins service with sysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-172-31-4-107:~$ sudo systemctl start jenkins
ubuntu@ip-172-31-4-107:~$ sudo systemctl status jenkins
● Jenkins.service - Jenkins continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
     Active: active (running) since Thu 2024-12-12 17:29:11 UTC; 17s ago
       PID: 4181 (java)
      Tasks: 50 (limit: 9507)
        Memory: 722.4M
         CPU: 15.992s
        CGroup: /system.slice/jenkins.service
                 └─4181 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: ad37df294d2d40dfa31c36b4242413ef
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: ****
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: 2024-12-12 17:29:11.460+0000 [id=33] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: 2024-12-12 17:29:11.478+0000 [id=23] INFO hudson.lifecycle.Lifecycle$OnReady: Jenkins is fully up and runn
Dec 12 17:29:11 ip-172-31-4-107 systemd[1]: started Jenkins Continuous Integration Server.
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: 2024-12-12 17:29:11.767+0000 [id=48] INFO h.m.DownloadService$Downloadable#load: obtained the updated data
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: 2024-12-12 17:29:11.767+0000 [id=48] INFO hudson.util.Retriger#start: Performed the action check updates se

ubuntu@ip-172-31-4-107:~$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with sysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-172-31-4-107:~$
```

The screenshot shows the AWS IAM Roles page. The left sidebar navigation includes 'Identity and Access Management (IAM)', 'Dashboard', 'Access management' (with 'User groups', 'Users', 'Roles' selected), 'Policies', 'Identity providers', 'Account settings', and 'Root access management'. The main content area displays a table titled 'Roles (22) Info' with a search bar. The table has columns for 'Role name', 'Trusted entities', and 'Last activity'. The roles listed are: AWSServiceRoleForAmazonEKS, AWSServiceRoleForAmazonEKSNodegroup, AWSServiceRoleForAutoScaling, AWSServiceRoleForElasticLoadBalancing, AWSServiceRoleForGlobalAccelerator, AWSServiceRoleForRDS, AWSServiceRoleForSupport, AWSServiceRoleForTrustedAdvisor, AWSServiceRoleForVPCTransitGateway, eksctl-eks15-cluster-ServiceRole-BC5tP4f4wos, and eksctl-eks15-nodegroup-my-nodes-NodeInstanceRole-GeM4Ia1Bxgc3. Each role entry shows its last activity time.

Role name	Trusted entities	Last activity
AWSServiceRoleForAmazonEKS	AWS Service: eks (Service-Linked Role)	5 days ago
AWSServiceRoleForAmazonEKSNodegroup	AWS Service: eks-nodegroup (Service)	5 days ago
AWSServiceRoleForAutoScaling	AWS Service: autoscaling (Service)	5 days ago
AWSServiceRoleForElasticLoadBalancing	AWS Service: elasticloadbalancing (Service)	5 days ago
AWSServiceRoleForGlobalAccelerator	AWS Service: globalaccelerator (Service)	-
AWSServiceRoleForRDS	AWS Service: rds (Service-Linked Role)	2 hours ago
AWSServiceRoleForSupport	AWS Service: support (Service-Linked Role)	-
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service)	-
AWSServiceRoleForVPCTransitGateway	AWS Service: transittgateway (Service)	85 days ago
eksctl-eks15-cluster-ServiceRole-BC5tP4f4wos	AWS Service: eks	5 days ago
eksctl-eks15-nodegroup-my-nodes-NodeInstanceRole-GeM4Ia1Bxgc3	AWS Service: ec2	5 days ago

Screenshot of the AWS IAM 'Create role' wizard Step 1: Select trusted entity.

The page shows the 'Trusted entity type' section with the following options:

- AWS service: Allow AWS services like EC2, Lambda, or others to perform actions in this account.
- AWS account: Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
- Web identity: Allows users Federated by the specified external web identity provider to assume this role to perform actions in this account.
- SAML 2.0 federation: Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
- Custom trust policy: Create a custom trust policy to enable others to perform actions in this account.

Below this, the 'Use case' section specifies 'Service or use case: EC2'.

At the bottom, the navigation bar includes CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

Screenshot of the AWS IAM 'Create role' wizard Step 2: Add permissions.

The page shows the 'Permissions policies' section with the following details:

Choose one or more policies to attach to your new role.

Filter by Type: All types

Policy name	Type	Description
<input checked="" type="checkbox"/> AdministratorAccess	AWS managed - job function	Provides full access to AWS services an...
<input type="checkbox"/> AdministratorAccess-Amplify	AWS managed	Grants account administrative permisi...
<input type="checkbox"/> AdministratorAccess-AWSElasticBeanstalk	AWS managed	Grants account administrative permisi...
<input type="checkbox"/> AIOpsAssistantPolicy	AWS managed	Provides ReadOnly permissions require...
<input type="checkbox"/> AIOpsConsoleAdminPolicy	AWS managed	Grants full access to Amazon AI Opera...
<input type="checkbox"/> AIOpsOperatorAccess	AWS managed	Grants access to the Amazon AI Opera...
<input type="checkbox"/> AIOpsReadOnlyAccess	AWS managed	Grants ReadOnly permissions to the A...
<input type="checkbox"/> AlexaForBusinessDeviceSetup	AWS managed	Provide device setup access to AlexaFo...

At the bottom, the navigation bar includes CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

Screenshot of the AWS IAM 'Create role' wizard - Step 3: Name, review, and create.

Role details

Role name: jenkinsrole

Description: Allows EC2 instances to call AWS services on your behalf.

Step 1: Select trusted entities

Trust policy (JSON code shown):

```
1  {
2    "Version": "2012-10-17",
3    "Statement": [
4      {
5        "Effect": "Allow",
6        "Action": [
7          "sts:AssumeRole"
8        ],
9        "Principal": [
10          "ec2.amazonaws.com"
11        ]
12      }
13    ]
14 }
```

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Screenshot of the AWS EC2 Instances page.

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	State
ProjectJenkins	i-09850cb055ffbbbad	Running	t2.large	green
ProjectJenkins	i-0211097b6d9f38dd0	Terminated	t2.large	grey

Actions dropdown menu open, showing options: Connect, View details, Manage instance state, Instance settings, Networking, Security, Image and templates, Monitor and troubleshoot.

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Screenshot of the AWS IAM Modify IAM role page for EC2 instance i-09850cb055ffbbbad.

Instance ID: i-09850cb055ffbbbad (ProjectJenkins)

IAM role: Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

Role selected: jenkinsrole

Buttons: Cancel, Update IAM role

Screenshot of the AWS Security Groups page for security group sg-07436131526538cd9.

Details:

Security group name: launch-wizard-2	Security group ID: sg-07436131526538cd9	Description: launch-wizard-2 created 2024-12-12T17:24:58.730Z	VPC ID: vpc-003668e7bfacba25d
Owner: 026090557197	Inbound rules count: 2 Permission entries	Outbound rules count: 1 Permission entry	

Inbound rules (2):

Name	Security group rule ID	IP version	Type	Protocol
-	sgr-05033dd93ddb49d40	IPv4	SSH	TCP

Screenshot of the AWS EC2 Security Groups console showing the 'Edit inbound rules' wizard.

The 'Inbound rules' table lists three existing rules:

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sqr-05033dd93ddb49d40	SSH	TCP	22	Custom	0.0.0.0/0
sgr-07e3028b19e6749a5	HTTP	TCP	80	Custom	0.0.0.0/0
-	All traffic	All	All	Anywhere	0.0.0.0/0

A new rule is being added with the following details:

Type	Protocol	Port range	Source	Description
SSH	TCP	22	Custom	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."

Buttons at the bottom right include: Cancel, Preview changes, Save rules.

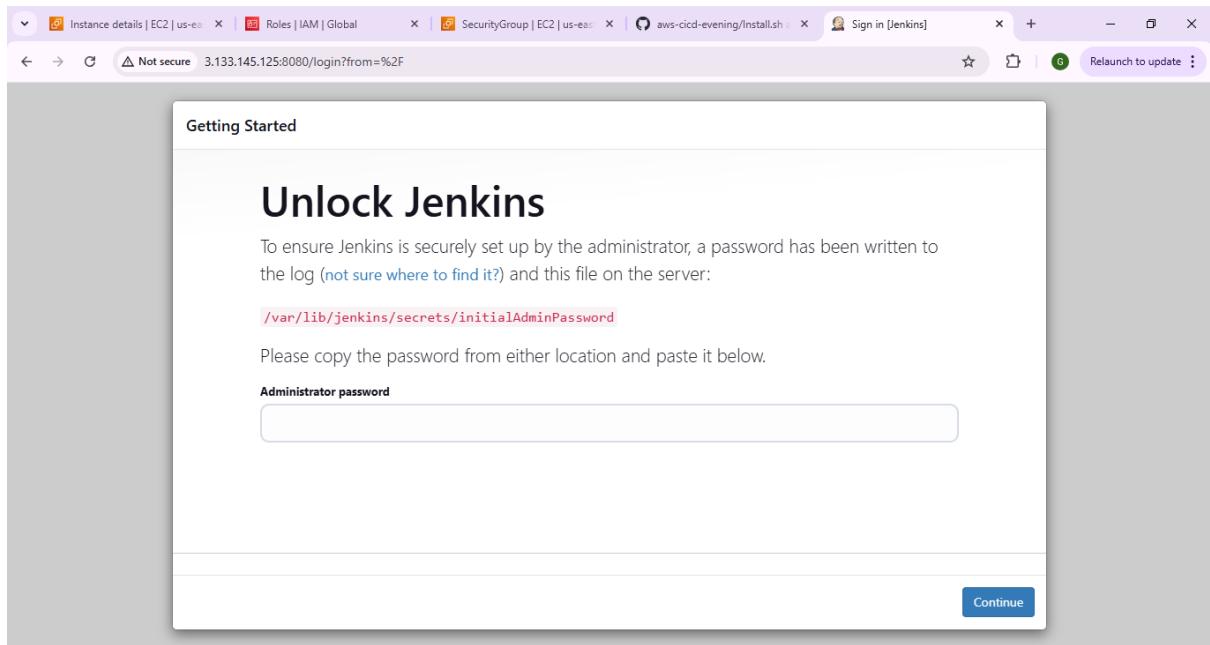
Screenshot of the AWS EC2 Instances console showing the 'Instance details' view for instance i-09850cb055ffbbbad.

The left sidebar shows navigation links: Snapshots, Lifecycle Manager, Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups, Trust Stores), Auto Scaling (Auto Scaling Groups, Settings).

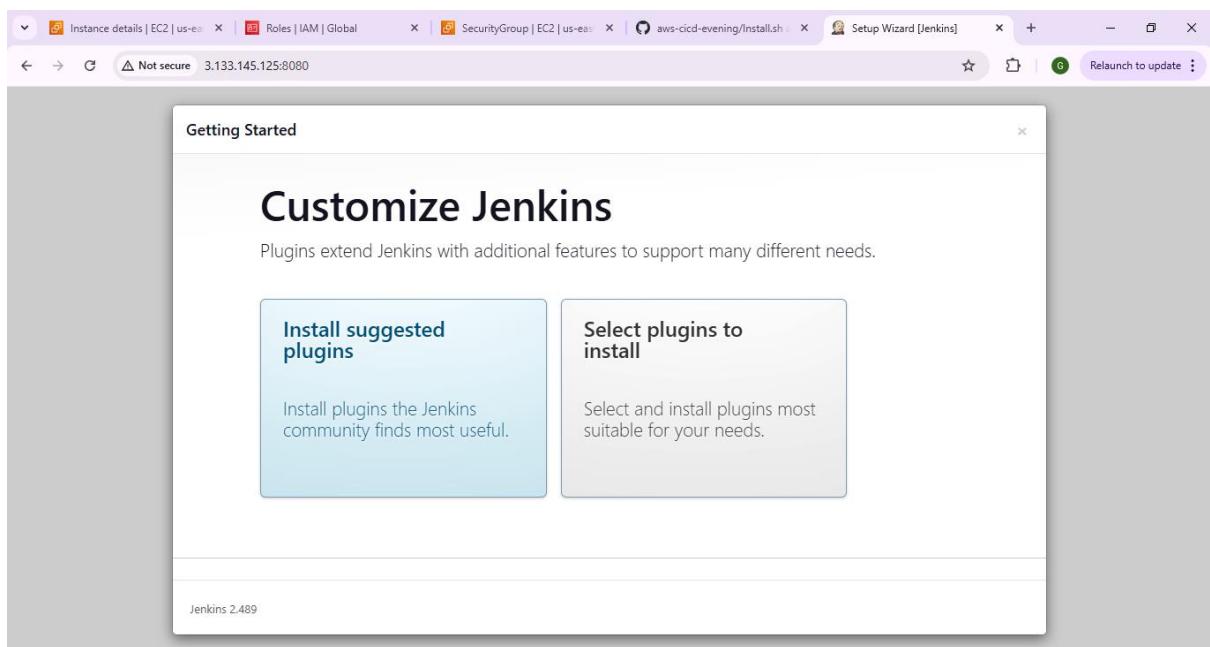
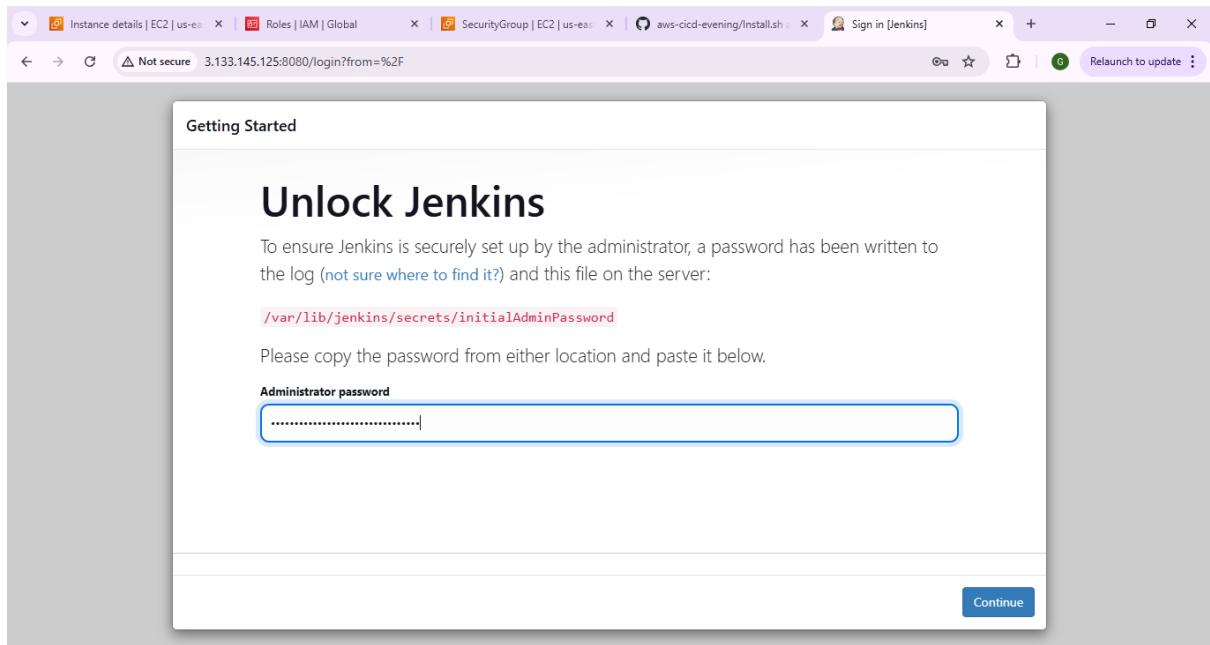
The main content area displays the instance summary for i-09850cb055ffbbbad (ProjectJenkins):

Instance summary for i-09850cb055ffbbbad (ProjectJenkins)	
Instance ID	i-09850cb055ffbbbad
IPv6 address	-
Hostname type	IP name: ip-172-31-4-107.us-east-2.compute.internal
Answer private resource DNS name	IPv4 (A)
Auto-assigned IP address	3.133.145.125 [Public IP]
IAM Role	-
Public IPv4 address copied	3.133.145.125 open address
Private IP DNS name (IPv4 only)	ip-172-31-4-107.us-east-2.compute.internal
Instance type	t2.large
VPC ID	vpc-003668e7bfacba25d
Subnet ID	-
Private IPv4 addresses	172.31.4.107
Public IPv4 DNS	ec2-3-133-145-125.us-east-2.compute.amazonaws.com
Elastic IP addresses	-
AWS Compute Optimizer finding	Opt-in to AWS Compute Optimizer for recommendations.
Auto Scaling Group name	-

Buttons at the bottom right include: CloudShell, Feedback.



```
ubuntu@ip-172-31-4-107:~  
System load: 0.01 Processes: 113  
Usage of /: 17.2% of 13.39GB Users Logged in: 0  
Memory usage: 10% IPv4 address for eth0: 172.31.4.107  
Swap usage: 0%  
  
Expanded Security Maintenance for Applications is not enabled.  
40 updates can be applied immediately.  
35 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
New release '24.04.1 LTS' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
Last Login: Thu Dec 12 17:26:55 2024 from 142.182.77.21  
ubuntu@ip-172-31-4-107:~$ sudo systemctl status jenkins  
● jenkins.service - Jenkins continuous Integration Server  
  Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)  
  Active: active (running) since Thu 2024-12-12 17:29:11 UTC; 4min 10s ago  
    Main PID: 4181 (java)  
      Tasks: 45 (limit: 9507)  
     Memory: 722.2M  
        CPU: 16.343s  
       CGroup: /system.slice/jenkins.service  
           └─4181 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080  
  
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: ad37df294d2d40dfa31c36b4242413ef INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization  
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: Jenkins has also been found at: /var/lib/jenkins/secrets/initialAdminPassword INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running  
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: ****  
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: ****  
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: ****  
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: 2024-12-12 17:29:11.460+0000 [id=33] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization  
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: 2024-12-12 17:29:11.478+0000 [id=23] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running  
Dec 12 17:29:11 ip-172-31-4-107 systemd[1]: Started Jenkins Continuous Integration Server.  
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: 2024-12-12 17:29:11.767+0000 [id=48] INFO hudson.util.Retriger#start: Performed the action check updates sequentially  
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: 2024-12-12 17:29:11.767+0000 [id=48] INFO hudson.util.Retriger#start: Performed the action check updates sequentially  
|  
ubuntu@ip-172-31-4-107:~$ sudo systemctl start jenkins  
ubuntu@ip-172-31-4-107:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword  
ad37df294d2d40dfa31c36b4242413ef  
ubuntu@ip-172-31-4-107:~$
```



Instance details | EC2 | us-east-1 | Roles | IAM | Global | SecurityGroup | EC2 | us-east-1 | aws-cicd-evening/install.sh | Setup Wizard [Jenkins] | Relaunch to update

Getting Started

✓ Folders	✓ OWASP Markup Formatter	✓ Build Timeout	✓ Credentials Binding
✓ Timestamper	✓ Workspace Cleanup	✓ Ant	✗ Gradle
✗ Pipeline	✗ GitHub Branch Source	✗ Pipeline: GitHub Groovy Libraries	✗ Pipeline Graph View
✗ Git	✗ SSH Build Agents	✗ Matrix Authorization Strategy	✗ PAM Authentication
✗ LDAP	✗ Email Extension	✗ Mailer	✗ Dark Theme

Jenkins 2.489

API Documentation

- ** Jenkins Security API
- ** Jenkins Activation Framework API
- ** JAXB
- ** SnakeYAML API
- ** JSON API
- ** Jackson 2 API
- ** commons-text API
- ** Pipeline: Supporting APIs
- ** Plugin Utilities API
- ** Pipeline API
- ** Bootstrap 5 API
- ** JQuery3 API
- ** ECharts API
- ** Display URL API
- ** Checks API
- ** JUnit
- ** Matrix Project
- ** Resource Disposer
- ** Workspace Cleanup
- Ant

** - required dependency

Instance details | EC2 | us-east-1 | Roles | IAM | Global | SecurityGroup | EC2 | us-east-1 | aws-cicd-evening/install.sh | Setup Wizard [Jenkins] | Relaunch to update

Getting Started

Create First Admin User

Username: admin

Password:

Confirm password:

Full name:

Jenkins 2.489

Skip and continue as admin

Save and Continue

Instance details | EC2 | us-east-1 | Roles | IAM | Global | SecurityGroup | EC2 | us-east-1 | aws-cicd-evening/install.sh | Setup Wizard [Jenkins] | Relaunch to update

Getting Started

Password:

Confirm password:

Full name: admin

E-mail address:

Jenkins 2.489 Skip and continue as admin Save and Continue

Instance details | EC2 | us-east-1 | Roles | IAM | Global | SecurityGroup | EC2 | us-east-1 | aws-cicd-evening/install.sh | Setup Wizard [Jenkins] | Relaunch to update

Getting Started

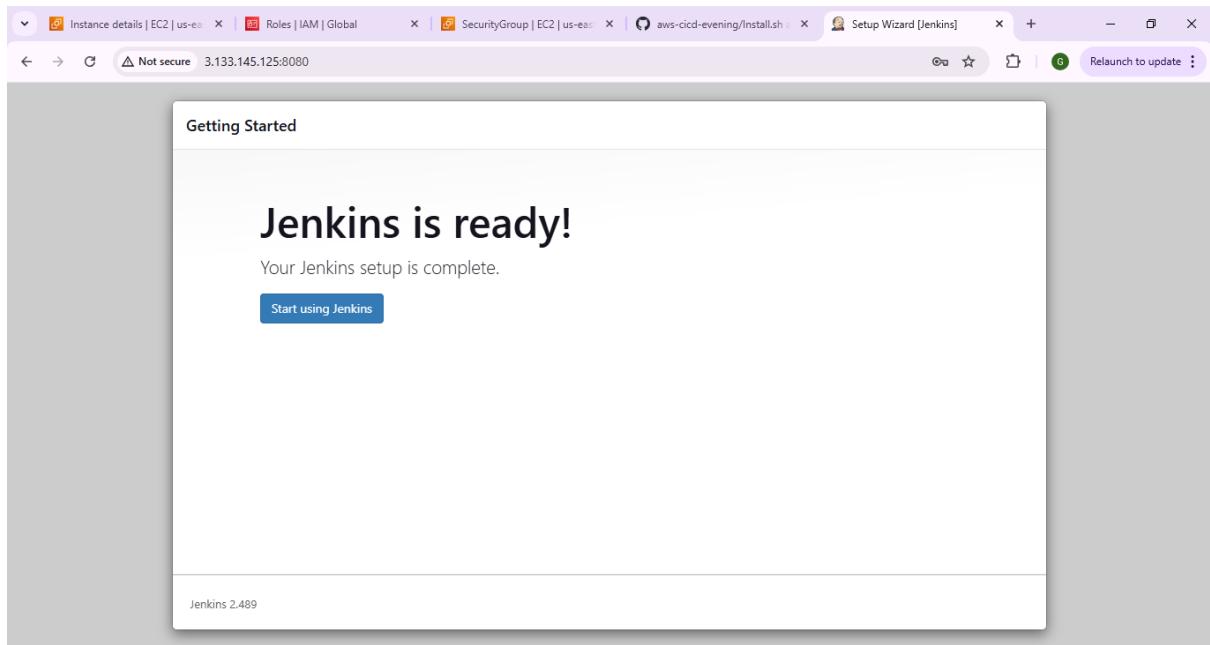
Instance Configuration

Jenkins URL:

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Jenkins 2.489 Not now Save and Finish



The screenshot shows the Jenkins Dashboard. The top navigation bar includes tabs for 'Instance details | EC2 | us-east-1', 'Roles | IAM | Global', 'SecurityGroup | EC2 | us-east-1', 'aws-cicd-evening/install.sh', and 'Dashboard [Jenkins]'. The URL 'Not secure 3.133.145.125:8080' is in the address bar. On the right side of the header, there are icons for a star, a refresh, and a user named 'admin'. A purple button 'Relaunch to update' is also present. The main dashboard features a 'Welcome to Jenkins!' message, a 'Start building your software project' section with a 'Create a job' button, and sections for 'Build Queue' (empty), 'Build Executor Status' (0/2), and 'Set up a distributed build' (links to 'Set up an agent', 'Configure a cloud', and 'Learn more about distributed builds').

Adding configurations in Jenkins project

Screenshot of a Jenkins 'New Item' creation page. The item name 'boardgame-project' has been entered into the 'Enter an item name' field. Below it, three project types are listed:

- Freestyle project**: A classic general-purpose job type.
- Pipeline**: Orchestrates long-running activities across multiple build agents.
- Multi-configuration project**: Suitable for projects with many configurations.

A blue 'OK' button is visible at the bottom of the dialog.

Screenshot of the same Jenkins 'New Item' creation page, showing the same steps and options as the first screenshot. The 'boardgame-project' name is again present in the input field, and the three project types are listed below.

The screenshot shows the AWS Cloud9 Configuration page for the 'boardgame-project'. The 'General' tab is selected under 'Configure'. Under 'Build Triggers', the 'GitHub hook trigger for GITScm polling' option is checked. Other options like 'Build after other projects are built', 'Build periodically', 'Poll SCM', 'Quiet period', and 'Trigger builds remotely' are available but unchecked. Below the build triggers, there are sections for 'Advanced Project Options' and a status bar with 'Save' and 'Apply' buttons.

The screenshot shows the GitHub repository 'project-boardgame' by 'Gurjeetkaur99'. The 'Code' tab is selected. On the right, there's a 'Clone' section with options for 'HTTPS', 'SSH', and 'GitHub CLI'. The 'HTTPS' URL is copied to the clipboard. Other repository details include 'About' (no description), 'Readme', 'Activity', '0 stars', '1 watching', '0 forks', 'Releases' (no releases), and 'Packages' (no packages). The repository is private.

Screenshot of the AWS Cloud9 Configuration interface for a Pipeline project.

The pipeline configuration screen shows the following details:

- Pipeline Definition:** Pipeline script from SCM
- SCM Type:** Git
- Repository URL:** https://github.com/Gurjeetkaur99/project-boardgame.git (highlighted with a red border)
- Credentials:** - none -

Buttons at the bottom: Save (blue), Apply (grey).

Screenshot of the AWS Cloud9 Configuration interface for a Pipeline project.

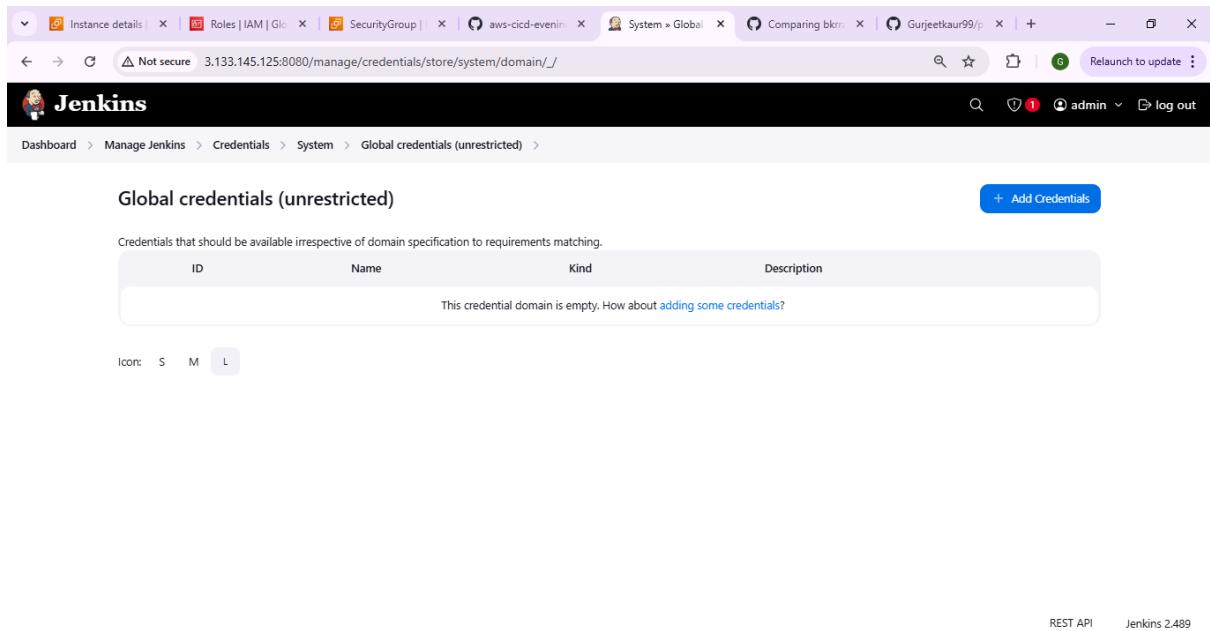
The pipeline configuration screen shows the following details:

- Advanced Options:** Advanced dropdown menu open.
- Add Repository:** Add Repository button.
- Branches to build:** Branch Specifier (blank for 'any') ?
*/prod
- Repository browser:** (Auto)
- Additional Behaviours:** Add dropdown menu.

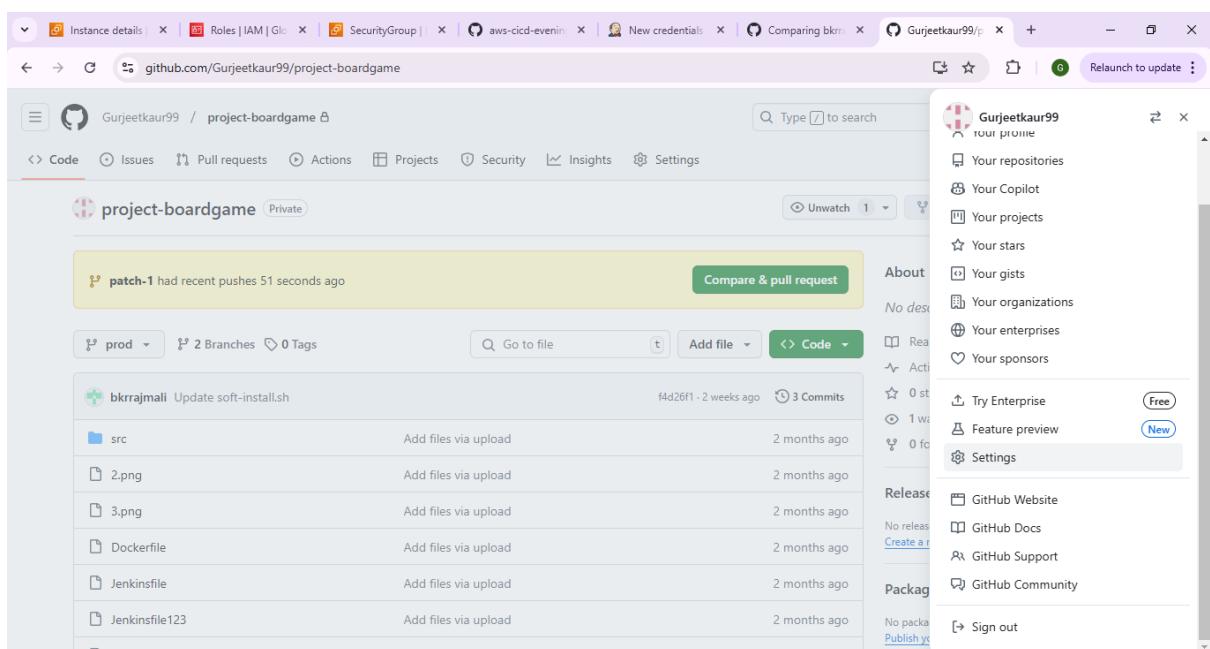
Buttons at the bottom: Save (blue), Apply (grey).

The screenshot shows the Jenkins 'Credentials' page. The URL is 3.133.145.125:8080/manage/credentials/. The page title is 'Jenkins' and the sub-page title is 'Credentials'. The main heading is 'Stores scoped to Jenkins'. A table lists one store: 'System' (Icon: gear), which is '(global)'. The table has columns: ID, Name, Domain, Store, and T. At the bottom, there are icons for S, M, and L, and a 'REST API' link.

The screenshot shows the Jenkins 'System' page under 'Credentials'. The URL is 3.133.145.125:8080/manage/credentials/store/system/. The page title is 'Jenkins' and the sub-page title is 'System'. The main heading is 'System'. A table lists one entry: 'Global credentials (unrestricted)' (Icon: book). The table has columns: Domain and Description. The description states: 'Credentials that should be available irrespective of domain specification to requirements matching.' The table has columns: Domain, Description, and an 'Add domain' button. At the bottom, there are icons for S, M, and L, and a 'REST API' link.



The screenshot shows the Jenkins Global credentials (unrestricted) page. At the top, there is a navigation bar with various links like Instance details, Roles, SecurityGroup, System, Comparing bkr..., and Relaunch to update. Below the navigation bar, the Jenkins logo is displayed. The main content area has a title "Global credentials (unrestricted)" and a button "+ Add Credentials". A message states "Credentials that should be available irrespective of domain specification to requirements matching." Below this is a table with columns ID, Name, Kind, and Description. A message in the table body says "This credential domain is empty. How about adding some credentials?". At the bottom left, there are icons for S, M, and L. On the right, there are links for REST API and Jenkins 2.489.



The screenshot shows the GitHub project-boardgame repository page. The top navigation bar includes links for Instance details, Roles, SecurityGroup, System, Comparing bkr..., Relaunch to update, and a user profile. The repository name "project-boardgame" is visible. The main content area shows a list of files: prod, 2 Branches, 0 Tags. A commit by "bkrrajmali" titled "Update soft-install.sh" is shown, with a timestamp of f4d26f1 - 2 weeks ago and 3 Commits. To the right, there is a sidebar with the user profile "Gurjeetkaur99" and a list of GitHub features: Your repositories, Your Copilot, Your projects, Your stars, Your gists, Your organizations, Your enterprises, Your sponsors, Try Enterprise (Free), Feature preview (New), Settings, GitHub Website, GitHub Docs, GitHub Support, GitHub Community, and Sign out.

The screenshot shows the GitHub Profile settings page (github.com/settings/profile). The left sidebar includes links for Codespaces, Packages, Copilot, Pages, Saved replies, Security, Code security, Integrations, Applications, Scheduled reminders, Archives, Security log, Sponsorship log, and Developer settings (which is currently selected). The main content area contains sections for ORCID ID, Social accounts, Company, and Location. It also features a checkbox for 'Display current local time' and a note about sharing local time information. A prominent green 'Update profile' button is at the bottom.

The screenshot shows the GitHub Apps settings page (github.com/settings/apps). The left sidebar has links for GitHub Apps (which is selected), OAuth Apps, Personal access tokens (with sub-links for Fine-grained tokens and Tokens (classic)), and Preview. The main content area displays a heading 'No GitHub Apps' with a subtext encouraging users to build integrations and a 'New GitHub App' button. At the bottom, there's a link to 'View documentation'. The footer includes standard GitHub links like Terms, Privacy, Security, Status, Docs, Contact, Manage cookies, and a 'Do not share my personal information' option.

The screenshot shows the GitHub Developer Settings page under Personal Access tokens (classic). It lists four existing tokens:

- jenkinscijava**: Generated on Fri, Jan 3 2025. Scopes: admin:enterprise, admin:gpg_key, admin:org, admin:org_hook, admin:repo_hook, admin:ssh_signing_key, audit_log, codespace, copilot, delete_packages, delete_repo, gist, notifications, project, repo, user, workflow, write:discussion, write:packages.
- javatoken**: Generated on Fri, Jan 3 2025. Last used within the last 2 weeks. Scopes: admin:enterprise, admin:gpg_key, admin:org, admin:org_hook, admin:public_key, admin:repo_hook, admin:ssh_signing_key, audit_log, codespace, copilot, delete_packages, delete_repo, gist, notifications, project, repo, user, workflow, write:discussion, write:packages.
- newtoken**: Generated on Sat, Dec 28 2024. Last used within the last 2 weeks. Scopes: admin:enterprise, admin:gpg_key, admin:org, admin:org_hook, admin:public_key, admin:repo_hook, admin:ssh_signing_key, audit_log, codespace, copilot, delete_packages, delete_repo, gist, notifications, project, repo, user, workflow, write:discussion, write:packages.
- terraformtoken**: Generated on Sat, Dec 28 2024. Last used within the last 3 weeks. Scopes: admin:enterprise, admin:gpg_key, admin:org, admin:org_hook, admin:public_key, admin:repo_hook, admin:ssh_signing_key, audit_log, codespace, copilot, delete_packages, delete_repo, gist, notifications, project, repo, user, workflow, write:discussion, write:packages.

A "Generate new token" button is visible at the top right of the token list.

The screenshot shows the GitHub Developer Settings page for creating a new Personal access token (classic). The token is named **tokenproject**. The expiration date is set to 30 days, and the token will expire on Sat, Jan 11 2025. Under "Select scopes", the "repo" scope is selected, granting full control of private repositories and access to commit, deployment, and repository status. The "workflow" scope is also listed but not selected.

Note
tokenproject

Expiration *
30 days - The token will expire on Sat, Jan 11 2025

Select scopes
Scopes define the access for personal tokens. [Read more about OAuth scopes.](#)

<input type="checkbox"/> repo	Full control of private repositories Access commit status Access deployment status Access public repositories Access repository invitations Read and write security events
<input type="checkbox"/> workflow	Update GitHub Action workflows

github.com/settings/tokens/new

Relaunch to update

<input type="checkbox"/> manage_runners:enterprise	Manage enterprise runners and runner groups
<input type="checkbox"/> manage_billing:enterprise	Read and write enterprise billing data
<input type="checkbox"/> read:enterprise	Read enterprise profile data
<input type="checkbox"/> scim:enterprise	Provisioning of users and groups via SCIM
<input checked="" type="checkbox"/> audit_log	Full control of audit log
<input type="checkbox"/> read:audit_log	Read access of audit log
<input checked="" type="checkbox"/> codespace	Full control of codespaces
<input type="checkbox"/> codespace:secrets	Ability to create, read, update, and delete codespace secrets
<input checked="" type="checkbox"/> copilot	Full control of GitHub Copilot settings and seat assignments
<input type="checkbox"/> manage_billing:copilot	View and edit Copilot Business seat assignments
<input checked="" type="checkbox"/> project	Full control of projects
<input type="checkbox"/> read:project	Read access of projects
<input checked="" type="checkbox"/> admin:gpg_key	Full control of public user GPG keys
<input type="checkbox"/> write:gpg_key	Write public user GPG keys
<input type="checkbox"/> read:gpg_key	Read public user GPG keys
<input checked="" type="checkbox"/> admin:ssh_signing_key	Full control of public user SSH signing keys
<input type="checkbox"/> write:ssh_signing_key	Write public user SSH signing keys
<input type="checkbox"/> read:ssh_signing_key	Read public user SSH signing keys

Generate token **Cancel**

github.com/settings/tokens

Relaunch to update

Settings / Developer Settings

Some of the scopes you've selected are included in other scopes. Only the minimum set of necessary scopes has been saved.

Personal access tokens (classic)

Generate new token

Tokens you have generated that can be used to access the [GitHub API](#).

Make sure to copy your personal access token now. You won't be able to see it again!

<input checked="" type="checkbox"/> ghp_hk6k0D7pxLmOhwNlwG9BH0mIPSN30628guo8	Delete
jenkinsciidjava — admin:enterprise, admin:gpg_key, admin:org, admin:org_hook, admin:public_key, Last used within the last 2 weeks admin:repo_hook, admin:ssh_signing_key, audit_log, codespace, copilot, delete:packages, delete_repo, gist, notifications, project, repo, user, workflow, write:discussion, write:packages Expires on Fri, Jan 3 2025.	Delete
javatoken — admin:enterprise, admin:gpg_key, admin:org, admin:org_hook, admin:public_key, Last used within the last 2 weeks admin:repo_hook, admin:ssh_signing_key, audit_log, codespace, copilot, delete:packages, delete_repo, gist, notifications, project, repo, user, workflow, write:discussion, write:packages Expires on Fri, Jan 3 2025.	Delete
newtoken — admin:enterprise, admin:gpg_key, admin:org, admin:org_hook, admin:public_key, Last used within the last 2 weeks	Delete

Jenkins

New credentials

Kind: Username with password

Scope: Global (Jenkins, nodes, items, all child items, etc)

Username: Gurjeetkaur99

Treat username as secret

Password:

ID:

Description:

Create

New credentials

Kind: Username with password

Scope: Global (Jenkins, nodes, items, all child items, etc)

Username: Gurjeetkaur99

Treat username as secret

Password:

ID: git-cred

Description: git-cred

Create

REST API Jenkins 2.489

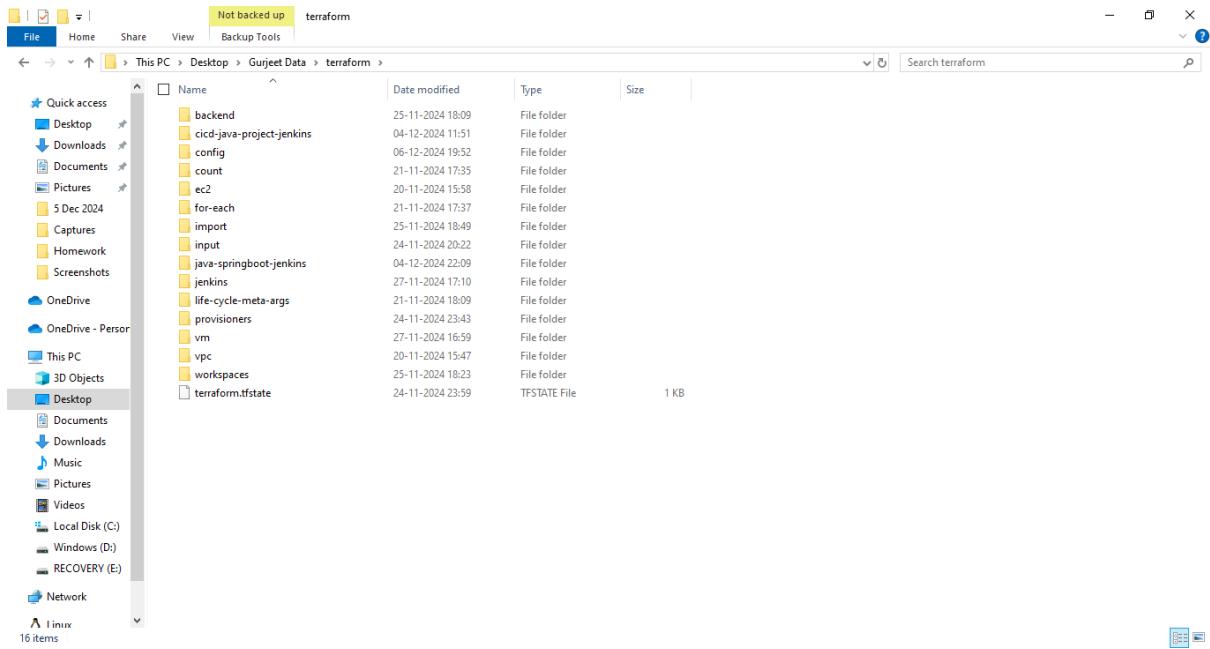
The screenshot shows the Jenkins Global credentials (unrestricted) page. At the top, there is a navigation bar with tabs like Instance details, Roles | IAM | Global, SecurityGroup, System, Comparing bkm, Personal Access, and Relaunch to update. Below the navigation bar, the Jenkins logo is visible, followed by the page title "Global credentials (unrestricted)". A sub-navigation bar shows the path: Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted). A blue button "+ Add Credentials" is located at the top right. The main content area is titled "Global credentials (unrestricted)" and contains a table with one row. The table columns are ID, Name, Kind, and Description. The single row has an ID of "git-cred", a Name of "Gurjeetkaur99***** (git-cred)", a Kind of "Username with password", and a Description of "git-cred". There is also a gear icon for editing. Below the table, there are icons for S, M, and L. At the bottom right, it says REST API Jenkins 2.489.

The screenshot shows the Jenkins Pipeline configuration page for the "boardgame-project". The URL in the browser is 3.133.145.125:8080/job/boardgame-project/configure. The left sidebar has sections: General, Build Triggers, Advanced Project Options, and Pipeline (which is selected). The main configuration area has several sections: "Repository URL" with a value of "https://github.com/Gurjeetkaur99/project-boardgame.git" and an error message about failed connection; "Credentials" dropdown set to "- none -"; "Advanced" dropdown; "Add Repository" button; and "Branches to build" section with a branch specifier "*/prod". At the bottom are "Save" and "Apply" buttons.

The screenshot shows the Jenkins Pipeline configuration page. The 'Repository URL' is set to <https://github.com/Gurjeetkaur99/project-boardgame.git>. The 'Credentials' dropdown contains 'Gurjeetkaur99/******** (git-cred)'. The 'Branches to build' field has a branch specifier `*/prod`. The 'Repository browser' is set to '(Auto)'. The pipeline configuration tab is selected. Buttons at the bottom are 'Save' and 'Apply'.

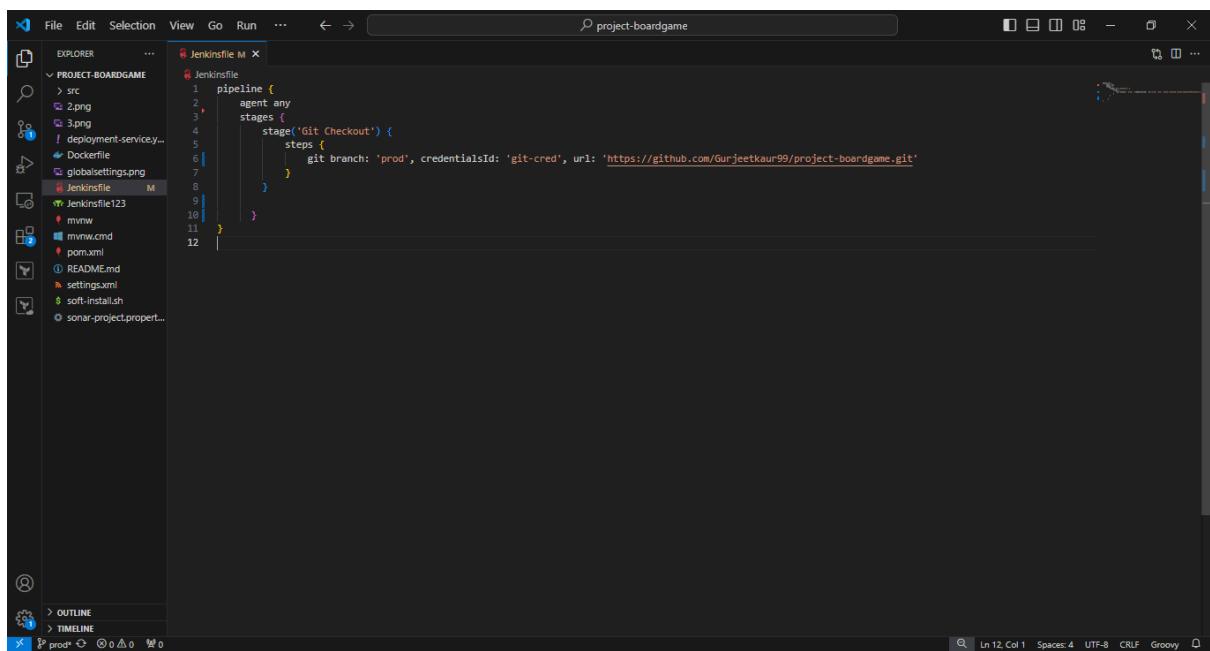
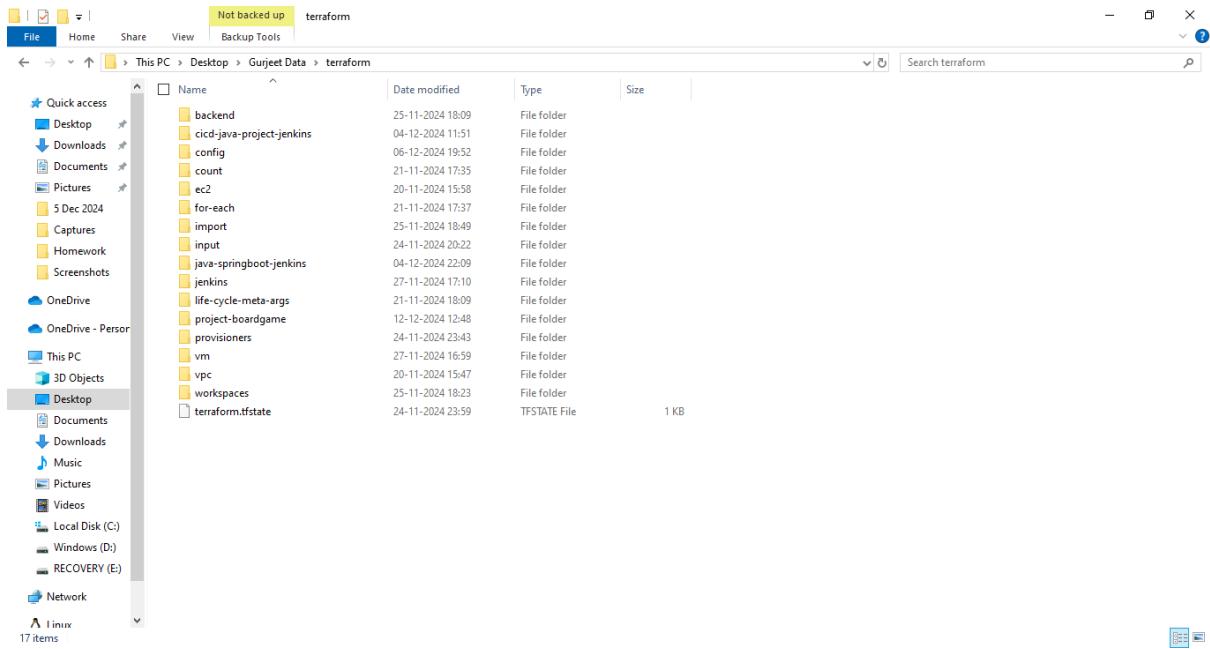
Created stages in Jenkins pipeline using Terraform - Git checkout, Maven Compile, Maven Test, Trivy Scan, Sonar analysis, Quality gates

The screenshot shows the GitHub repository page for 'project-boardgame'. It displays a message from 'patch-1' about recent pushes. The repository details show 2 branches and 0 tags. A file list includes 'src', '2.png', '3.png', 'Dockerfile', 'Jenkinsfile', and 'Jenkinsfile123'. A 'Clone' section provides options for HTTPS, SSH, and GitHub CLI, with the URL <https://github.com/Gurjeetkaur99/project-boardgame> copied to the clipboard. Other sections include 'About', 'Releases', and 'Packages'.



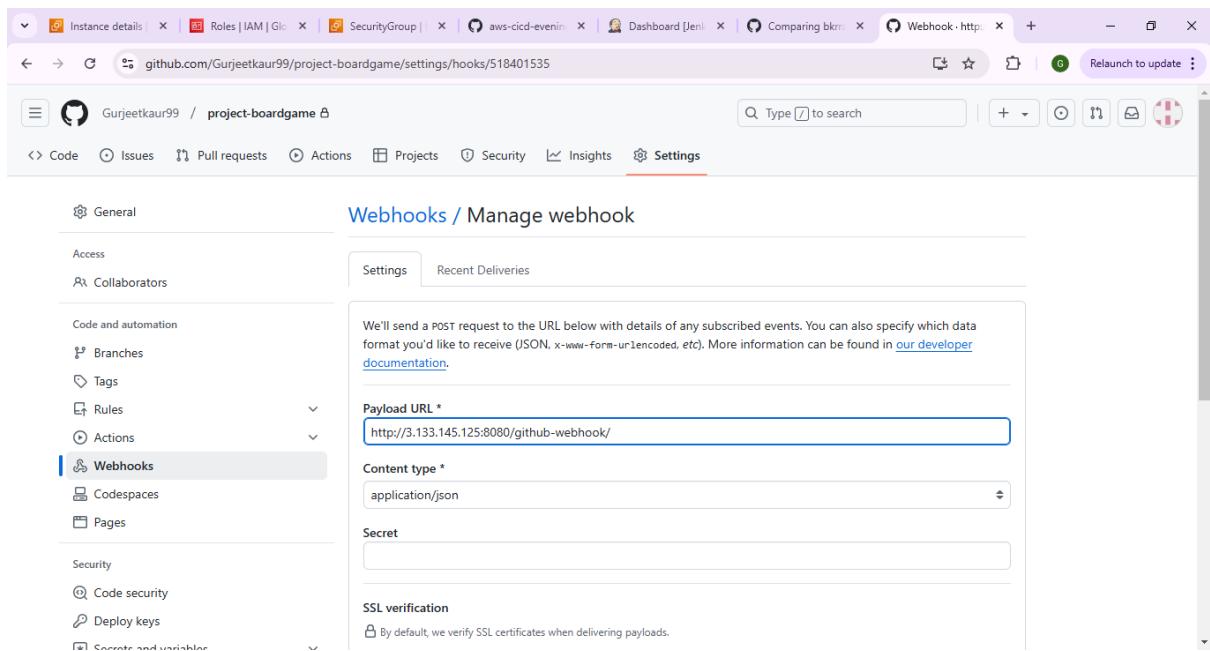
```
MINGW64:/c/Users/admin/Desktop/Gurjeet Data/terraform
admin@DESKTOP-3A6NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform
$ git clone https://github.com/Gurjeetkaur99/project-boardgame.git
Cloning into 'project-boardgame'.
remote: Enumerating objects: 81, done.
remote: Counting objects: 100% (81/81), done.
remote: Compressing objects: 100% (55/55), done.
remote: Total 81 (delta 13), reused 81 (delta 13), pack-reused 0 (from 0)
Receiving objects: 100% (81/81), 233.52 KiB | 6.31 MiB/s, done.
Resolving deltas: 100% (13/13), done.

admin@DESKTOP-3A6NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform
$ |
```



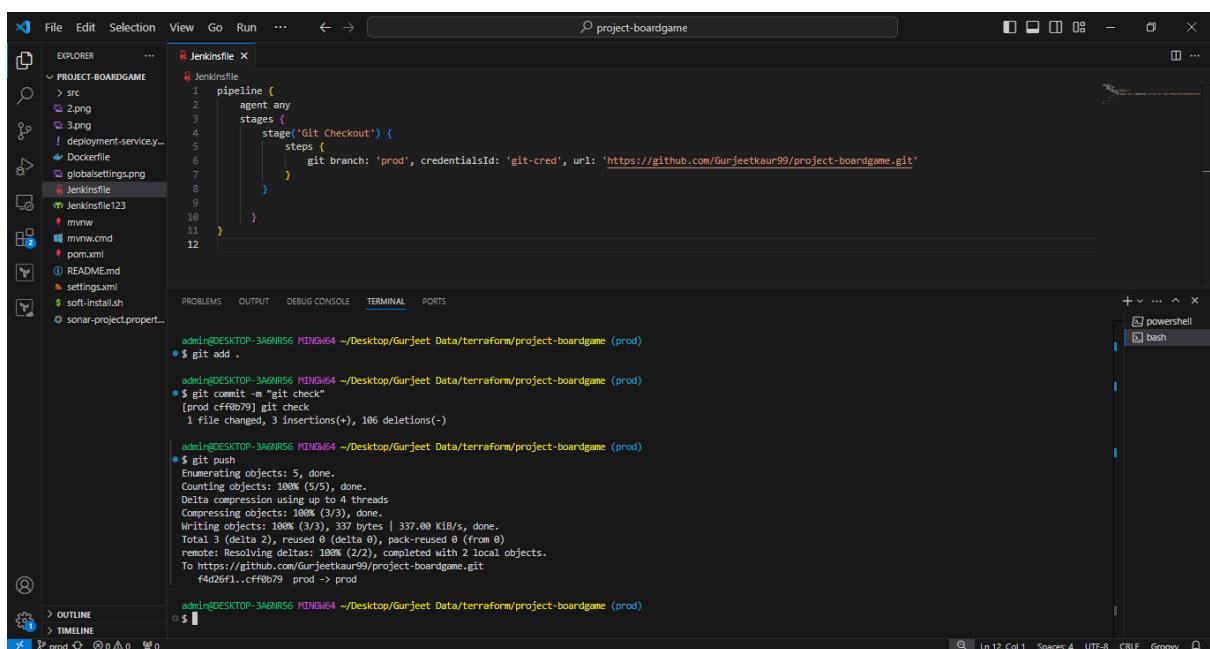
The screenshot shows the GitHub project settings interface for the 'project-boardgame' repository. The 'Webhooks' tab is selected. On the left, a sidebar lists various settings categories: General, Access, Collaborators, Code and automation (Branches, Tags, Rules, Actions), Webhooks (selected), Codespaces, Pages, Security (Code security, Deploy keys, Secrets and variables), Integrations, GitHub Apps, and Email notifications. The main content area is titled 'Webhooks' and contains a brief description: '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](#)'. A 'Add webhook' button is located in the top right corner.

The screenshot shows the 'Add webhook' form on GitHub. The left sidebar is identical to the previous screenshot. The main form is titled 'Webhooks / Add webhook'. It includes fields for 'Payload URL *' (set to 'http://3.133.145.125:8080/github-webhook'), 'Content type *' (set to 'application/json'), and a 'Secret' field. Under 'SSL verification', there are two options: 'Enable SSL verification' (radio button) and 'Disable (not recommended)' (radio button, currently selected). At the bottom, the question 'Which events would you like to trigger this webhook?' has three options: 'Just the push event.', 'Send me everything.' (which is checked), and 'Let me select individual events'.



The screenshot shows the GitHub 'Webhooks / Manage webhook' settings page for a repository named 'project-boardgame'. The left sidebar has a 'Webhooks' section selected under 'Code and automation'. The main area displays configuration options:

- Payload URL ***: `http://3.133.145.125:8080/github-webhook/`
- Content type ***: `application/json`
- Secret**: An empty text input field.
- SSL verification**: A note stating "By default, we verify SSL certificates when delivering payloads."



The screenshot shows the VS Code interface with a terminal window open. The terminal output shows the execution of a Jenkinsfile:

```
admin@DESKTOP-3AGNRS6 MINIM64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git add .
admin@DESKTOP-3AGNRS6 MINIM64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git commit -m "git check"
[prod cff0b79] git check
 1 file changed, 3 insertions(+), 106 deletions(-)

admin@DESKTOP-3AGNRS6 MINIM64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 337 bytes | 337.00 KiB/s, done.
total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
  f4d26f1..cff0b79 prod -> prod
```

The screenshot shows the Jenkins Manage Jenkins interface. On the left, there's a sidebar with links for New Item, Build History, Project Relationship, Check File Fingerprint, Manage Jenkins (which is selected), My Views, Build Queue (No builds in the queue), and Build Executor Status (0/2). The main content area is titled "Manage Jenkins" and contains sections for "System Configuration" and "Security".

System Configuration

- System**: Configure global settings and paths.
- Nodes**: Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- Tools**: Configure tools, their locations and automatic installers.
- Clouds**: Add, remove, and configure cloud instances to provision agents on-demand.
- Plugins**: Add, remove, disable or enable plugins that can extend the functionality of Jenkins.
- Appearance**: Configure the look and feel of Jenkins.

Security

- Security**: Secure Jenkins; define who is allowed to access/use the system.
- Credentials**: Configure credentials.
- Users**: Create/delete/modify users that can log in to this Jenkins.
- Credential Providers**: Configure the credential providers and types.

The screenshot shows the Jenkins Available plugin page. The left sidebar includes links for Updates, Available plugins (selected), Installed plugins, Advanced settings, and Download progress. The main content area lists available plugins with a search bar at the top.

Install	Name	Released
<input checked="" type="checkbox"/>	Pipeline Stage View 2.34	1 yr 1 mo ago
<input type="checkbox"/>	Pipeline Aggregator View 114.v98e9735f6193	28 days ago
<input type="checkbox"/>	Job and Stage monitoring 3.6.2	4 yr 9 mo ago
<input type="checkbox"/>	Splunk Plugin Extension 1.10.2	23 days ago
<input type="checkbox"/>	Pipeline As YAML (Incubated) 246.web_b_2e368b_395	25 days ago
<input type="checkbox"/>	Web Security Application Project (WSAP) 1.0	

A message in the Pipeline Aggregator View row states: "This plugin is up for adoption! We are looking for new maintainers. Visit our [Adopt a Plugin](#) initiative for more information."

Jenkins

Dashboard > boardgame-project >

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Stages

Rename

Pipeline Syntax

GitHub Hook Log

boardgame-project

Average stage times:
(Average full run time: ~7s)

Declarative: Checkout SCM
781ms

Git Checkout
461ms

#1 Dec 12 Non Changes 781ms 461ms

Permalinks

- Last build (#1), 42 sec ago
- Last stable build (#1), 42 sec ago
- Last successful build (#1), 42 sec ago
- Last completed build (#1), 42 sec ago

Builds

Filter

Today #1 5:56 PM

REST API Jenkins 2.489

File Edit Selection View Go Run ... ← → 🔍 project-boardgame

EXPLORER PROJECT-BOARDGAME

- > src
- Zipng
- 3png
- ! deployment-service...
- Dockerfile
- globalsettings.png
- ! Jenkinsfile M
- Jenkinsfile123
- mvnw
- pom.xml
- README.md
- settings.xml
- soft-installsh
- sonar-project.properties

Jenkinsfile M

```
1 pipeline {
2     agent any
3     tools {
4         maven 'maven3'
5     }
6     stages {
7         stage('Git Checkout') {
8             steps {
9                 git branch: 'prod', credentialsId: 'git-cred', url: 'https://github.com/Gurjeetkaur99/project-boardgame.git'
10            }
11        }
12        stage('Maven Compile') {
13            steps {
14                echo 'Maven Compile Started'
15                sh 'mvn compile'
16            }
17        }
18    }
19 }
20 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 337 bytes | 337.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
 f4d26f1..cff8079 prod -> prod
```

```
admin@DESKTOP-3AGNRSE MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
```

Type here to search

Windows Taskbar: Type here to search, File Explorer, File History, Photos, Mail, Edge, Google Chrome, File, Word, Excel, Powerpoint, OneDrive, Visual Studio Code, S&P..., 12:57, ENG, 12-12-2024

Screenshot of the Jenkins Manage Jenkins page:

The page title is "Manage Jenkins". A banner at the top right says "Building on the built-in node can be a security issue. You should set up distributed builds. See the documentation." with buttons for "Set up agent", "Set up cloud", and "Dismiss".

System Configuration

- System**: Configure global settings and paths.
- Nodes**: Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- Tools**: Configure tools, their locations and automatic installers.
- Clouds**: Add, remove, and configure cloud instances to provision agents on-demand.
- Plugins**: Add, remove, disable or enable plugins that can extend the functionality of Jenkins.
- Appearance**: Configure the look and feel of Jenkins.

Security

- Security**: Secure Jenkins; define who is allowed to access/use the system.
- Credentials**: Configure credentials.
- Users**: Create/delete/modify users that can log in to this Jenkins.
- Credential Providers**: Configure the credential providers and types.

Build Queue: No builds in the queue.

Build Executor Status: 0/2

Search settings search bar.

Windows taskbar at the bottom showing various pinned icons like File Explorer, Mail, and Edge.

Screenshot of the Jenkins Tools configuration page:

The page title is "Tools".

Maven Configuration

- Default settings provider: Use default maven settings
- Default global settings provider: Use default maven global settings

JDK installations

Add JDK button.

Git installations

Git configuration panel with "Name" field and "Save" and "Apply" buttons.

Windows taskbar at the bottom showing various pinned icons like File Explorer, Mail, and Edge.

Maven installations

Add Maven

Name: maven

Required

Install automatically

Install from Apache

Version: 3.9.9

Add Installer

Add Maven

Save Apply

File Edit Selection View Go Run ...

project-boardgame

EXPLORER PROJECT-BOARDGAME

Jenkinsfile

```
1 pipeline {
2     agent any
3     tools {
4         maven 'maven3'
5     }
6     stages {
7         stage('Git Checkout') {
8             steps {
9                 git branch: 'prod', credentialsId: 'git-cred', url: 'https://github.com/Gurjeetkaur99/project-boardgame.git'
10            }
11        }
12        stage('Maven Compile') {
13            steps {
14                echo 'Maven Compile Started'
15                sh 'mvn compile'
16            }
17        }
18    }
19 }
20 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
[prod d844461] maven compile
1 file changed, 9 insertions(+)

admin@DESKTOP-JAGNR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 379 bytes | 379.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
 cff0b79..d844461 prod -> prod
```

OUTLINE TIMELINE

prod

Type here to search

Jenkins

Dashboard > boardgame-project >

boardgame-project

Stage View

Average stage times:
(Average full run time: ~19s)

Declarative: Checkout SCM	Declarative: Tool Install	Git Checkout	Maven Compile
568ms	3s	645ms	13s

#2 Dec 12 13:11 commit

Builds

Build #	Time Ago
#2	6:11 PM
#1	5:56 PM
#0	5:56 PM
#-1	5:56 PM

Permalinks

- Last build (#1), 14 min ago
- Last stable build (#1), 14 min ago
- Last successful build (#1), 14 min ago
- Last completed build (#1), 14 min ago

Type here to search

File Edit Selection View Go Run ...

project-boardgame

EXPLORER PROJECT-BOARDGAME

Jenkinsfile

```
1 pipeline {
2     stages {
3         stage('Git Checkout') {
4             steps {
5                 echo 'Git Checkout Started'
6                 sh 'git clone https://github.com/Gurjeetkaur99/project-boardgame.git'
7             }
8         }
9         stage('Maven Compile') {
10            steps {
11                echo 'Maven Compile Started'
12                sh 'mvn compile'
13            }
14        }
15        stage('Maven Test') {
16            steps {
17                echo 'Maven Test Started'
18                sh 'mvn test'
19            }
20        }
21    }
22}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
[prod c63756c] maven test
1 file changed, 6 insertions(+), 1 deletion(-)

admin@DESKTOP-3A6NRS6 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 335 bytes | 335.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
   db44461..c63756c prod -> prod
```

OUTLINE TIMELINE

Type here to search

boardgame-project

Average stage times:
(Average full run time: ~21s)

Declarative Checkout SCM	Declarative Tool Install	Git Checkout	Maven Compile	Maven Test
565ms	1s	659ms	8s	16s
562ms	151ms	673ms	3s	16s
568ms	3s	645ms	13s	

Builds

- #3 6:12 PM
- #2 6:11 PM
- #1 5:56 PM

Permalinks

- Last build (#1), 14 min ago
- Last stable build (#1), 14 min ago
- Last successful build (#1), 14 min ago
- Last completed build (#1), 14 min ago

REST API Jenkins 2.489

You're not viewing the latest version. [Click here to go to latest.](#)

Trivy v0.57

Getting Started Tutorials Docs Ecosystem Contributing

Installing Trivy

In this section you will find an aggregation of the different ways to install Trivy. Installations are listed as either "official" or "community". Official integrations are developed by the core Trivy team and supported by it. Community integrations are integrations developed by the community, and collected here for your convenience. For support or questions about community integrations, please contact the original developers.

Install using Package Manager

RHEL/CentOS (Official)

Repository RPM

Add repository setting to `/etc/yum.repos.d`.

Table of contents

- Install using Package Manager
- RHEL/CentOS (Official)
- Debian/Ubuntu (Official)
- Homebrew (Official)
- Windows (Official)
- Arch Linux (Community)
- MacPorts (Community)
- Nix/NixOS (Community)
- FreeBSD (Official)
- asdf/mise (Community)
- Install from GitHub Release (Official)
- Download Binary
- Install Script
- Install from source

13:14 12-12-2024

Getting Started

Overview
Installation
Signature Verification
FAQ

Debian/Ubuntu (Official)

Repository DEB

Add repository setting to `/etc/apt/sources.list.d/`.

```
sudo apt-get install wget gnupg
wget -qO - https://aquasecurity.github.io/trivy-repo/deb/public.key | gpg --dearmor | sudo tee /usr/share/keyrings/trivy.gpg > /dev/null
echo "deb [signed-by=/usr/share/keyrings/trivy.gpg] https://aquasecurity.github.io/trivy-repo/deb generic main" | sudo tee -a /etc/apt/sources.list.d/trivy.list
sudo apt-get update
sudo apt-get install trivy
```

Homebrew (Official)

Homebrew for MacOS and Linux.

```
brew install trivy
```

Table of contents

- Install using Package Manager
- RHEL/CentOS (Official)
- Debian/Ubuntu (Official)
- Homebrew (Official)
- Windows (Official)
- Arch Linux (Community)
- MacPorts (Community)
- Nix/NixOS (Community)
- FreeBSD (Official)
- asdf/mise (Community)
- Install from GitHub Release (Official)
- Download Binary
- Install Script
- Install from source
- Use container image
- Other Tools to use and deploy
- Trivy

```
ubuntu@ip-172-31-4-107:~$ sudo apt-get install wget gnupg
wget -qO - https://aquasecurity.github.io/trivy-repo/deb/public.key | gpg --dearmor | sudo tee /usr/share/keyrings/trivy.gpg > /dev/null
echo "deb [signed-by=/usr/share/keyrings/trivy.gpg] https://aquasecurity.github.io/trivy-repo/deb generic main" | sudo tee -a /etc/apt/sources.list.d/trivy.list
sudo apt-get update
sudo apt-get install trivy
```

```
ubuntu@ip-172-31-4-107:~  
● jenkins.service - Jenkins Continuous Integration Server  
  Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)  
  Active: active (running) since Thu 2024-12-12 17:29:11 UTC; 4min 10s ago  
    Main PID: 4181 (java)  
      Tasks: 45 (limit: 9507)  
     Memory: 722.2M  
        CPU: 16.343s  
       CGroup: /system.slice/jenkins.service  
             └─4181 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080  
  
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: ad37df294dd0dfa31c36b4242413ef  
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword  
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: ****=  
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: ****=  
Dec 12 17:29:07 ip-172-31-4-107 jenkins[4181]: ****=  
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: 2024-12-12 17:29:11.460+0000 [id=33] INFO jenkins.InitReactorRunner#onAttained: completed initialization  
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: 2024-12-12 17:29:11.478+0000 [id=23] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running  
Dec 12 17:29:11 ip-172-31-4-107 systemd[1]: Started Jenkins Continuous Integration Server.  
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: h.m.DownloadService$Downloadable#load: obtained the updated data  
Dec 12 17:29:11 ip-172-31-4-107 jenkins[4181]: hudson.util.Retrier#start: Performed the action check updates se  
AX  
ubuntu@ip-172-31-4-107:~$ sudo systemctl start jenkins  
ubuntu@ip-172-31-4-107:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword  
ad37df294dd0dfa31c36b4242413ef  
ubuntu@ip-172-31-4-107:~$ rc  
ubuntu@ip-172-31-4-107:~$ vi trivy.sh  
ubuntu@ip-172-31-4-107:~$ sh trivy.sh  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
trivy is already the newest version (2.2.27-3ubuntu2.1).  
trivy set to manually installed.  
wget is already the newest version (1.21.2-2ubuntu1.1).  
wget set to manually installed.  
0 upgraded, 0 newly installed, 0 to remove and 37 not upgraded.  
deb [signed-by=/usr/share/keyrings/trivy.gpg https://aquasecurity.github.io/trivy-repo/deb generic main  
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease  
Hit:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Hit:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Get: https://aquasecurity.github.io/trivy-repo/deb generic InRelease [3063 B]  
Ign:5 https://pkg.jenkins.io/debian binary/ InRelease  
Hit:6 https://pkg.jenkins.io/debian binary/ Release  
Hit:7 http://security.ubuntu.com/ubuntu jammy-security InRelease  
Get:8 https://aquasecurity.github.io/trivy-repo/deb generic/main amd64 Packages [369 B]  
Fetched 3432 B in 0s (6176 B/s)  
Reading package lists... Done  
  
ubuntu@ip-172-31-4-107:~
```

```
ubuntu@ip-172-31-4-107:~  
building dependency tree... Done  
Reading state information... Done  
trivy is already the newest version (2.2.27-3ubuntu2.1).  
trivy set to manually installed.  
wget is already the newest version (1.21.2-2ubuntu1.1).  
wget set to manually installed.  
0 upgraded, 0 newly installed, 0 to remove and 37 not upgraded.  
deb [signed-by=/usr/share/keyrings/trivy.gpg https://aquasecurity.github.io/trivy-repo/deb generic main  
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease  
Hit:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease  
Hit:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Get: https://aquasecurity.github.io/trivy-repo/deb generic InRelease [3063 B]  
Ign:5 https://pkg.jenkins.io/debian binary/ InRelease  
Hit:6 https://pkg.jenkins.io/debian binary/ Release  
Hit:7 http://security.ubuntu.com/ubuntu jammy-security InRelease  
Get:8 https://aquasecurity.github.io/trivy-repo/deb generic/main amd64 Packages [369 B]  
Fetched 3432 B in 0s (6176 B/s)  
Reading package lists... Done  
Reading package lists... Done  
building dependency tree... Done  
Reading state information... Done  
The following NEW packages will be installed:  
  trivy  
0 upgraded, 1 newly installed, 0 to remove and 37 not upgraded.  
Need to get 40.2 MB of additional disk space will be used.  
After this operation, 132 MB of additional disk space will be used.  
Get:1 https://aquasecurity.github.io/trivy-repo/deb generic/main amd64 trivy amd64 0.58.0 [40.2 MB]  
Fetched 40.2 MB in 4s (10.9 MB/s)  
selecting previously unselected package trivy.  
(Reading database ... 66934 files and directories currently installed.)  
Preparing to unpack .../trivy_0.58.0_amd64.deb ...  
Unpacking trivy (0.58.0) ...  
Setting up trivy (0.58.0) ...  
scanning processes...  
scanning linux images...  
  
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.  
ubuntu@ip-172-31-4-107:~$
```

The screenshot shows the Jenkinsfile content in the code editor:

```
1 pipeline {
2   stages {
3     ...
4     stage('Maven Test') {
5       steps {
6         echo 'Maven Test Started'
7         sh 'mvn test'
8       }
9     }
10    stage('File System Scan by Trivy') {
11      steps {
12        echo 'Trivy Scan Started'
13        sh 'trivy fs --format table --output trivy-filescanproject-output.txt'
14      }
15    }
16  }
17}
```

The terminal tab shows the following command execution:

```
[prod c63756c] maven test
1 file changed, 6 insertions(+), 1 deletion(-)

admin@DESKTOP-3AGUR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 335 bytes | 335.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
 c644461..c63756c prod -> prod
```

The screenshot shows the Jenkinsfile content in the code editor:

```
1 pipeline {
2   stages {
3     ...
4     stage('Maven Test') {
5       steps {
6         echo 'Maven Test Started'
7         sh 'mvn test'
8       }
9     }
10    stage('File System Scan by Trivy') {
11      steps {
12        echo 'Trivy Scan Started'
13        sh 'trivy fs --format table --output trivy-filescanproject-output.txt'
14      }
15    }
16  }
17}
```

The terminal tab shows the following command execution:

```
$ git add .
admin@DESKTOP-3AGUR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git commit -m "trivyscan"
[prod 9577f50] trivyscan
 1 file changed, 6 insertions(+)

admin@DESKTOP-3AGUR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 402 bytes | 201.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
 c63756c..9577f50 prod -> prod
```

Jenkins

Not secure 3.133.145.125:8080/job/boardgame-project/

Dashboard > boardgame-project >

Status boardgame-project

Stage View

Average stage times:
(Average full run time: ~22s)

	Declarative Checkout SCM	Declarative Tool Install	Git Checkout	Maven Compile	Maven Test	File System Scan by Trivy
Dec 12 13:15	543ms	1s	607ms	6s	15s	5s
Dec 12 13:12	499ms	111ms	504ms	3s	13s	5s
Dec 12 13:11	562ms	151ms	673ms	3s	16s	
Dec 12 13:11	568ms	3s	645ms	13s		

Builds

Today:

- #4 6:15 PM
- #3 6:12 PM
- #2 6:11 PM
- #1 5:56 PM

Permalinks

- Last build (#4), 8.8 sec ago
- Last stable build (#3), 3 min 53 sec ago
- Last successful build (#3), 3 min 53 sec ago
- Last completed build (#3), 3 min 53 sec ago

Type here to search

Windows taskbar: -1°C ENG 12-12-2024

Jenkins

Not secure 3.133.145.125:8080/manage/pluginManager/available/

Dashboard > Manage Jenkins > Plugins

Plugins

Available plugins

Install	Name	Released
<input checked="" type="checkbox"/>	SonarQube Scanner 2.17.3	24 days ago
<input type="checkbox"/>	Sonar Quality Gates 328.v4369b_da_d3c2	1 mo 25 days ago
<input type="checkbox"/>	Quality Gates 2.5	8 yr 7 mo ago
<input type="checkbox"/>	Sonargraph Integration 5.0.2	1 yr 6 mo ago
<input type="checkbox"/>	CodeSonar 3.5.0	1 yr 1 mo ago
<input type="checkbox"/>	Sonar Gerrit 388.v1b_f1cb_e42306	

Type here to search

Windows taskbar: -1°C ENG 12-12-2024

```

ubuntu@ip-172-31-4-107: ~
#docker
curl https://get.docker.com | bash
sudo usermod -aG docker $USER
newgrp docker
sudo systemctl stop docker
sudo systemctl enable --now docker
sudo systemctl start docker
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-- INSERT --
7,29    A11

```

```

ubuntu@ip-172-31-4-107: ~
Hit:6 https://pkg.jenkins.io/debian binary/ Release
Hit:7 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:8 https://aquasecurity.github.io/trivy-repo/deb generic/main amd64 Packages [369 B]
Fetched 3432 B in 1s (6176 B/s)
Reading package lists... done
Reading package lists... done
Building dependency tree... done
Reading state information... done
The following NEW packages will be installed:
  trivy
0 upgraded, 1 newly installed, 0 to remove and 37 not upgraded.
Need to get 40.2 MB of additional disk space will be used.
After this operation, 132 MB of additional disk space will be used.
Get:1 https://aquasecurity.github.io/trivy-repo/deb generic/main amd64 trivy amd64 0.58.0 [40.2 MB]
Fetched 40.2 MB in 4s (10.9 MB/s)
Selecting previously unselected package trivy.
(Reading database... 66934 files and directories currently installed.)
Preparing to unpack .../trivy_0.58.0_amd64.deb ...
Unpacking trivy (0.58.0) ...
setting up trivy (0.58.0) ...
scanning processes...
scanning linux images...
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.
ubuntu@ip-172-31-4-107: ~$ vi docker.sh
ubuntu@ip-172-31-4-107: ~$ sudo su
root@ip-172-31-4-107: /home/ubuntu$ cd
root@ip-172-31-4-107: ~$ su - Jenkins
[jenkins@ip-172-31-4-107: ~]$ sudo usermod -aG docker $USER
[sudo] password for jenkins:
xxSorry, try again.
[sudo] password for jenkins:
sudo: 1 incorrect password attempt
jenkins@ip-172-31-4-107: ~$ exit
logout
root@ip-172-31-4-107: ~$ exit
exit
ubuntu@ip-172-31-4-107: ~$ sudo visudo

```

```
ubuntu@ip-172-31-4-107:~  
GNU nano 6.2  
# This preserves proxy settings from user environments of root  
# equivalent users (group sudo)  
Defaults:!/usr/bin/sudo env_keep += "http_proxy https_proxy ftp_proxy all_proxy no_proxy"  
  
# This allows running arbitrary commands, but so does ALL, and it means  
# different sudoers have their choice of editor respected.  
Defaults:!/usr/bin/sudo env_keep += "EDITOR"  
  
# Completely harmless preservation of a user preference.  
Defaults:!/usr/bin/sudo env_keep += "GREP_COLOR"  
  
# While you shouldn't normally run git as root, you need to with etckeeper  
Defaults:!/usr/bin/sudo env_keep += "GIT_AUTHOR_* GIT_COMMITTER_"  
  
# Per-user preferences; root won't have sensible values for them.  
Defaults:!/usr/bin/sudo env_keep += "EMAIL DEBEMAIL DEBFULLNAME"  
  
# "sudo scp" or "sudo rsync" should be able to use your SSH agent.  
Defaults:!/usr/bin/sudo env_keep += "SSH_AGENT_PID SSH_AUTH_SOCK"  
  
# ditto for GPG agent  
Defaults:!/usr/bin/sudo env_keep += "GPG_AGENT_INFO"  
  
# Host alias specification  
# User alias specification  
# Cmnd alias specification  
  
# user privilege specification  
root    ALL=(ALL:ALL) ALL  
jenkins ALL=(ALL) NOPASSWD: ALL  
# Members of the admin group may gain root privileges  
%admin  ALL=(ALL) ALL  
  
# Allow members of group sudo to execute any command  
%sudo   ALL=(ALL:ALL) ALL  
  
# See sudoers(5) for more information on "@include" directives:  
@includedir /etc/sudoers.d  
  
NG Help      W Write Out     Aw Where Is      A Cut          AT Execute      AC Location     N-U Undo      M-A Set Mark    X-] To Bracket  N-Q Previous  
EX Exit      WR Read File    AR Replace      AU Paste        AJ Justify     AG Go To Line   M-E Redo      M-C Copy       X-Q Where Was   N-W Next  
Windows Start Type here to search  Internet Explorer  File Explorer  Mail  OneDrive  Photos  OneNote  Task View  Temp...  Back  Forward  Stop  Refresh  ENG 12-12-2024
```

```
ubuntu@ip-172-31-4-107:~  
0 upgraded, 1 newly installed, 0 to remove and 37 not upgraded.  
Need to get 40.3 MB of archives.  
After this operation, 132 MB of additional disk space will be used.  
get:1 https://aquasecurity.github.io/trivy-repo/deb generic/main amd64 trivy amd64 0.58.0 [40.2 MB]  
Fetched 40.2 MB in 4s (10.9 MB/s)  
Selecting previously unselected package trivy.  
(Reading database ... 66934 files and directories currently installed.)  
Preparing to unpack .../trivy_0.58.0_amd64.deb ...  
Unpacking trivy (0.58.0) ...  
Setting up trivy (0.58.0) ...  
Scanning processes...  
Scanning linux images...  
  
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.  
ubuntu@ip-172-31-4-107:~$ vi docker.sh  
ubuntu@ip-172-31-4-107:~$ sudo su  
root@ip-172-31-4-107:/home/ubuntu# cd  
root@ip-172-31-4-107:~# su - jenkins  
jenkins@ip-172-31-4-107:~$ sudo usermod -aG docker $USER  
[sudo] password for jenkins:  
^XSorry, try again.  
[sudo] password for jenkins:  
sudo: 1 incorrect password attempt  
jenkins@ip-172-31-4-107:~$ exit  
logout  
root@ip-172-31-4-107:~# exit  
exit  
ubuntu@ip-172-31-4-107:~$ sudo visudo  
ubuntu@ip-172-31-4-107:~$ sudo su  
root@ip-172-31-4-107:/home/ubuntu# exit  
exit  
ubuntu@ip-172-31-4-107:~$ sh docker.sh  
  % Total    % Received % Xferd  Average Speed   Time   Time  Current  
  % Total    % Received % Xferd  Average Speed   Time   Time  Current  
  100 22115  100 22115    0     0  173k  0:--:-- --:--:-- --:--:-- 174k  
# Executing docker install script, commit: 711a0d41213afabc30b963f82c56e1442a3ef1c  
+ sudo -E sh -c 'apt-get -qq update >/dev/null'
```

```
ubuntu@ip-172-31-4-107:~  
ubuntu@ip-172-31-4-107:~/home/ubuntu# cd  
root@ip-172-31-4-107:~# su - jenkins  
jenkins@ip-172-31-4-107:~$ sudo usermod -aG docker $USER  
[sudo] password for jenkins:  
^XSorry, try again.  
[sudo] password for jenkins:  
sudo: 1 incorrect password attempt  
jenkins@ip-172-31-4-107:~$ exit  
Logout  
root@ip-172-31-4-107:~# exit  
ubuntu@ip-172-31-4-107:~$ sudo visudo  
ubuntu@ip-172-31-4-107:~$ sudo su  
root@ip-172-31-4-107:~/home/ubuntu# exit  
exit  
ubuntu@ip-172-31-4-107:~$ sh docker.sh  
  % Total    % Received   % Xferd  Average Speed   Time     Time      Current  
          Dload  Upload Total Spent   Left Speed  
100 22115  100 22115    0     0  173k  0:--:-- --:--:--:--:-- 174k  
# Executing docker install script, commit: 711a0d41213afabc30b963f82c2c56e1442a3efec  
+ sudo -E sh -c 'apt-get -qq update >/dev/null'  
+ sudo -E sh -c 'DEBIAN_FRONTEND=noninteractive apt-get -y -qq install ca-certificates curl >/dev/null'  
+ sudo -E sh -c 'install -m 0755 -d /etc/apt/keyrings'  
+ sudo -E sh -c 'curl -fsSL "https://download.docker.com/linux/ubuntu/gpg" -o /etc/apt/keyrings/docker.asc'  
+ sudo -E sh -c 'chmod a=r /etc/apt/keyrings/docker.asc'  
+ sudo -E sh -c 'echo "deb [arch=amd64 signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu jammy stable" > /etc/apt/sources.list.d/docker.list'  
+ sudo -E sh -c 'apt-get -qq update >/dev/null'  
+ sudo -E sh -c 'DEBIAN_FRONTEND=noninteractive apt-get -y -qq install docker-ce docker-ce-cli containerd.io docker-compose-plugin docker-ce-rootless-extras docker-buildx-plugin >/dev/null'  
+ sudo -E sh -c 'docker version'  
Client: Docker Engine - Community  
Version:           27.4.0  
API version:       1.47  
Go version:        go1.22.10  
Git commit:        bde2b89  
Built:             Sat Dec  7 10:38:40 2024  
OS/Arch:           linux/amd64  
Context:           default  
  
Server: Docker Engine - Community  
Engine:  
  Version:          27.4.0  
  API version:     1.47 (minimum version 1.24)  
  Go version:      go1.22.10  
  Git commit:      92a8393  
  Built:           Sat Dec  7 10:38:40 2024  
  OS/Arch:         linux/amd64  
  Experimental:   false  
Containerd:  
  Version:          1.7.24  
  GitCommit:        88bf19b2105c8b17560993bee28a01ddc2f97182  
Runc:  
  Version:          1.2.2  
  GitCommit:        v1.2.2-0-g7cb3632  
Docker init:  
  Version:          0.19.0  
  GitCommit:        de40ad0  
-----  
To run Docker as a non-privileged user, consider setting up the  
Docker daemon in rootless mode for your user:  
dockerd-rootless-setuptool.sh install  
Visit https://docs.docker.com/go/rootless/ to learn about rootless mode.  
  
To run the Docker daemon as a fully privileged service, but granting non-root  
users access, refer to https://docs.docker.com/go/daemon-access/  
WARNING: Access to the remote API on a privileged Docker daemon is equivalent  
to root access on the host. Refer to the 'Docker daemon attack surface'  
documentation for details: https://docs.docker.com/go/attack-surface/  
-----  
ubuntu@ip-172-31-4-107:~$ sudo su  
root@ip-172-31-4-107:~/home/ubuntu# cd  
root@ip-172-31-4-107:~# su - jenkins  
jenkins@ip-172-31-4-107:~$ sudo usermod -aG docker $USER  
jenkins@ip-172-31-4-107:~$
```

```
root@ip-172-31-4-107:~  
os/arch:           linux/amd64  
context:           default  
  
server: Docker Engine - Community  
engine:  
  version:          27.4.0  
  api version:     1.47 (minimum version 1.24)  
  go version:      go1.22.10  
  git commit:      92a8393  
  built:           sat dec  7 10:38:40 2024  
  os/arch:         linux/amd64  
  experimental:   false  
containerd:  
  version:          1.7.24  
  gitcommit:        88bf19b2105c8b17560993bee28a01ddc2f97182  
runc:  
  version:          1.2.2  
  gitcommit:        v1.2.2-0-g7cb3632  
docker-init:  
  version:          0.19.0  
  gitcommit:        de40ad0  
-----  
to run Docker as a non-privileged user, consider setting up the  
Docker daemon in rootless mode for your user:  
dockerd-rootless-setuptool.sh install  
visit https://docs.docker.com/go/rootless/ to learn about rootless mode.  
  
to run the Docker daemon as a fully privileged service, but granting non-root  
users access, refer to https://docs.docker.com/go/daemon-access/  
WARNING: Access to the remote API on a privileged Docker daemon is equivalent  
to root access on the host. Refer to the 'Docker daemon attack surface'  
documentation for details: https://docs.docker.com/go/attack-surface/  
-----  
ubuntu@ip-172-31-4-107:~$ sudo su  
root@ip-172-31-4-107:~/home/ubuntu# cd  
root@ip-172-31-4-107:~# su - jenkins  
jenkins@ip-172-31-4-107:~$ sudo usermod -aG docker $USER  
jenkins@ip-172-31-4-107:~$
```

```
root@ip-172-31-4-107: ~
Version:      1.2.2
gitcommit:   v1.2.2-0-g7cb3632
docker-init:
version:      0.19.0
gitcommit: de40ad0

=====
To run Docker as a non-privileged user, consider setting up the
Docker daemon in rootless mode for your user:

dockerd-rootless-setuptool.sh install
Visit https://docs.docker.com/go/rootless/ to learn about rootless mode.

To run the Docker daemon as a fully privileged service, but granting non-root
users access, refer to https://docs.docker.com/go/daemon-access/
WARNING: Access to the remote API on a privileged Docker daemon is equivalent
to root access on the host. Refer to the 'Docker daemon attack surface'
documentation for details: https://docs.docker.com/go/attack-surface/

=====
ubuntu@ip-172-31-4-107:~$ sudo su
root@ip-172-31-4-107:/home/ubuntu# cd
root@ip-172-31-4-107:~# su - jenkins
jenkins@ip-172-31-4-107:~$ sudo usermod -aG docker $USER
jenkins@ip-172-31-4-107:~$ exit
logout
root@ip-172-31-4-107:~# exit
exit
ubuntu@ip-172-31-4-107:~$ sudo su
root@ip-172-31-4-107:/home/ubuntu# cd
root@ip-172-31-4-107:~# systemctl stop jenkins
Command 'systemctl' not found, did you mean:
  command 'systemctl' from deb systemd (249.11-0ubuntu3.12)
  command 'systemctl' from deb systemd (1.4.4181-1.1)
Try: apt install <deb name>
root@ip-172-31-4-107:~# systemctl stop jenkins
root@ip-172-31-4-107:~# systemctl start jenkins
root@ip-172-31-4-107:~# systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
root@ip-172-31-4-107:~#
```

```
ubuntu@ip-172-31-4-107: ~
=====
To run Docker as a non-privileged user, consider setting up the
Docker daemon in rootless mode for your user:

dockerd-rootless-setuptool.sh install
Visit https://docs.docker.com/go/rootless/ to learn about rootless mode.

To run the Docker daemon as a fully privileged service, but granting non-root
users access, refer to https://docs.docker.com/go/daemon-access/
WARNING: Access to the remote API on a privileged Docker daemon is equivalent
to root access on the host. Refer to the 'Docker daemon attack surface'
documentation for details: https://docs.docker.com/go/attack-surface/

=====
ubuntu@ip-172-31-4-107:~$ sudo su
root@ip-172-31-4-107:/home/ubuntu# cd
root@ip-172-31-4-107:~# su - jenkins
jenkins@ip-172-31-4-107:~$ sudo usermod -aG docker $USER
jenkins@ip-172-31-4-107:~$ exit
logout
root@ip-172-31-4-107:~# exit
exit
ubuntu@ip-172-31-4-107:~$ sudo su
root@ip-172-31-4-107:/home/ubuntu# cd
root@ip-172-31-4-107:~# systemctl stop jenkins
Command 'systemctl' not found, did you mean:
  command 'systemctl' from deb systemd (249.11-0ubuntu3.12)
  command 'systemctl' from deb systemd (1.4.4181-1.1)
Try: apt install <deb name>
root@ip-172-31-4-107:~# systemctl stop jenkins
root@ip-172-31-4-107:~# systemctl start jenkins
root@ip-172-31-4-107:~# systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
root@ip-172-31-4-107:~# exit
exit
ubuntu@ip-172-31-4-107:~$ mkdir sonar
sudo chown -R 1000:1000 /home/ubuntu/sonar
sudo chmod -R 755 /home/ubuntu/sonar
ubuntu@ip-172-31-4-107:~|
```

```
ubuntu@ip-172-31-4-107:~
```

```
ubuntu@ip-172-31-4-107:~$ sudo su
root@ip-172-31-4-107:~/home/ubuntu# cd
root@ip-172-31-4-107:~# su - jenkins
jenkins@ip-172-31-4-107:~$ sudo usermod -aG docker $USER
jenkins@ip-172-31-4-107:~$ exit
logout
root@ip-172-31-4-107:~# exit
ubuntu@ip-172-31-4-107:~$ sudo su
root@ip-172-31-4-107:~/home/ubuntu# cd
root@ip-172-31-4-107:~# systemctl stop jenkins
Command 'systemctl' not found, did you mean:
  command 'systemctl' from deb systemd (249.11-0ubuntu3.12)
  command 'systemctl' from deb systemd1 (1.4.4181-1.1)
Try: apt install <deb name>
root@ip-172-31-4-107:~# systemctl stop jenkins
root@ip-172-31-4-107:~# systemctl start jenkins
root@ip-172-31-4-107:~# systemctl enable jenkins
Synchronizing state of jenkins.service with sysv service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
root@ip-172-31-4-107:~# exit
exit
ubuntu@ip-172-31-4-107:~$ mkdir sonar
sudo chown -R 1000:1000 /home/ubuntu/sonar
sudo chmod -R 755 /home/ubuntu/sonar
ubuntu@ip-172-31-4-107:~$ docker run -d \
  --name sonar \
  -p 9000:9000 \
  -v /home/ubuntu/sonar:/opt/sonarqube/data \
  -v /home/ubuntu/sonar/extensions:/opt/sonarqube/extensions \
  -v /home/ubuntu/sonar/logs:/opt/sonarqube/logs \
  sonarqube:lts-community
unable to find image 'sonarqube:lts-community' locally
lts-community: Pulling from library/sonarqube
6414378b6477: Extracting [=====] 25.23MB/29.54MB
17da8ec43a12: Download complete
d12988e90d61: Download complete
f4d133ca2b7f: Download complete
143733aae87a4: Download complete
8438621478bb: Downloading [=====] 68.73MB/300.8MB
3d0284140b24: Download complete
4f4fb700ef54: Download complete
```



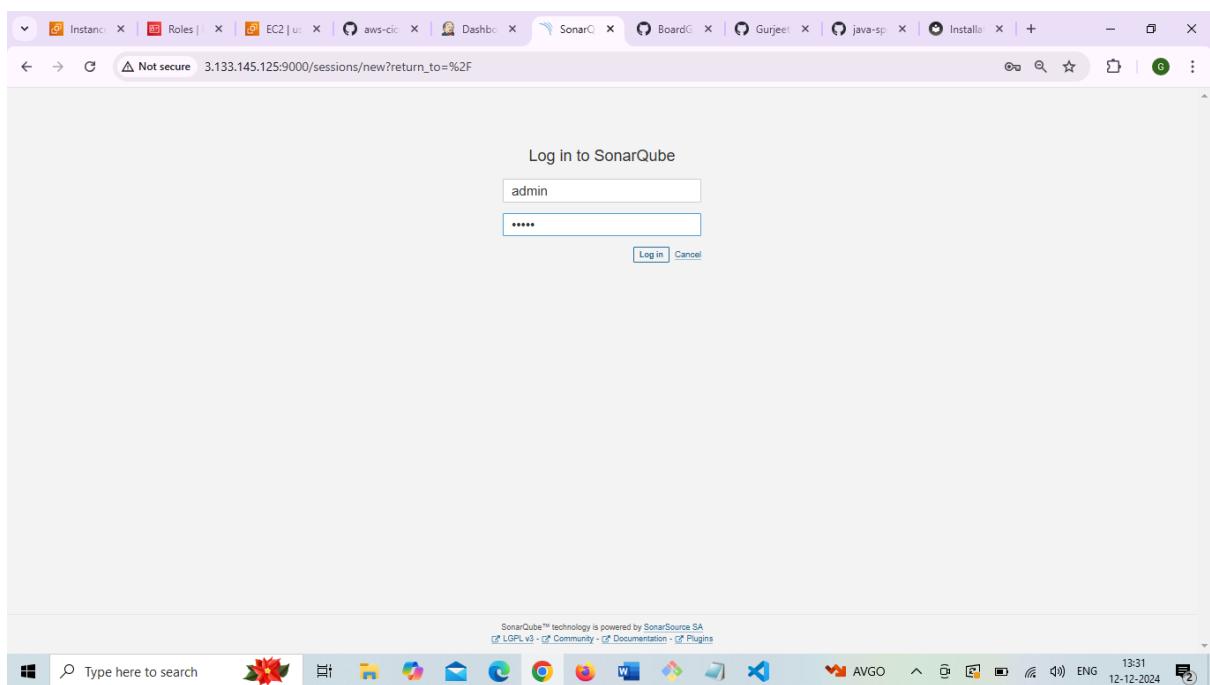
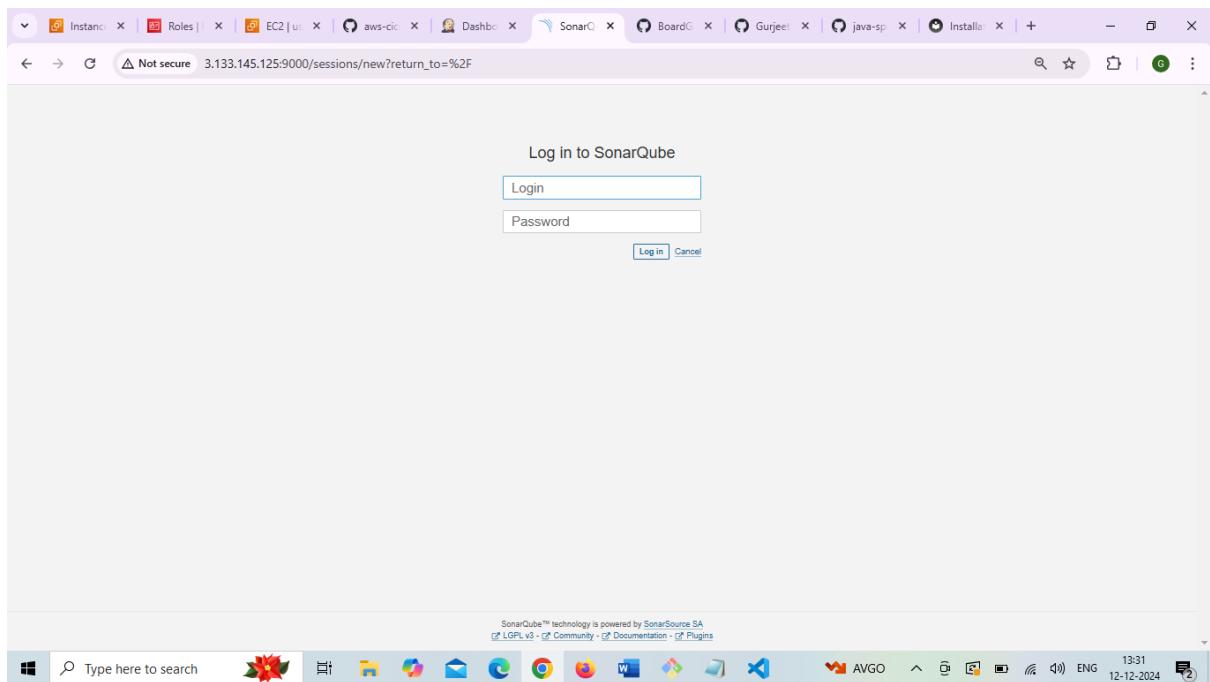
1 c... 13:26 ENG 12-12-2024

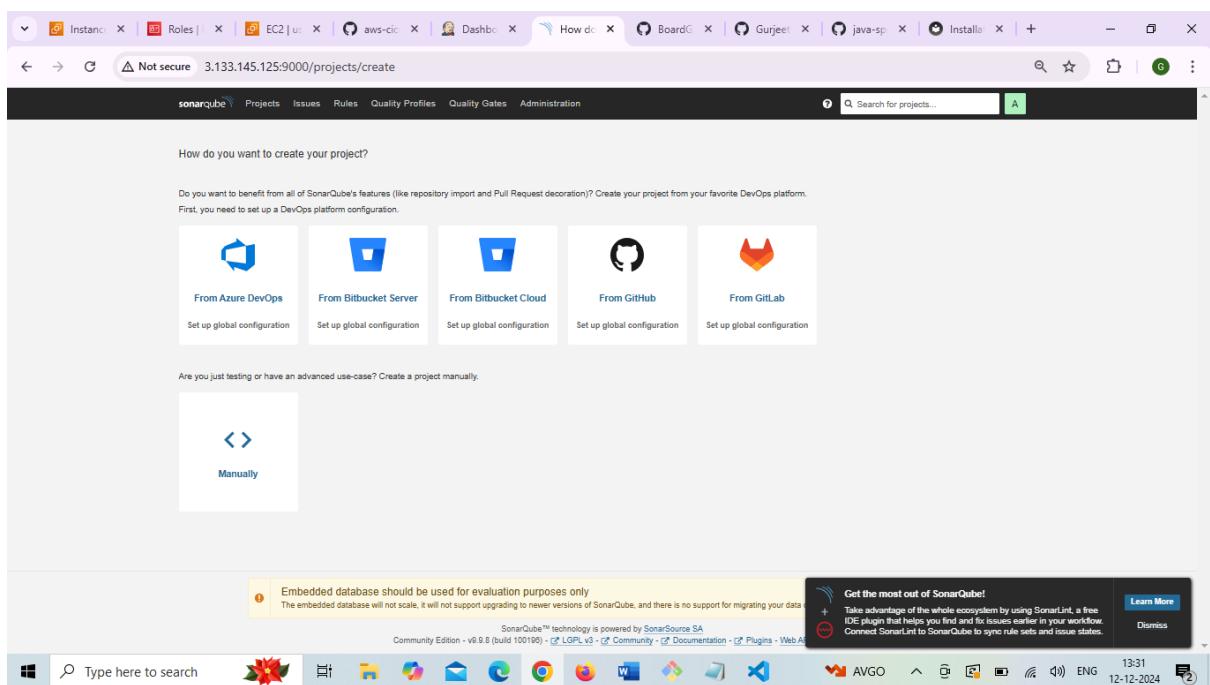
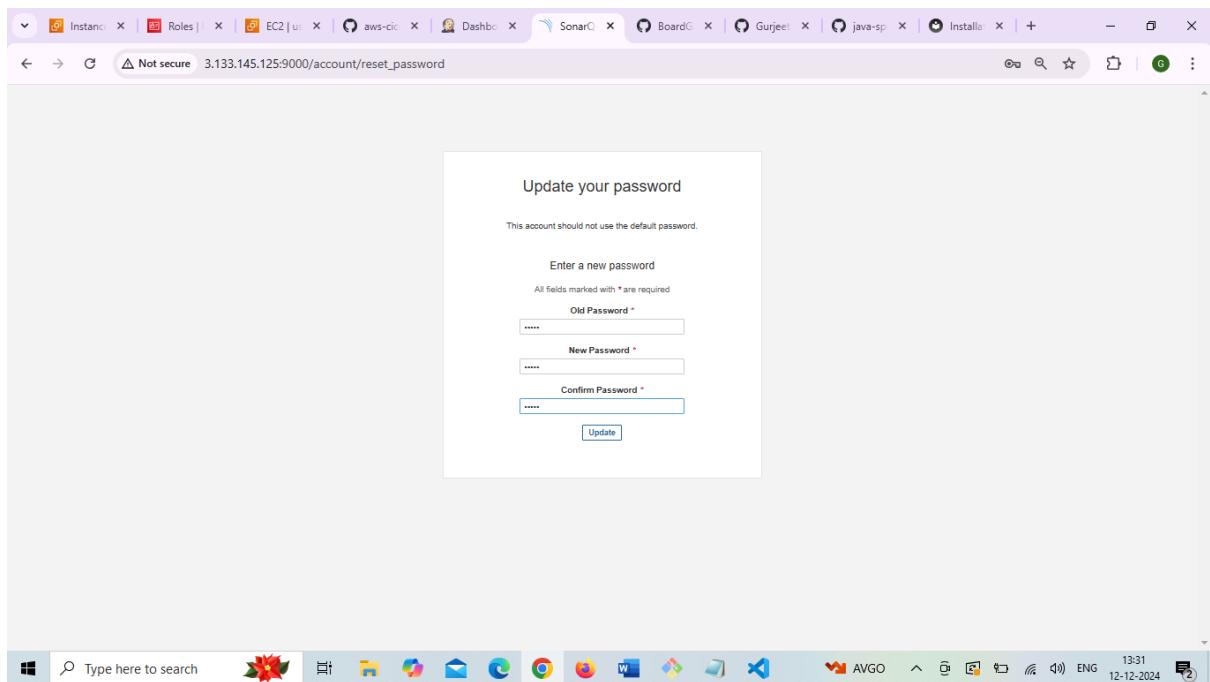
```
ubuntu@ip-172-31-4-107:~
```

```
unable to find image 'sonarqube:lts-community' locally
lts-community: Pulling from library/sonarqube
6414378b6477: Pull complete
17da8ec43a12: Pull complete
d12988e90d61: Pull complete
f4d133ca2b7f: Pull complete
143733aae87a4: Pull complete
8438621478bb: Pull complete
3d0284140b24: Pull complete
4f4fb700ef54: Pull complete
Digest: sha256:c337c407849de45a27f09dbd87579ad7b5784e0b02b096c1f8cd72e27a9fdc
status: downloaded newer image for sonarqube:lts-community
8b34b3dd5f4f78fe96d4bb575f1e2e57ebcb54f71d75afe71a3ef71fecb26
ubuntu@ip-172-31-4-107:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
8b34b3dd5f4f sonarqube:lts-community "/opt/sonarqube/dock..." 6 seconds ago Up 3 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
ubuntu@ip-172-31-4-107:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
8b34b3dd5f4f sonarqube:lts-community "/opt/sonarqube/dock..." 7 seconds ago Up 5 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
ubuntu@ip-172-31-4-107:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
8b34b3dd5f4f sonarqube:lts-community "/opt/sonarqube/dock..." 9 seconds ago Up 6 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
ubuntu@ip-172-31-4-107:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
8b34b3dd5f4f sonarqube:lts-community "/opt/sonarqube/dock..." 10 seconds ago Up 8 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
ubuntu@ip-172-31-4-107:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
8b34b3dd5f4f sonarqube:lts-community "/opt/sonarqube/dock..." 11 seconds ago Up 8 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
ubuntu@ip-172-31-4-107:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
8b34b3dd5f4f sonarqube:lts-community "/opt/sonarqube/dock..." 12 seconds ago Up 9 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
ubuntu@ip-172-31-4-107:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
8b34b3dd5f4f sonarqube:lts-community "/opt/sonarqube/dock..." 13 seconds ago Up 11 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
ubuntu@ip-172-31-4-107:~$ docker run -d --name sonar -p 9000:9000 -v /home/ubuntu/sonar:/opt/sonarqube/data -v /home/ubuntu/sonar/extensions:/opt/sonarqube/exten
nsions -v /home/ubuntu/sonar/logs:/opt/sonarqube/logs sonarqube:lts-community
docker: Error response from daemon: Conflict. The container name "/sonar" is already in use by container "8b34b3dd5f4f78fe96d4bb575f1e2e57ebcb54f71d75afe71a3ef71fecb
26". You have to remove (or rename) that container to be able to reuse that name.
See "docker run --help".
ubuntu@ip-172-31-4-107:~$ docker run -d --name sonar -p 9000:9000 -v /home/ubuntu/sonar:/opt/sonarqube/data -v /home/ubuntu/sonar/extensions:/opt/sonarqube/exte
nsions -v /home/ubuntu/sonar/logs:/opt/sonarqube/logs sonarqube:lts-community
docker: Error response from daemon: conflict. The container name "/sonar" is already in use by container "8b34b3dd5f4f78fe96d4bb575f1e2e57ebcb54f71d75afe71a3ef71fecb
26". You have to remove (or rename) that container to be able to reuse that name.
```



Cold... 13:26 ENG 12-12-2024





```
ubuntu@ip-172-31-4-107:~  
See 'docker run --help'.  
ubuntu@ip-172-31-4-107:~$ docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
8b34b3dd5f4f sonarqube:ts-community "/opt/sonarqube/dock..." 19 seconds ago Up 16 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar  
ubuntu@ip-172-31-4-107:~$ docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
8b34b3dd5f4f sonarqube:ts-community "/opt/sonarqube/dock..." 20 seconds ago Status Exited (0) Less than a second ago 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar  
ubuntu@ip-172-31-4-107:~$ docker rm sonar  
Error response from daemon: No such container: sonar  
ubuntu@ip-172-31-4-107:~$ docker rm sonar  
Command 'socket' not found, did you mean:  
command 'docker' from deb podman-docker (3.4.4+ds1-1ubuntu1.22.04.2)  
command 'docker' from deb docker.io (24.0.7-0ubuntu2-22.04.1)  
command 'socket' from deb socket (1.1-10build1)  
Try: sudo apt install <deb name>  
ubuntu@ip-172-31-4-107:~$ docker rm sonar  
sonar  
ubuntu@ip-172-31-4-107:~$ docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
ubuntu@ip-172-31-4-107:~$ cd sonar/  
ubuntu@ip-172-31-4-107:~/sonar$ sudo rm -rf extensions/ logs/  
ubuntu@ip-172-31-4-107:~/sonar$ cd  
ubuntu@ip-172-31-4-107:~/sonar$ sudo su  
root@ip-172-31-4-107:~/home/ubuntu# cd  
root@ip-172-31-4-107:~/home/ubuntu# mkd1n sonar  
root@ip-172-31-4-107:~/home/ubuntu# sudo chown -R 1000:1000 /home/ubuntu/sonar  
root@ip-172-31-4-107:~/home/ubuntu# sudo chmod -R 755 /home/ubuntu/sonar  
root@ip-172-31-4-107:~/# docker run -d \  
--name sonar \  
-p 9000:9000 \  
-v /home/ubuntu/sonar:/opt/sonarqube/data \  
-v /home/ubuntu/sonar/extensions:/opt/sonarqube/extensions \  
-v /home/ubuntu/sonar/logs:/opt/sonarqube/logs \  
sonarqube:ts-community  
259d379c24202719fa3a49c03285e588037be204c6fc4e6c1eb1559282614bf  
root@ip-172-31-4-107:~# docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
259d379c2420 sonarqube:ts-community "/opt/sonarqube/dock..." 5 seconds ago Up 4 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar  
root@ip-172-31-4-107:~# docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
259d379c2420 sonarqube:ts-community "/opt/sonarqube/dock..." 49 seconds ago Status Exited (0) 32 seconds ago 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar  
root@ip-172-31-4-107:~# docker rm sonar  
Error response from daemon: No such container: sonar  
root@ip-172-31-4-107:~# docker rm sonar  
sonar  
root@ip-172-31-4-107:~# ls
```

```
ubuntu@ip-172-31-4-107:~  
ubuntu@ip-172-31-4-107:~$ docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
ubuntu@ip-172-31-4-107:~$ cd sonar/  
ubuntu@ip-172-31-4-107:~/sonar$ sudo rm -rf extensions/ logs/  
ubuntu@ip-172-31-4-107:~/sonar$ cd  
ubuntu@ip-172-31-4-107:~/sonar$ sudo su  
root@ip-172-31-4-107:~/home/ubuntu# cd  
root@ip-172-31-4-107:~/home/ubuntu# mkd1n sonar  
root@ip-172-31-4-107:~/home/ubuntu# sudo chown -R 1000:1000 /home/ubuntu/sonar  
root@ip-172-31-4-107:~/home/ubuntu# sudo chmod -R 755 /home/ubuntu/sonar  
root@ip-172-31-4-107:~/# docker run -d \  
--name sonar \  
-p 9000:9000 \  
-v /home/ubuntu/sonar:/opt/sonarqube/data \  
-v /home/ubuntu/sonar/extensions:/opt/sonarqube/extensions \  
-v /home/ubuntu/sonar/logs:/opt/sonarqube/logs \  
sonarqube:ts-community  
259d379c24202719fa3a49c03285e588037be204c6fc4e6c1eb1559282614bf  
root@ip-172-31-4-107:~# docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
259d379c2420 sonarqube:ts-community "/opt/sonarqube/dock..." 5 seconds ago Up 4 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar  
root@ip-172-31-4-107:~# docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
259d379c2420 sonarqube:ts-community "/opt/sonarqube/dock..." 49 seconds ago Status Exited (0) 32 seconds ago 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar  
root@ip-172-31-4-107:~# docker rm sonar  
Error response from daemon: No such container: sonar  
root@ip-172-31-4-107:~# docker rm sonar  
sonar  
root@ip-172-31-4-107:~# ls  
snap sonar  
root@ip-172-31-4-107:~# rm -rf sonar  
root@ip-172-31-4-107:~# sudo chown -R 1000:1000 /home/ubuntu/sonar  
sudo chmod -R 755 /home/ubuntu/sonar  
root@ip-172-31-4-107:~# exit  
exit  
ubuntu@ip-172-31-4-107:~$ ls  
a docker.sh jenkins.sh sonar trivy.sh  
ubuntu@ip-172-31-4-107:~$ docker run -d --name sonar -p 9000:9000 -v /home/ubuntu/sonar:/opt/sonarqube/data -v /home/ubuntu/sonar/extensions:/opt/sonarqube/exte  
nsions -v /home/ubuntu/sonar/logs:/opt/sonarqube/logs sonarqube:ts-community  
0e6f2cb01d49c306a645c10f33d5901e74663c2e22c77e9091732918d16839da  
ubuntu@ip-172-31-4-107:~$ docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
0e6f2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 5 seconds ago Up 4 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar  
ubuntu@ip-172-31-4-107:~$ docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
0e6f2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 6 seconds ago Up 6 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
```

```

ubuntu@ip-172-31-4-107:~#
root@ip-172-31-4-107:~# ls
snap sonar
root@ip-172-31-4-107:~# rm -rf sonar
root@ip-172-31-4-107:~# sudo chown -R 1000:1000 /home/ubuntu/sonar
sudo chmod -R 755 /home/ubuntu/sonar
root@ip-172-31-4-107:~# exit
exit
ubuntu@ip-172-31-4-107:~$ ls
@ docker.sh Jenkins.sh sonar trivy.sh
ubuntu@ip-172-31-4-107:~$ docker run -d --name sonar -p 9000:9000 -v /home/ubuntu/sonar:/opt/sonarqube/data -v /home/ubuntu/sonar/extensions:/opt/sonarqube/exte
nsons -v /home/ubuntu/sonar/logs:/opt/sonarqube/logs sonarqube:ts-community
ubuntu@ip-172-31-4-107:~$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 5 seconds ago Up 4 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 6 seconds ago Up 6 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 7 seconds ago Up 7 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 9 seconds ago Up 8 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 10 seconds ago Up 9 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 11 seconds ago Up 10 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 13 seconds ago Up 12 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 38 seconds ago Up 37 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 40 seconds ago Up 39 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 41 seconds ago Up 40 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
0efc2cb01d49 sonarqube:ts-community "/opt/sonarqube/dock..." 43 seconds ago Up 43 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
ubuntu@ip-172-31-4-107:~$
```

Windows Taskbar: Type here to search, File Explorer, File Manager, Mail, Photos, OneDrive, OneNote, Word, Excel, Powerpoint, Slides, Edge, File Explorer, AVG, ENG, 13:32, 12-12-2024

Not secure 3.133.145.125:9000/admin/webhooks

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

Administration

Configuration Security Projects System Marketplace

General Settings
Encryption
Webhooks

notify external services when a project analysis is done. An HTTP POST request including a JSON payload is sent to URLs. Learn more in the [Webhooks documentation](#).

Create

No webhook defined.

Embedded database should be used for evaluation purposes only
The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data.

SonarQube™ technology is powered by SonarSource SA
Community Edition - v6.8.8 (build 100198) - [LGPL v3](#) - [Community](#) - [Documentation](#) - [Plugins](#) - [Web API](#)

Get the most out of SonarQube!
Take advantage of the whole ecosystem by using SonarLint, a free IDE plugin that helps you find and fix issues earlier in your workflow. Connect SonarLint to SonarQube to sync rule sets and issue states.

Learn More Dismiss

3.133.145.125:9000/admin/webhooks

Windows Taskbar: Type here to search, File Explorer, File Manager, Mail, Photos, OneDrive, OneNote, Word, Excel, Powerpoint, Slides, Edge, File Explorer, AVG, ENG, 13:32, 12-12-2024

The screenshot shows the SonarQube Administration interface with the 'Webhooks' section selected. A modal window titled 'Create Webhook' is open, prompting for a name ('sonarwebhook') and URL ('http://3.133.145.125:8080/sonarqube-webhook'). Both fields are filled with their respective values. A note below the URL field specifies that it should be a secure endpoint using HTTPS to prevent man-in-the-middle attacks. The 'Create' button at the bottom right of the modal is highlighted.

The screenshot shows the SonarQube Administration interface with the 'Webhooks' section selected. A table lists the created webhook, named 'sonar-webhook', which has the URL 'http://3.133.145.125:8080/sonarqube-webhook'. The table includes columns for Name, URL, Has secret?, Last delivery, and Actions. The 'Actions' column for this row contains a single blue circular icon with a white minus sign, indicating a delete or edit action.

The screenshot shows the SonarQube Administration - Users page. At the top, there is a navigation bar with links for sonarcube, Projects, Issues, Rules, Quality Profiles, Quality Gates, Administration, Configuration, Security, Projects, System, and Marketplace. A search bar is also present. Below the navigation, a sub-navigation bar includes SCM Accounts, Last connection, Groups, and Tokens. A table displays a single user entry:

SCM Accounts	Last connection	Groups	Tokens
sonar-administrators sonar-users	< 1 hour ago	0	Update Tokens

A message at the bottom left states: "Embedded database should be used for evaluation purposes only. The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of the embedded database." On the right, a sidebar promotes SonarLint: "Get the most out of SonarQube! Take advantage of the whole ecosystem by using SonarLint, a free IDE plugin that helps you find and fix issues earlier in your workflow. Connect SonarLint to SonarQube to sync rule sets and issue states." A "Learn More" button and a "Dismiss" link are available.

The screenshot shows the SonarQube Administration - Tokens of Administrator page. The interface is dark-themed. At the top, there is a navigation bar with links for sonarcube, Projects, Issues, Rules, Quality Profiles, Quality Gates, Administration, Configuration, Security, Projects, System, and Marketplace. A search bar is also present. Below the navigation, a sub-navigation bar includes SCM Accounts, Last connection, Groups, and Tokens. A table titled "Tokens of Administrator" shows token generation details and a list of tokens:

Name	Expires in	Generate
sonar	30 days	Generate

Name	Type	Project	Last use	Created	Expiration
No tokens					

A message at the bottom left states: "Embedded database should be used for evaluation purposes only. The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of the embedded database." On the right, a sidebar promotes SonarLint: "Get the most out of SonarQube! Take advantage of the whole ecosystem by using SonarLint, a free IDE plugin that helps you find and fix issues earlier in your workflow. Connect SonarLint to SonarQube to sync rule sets and issue states." A "Learn More" button and a "Dismiss" link are available.

The screenshot shows the SonarQube Administration interface. In the top navigation bar, there are several tabs: sonarqube, Projects, Issues, Rules, Quality Profiles, Quality Gates, Administration, and others like Roles, EC2, aws-cic, Users, Board, Gurjeet, java-sp, and Installations. The Administration tab is active.

In the main content area, there is a section titled "Tokens of Administrator". It includes a "Generate Tokens" form where a new token named "sonar" has been created, valid for 30 days. A success message states: "New token 'sonar' has been created. Make sure you copy it now, you won't be able to see it again!". Below this, a table lists existing tokens:

Name	Type	Project	Last use	Created	Expiration
sonar	User		Never	December 12, 2024	January 10, 2025

At the bottom right of the table, there is a "Revoke" button. A "Done" button is located at the bottom right of the token generation section.

At the bottom of the page, there is a note: "Embedded database should be used for evaluation purposes only. The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out." There is also a "Community Edition - v6.8 (build 100199) - GPL v3 - Community - Documentation - Plugins - Web API" link. A "Get the most out of SonarQube!" sidebar with "Learn More" and "Dismiss" buttons is visible on the right.

The Windows taskbar at the bottom shows various pinned icons and the system tray with the date and time (12-12-2024, 13:32).

The screenshot shows the Jenkins Manage Jenkins > Credentials interface. The top navigation bar includes tabs for Dashboard, Manage Jenkins, and Credentials. The Credentials tab is active.

The main content area is titled "Credentials" and displays a table of credentials:

T	P	Store	Domain	ID	Name
System	System	(global)		git-cred	Gurjeetkaur99/***** (git-cred)

Below the table, there is a section titled "Stores scoped to Jenkins" which shows a single store named "System".

The Windows taskbar at the bottom shows various pinned icons and the system tray with the date and time (12-12-2024, 13:32).

This screenshot shows a detailed view of the Jenkins credentials store. The URL in the address bar is 3.133.125.125:8080/manage/credentials/store/system.

The main content area is titled "System" and shows a table of credentials:

P	Store	Domains
System	System	(global)

At the bottom left, there are icons for S, M, and L. The Windows taskbar at the bottom shows various pinned icons and the system tray with the date and time (12-12-2024, 13:33). The REST API and Jenkins 2.489 status are also visible.

New credentials

Kind: Secret text

Scope: Global (Jenkins, nodes, items, all child items, etc)

Secret:
.....

ID: sonar

Description: sonar

Create



Global credentials (unrestricted)

+ Add Credentials

ID	Name	Kind	Description
git-cred	Gurjeetkaur99***** (git-cred)	Username with password	git-cred
sonar	sonar	Secret text	sonar

Icon: S M L



Screenshot of the Jenkins Manage Jenkins > System configuration page for SonarQube servers.

The page shows a configuration form for adding a SonarQube server named "sonar".

Fields filled in:

- Name: sonar
- Server URL: http://3.133.145.125:9000
- Server authentication token: sonar

Buttons at the bottom:

- Add SonarCube
- Save
- Apply

System tray at the bottom right:

- Type here to search
- Icons for various Windows applications (File Explorer, Mail, etc.)
- DOW
- 13:35 12-12-2024

Screenshot of the Jenkins Manage Jenkins > Tools configuration page for SonarQube Scanner installations.

The page shows a configuration form for adding a SonarQube Scanner named "sonar-scanner".

Fields filled in:

- Name: sonar-scanner
- Install automatically: checked
- Version: SonarQube Scanner 6.2.1.4610

Buttons at the bottom:

- Add SonarQube Scanner
- Save
- Apply

System tray at the bottom right:

- Type here to search
- Icons for various Windows applications (File Explorer, Mail, etc.)
- S&P...
- 13:36 12-12-2024

A screenshot of the Visual Studio Code interface. The title bar says "project-boardgame". The left sidebar shows a file tree with "PROJECT-BOARDGAME" expanded, containing "src", "2.png", "3.png", "deployment-service.yaml", "Dockerfile", "globalsettings.png", "Jenkinsfile" (selected), "Jenkinsfile123", "mmw", "mvnw.cmd", "pom.xml", "README.md", "settings.xml", "soft-install.sh", and "sonar-project.properties". The main editor area displays the Jenkinsfile:

```
1 pipeline {  
2     tools {  
3     }  
4     environment {  
5         SCANNER_HOME = tool 'sonar-scanner'  
6     }  
7     stages {  
8         stage('Git Checkout') {  
9             steps {  
10                 git branch: 'prod', credentialsId: 'git-cred', url: 'https://github.com/Gurjeetkaur99/project-boardgame.git'  
11             }  
12         }  
13         stage('Maven Compile') {  
14             steps {  
15                 echo 'Maven Compile Started'  
16                 sh 'mvn compile'  
17             }  
18         }  
19         stage('Maven Test') {  
20             steps {  
21                 echo 'Maven Test Started'  
22                 sh 'mvn test'  
23             }  
24         }  
25         stage('File System Scan by Trivy') {  
26             steps {  
27                 echo 'Trivy Scan Started'  
28                 sh 'trivy fs --format table --output trivy-filescanproject-output.txt'  
29             }  
30         }  
31         stage('Sonar Analysis') {  
32             steps {  
33                 withSonarQubeEnv('sonar') {  
34                     sh """ $SCANNER_HOME/bin/sonar-scanner -Dsonar.projectName=BoardGame -Dsonar.projectKey=BoardGame \  
35                         -Dsonar.java.binaries=. -Dsonar.exclusions=*/trivy-filescanproject-output.txt """  
36                 }  
37             }  
38         }  
39     }  
40 }
```

The status bar at the bottom shows "Ln 37 Col 123 Spaces: 4 UTF-8 CRLF Groovy" and the date "12-12-2024".

A screenshot of the Visual Studio Code interface, similar to the first one but with a terminal tab open. The title bar says "project-boardgame". The left sidebar shows the same file tree. The main editor area displays the Jenkinsfile. The terminal tab shows the following command-line session:

```
$ git commit -m "sonar check"  
[prod 83c2e6b] sonar check  
 1 file changed, 11 insertions(+)  
  
admin@DESKTOP-3AGIR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)  
$ git push  
Enumerating objects: 5, done.  
Counting objects: 100% (5/5), done.  
Delta compression using up to 4 threads  
Compressing objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 518 bytes | 259.00 KiB/s, done.  
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)  
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.  
To https://github.com/Gurjeetkaur99/project-boardgame.git  
 9577f50..83c2e6b prod -> prod
```

The status bar at the bottom shows "Ln 43 Col 1 Spaces: 4 UTF-8 CRLF Groovy" and the date "12-12-2024".

Jenkins

Not secure 3.133.145.125:8080/job/boardgame-project/

Dashboard > boardgame-project >

Status boardgame-project

Build Now

Configure Delete Pipeline Full Stage View SonarQube Stages Rename Pipeline Syntax GitHub Hook Log

Builds Filter Today #5 6:38 PM #4 6:15 PM #3 6:12 PM #2 6:11 PM

Average stage times: (Average full run time: ~27s)

Stage View

	Declarative: Checkout SCM	Declarative: Tool Install	Git Checkout	Maven Compile	Maven Test	File System Scan by Trivy	Sonar Analysis
Dec 12 13:30 1 commit	545ms	924ms	653ms	5s	14s	3s	16s
Dec 12 13:15 1 commit	553ms	169ms	793ms	3s	13s	1s	16s
Dec 12 13:12 1 commit	499ms	111ms	504ms	3s	13s	5s	
Dec 12 13:12 1 commit	562ms	151ms	673ms	3s	16s		
Dec 12 13:11 1 commit	560ms	3s	645ms	13s			

SonarQube Quality Gate

BoardGame N/A serverside processing: In progress

Type here to search

File Edit Selection View Go Run ...

project-boardgame

EXPLORER PROJECT-BOARDGAME Jenkinsfile Jenkinsfile pipeline stages stage('Maven Test') stage('Sonar Analysis') steps stage('Quality Gate') steps timeout(time: 1, unit: 'MINUTES') waitForQualityGate abortPipeline: true, credentialsId: 'sonar'

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
$ git commit -m "sonar check"
[prod 83c2e6b] sonar check
1 file changed, 11 insertions(+)

admin@DESKTOP-3AGIR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 518 bytes | 259.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
  9577f50..83c2e6b prod -> prod
```

OUTLINE TIMELINE prod Type here to search

The screenshot shows a Windows desktop environment. In the foreground, the Visual Studio Code (VS Code) interface is open, displaying a Jenkinsfile in the editor. The file contains Jenkins pipeline code with stages for Maven Test and Sonar Analysis. Below the editor, a terminal window is running a git commit command followed by a git push command, both of which are successful. The terminal also shows the creation of a local git repository and its connection to a GitHub remote. The VS Code status bar indicates the file has 46 lines and 11 columns, and the encoding is UTF-8. The taskbar at the bottom shows various pinned icons.

The screenshot shows a Windows desktop environment with a browser window open to the Jenkins dashboard. The URL in the address bar is `3.133.145.125:8080/job/boardgame-project/`. The Jenkins interface displays the 'boardgame-project' pipeline. On the left, there's a sidebar with options like Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, SonarQube, Stages, Rename, Pipeline Syntax, and GitHub Hook Log. The main area shows a 'Stage View' table with columns for Declarative Checkout SCM, Declarative Tool Install, Git Checkout, Maven Compile, Maven Test, File System Scan by Trivy, Sonar Analysis, and Quality Gate. Five build stages are listed, each with a timestamp (Dec 12), a comment icon, and a duration. The SonarQube Quality Gate section indicates a failure. The taskbar at the bottom shows various pinned icons.

The screenshot shows the SonarQube interface for the 'BoardGame' project. The project has passed its quality gate. Key metrics displayed include:

- Bugs: 30 (C)
- Vulnerabilities: 0 (A)
- Hotspots Reviewed: 0.0% (E)
- Code Smells: 35 (A)
- Coverage: 0.0%
- Duplications: 46.7%
- Lines: 2K (S) HTML, Java...

On the left, there are filters for Quality Gate (Passed), Reliability (A-E rating), Security (A-E rating), and Security Review (z 80%, 70%-80%, 50%-70%, 30%-50%, < 30%). A tooltip provides information about using an embedded database for evaluation purposes.

At the bottom right, there is a 'Learn More' button and a 'Dismiss' button for a SonarLint integration message.

The screenshot shows the 'Quality Gates' section of SonarQube. A new quality gate named 'Sonar way' has been created and is selected. The configuration details are as follows:

This quality gate complies with Clean as You Code

This quality gate complies with the [Clean as You Code](#) methodology, so that you benefit from the most efficient approach to delivering Clean Code. It ensures that:

- No new bugs are introduced
- No new vulnerabilities are introduced
- All new security hotspots are reviewed
- New code has limited technical debt
- New code has limited duplication
- New code is properly covered by tests

Conditions

Conditions on New Code

Metric	Operator	Value
Coverage	is less than	80.0%
Duplicated Lines (%)	is greater than	3.0%
Maintainability Rating	is worse than	A (Technical debt ratio is less than 5.0%)
Reliability Rating	is worse than	A (No bugs)
Security Hotspots Reviewed	is less than	100%
Security Rating	is worse than	A (No vulnerabilities)

Projects

Every project not specifically associated to a quality gate will be associated to this one by default.

At the bottom right, there is a 'Learn More' button and a 'Dismiss' button for a SonarLint integration message.

Created Maven package, created artifactory in jfrog and Pushed image into docker.

The screenshot shows the Jenkinsfile content in the VS Code editor:

```
1 pipeline {
2   stages {
3     stage('Maven Test') {
4       steps {
5         timeout(time: 1, unit: 'MINUTES') {
6           waitForQualityGate abortPipeline: true, credentialsId: 'sonar'
7         }
8       }
9     }
10    stage('Maven Package') {
11      steps {
12        echo 'Maven package Started'
13        sh 'mvn package'
14      }
15    }
16  }
17}
```

The terminal output shows the execution of Jenkinsfile commands:

```
admin@DESKTOP-3A6NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git commit -m "quality gate check"
[prod 2481471] quality gate check
1 file changed, 7 insertions(+)

admin@DESKTOP-3A6NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 39 bytes | 200.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
  83c2e8b..2481471 prod -> prod
```

The screenshot shows the Jenkinsfile content in the VS Code editor:

```
1 pipeline {
2   stages {
3     stage('Maven Test') {
4       steps {
5         timeout(time: 1, unit: 'MINUTES') {
6           waitForQualityGate abortPipeline: true, credentialsId: 'sonar'
7         }
8       }
9     }
10    stage('Maven Package') {
11      steps {
12        echo 'Maven package Started'
13        sh 'mvn package'
14      }
15    }
16  }
17}
```

The terminal output shows the execution of Jenkinsfile commands:

```
admin@DESKTOP-3A6NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git commit -m "maven package"
[prod 0f1f1d6] maven package
1 file changed, 6 insertions(+)

admin@DESKTOP-3A6NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 337 bytes | 337.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
  2481471..0f1f1d6 prod -> prod
```

The screenshot shows the Jenkins Pipeline interface for the 'boardgame-project'. On the left, there's a sidebar with options like Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, SonarQube, Stages, Rename, Pipeline Syntax, and GitHub Hook Log. Below that is a 'Builds' section with a search bar and a list of recent builds. The main area is titled 'Stage View' and displays a grid of build stages. The columns are: Declarative Checkout SCM, Declarative Tool Install, Git Checkout, Maven Compile, Maven Test, File System Scan by Trivy, Sonar Analysis, Quality Gate, and Maven Package. Each stage has a timestamp and a green progress bar indicating its duration. For example, the first stage (Declarative Checkout SCM) took 523ms. The 'File System Scan by Trivy' stage took 2s. The 'Sonar Analysis' stage took 13s. The 'Quality Gate' stage took 359ms. The 'Maven Package' stage took 17s.

The screenshot shows the JFrog Platform interface. The top navigation bar includes links for Instances, Roles, EC2, aws-cicd, boards, Users, Board, Gurjeet, java-spi, Install, and JFrog. It also features a 'Select a Plan' button and a 'Request a Demo' button. The main content area is titled 'All Projects' and shows a 'Repositories' section. On the left, a sidebar lists categories such as Projects, Environments, Repositories (which is selected and highlighted in green), User Management, Authentication, Security, General Management, Monitoring, Topology, Artifactory Settings, and Xray Settings. The right side shows a table of repositories. The table has columns for Repository Key, Type, Project, Environment, Selected Repositories, and Share. There are four entries:

Repository Key	Type	Project	Environment	Selected Repositories	Share
cicdjenkins-libs-release	Maven			2 cicdjenkins-libs-rel...	0
cicdjenkins-libs-snap...	Maven			2 cicdjenkins-libs-sn...	0
java-jenkins-libs-relea...	Maven			2 java-jenkins-libs-re...	0
java-jenkins-libs-snap...	Maven			2 java-jenkins-libs-s...	0

At the bottom, there's a search bar for Admin Resources and a 'Create a Repository' button. The status bar at the bottom right shows the date (12-12-2024), time (13:44), battery level (-2°C), and network connection.

Screenshot of the JFrog Platform Administration interface showing the 'Repositories' section.

The left sidebar includes links for Projects, Environments, Repositories (selected), User Management, Authentication, Security, General Management, Monitoring, Topology, Artifactory Settings, and Xray Settings.

The main content area shows a table of repositories:

Repository Key	Type	Project	Environment	Selected
cicdjenkins-libs-release	Maven			2 click
cicdjenkins-libs-snap...	Maven			2 click
java-jenkins-libs-relea...	Maven			2 java
java-jenkins-libs-snap...	Maven			2 java

A message box on the right provides repository setup options:

- Pre-Built Setup**: A recommended repository structure to host packages your team creates and proxy public and private registries.
- Virtual**: Access multiple repositories within a single URL.
- Local**: Upload and resolve your own packages.
- Remote**: Proxy and cache packages hosted remotely.
- Federated**: Mirror packages from different JFrog instances.

At the bottom, a search bar and system status icons are visible.

Screenshot of the JFrog Platform Administration interface showing the 'Create Repositories' dialog.

The left sidebar is identical to the previous screenshot.

The main content area displays a 'Create Repositories' dialog with a search bar and a grid of package types:

Alpine	An Ansible	Bower	Cargo	Chef	CocoaPods	Composer	Conan
Conda	CRAN	Debian	Docker	Gems	Generic	GitLfs	Go
Gradle	HELM	HELM Oci	HuggingFace ML	Ivy	Machine Learning	Npm	Npm
Node.js	OpenShift	OpenShift Oci	Python	ch	curl	helm	helm

The background shows a list of repositories with 'Set Up Client/CI Tool' buttons.

Screenshot of the JFrog Platform interface showing the 'Create Repositories' dialog.

The dialog title is 'Create Repositories' with the sub-instruction 'Assign a name to your new repositories by adding a meaningful prefix identifier'. A text input field contains 'boardgame'. Below the input field, there is a section titled 'Maven' with three options:

- Local Repository**: For Dev Environment: boardgame-libs-snapshot-local
- Remote Repository**: https://repo1.maven.org/... boardgame-maven-remote
- Virtual Repository**: For Dev Environment: boardgame-libs-snapshot

Below these options is a 'Create' button. The background shows the main JFrog Platform interface with a sidebar containing 'Repositories' under 'All Projects'.

Screenshot of the JFrog Platform interface showing the 'Repositories' list.

The top navigation bar includes 'All Projects', 'Application', and 'Administration' tabs. The 'Administration' tab is active. The sidebar shows 'Repositories' under 'All Projects'.

The main area displays a table of repositories:

Repository Key	Type	Project	Environment	Selected Repositories	Action
boardgame-libs-release	Maven			2 boardgame-libs-re	Set Up Client/Ci Tool
boardgame-libs-snapshot	Maven			2 boardgame-libs-sr	Set Up Client/Ci Tool
cicdjenkins-libs-release	Maven			2 cicdjenkins-libs-re	Set Up Client/Ci Tool
cicdjenkins-libs-snapshot	Maven			2 cicdjenkins-libs-sn	Set Up Client/Ci Tool

Below the table, it says 'Showing 1 - 4 from 6 items'.

Screenshot of the JFrog Platform Administration interface showing the User Management section.

The sidebar navigation includes:

- Projects
- Environments
- Repositories
- User Management
 - Users (selected)
 - Groups
 - Global Roles
 - Permissions
 - Access Tokens
- Authentication
- Security
- General Management

The main content area displays a table of users:

Name	Email	Realm	Groups	Admin	Status	Last Login
99kgurjeet...	99kgurje...	oauth	1 readers	✓		
anonymous		internal		✗		
demouser	demo@gmail.com	internal	1 readers	✓		
javajenkins	admin@admin.co...	internal	1 readers	✗		

Total Users: 5

System status bar at the bottom shows: -2°C, ENG, 13:44, 12-12-2024.

Screenshot of the JFrog Platform Administration interface showing the Edit User dialog for 'demouser'.

The sidebar navigation is identical to the previous screenshot.

The main content area shows the 'Edit user: demouser' form:

User Settings:

User Name	* Email Address
demouser	demo@gmail.com

Roles:

- Administer Platform
- Manage Resources
- Manage Policies
- Read Policies
- Manage Watches
- Manage Reports

Buttons: Cancel, Reset, Save.

System status bar at the bottom shows: -2°C, ENG, 13:45, 12-12-2024.

The screenshot shows the JFrog Platform Administration interface. The left sidebar is titled "JFrog Platform" and includes sections for Projects, Environments, Repositories, User Management (Users, Groups, Global Roles, Permissions, Access Tokens), Authentication, Security, and General Management. The main content area is titled "Edit user: demouser". It shows a form with fields for "Can Update Profile" (checked), "Disable UI Access" (unchecked), and "Disable Internal Password" (unchecked). Below this is a "Password" section with two fields: "* Password" containing "Gurjeet#99" and "* Retype Password" also containing "Gurjeet#99". A tooltip "Password Must Include:" lists requirements: At least 1 upper case letter, At least 1 lower case letter, At least 1 digits, At least 0 special character, and At least 8 characters long. At the bottom are "Cancel", "Reset", and "Save" buttons.

The screenshot shows the Jenkins Global credentials page. The URL is "Not secure 3.133.145.125:8080/manage/credentials/store/system/domain/_/". The top navigation bar includes links for Dashboard, Manage Jenkins, Credentials, System, and Global credentials (unrestricted). The main content is titled "Global credentials (unrestricted)" and displays a table of credentials:

ID	Name	Kind	Description
git-cred	Gurjeetkaur99***** (git-cred)	Username with password	git-cred
sonar	sonar	Secret text	sonar

At the bottom, there are icons for S, M, and L, and a "REST API" link.

New credentials

Kind: Username with password

Scope: Global (Jenkins, nodes, items, all child items, etc)

Username: demouser

Treat username as secret:

Password: (*****)

ID: jfrogaccess

Description: jfrogaccess

Create

Global credentials (unrestricted)

+ Add Credentials

ID	Name	Kind	Description
git-cred	Gurjeetkaur99***** (git-cred)	Username with password	git-cred
sonar	sonar	Secret text	sonar
jfrogaccess	demouser***** (jfrogaccess)	Username with password	jfrogaccess

Icon: S M L

REST API Jenkins 2.489

A screenshot of a Windows desktop environment. The main window is a code editor displaying a Jenkinsfile for a project named 'PROJECT-BOARDGAME'. The Jenkinsfile contains several stages: 'Git Checkout', 'Maven Compile', 'Maven Test', 'File System Scan by Trivy', and 'Sonar Analysis'. The code uses Groovy syntax for Jenkins pipelines. Below the code editor is a taskbar with icons for File Explorer, Task View, Start, Taskbar settings, and other system icons. The system tray shows the date as 12-12-2024 and the time as 13:50.

```
def registry = 'https://trial9ffhqp.jfrog.io/'  
pipeline {  
    agent any  
    tools {  
        maven 'maven3'  
    }  
    environment {  
        SCANNER_HOME = tool 'sonar-scanner'  
    }  
    stages {  
        stage('Git Checkout') {  
            steps {  
                git branch: 'prod', credentialsId: 'git-cred', url: 'https://github.com/Gurjeetkaur99/project-boardgame.git'  
            }  
        }  
        stage('Maven Compile') {  
            steps {  
                echo 'Maven Compile Started'  
                sh 'mvn compile'  
            }  
        }  
        stage('Maven Test') {  
            steps {  
                echo 'Maven Test Started'  
                sh 'mvn test'  
            }  
        }  
        stage('File System Scan by Trivy') {  
            steps {  
                echo 'Trivy Scan Started'  
                sh 'trivy fs --format table --output trivy-filescans-project-output.txt'  
            }  
        }  
        stage('Sonar Analysis') {  
            steps {  
                withSonarQubeEnv('sonar') {  
                    sh 'mvn sonar:sonar'  
                }  
            }  
        }  
    }  
}
```

A screenshot of a web browser displaying the JFrog Platform interface. The URL in the address bar is 'trial9ffhqp.jfrog.io/ui/admin/repositories/virtual/boardgame-libs-release/edit'. The page shows a 'Basic' tab for a Maven repository named 'boardgame-libs-release'. It includes fields for 'Repository Key' (set to 'boardgame-libs-release'), 'Environments' (a dropdown menu), 'General Settings' (repository layout set to 'maven-2-default'), and 'Include / Exclude Patterns' (an empty field). At the bottom right are 'Cancel' and 'Save' buttons. The left sidebar of the platform includes links for Projects, Environments, and Repositories (which is currently selected). The top navigation bar shows various tabs like 'All Projects', 'Application', and 'Administration'. The system tray at the bottom indicates the date as 12-12-2024 and the time as 13:50.

A screenshot of the Visual Studio Code interface. The title bar says "project-boardgame". The left sidebar shows a file tree with "PROJECT-BOARDGAME" expanded, containing "src", "2.png", "3.png", "Dockerfile", "globalsettings.png", "Jenkinsfile" (selected), "Jenkinsfile123", "mvnw", "mvnw.cmd", "pom.xml", "README.md", "settings.xml", "soft-install.sh", and "sonar-project.property". The main editor area displays a Jenkinsfile:

```
1 pipeline {
2     stages {
3         stage('Maven Test') {
4             steps {
5                 script {
6                     echo 'Maven package Started'
7                     sh 'mvn package'
8                 }
9             }
10        stage('Jar Publish') {
11            steps {
12                script {
13                    echo '<----- Jar Publish Started ----->'
14                    def server = Artifactory.newServer(url:'registry+/"artifactory"', credentialsId:'jfrogaccess')
15                    def properties = "buildId=${env.BUILD_ID},commitId=${GIT_COMMIT}"
16                    def uploadSpec = """
17                        "files": [
18                            {
19                                "pattern": "target/database_service_project.jar",
20                                "target": "boardgame-libs-release",
21                                "flat": "false",
22                                "props" : "${properties}",
23                                "exclusions": [ ".shai", ".md5" ]
24                            }
25                        ]
26                    """
27                    def buildInfo = server.upload(uploadSpec)
28                    buildInfo.env.collect()
29                    server.publishBuildInfo(buildInfo)
30                    echo '<----- Jar Publish Ended ----->'
31                }
32            }
33        }
34    }
35}
```

The bottom status bar shows "powershell" and "bash" tabs, along with other system information.

A screenshot of the Visual Studio Code interface, similar to the first one but with a different terminal output. The title bar says "project-boardgame". The left sidebar is identical. The main editor area shows the same Jenkinsfile content as above. The bottom status bar shows "powershell" and "bash" tabs, along with other system information. The terminal tab shows the following output:

```
[prod 0a54888] project upload
1 file changed, 26 insertions(+)

admin@DESKTOP-3AGNR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)

$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 771 bytes | 771.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
  0f1fde..0a54888 prod -> prod
```

The terminal tab also shows the path "admin@DESKTOP-3AGNR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)".

Screenshot of the Jenkins plugin manager interface showing the search results for 'artifactory'.

The search results table includes the following information:

Install	Name	Description	Released
<input checked="" type="checkbox"/>	Artifactory 4.0.5 pipeline	This plugin allows your build jobs to deploy artifacts and resolve dependencies to and from Artifactory, and then have them linked to the build job that created them. The plugin includes a vast collection of features, including a rich pipeline API library and release management for Maven and Gradle builds with Staging and Promotion.	5 mo 4 days ago
<input type="checkbox"/>	JFrog 1.5.6	The Jenkins JFrog Plugin allows for easy integration between Jenkins and the JFrog Platform. This integration allows your build jobs to deploy artifacts and resolve dependencies to and from Artifactory, and then have them linked to the build job that created them. It also allows you to scan your artifacts and builds with JFrog Xray and distribute your software package to remote locations using JFrog Distribution. This is all achieved by the plugin by wrapping JFrog CLI. Any JFrog CLI command can be executed from within your Jenkins Pipeline Job using the JFrog Plugin.	1 mo 25 days ago
<input type="checkbox"/>	lambdatest-automation 1.21.4	Artifactory auto generated POM	1 day 0 hr ago
<input type="checkbox"/>	Artifactory Client API 2.19.0-41v448b_67cd0_64a	This plugin provides the Artifactory Client (V2.19.0) for other plugins.	2 mo 10 days ago
<input type="checkbox"/>	Artifact Manager Artifactory 166vef3e640700b	A Jenkins plugin to keep artifacts and Pipeline stashes in JFrog Artifactory	1 mo 24 days ago
<input type="checkbox"/>	Jobcacher Artifactory Storage Extension 123web_e3c32b_3b_cb	Extension of jobcacher plugin that add JFrog artifactory for item storage.	1 mo 3 days ago

Screenshot of the Jenkins pipeline stage view for the 'boardgame-project' pipeline.

The Stage View table shows the execution times for various stages across different runs:

Stage	#11	#10	#9	#8
Average stage times:	(Average full run time: ~375)			
Declarative: Checkout SCM	494ms	445ms	622ms	4s
Declarative: Tool Install	494ms	445ms	622ms	14s
Git Checkout	477ms	144ms	654ms	1s
Maven Compile	3s	13s	1s	16s
Maven Test	14s	1s	1s	14s
File System Scan by Trivy	1s	16s	304ms (passed for 3s)	405ms
Sonar Analysis	16s	364ms (passed for 3s) failed	96ms failed	405ms
Quality Gate	304ms (passed for 3s)	364ms (passed for 3s) failed	6s	104ms failed
Maven Package	16s	66ms failed	120ms failed	83ms failed
Jar Publish	1s	83ms failed	93ms failed	441ms

Screenshot of JFrog Artifactory interface showing the 'boardgame-libs-release' repository.

Left Sidebar:

- Get Started
- Artifactory
 - Packages
 - Builds
 - Artifacts**
 - Release Lifecycle
- Xray
- Integrations
- MyJFrog Portal

Top Bar:

- Day 8/14 | Free Trial until Dec 18, 2024
- Select a Plan
- Request a Demo

Header:

- All Projects
- Application
- Administration

Search Bar:

- Search Artifacts
- Search icon
- File icon
- User icon
- Help icon
- Notifications (9)

Content Area:

Happily serving 2,295 artifacts

boardgame-libs-release

General Info:

- Name: boardgame-libs-release
- Package Type: Maven
- Repository Path: boardgame-libs-release/
- File URL: https://trial9tfhqj.frog.io/artifactory/boardgame-libs-release/
- Repository Layout: maven-2-default

Virtual Repository Associations:

Bottom Bar:

- Type here to search
- Icons for various applications (S&P, Mail, etc.)
- System tray icons (Windows logo, battery, signal, etc.)

Screenshot of JFrog Artifactory interface showing the file details for '11-1734030557912.json'.

Left Sidebar:

- Get Started
- Artifactory
 - Packages
 - Builds
 - Artifacts**
 - Release Lifecycle
- Xray
- Integrations
- MyJFrog Portal

Top Bar:

- Day 8/14 | Free Trial until Dec 18, 2024
- Select a Plan
- Request a Demo

Header:

- All Projects
- Application
- Administration

Search Bar:

- Search Artifacts
- Search icon
- File icon
- User icon
- Help icon
- Notifications (9)

Content Area:

Happily serving 2,295 artifacts

11-1734030557912.json

General Info:

- Name: 11-1734030557912.json
- Repository Path: artifactory-build-info/boardgame-project/11-1734030557912.json
- File URL: https://trial9tfhqj.frog.io/artifactory/artifactory-build-info/boardgame-project.../11-1734030557912.json
- Module ID: N/A
- Deployed By: demouser
- Size: 6.67 KB

Bottom Bar:

- Type here to search
- Icons for various applications (S&P, Mail, etc.)
- System tray icons (Windows logo, battery, signal, etc.)

Screenshot of a Jenkins pipeline status page for the "boardgame-project".

The page shows the following details:

- Status:** boardgame-project
- Stage View:** A timeline showing the execution times for various stages across five builds (#12, #11, #10, #9, #8).
 - Average stage times:** (Average full run time: ~41s)
 - Build #12 (Dec 12 14:17):** 1 commit, 495ms Declarative: Checkout SCM, 419ms Declarative: Tool Install, 619ms Git Checkout, 4s Maven Compile, 14s Maven Test, 1s File System Scan by Trivy, 14s Sonar Analysis, 410ms Quality Gate, 8s Maven Package, 549ms Jar Publish, 12s Build Docker Image and TAG.
 - Build #11 (Dec 12 14:08):** No Changes, 511ms Declarative: Checkout SCM, 477ms Declarative: Tool Install, 157ms Git Checkout, 3s Maven Compile, 13s Maven Test, 1s File System Scan by Trivy, 14s Sonar Analysis, 439ms Quality Gate (skipped for 1s), 15s Maven Package, 982ms Jar Publish, 12s Build Docker Image and TAG.
 - Build #10 (Dec 12 13:59):** No Changes, 364ms Declarative: Checkout SCM, 387ms Declarative: Tool Install, 144ms Git Checkout, 3s Maven Compile, 13s Maven Test, 1s File System Scan by Trivy, 16s Sonar Analysis, 304ms Quality Gate (skipped for 1s), 16s Maven Package, 1s Jar Publish.
 - Build #9 (Dec 12 13:57):** 1 commit, 429ms Declarative: Checkout SCM, 434ms Declarative: Tool Install, 106ms Git Checkout, 3s Maven Compile, 14s Maven Test, 1s File System Scan by Trivy, 16s Sonar Analysis, 617ms Quality Gate (skipped for 1s), 66ms Maven Package, 83ms Jar Publish.
 - Build #8 (Dec 12 13:57):** 1 commit, 504ms Declarative: Checkout SCM, 495ms Declarative: Tool Install, 148ms Git Checkout, 3s Maven Compile, 13s Maven Test, 1s File System Scan by Trivy, 14s Sonar Analysis, 617ms Quality Gate (skipped for 1s), 120ms Maven Package, 93ms Jar Publish.
- Builds:** A list of builds from today:
 - #12 7:17 PM
 - #11 7:08 PM
 - #10 7:01 PM
 - #9 6:59 PM
- System Status:** Shows system information like temperature (-2°C), battery level (~14%), and network connection.

```

root@ip-172-31-4-107:~#
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 21 seconds ago Up 20 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 25 seconds ago Up 24 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 27 seconds ago Up 26 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 28 seconds ago Up 27 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 29 seconds ago Up 28 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 30 seconds ago Up 29 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 31 seconds ago Up 30 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 32 seconds ago Up 31 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 38 seconds ago Up 37 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 40 seconds ago Up 39 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 41 seconds ago Up 40 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 43 seconds ago Up 42 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 44 seconds ago Up 43 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 50 seconds ago Up 49 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
b0cf6733a596 sonarqube:lts-community " /opt/sonarqube/dock..." 51 seconds ago Up 51 seconds 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp sonar
root@ip-172-31-4-107:~# sudo chmod 666 /var/run/docker.sock
root@ip-172-31-4-107:~#

```

Jenkins

Not secure 3.133.145.125:8080/job/boardgame-project/ admin log out

Dashboard > boardgame-project >

Status boardgame-project Add description

Changes Build Now

Configure Delete Pipeline Full Stage View SonarQube Stages Rename Pipeline Syntax GitHub Hook Log

Average stage times: (Average full run time: ~54s)

Stage View

	Declarative: Checkout SCM	Declarative: Tool Install	Git Checkout	Maven Compile	Maven Test	File System Scan by Trivy	Sonar Analysis	Quality Gate	Maven Package	Jar Publish	Build Docker Image and TAG	Docker Image Scan
#14 Dec 12 14:21 1 commit	481ms	134ms	612ms	3s	13s	1s	14s	419ms	9s	617ms	6s	35s
#12 Dec 12 14:17 1 commit	491ms	143ms	620ms	3s	13s	1s	14s	481ms (passed for 2s)	14s	955ms	1s	35s
#11 Dec 12 14:17 1 commit	511ms	157ms	598ms	3s	13s	1s	14s	439ms (passed for 2s)	15s	982ms	12s	
#10 Dec 12 14:08 No Changes	477ms	144ms	684ms	3s	13s	1s	16s	304ms (passed for 2s)	16s	1s		
#10 Dec 12 14:08 No Changes	387ms	106ms	507ms	3s	14s	1s	16s	364ms (passed for 2s) failed	96ms failed	104ms failed		
#10 Dec 12 13:59 No Changes	434ms	110ms	617ms	3s	13s	1s	14s	429ms (passed for 2s) failed	66ms failed	83ms failed		
Builds Filter Today #13 7:21 PM #12 7:17 PM #11 7:08 PM #10 7:01 PM	481ms	134ms	612ms	3s	13s	1s	14s	419ms	9s	617ms	6s	35s

Type here to search

14:23 12-12-2024 ENG

Uploaded image in DockerHub and pushed to ECR

Jenkins

Not secure 3.133.145.125:8080/job/boardgame-project/ admin log out

Dashboard > boardgame-project >

Status boardgame-project Add description

Changes Build Now

Configure Delete Pipeline Full Stage View SonarQube Stages Rename Pipeline Syntax GitHub Hook Log

Average stage times: (Average full run time: ~54s)

Stage View

	Declarative: Checkout SCM	Declarative: Tool Install	Git Checkout	Maven Compile	Maven Test	File System Scan by Trivy	Sonar Analysis	Quality Gate	Maven Package	Jar Publish	Build Docker Image and TAG	Docker Image Scan	Archive Report
#14 Dec 12 14:24 1 commit	489ms	130ms	605ms	3s	13s	1s	14s	418ms	9s	687ms	5s	18s	311ms
#11 Dec 12 14:21 1 commit	567ms	95ms	538ms	3s	13s	1s	14s	415ms (passed for 2s)	14s	1s	1s	805ms	311ms
#11 Dec 12 14:17 1 commit	491ms	143ms	620ms	3s	13s	1s	14s	481ms (passed for 2s)	14s	955ms	1s	35s	
#11 Dec 12 14:08 No Changes	511ms	157ms	598ms	3s	13s	1s	14s	439ms (passed for 2s)	15s	982ms	12s		
#11 Dec 12 14:08 No Changes	477ms	144ms	684ms	3s	13s	1s	16s	304ms (passed for 2s)	16s	1s			
#10 Dec 12 14:01 No Changes	387ms	106ms	507ms	3s	14s	1s	16s	364ms (passed for 2s) failed	96ms failed	104ms failed			
Builds Filter Today #14 7:24 PM #13 7:21 PM #12 7:17 PM #11 7:08 PM	489ms	130ms	605ms	3s	13s	1s	14s	418ms	9s	687ms	5s	18s	311ms

Type here to search

14:25 12-12-2024 ENG

The screenshot shows the AWS ECR Private registry Repositories page. On the left, there's a sidebar with navigation links for Amazon Elastic Container Registry, Private registry (Repositories, Features & Settings), Public registry (Repositories, Settings), ECR public gallery, Amazon ECS, and Amazon EKS. The main area displays a table titled "Private repositories (1)". The table has columns: Repository name, URI, Created at, Tag immutability, and Encryption type. One row is shown: "springboot" with URI "026090557197.dkr.ecr.us-east-2.amazonaws.com/springboot", created on "December 06, 2024, 18:29:44 (UTC-05)", tag immutability "Mutable", and encryption type "AES-256".

The screenshot shows the "Create private repository" page under the "General settings" tab. It includes fields for "Repository name" (set to "026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame") and "Image tag mutability" (set to "Mutable"). A note states: "Specify the tag mutability setting to use. When tag immutability is turned on for a repository, tags are prevented from being overwritten." Below this is an "Encryption settings" section with a warning: "The encryption settings for a repository can't be changed once the repository is created." At the bottom, there's an "Encryption configuration" link.

Screenshot of the AWS CloudShell interface showing the Amazon Elastic Container Registry (Amazon ECR) private registry. A successful repository creation message is displayed.

Private repositories (2)

Repository name	URI	Created at	Tag immutability	Encryption type
boardgame	026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame	December 12, 2024, 14:28:01 (UTC-05)	Mutable	AES-256
springboot	026090557197.dkr.ecr.us-east-2.amazonaws.com/springboot	December 06, 2024, 18:29:44 (UTC-05)	Mutable	AES-256

Images (0)

Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest
No images No images to display					

Screenshot of the AWS CloudShell interface showing the Amazon Elastic Container Registry (Amazon ECR) private registry. The 'Images' section is currently empty.

Images (0)

Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest
No images No images to display					

Push commands for boardgame

macOS / Linux | Windows

Make sure that you have the latest version of the AWS CLI and Docker installed. For more information, see [Getting Started with Amazon ECR](#).

Use the following steps to authenticate and push an image to your repository. For additional registry authentication methods, including the Amazon ECR credential helper, see [Registry Authentication](#).

1. Retrieve an authentication token and authenticate your Docker client to your registry. Use the AWS CLI:
 `aws ecr get-login-password --region us-east-2 | docker login --username AWS --password-stdin
026090557197.dkr.ecr.us-east-2.amazonaws.com`

Note: If you receive an error using the AWS CLI, make sure that you have the latest version of the AWS CLI and Docker installed.
2. Build your Docker image using the following command. For information on building a Docker file from scratch see the instructions [here](#). You can skip this step if your image is already built:
 `docker build -t boardgame .`
3. After the build completes, tag your image so you can push the image to this repository:
 `docker tag boardgame:latest 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest`

[Close](#)

Push commands for boardgame

macOS / Linux | Windows

Make sure that you have the latest version of the AWS CLI and Docker installed. For more information, see [Getting Started with Amazon ECR](#).

Use the following steps to authenticate and push an image to your repository. For additional registry authentication methods, including the Amazon ECR credential helper, see [Registry Authentication](#).

1. Retrieve an authentication token and authenticate your Docker client to your registry. Use the AWS CLI:
 `aws ecr get-login-password --region us-east-2 | docker login --username AWS --password-stdin
026090557197.dkr.ecr.us-east-2.amazonaws.com`

Note: If you receive an error using the AWS CLI, make sure that you have the latest version of the AWS CLI and Docker installed.
2. Build your Docker image using the following command. For information on building a Docker file from scratch see the instructions [here](#). You can skip this step if your image is already built:
 `docker build -t boardgame .`
3. After the build completes, tag your image so you can push the image to this repository:
 `docker tag boardgame:latest 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest`
4. Run the following command to push this image to your newly created AWS repository:
 `docker push 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest`

[Close](#)

A screenshot of the Visual Studio Code interface. The main area shows a Jenkinsfile with the following code:

```
2 pipeline {
  10   stages {
    22     stage('Maven Test') {
      48   }
    98     stage('Archive Report') {
      99   }
    100   stage('Push Docker Image To Docker Hub') {
      101     steps {
        102       script [
          103         // Build the Docker image using the renamed JAR file
          104         sh 'docker image tag boardgame:latest gurjeetkaur99/boardgame:latest'
          105         sh 'docker push gurjeetkaur99/boardgame:latest'
        106       ]
      107     }
    108   }
    109   stage('Push Docker Image To AWS ECR') {
      110     steps {
        111       // Build the Docker image using the renamed JAR file
        112       script [
          113         sh 'aws ecr get-login-password --region us-east-2 | docker login --username AWS --password-stdin 026090557197.dkr.ecr.us-east-2.amazonaws.com'
          114         sh 'docker tag boardgame:latest 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest'
          115         sh 'docker push 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest'
        116       ]
      117     }
    118   }
  119 }
  120 }
  121 }
```

The bottom status bar shows the file is 121 lines long, with 116 lines of code, 4 spaces per tab, UTF-8 encoding, and was last saved at 14:30 on 12-12-2024.

A screenshot of the Visual Studio Code interface, showing the same Jenkinsfile as above, but with some changes made to the Docker Hub section:

```
2 pipeline {
  10   stages {
    22     stage('Test') {
      48   }
    94     stage('Archive Report') {
      99   }
    100   stage('Push Docker Image To Docker Hub') {
      101     steps {
        102       script [
          103         // Build the Docker image using the renamed JAR file
          104         sh 'docker image tag boardgame:latest gurjeetkaur99/boardgame:latest'
          105         sh 'docker push gurjeetkaur99/boardgame:latest'
        106       ]
      107     }
    108   }
    109   stage('Push Docker Image To AWS ECR') {
      110     steps {
        111       // Build the Docker image using the renamed JAR file
        112       script [
          113         sh 'aws ecr get-login-password --region us-east-2 | docker login --username AWS --password-stdin 026090557197.dkr.ecr.us-east-2.amazonaws.com'
          114         sh 'docker tag boardgame:latest 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest'
          115         sh 'docker push 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest'
        116       ]
      117     }
    118   }
  119 }
  120 }
  121 }
```

The bottom status bar shows the file is 121 lines long, with 116 lines of code, 4 spaces per tab, UTF-8 encoding, and was last saved at 14:30 on 12-12-2024.

```

File Edit Selection View Go Run ... ← → ⌘ project-boardgame
EXPLORER Jenkinsfile
PROJECT-BOARDGAME
> src
  2.png
  3.png
  Jenkinsfile
  Jenkinsfile123
  maven
  maven.cmd
  pom.xml
  README.md
  settings.xml
  soft-install.sh
  sonar-project.properties
Jenkinsfile
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
  stages {
    stage('Maven Test') {
      steps {
        script {
          // Build the Docker image using the renamed JAR file
          sh 'mvn clean package'
          sh 'docker image tag boardgame:latest gurjeetkaur99/boardgame:latest'
          sh 'docker push gurjeetkaur99/boardgame:latest'
        }
      }
    }
    stage('Archive Report') {
      steps {
        script {
          // Build the Docker image using the renamed JAR file
          sh 'mvn clean package'
          sh 'docker image tag boardgame:latest 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest'
          sh 'docker push 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest'
        }
      }
    }
  }
}
stage('Push Docker Image To Docker Hub') {
  steps {
    script {
      // Build the Docker image using the renamed JAR file
      sh 'mvn clean package'
      sh 'docker image tag boardgame:latest gurjeetkaur99/boardgame:latest'
      sh 'docker push gurjeetkaur99/boardgame:latest'
    }
  }
}
stage('Push Docker Image To AWS ECR') {
  steps {
    script {
      // Build the Docker image using the renamed JAR file
      sh 'mvn clean package'
      sh 'aws ecr get-login-password --region us-east-2 | docker login --username AMS --password-stdin 026090557197.dkr.ecr.us-east-2.amazonaws.com'
      sh 'docker tag boardgame:latest 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest'
      sh 'docker push 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest'
    }
  }
}

```

TERMINAL

```

admin@DESKTOP-3A9UR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 588 bytes | 588.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
   f060727..89e4b6 prod -> prod

```

OUTLINE TIMELINE

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Type here to search

aws cli download

All Videos Images Shopping Web News Books More Tools

[Amazon AWS Documentation](https://docs.aws.amazon.com/cli/latest/userguide/installing.html)

[Installing or updating to the latest version of the AWS CLI](https://awscli.amazonaws.com/)

Install or update the AWS CLI · Unzip the installer. If your Linux distribution doesn't have a built-in unzip command, use an equivalent to unzip it. · Run the ...

Linux

Download using the curl command. ... Download using the direct ...

Past releases

Installation instructions · Download and install the gpg command ...

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AWS CLI - Command Line Interface

With just one tool to download and configure, you can control multiple AWS services from the command line and automate them through scripts. The AWS CLI v2 ...

[Install/Update](#) · [AWS](#) · [What is the AWS Command...](#) · [New Features](#)

Screenshot of a web browser showing the AWS Command Line Interface User Guide. The page displays instructions for installing the AWS CLI, including a command-line example and a note about updating the current installation.

AWS Command Line Interface

(Optional) The following command block downloads and installs the AWS CLI without first verifying the integrity of your download. To verify the integrity of your download, use the below step by step instructions.

To install the AWS CLI, run the following commands.

```
$ curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip"
unzip awscliv2.zip
sudo ./aws/install
```

To update your current installation of the AWS CLI, add your existing symlink and installer information to construct the `install` command using the `--bin-dir`, `--install-dir`, and `--update` parameters. The following command block uses an example symlink of `/usr/local/bin` and example installer location of `/usr/local/aws-cli` to install the AWS CLI locally for the current user.

```
$ curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip"
unzip awscliv2.zip
```

Screenshot of a Windows terminal window showing the AWS CLI installation process. The terminal output includes Docker ps output, password entry, and the execution of the AWS CLI installation command.

```
ubuntu@ip-172-31-4-107:~
$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
b0cf6733a596        sonarqube:its-community   "/opt/sonarqube/dock..."   32 seconds ago    Up 31 seconds      0.0.0.0:9000->9000/tcp, :::9000->9000/tcp   sonar
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
b0cf6733a596        sonarqube:its-community   "/opt/sonarqube/dock..."   38 seconds ago    Up 37 seconds      0.0.0.0:9000->9000/tcp, :::9000->9000/tcp   sonar
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
b0cf6733a596        sonarqube:its-community   "/opt/sonarqube/dock..."   40 seconds ago   Up 39 seconds      0.0.0.0:9000->9000/tcp, :::9000->9000/tcp   sonar
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
b0cf6733a596        sonarqube:its-community   "/opt/sonarqube/dock..."   41 seconds ago   Up 40 seconds      0.0.0.0:9000->9000/tcp, :::9000->9000/tcp   sonar
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
b0cf6733a596        sonarqube:its-community   "/opt/sonarqube/dock..."   43 seconds ago   Up 42 seconds      0.0.0.0:9000->9000/tcp, :::9000->9000/tcp   sonar
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
b0cf6733a596        sonarqube:its-community   "/opt/sonarqube/dock..."   44 seconds ago   Up 43 seconds      0.0.0.0:9000->9000/tcp, :::9000->9000/tcp   sonar
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
b0cf6733a596        sonarqube:its-community   "/opt/sonarqube/dock..."   50 seconds ago   Up 49 seconds      0.0.0.0:9000->9000/tcp, :::9000->9000/tcp   sonar
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
b0cf6733a596        sonarqube:its-community   "/opt/sonarqube/dock..."   51 seconds ago   Up 51 seconds      0.0.0.0:9000->9000/tcp, :::9000->9000/tcp   sonar
root@ip-172-31-4-107:~# docker login -u gurjeetkaur99
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credential-stores
Login succeeded
root@ip-172-31-4-107:~# exit
exit
ubuntu@ip-172-31-4-107:~$ sudo chmod 666 /var/run/docker.sock
ubuntu@ip-172-31-4-107:~$ docker login -u gurjeetkaur99
Password:
WARNING! Your password will be stored unencrypted in /home/ubuntu/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credential-stores
Login succeeded
ubuntu@ip-172-31-4-107:~$ curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
unzip awscliv2.zip
sudo ./aws/install
% Total    % Received % Xferd  Average Speed   Time   Time     Time Current
          Dload  Upload Total   Spent   Spent    Left Speed
 3 64.2M  3 2576k  0    0 1668k  0:00:39  0:00:01  0:00:38 1668k[
```

```
ubuntu@ip-172-31-4-107:~  
% Total    % Received % Xferd  Average Speed   Time   Time     Time  Current  
          Dload  Upload Total Spent   Left Speed  
100 64.2M  100 64.2M    0      0  1784k      0:00:36  0:00:36  --:--:-- 1736k  
Command 'unzip' not found, but can be installed with:  
sudo apt install unzip  
sudo: ./aws/install: command not found  
ubuntu@ip-172-31-4-107:~$ sudo apt install unzip  
install: missing destination file operand after 'unzip'  
try 'install -help' for more information.  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Suggested packages:  
  zip  
The following NEW packages will be installed:  
  unzip  
0 upgraded, 1 newly installed, 0 to remove and 35 not upgraded.  
Need to get 175 kB of archives.  
After this operation, 386 kB of additional disk space will be used.  
Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 unzip amd64 6.0-26ubuntu3.2 [175 kB]  
Fetched 175 kB in 0s (8117 kB/s)  
Selecting previously unselected package unzip.  
(Reading database ... 67211 files and directories currently installed.)  
Preparing to unpack .../unzip_6.0-26ubuntu3.2_amd64.deb ...  
Unpacking unzip (6.0-26ubuntu3.2) ...  
Setting up unzip (6.0-26ubuntu3.2) ...  
Processing triggers for man-db (2.10.2-1) ...  
Scanning processes...  
scanning linux images...  
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.  
ubuntu@ip-172-31-4-107:~$ curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"  
unzip awscliv2.zip  
sudo ./aws/install  
% Total    % Received % Xferd  Average Speed   Time   Time     Time  Current  
          Dload  Upload Total Spent   Left Speed  
  6 64.2M  6 4576k    0      0 1690k      0:00:38  0:00:02  0:00:36 1689k
```

```
ubuntu@ip-172-31-4-107:~  
inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/pretty.css  
inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/_base_.css  
inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/pretty.css  
inflating: aws/dist/docutils/writers/pep_html/pep.css  
inflating: aws/dist/docutils/writers/pep_html/template.txt  
inflating: aws/dist/docutils/writers/html4css1/template.txt  
inflating: aws/dist/docutils/writers/html4css1/html4css1.css  
inflating: aws/dist/docutils/writers/odf_odt/styles.odt  
creating: aws/dist/docutils/parsers/rst/  
creating: aws/dist/docutils/parsers/rst/include/  
inflating: aws/dist/docutils/parsers/rst/include/isogrk1.txt  
inflating: aws/dist/docutils/parsers/rst/include/isodia.txt  
inflating: aws/dist/docutils/parsers/rst/include/isotech.txt  
inflating: aws/dist/docutils/parsers/rst/include/mlextra-wide.txt  
inflating: aws/dist/docutils/parsers/rst/include/isogr4.txt  
inflating: aws/dist/docutils/parsers/rst/include/isolat1.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsctxt  
inflating: aws/dist/docutils/parsers/rst/include/isoampr-wide.txt  
inflating: aws/dist/docutils/parsers/rst/include/isolat2.txt  
inflating: aws/dist/docutils/parsers/rst/include/xhtml1-lat1.txt  
inflating: aws/dist/docutils/parsers/rst/include/s5defs.txt  
inflating: aws/dist/docutils/parsers/rst/include/isogr2.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsr.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsr-cr.txt  
inflating: aws/dist/docutils/parsers/rst/include/mlextra.txt  
inflating: aws/dist/docutils/parsers/rst/include/isomfrk-wide.txt  
inflating: aws/dist/docutils/parsers/rst/include/isomfrk.txt  
inflating: aws/dist/docutils/parsers/rst/include/xhtml1-symbol.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsn.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsr-wide.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsn-cr.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoampr.txt  
inflating: aws/dist/docutils/parsers/rst/include/xhtml1-special.txt  
inflating: aws/dist/docutils/parsers/rst/include/README.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsn-cr.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoampr-wide.txt  
inflating: aws/dist/docutils/parsers/rst/include/isocv1.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsa.txt  
inflating: aws/dist/docutils/parsers/rst/include/isoamsb.txt  
inflating: aws/dist/docutils/parsers/rst/include/sobox.txt  
inflating: aws/dist/docutils/parsers/rst/include/isocv2.txt  
inflating: aws/dist/docutils/parsers/rst/include/m1alias.txt  
inflating: aws/dist/docutils/parsers/rst/include/isogr3.txt  
inflating: aws/dist/docutils/parsers/rst/include/isopub.txt  
You can now run: /usr/local/bin/aws --version  
ubuntu@ip-172-31-4-107:~|
```

The screenshot shows a Windows desktop environment. In the center is a GitHub commit history for a project named 'PROJECT-BOARDGAME'. The commit details are as follows:

```

$ git add .
admin@DESKTOP-3A6NR56 MIN/M64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git commit -m "ecr upload"
[prod a58e1d4] ecr upload
 1 file changed, 1 insertion(+), 1 deletion(-)

admin@DESKTOP-3A6NR56 MIN/M64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)

```

Below the commit history is a Jenkinsfile snippet:

```

Jenkinsfile
2
10
22 'test') {
48
94     live Report') {
100     Docker Image To Docker Hub') {
101     [
102     'ipt [
103         // Build the Docker image using the renamed JAR file
104         sh 'docker image tag boardgame:latest gurjeetkaur99/boardgame:latest'
105         sh 'docker push gurjeetkaur99/boardgame:latest'
106
107     ]
108     Docker Image To AWS ECR') {
109     [
110         [
111             // Build the Docker image using the renamed JAR file
112             script {
113                 sh 'aws ecr get-login-password --region us-east-2 | docker login --username AWS --password-stdin 026090557197.dkr.ecr.us-east-2.amazonaws.com'
114                 sh 'docker tag boardgame:latest 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest'
115                 sh 'docker push 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest'
116             }
117         ]
118     }
119 }

```

At the bottom of the Jenkinsfile, there is a terminal output showing the command \$ git push.

The screenshot shows a Windows desktop environment. At the top, a browser window displays the Jenkins dashboard for a project named 'boardgame-project'. The dashboard includes a Stage View grid showing build times for various stages. Below the browser is a task manager window showing several running processes.

Stage	Average stage time (ms)
Declarative: Checkout SCM	496ms
Declarative: Tool Install	137ms
Git Checkout	615ms
Maven Compile	3s
Maven Test	13s
File System Scan by Trivy	1s
Sonar Analysis	14s
Quality Gate	394ms
Maven Package	11s
Jar Publish	838ms
Build Docker Image and TAG	2s
Docker Image Scan	6s
Archive Report	314ms
Push Docker Image To Docker Hub	2s
Push Docker Image To AWS ECR	5s

At the bottom of the screen is a taskbar with various pinned icons, including File Explorer, File History, Mail, Photos, OneDrive, Task View, Edge, Google Chrome, File Explorer, Word, Excel, Powerpoint, and Jenkins.

Screenshot of the AWS ECR console showing the 'Images' page for the 'boardgame' repository.

The left sidebar shows the navigation path: Amazon Elastic Container Registry > Private registry > Repositories > boardgame.

The main area displays a table titled 'Images (1)' with the following data:

Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest
latest	Image	December 12, 2024, 14:45:23 (UTC-05)	284.04	Copy URI	sha256:405c27a160cd6cda9e5690340ffed81ecd992ba354d21ee546b253f0...

Below the table are 'View push commands' and 'Scan' buttons.

The bottom status bar shows the date and time: 12-12-2024 14:45.

Screenshot of the AWS ECR console showing the 'Image' details page for the latest tag of the 'boardgame' repository.

The left sidebar shows the navigation path: Amazon Elastic Container Registry > Private registry > Repositories > boardgame > sha256:405c27a160cd6cda9e5690340ffed81ecd992ba354d21ee546b253f0...

The main area displays the 'Image' details:

Details

- Image tags: latest
- URI: 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest
- Digest: [sha256:405c27a160cd6cda9e5690340ffed81ecd992ba354d21ee546b253f09fd8afea](#)

General information

Artifact type	Repository	Pushed at
Image	boardgame	December 12, 2024, 14:45:23 (UTC-05)

Size (MB): 284.04

The bottom status bar shows the date and time: 12-12-2024 14:45.

Added stage in Jenkins pipeline for Kubernetes deployment

Dashboard > Manage Jenkins > Plugins

Plugins

Search: kubernetes cli

Install Name Released

Install	Name	Released
<input checked="" type="checkbox"/>	Kubernetes CLI 1.12.1	1 yr 3 mo ago
<input type="checkbox"/>	kubernetes	Configure kubectl for Kubernetes
<input type="checkbox"/>	Kubernetes Client API 6.10.0-240.v57880ce8b_0b_2	10 mo ago
<input type="checkbox"/>	kubernetes	Library plugins (for use by other plugins)

REST API Jenkins 2.489

```
root@ip-172-31-4-107:~  
infating: aws/dist/docutills/writers/odf_odt/styles.odt  
creating: aws/dist/docutills/parsers/rst/  
creating: aws/dist/docutills/parsers/rst/include/  
infating: aws/dist/docutills/parsers/rst/include/isogrkl.txt  
infating: aws/dist/docutills/parsers/rst/include/sodfa.txt  
infating: aws/dist/docutills/parsers/rst/include/isotech.txt  
infating: aws/dist/docutills/parsers/rst/include/mmextra-wide.txt  
infating: aws/dist/docutills/parsers/rst/include/isogr4.txt  
infating: aws/dist/docutills/parsers/rst/include/isolati.txt  
infating: aws/dist/docutills/parsers/rst/include/isoamsc.txt  
infating: aws/dist/docutills/parsers/rst/include/isomopf-wide.txt  
infating: aws/dist/docutills/parsers/rst/include/isolat2.txt  
infating: aws/dist/docutills/parsers/rst/include/xhtml1-lati.txt  
infating: aws/dist/docutills/parsers/rst/include/s5defs.txt  
infating: aws/dist/docutills/parsers/rst/include/isogr2.txt  
infating: aws/dist/docutills/parsers/rst/include/isoamr.txt  
infating: aws/dist/docutills/parsers/rst/include/isomscr.txt  
infating: aws/dist/docutills/parsers/rst/include/mmextra-wide.txt  
infating: aws/dist/docutills/parsers/rst/include/isomrk.txt  
infating: aws/dist/docutills/parsers/rst/include/xhtml1-symbol.txt  
infating: aws/dist/docutills/parsers/rst/include/isoamsn.txt  
infating: aws/dist/docutills/parsers/rst/include/isomscr-wide.txt  
infating: aws/dist/docutills/parsers/rst/include/isoamso.txt  
infating: aws/dist/docutills/parsers/rst/include/isomopf.txt  
infating: aws/dist/docutills/parsers/rst/include/xhtml1-special.txt  
infating: aws/dist/docutills/parsers/rst/include/README.txt  
infating: aws/dist/docutills/parsers/rst/include/isonum.txt  
infating: aws/dist/docutills/parsers/rst/include/isogr4-wide.txt  
infating: aws/dist/docutills/parsers/rst/include/isocyr1.txt  
infating: aws/dist/docutills/parsers/rst/include/isoamsa.txt  
infating: aws/dist/docutills/parsers/rst/include/isoamsb.txt  
infating: aws/dist/docutills/parsers/rst/include/isobox.txt  
infating: aws/dist/docutills/parsers/rst/include/isocyr2.txt  
infating: aws/dist/docutills/parsers/rst/include/mmalias.txt  
infating: aws/dist/docutills/parsers/rst/include/isogr3.txt  
infating: aws/dist/docutills/parsers/rst/include/isopub.txt  
you can now run: /usr/local/bin/awsv --version  
ubuntu@ip-172-31-4-107:~$ sudo su  
root@ip-172-31-4-107:/home/ubuntu# cd  
root@ip-172-31-4-107:# su - Jenkins  
jenkins@ip-172-31-4-107:$ curl --silent --location "https://github.com/weaveworks/eksctl/releases/latest/download/eksctl_$(uname -s)_amd64.tar.gz" | tar xz -C /tmp  
sudo mv /tmp/eksctl /usr/local/bin  
eksctl version  
0.198.0  
jenkins@ip-172-31-4-107:~$ |
```

```
root@ip-172-31-4-107:~  
infating: aws/dist/docutils/parsers/rst/include/isolat2.txt  
infating: aws/dist/docutils/parsers/rst/include/xhtml1-lat1.txt  
infating: aws/dist/docutils/parsers/rst/include/sdefns.txt  
infating: aws/dist/docutils/parsers/rst/include/isoqr2.txt  
infating: aws/dist/docutils/parsers/rst/include/isoansr.txt  
infating: aws/dist/docutils/parsers/rst/include/isoanscr.txt  
infating: aws/dist/docutils/parsers/rst/include/isoextra.txt  
infating: aws/dist/docutils/parsers/rst/include/isoqrk-wide.txt  
infating: aws/dist/docutils/parsers/rst/include/isoqrk.txt  
infating: aws/dist/docutils/parsers/rst/include/isoansn.txt  
infating: aws/dist/docutils/parsers/rst/include/isoansr-wide.txt  
infating: aws/dist/docutils/parsers/rst/include/isoanso.txt  
infating: aws/dist/docutils/parsers/rst/include/isoanso-wide.txt  
infating: aws/dist/docutils/parsers/rst/include/isoansp.txt  
infating: aws/dist/docutils/parsers/rst/include/xhtml1-special.txt  
infating: aws/dist/docutils/parsers/rst/include/README.txt  
infating: aws/dist/docutils/parsers/rst/include/isonum.txt  
infating: aws/dist/docutils/parsers/rst/include/isoqr4-wide.txt  
infating: aws/dist/docutils/parsers/rst/include/isoqr1.txt  
infating: aws/dist/docutils/parsers/rst/include/isoansa.txt  
infating: aws/dist/docutils/parsers/rst/include/isoansb.txt  
infating: aws/dist/docutils/parsers/rst/include/isofox.txt  
infating: aws/dist/docutils/parsers/rst/include/isoqr2.txt  
infating: aws/dist/docutils/parsers/rst/include/imalias.txt  
infating: aws/dist/docutils/parsers/rst/include/isoqr3.txt  
infating: aws/dist/docutils/parsers/rst/include/isoopub.txt  
You can now run: /usr/local/bin/aws --version  
ubuntu@ip-172-31-4-107:~$ sudo su  
root@ip-172-31-4-107:~# su jenkins  
jenkins@ip-172-31-4-107:~$ curl -s silent --location "https://github.com/weaveworks/eksctl/releases/latest/download/eksctl_$(uname -s)_amd64.tar.gz" | tar xz -c /tmp  
sudo mv /tmp/eksctl /usr/local/bin  
eksctl version  
0.198.0  
jenkins@ip-172-31-4-107:~$ sudo apt update  
sudo apt install curl -y  
sudo curl -Lo "https://dl.k8s.io/release/v1.28.4/bin/linux/amd64/kubectl"  
sudo chmod +x kubectl  
sudo mv kubectl /usr/local/bin/  
kubectl version --client  
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease  
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]  
Hit:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease  
Hit:4 https://aquasecurity.github.io/trivy-repo/deb generic InRelease  
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]  
ign:6 https://pkg.jenkins.io/debian binary/ InRelease  
ign:6 https://pkg.jenkins.io/debian binary/ InRelease
```

```
root@ip-172-31-4-107:~  
curl set to manually installed.  
0 upgraded, 0 newly installed, 0 to remove and 25 not upgraded.  
% total    % Received  % Xferd  Average Speed   Time   Time Current  
          Dload  Upload Total   Spent   Left Speed  
100 138 100 138 0  0 1312 0 ---:---:---:---:---:--- 1314  
100 47.5M 100 47.5M 0  0 3112k 0 0:00:15 0:00:15 ---:--- 3161k  
Client Version: v1.28.4  
Kustomize Version: v5.0.4-0.20230601165947-6ce0bf390ce3  
jenkins@ip-172-31-4-107:~$ eksctl create cluster \  
--name eks17 \  
--region us-east-2 \  
--version 1.31 \  
--nodegroup-name my-nodes \  
--node-type t2.medium \  
--managed --nodes 2 --nodes-min 1 --nodes-max 2 \  
--ssh-access  
--ssh-public-key newone \  
--max-pods-per-node 110  
2024-12-12 19:49:22 [::] eksctl version 0.198.0  
2024-12-12 19:49:22 [::] using region us-east-2  
2024-12-12 19:49:22 [::] setting availability zones to [us-east-2b us-east-2a us-east-2c]  
2024-12-12 19:49:22 [::] subnets for us-east-2b - public:192.168.0.0/19 private:192.168.96.0/19  
2024-12-12 19:49:22 [::] subnets for us-east-2a - public:192.168.32.0/19 private:192.168.128.0/19  
2024-12-12 19:49:22 [::] subnets for us-east-2c - public:192.168.64.0/19 private:192.168.160.0/19  
2024-12-12 19:49:22 [::] nodegroup "my-nodes" will use "" [AmazonLinux2/1.31]  
2024-12-12 19:49:22 [::] using EC2 key pair "newone"  
2024-12-12 19:49:22 [::] using Kubernetes version 1.31  
2024-12-12 19:49:22 [::] creating EKS cluster "eks17" in "us-east-2" region with managed nodes  
2024-12-12 19:49:22 [::] will create 2 separate CloudFormation stacks for cluster itself and the initial managed nodegroup  
2024-12-12 19:49:22 [::] if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=us-east-2 --cluster=eks17'  
2024-12-12 19:49:22 [::] Kubernetes API endpoint access will use default of {publicAccess=true, privateAccess=false} for cluster "eks17" in "us-east-2"  
2024-12-12 19:49:22 [::] Cloudwatch logging will not be enabled for cluster "eks17" in "us-east-2"  
2024-12-12 19:49:22 [::] you can enable it with 'eksctl utils update-cluster-logging --enable-types={SPECIFY-YOUR-LOG-TYPES-HERE (e.g. all)} --region=us-east-2 --cluster=eks17'  
2024-12-12 19:49:22 [::] default addons vpc-cni, kube-proxy, coredns were not specified, will install them as EKS addons  
2024-12-12 19:49:22 [::] 2 sequential tasks: { create cluster control plane "eks17",  
  2 sequential sub-tasks: {  
    1 task: { create addons },  
    wait for control plane to become ready,  
  },  
  create managed nodegroup "my-nodes",  
}  
2024-12-12 19:49:22 [::] building cluster stack "eksctl-eks17-cluster"
```

Amazon Elastic Container Registry

Image

Details

Image tags
latest

URI
026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest

General information

Artifact type
Image

Repository
boardgame

Pushed at
December 12, 2024, 14:45:23 (UTC-05)

Size (MB)
284.04

CloudShell Feedback

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14:51 12-12-2024

File Edit Selection View Go Run ...

EXPLORER PROJECT-BOARDGAME

Jenkinsfile deployment-service.yaml pom.xml

```
! deployment-service.yaml
1 apiVersion: apps/v1
2 kind: Deployment
3 metadata:
4   labels:
5     app: boardgame-app
6     name: boardgame-app
7   spec:
8     replicas: 5
9     selector:
10       matchLabels:
11         app: boardgame-app
12     template:
13       metadata:
14         labels:
15           app: boardgame-app
16       spec:
17         containers:
18           - name: my-boardgame-app
19             image: 026090557197.dkr.ecr.us-east-2.amazonaws.com/boardgame:latest
20             imagePullPolicy: Always
21           ports:
22             - containerPort: 8080
23               name: http
24               protocol: TCP
25         # service type loadbalancer
26 ...
27   apiVersion: v1
28   kind: Service
29   metadata:
30     labels:
31       app: boardgame-app
32       k8s-app: boardgame-app
33       name: boardgame-app
34     spec:
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

adm@DESKTOP-3A6NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)

powershell bash

LN 37, Col 13 Spaces: 2 UTF-8 CRLF YAML

16:00 12-12-2024

```

File Edit Selection View Go Run ... ← → project-boardgame
EXPLORER PROJECT-BOARDGAME ...
src
2.png
3.png
deployment-service.yaml
Dockerfile
globalsettings.png
Jenkinsfile
Jenkinsfile123
mmw
mmw.cmd
pom.xml
README.md
settings.xml
soft-install.sh
sonar-project.properties

deployment-service.yaml
7 spec:
12   template:
16     spec:
18       - name: my-boardgame-app
21         ports:
22           - containerPort: 8080
23             name: http
24             protocol: TCP
25           # service type loadbalancer
26   ...
27     apiVersion: v1
28     kind: Service
29     metadata:
30       labels:
31         app: boardgame-app
32         k8s-app: boardgame-app
33         name: boardgame-app
34     spec:
35       ports:
36         - name: http
37           port: 80
38           protocol: TCP
39           targetPort: 8080
40         type: LoadBalancer
41       selector:
42         app: boardgame-app

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
admin@DESKTOP-34GNR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ [ ]
Ln 37, Col 13 Spaces: 2 UTF-8 CRLF YAML
+ ... ^ x PowerShell bash
-2°C ENG 16:00 12-12-2024

```

```

root@ip-172-31-4-107: ~
  },
    create managed nodegroup "my-nodes",
}
2024-12-12 19:49:22 [ ] building cluster stack "eksctl-eks17-cluster"
2024-12-12 19:49:22 [ ] deploying stack "eksctl-eks17-cluster"
2024-12-12 19:49:52 [ ] waiting for CloudFormation stack "eksctl-eks17-cluster"
2024-12-12 19:50:23 [ ] waiting for CloudFormation stack "eksctl-eks17-cluster"
2024-12-12 19:51:23 [ ] waiting for CloudFormation stack "eksctl-eks17-cluster"
2024-12-12 19:52:23 [ ] waiting for CloudFormation stack "eksctl-eks17-cluster"
2024-12-12 19:53:23 [ ] waiting for CloudFormation stack "eksctl-eks17-cluster"
2024-12-12 19:54:23 [ ] waiting for CloudFormation stack "eksctl-eks17-cluster"
2024-12-12 19:55:23 [ ] waiting for CloudFormation stack "eksctl-eks17-cluster"
2024-12-12 19:56:23 [ ] waiting for CloudFormation stack "eksctl-eks17-cluster"
2024-12-12 19:57:23 [ ] waiting for CloudFormation stack "eksctl-eks17-cluster"
2024-12-12 19:58:23 [ ] waiting for CloudFormation stack "eksctl-eks17-cluster"
2024-12-12 19:58:24 [!] recommended policies were found for "vpc-cni" addon, but since OIDC is disabled on the cluster, eksctl cannot configure the requested permission(s). The recommended way to provide IAM permissions for "vpc-cni" addon is via pod identity associations; after addon creation is completed, add all recommended policies to the "eksctl-vpc-cni" role via pod identity associations, and run `eksctl update addon`
2024-12-12 19:58:24 [ ] creating addon
2024-12-12 19:58:24 [ ] successfully created addon
2024-12-12 19:58:24 [ ] creating addon
2024-12-12 19:58:24 [ ] successfully created addon
2024-12-12 19:58:25 [ ] creating addon
2024-12-12 19:58:25 [ ] successfully created addon
2024-12-12 20:00:25 [ ] building managed nodegroup stack "eksctl-eks17-nodegroup-my-nodes"
2024-12-12 20:00:25 [ ] deploying stack "eksctl-eks17-nodegroup-my-nodes"
2024-12-12 20:00:50 [ ] waiting for CloudFormation stack "eksctl-eks17-nodegroup-my-nodes"
2024-12-12 20:01:30 [ ] waiting for CloudFormation stack "eksctl-eks17-nodegroup-my-nodes"
2024-12-12 20:02:30 [ ] waiting for CloudFormation stack "eksctl-eks17-nodegroup-my-nodes"
2024-12-12 20:02:30 [ ] waiting for the control plane to become ready
2024-12-12 20:02:30 [✓] saved kubeconfig as "/var/lib/jenkins/.kube/config"
2024-12-12 20:02:36 [ ] no tasks
2024-12-12 20:02:36 [✓] all EKS cluster resources for "eks17" have been created
2024-12-12 20:02:36 [ ] node "ip-192-168-44-20.us-east-2.compute.internal" is ready
2024-12-12 20:02:36 [ ] node "ip-192-168-66-164.us-east-2.compute.internal" is ready
2024-12-12 20:02:36 [ ] waiting for at least 1 node(s) to become ready in "my-nodes"
2024-12-12 20:02:36 [ ] nodegroup "my-nodes" has 2 node(s)
2024-12-12 20:02:36 [ ] node "ip-192-168-44-20.us-east-2.compute.internal" is ready
2024-12-12 20:02:36 [ ] node "ip-192-168-66-164.us-east-2.compute.internal" is ready
2024-12-12 20:02:36 [✓] created 1 managed nodegroup(s) in cluster "eks17"
2024-12-12 20:02:36 [ ] kubectl command should work with "[var/lib/jenkins/.kube/config]", try 'kubectl get nodes'
2024-12-12 20:02:36 [✓] EKS cluster "eks17" in "us-east-2" region is ready
jenkins@ip-172-31-4-107:~$
```

```
root@ip-172-31-4-107:~  
2024-12-12 20:02:36 [v] kubectl command should work with "/var/lib/jenkins/.kube/config", try "kubectl get nodes"  
jenkins@ip-172-31-4-107:~$ cd .kube/  
jenkins@ip-172-31-4-107:~$ .kube$ cat config  
apiVersion: v1  
clusters:  
- cluster:  
  certificate-authority-data: LS0tLS1CRUdJTiBDRVJUSUJZ00FURS0tLS0tK1J3URCVENQ0uYz0F3SUJ8Z0lYyWpUEV8QmdhuG93RFZSktvWk1odmNQQVFFTE3RQxdGVEVUTUJFR0ExVUUKQxhNs2EzVm1aWEp1hSp  
WEp1hSpb0NQWgdzb5TkrFcuLsXhpVFE1TURsYUZ3mipOREV7Xr8e50VtB9RgXmttiveApf4kf8Qm0vKjBTvRbD0xWlwJtVjBmxE13224dAfLBMEdu3fHu01M0RRRUJBUVVBOTRjQkr3Qxh1z0VlckFVs0jb  
WxVwvHh01hSpb0NQWgdzb5TkrFcuLsXhpVFE1TURsYUZ3mipOREV7Xr8e50VtB9RgXmttiveApf4kf8Qm0vKjBTvRbD0xWlwJtVjBmxE13224dAfLBMEdu3fHu01M0RRRUJBUVVBOTRjQkr3Qxh1z0VlckFVs0jb  
TChriNpNU10eiXzg51L1J3EVkd8u1Y5R1RhbwY2Tj1nnNOvOTBvZzrY1ZmW0ZwgJ3w01OwUnodeVbF3pcm85NEZVOww4bF5M01sbhk1VEQz2F34RXcXoVdg0U1Nz2N0mz3V0mkhpSmhGn1ArSk1j1U1Fhdtny250  
RY5kTG1Vam1zdzFRcndxT0kwf0pY1RwsUE3TOPwUtb1NhsbmzUXBydCz5YT13L2Z2eUr5czAtYPRU9ub1UQYpXQxV6bUqwmh0vn10TmrkzV1Wbys3b2E4ND1QW6NOK2BR2pXVEJYTuE0R0ExVwRd0VCL3drRUE3  
SUNvREFQckJmTZZUK1C0Qy4RUJUQR8UlgTU1wREoXVwREZ1FxQjJlaGtFMUdFwE1n0URCSmVb1ZozXdxke1jWbV1UQYyK0mdovkHSUvEakfNz2QwcmrXSmxj3TVSEdwk1BMEDU13FHU01M0RRRUJD1VBQTzR0kFR  
QkM1Jdtektky4RapYnhNvndxvSw1QmXNbZ1NgbwdpNzYMOZezTfSwm3jN0zrK2ZyQUE3N1h1M0QxsKnBzU5Kn1Xae05XAxznpccm5V2or5nbwnwfjM1Yw13N2ek1kek1pZXvtM1q3oRzV2o0ewkV1rbBwWEFOVdV0rnhw1  
U0jRwTEt0c2ddevPdkkb2c4TGxadxhovdvvM1BzTDF6widsS2Vka2FXYTRWl2urSwidZk9sRDE5kLMv1zfr2w0lT1t1Mwpqawh3dwrm1wpsz0Hb5SDA3cDB6wvBNU1L5em0k1aMw03ak320kzFw531CszNR0w0zWf15z3dY  
UJM3uj8cqwovmnCTk1U4yk8zcmlTrv0drbtU0azZv21gaOpwdnhzR1J0K3J1UDXMLwGw-TFFF6t3Vka1FndiuqvThxaEJpd0RNwVI0unVhz1BWTkwkc1Tk3dPsDROYj15c10tLs0TRU5E1EnfU1rJrk1DqVrFLs0tLs0k  
server: https://01C542848DCBC4F45e08456c7196c75.gr7.us-east-2.eks.amazonaws.com  
name: eks17.us-east-2.eksctl.io  
contexts:  
- context:  
  cluster: eks17.us-east-2.eksctl.io  
  user: i-09850cb05ffbbbad@eks17.us-east-2.eksctl.io  
current-context: i-09850cb05ffbbbad@eks17.us-east-2.eksctl.io  
kind: config  
preferences: {}  
users:  
- name: i-09850cb05ffbbbad@eks17.us-east-2.eksctl.io  
  user:  
    exec:  
      apiVersion: client.authentication.k8s.io/v1beta1  
      args:  
      - eks  
      - get-token  
      - --output  
      - json  
      - --cluster-name  
      - eks17  
      - --region  
      - us-east-2  
      command: aws  
      env:  
      - name: AWS_STS_REGIONAL_ENDPOINTS  
        value: regional  
        provideClusterInfo: false  
jenkins@ip-172-31-4-107:~$ .kube$
```

```
# config x  
C:\> Users > admin > Desktop > Gurjeet Data > terraform > config > # config  
1  apiVersion: v1  
2  clusters:  
3  - cluster:  
4    certificate-authority-data: LS0tLS1CRUdJTiBDRVJUSUJZ00FURS0tLS0tK1J3URCVENQ0uYz0F3SUJ8Z0lYyWpUEV8QmdhuG93RFZSktvWk1odmNQQVFFTE3RQxdGVEVUTUJFR0ExVUUKQxhNs2EzVm1aWEp1hSp  
5    name: eks17.us-east-2.eksctl.io  
6  
7  contexts:  
8  - context:  
9    cluster: eks17.us-east-2.eksctl.io  
10   user: i-09850cb05ffbbbad@eks17.us-east-2.eksctl.io  
11   name: i-09850cb05ffbbbad@eks17.us-east-2.eksctl.io  
12 current-context: i-09850cb05ffbbbad@eks17.us-east-2.eksctl.io  
13 kind: Config  
14 preferences: {}  
15 users:  
16 - name: i-09850cb05ffbbbad@eks17.us-east-2.eksctl.io  
17   user:  
18     exec:  
19       apiVersion: client.authentication.k8s.io/v1beta1  
20       args:  
21       - eks  
22       - get-token  
23       - --output  
24       - json  
25       - --cluster-name  
26       - eks17  
27       - --region  
28       - us-east-2  
29       command: aws  
30       env:  
31       - name: AWS_STS_REGIONAL_ENDPOINTS  
32         value: regional  
33         provideClusterInfo: false  
34
```

The screenshot shows the Jenkins Global credentials (unrestricted) page. It lists three credentials:

ID	Name	Kind	Description
git-cred	Gurjeetkaur99/***** (git-cred)	Username with password	git-cred
jfrogaccess	demouser/***** (jfrogaccess)	Username with password	jfrogaccess
sonar	sonar	Secret text	sonar

Icons for each credential are shown to the right of their respective rows.



A Jenkins Credentials creation dialog is overlaid on a Windows file browser window. The file browser shows a folder structure under 'Gujeet Data > terraform > config'. The 'config' file is selected for upload.

The Jenkins dialog fields are:

- ID: config
- Description: (empty)

Buttons at the bottom of the dialog are 'Create' and 'Cancel'.

The Windows taskbar at the bottom is identical to the one in the previous screenshot.

Not secure 3.133.145.125:8080/manage/credentials/store/system/domain/_/newCredentials

New credentials

Kind: Secret file

Scope: Global (Jenkins, nodes, items, all child items, etc)

File: Choose File config

ID: k8-cred

Description: k8-cred

Create

REST API Jenkins 2.489 -2°C 15:08 ENG 12-12-2024

Not secure 3.133.145.125:8080/manage/credentials/store/system/domain/_/

Global credentials (unrestricted)

+ Add Credentials

Credentials that should be available irrespective of domain specification to requirements matching.

ID	Name	Kind	Description
git-cred	Gurjeetkaur99***** (git-cred)	Username with password	git-cred
jfrogaccess	demouser***** (jfrogaccess)	Username with password	jfrogaccess
sonar	sonar	Secret text	sonar
k8-cred	config (k8-cred)	Secret file	k8-cred

Icon: S M L

REST API Jenkins 2.489



```

File Edit Selection View Go Run ... ← → ⌂ project-boardgame
EXPLORER Jenkinsfile deployment-service.yaml globalsettings.png
PROJECT-BOARDGAME
> src
  2.png
  3.png
  deployment-service.yaml
Dockerfile
globalsettings.png
Jenkinsfile
Jenkinsfile123
  mmw
  mmw.cmd
  pom.xml
  README.md
  settings.xml
  soft-install.sh
  sonar-project.properties
105
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123
124
125
126
127
128
129
  pipeline {
    stages {
      stage('Maven Test') {
        steps {
          sh 'mvn clean package'
        }
      }
      stage('Archive Report') {
        steps {
          sh 'docker push gurjeetkaur99/boardgame:latest'
        }
      }
      stage('Push Docker Image To AWS ECR') {
        steps {
          script {
            sh 'aws ecr get-login-password --region us-east-1 | docker login --username AWS --password-stdin $AWS_ECR_PASSWORD'
            sh 'docker tag boardgame:latest $AWS_ECR_REGISTRY/eks17.us-east-2.eks.amazonaws.com/boardgame:latest'
            sh 'docker push $AWS_ECR_REGISTRY/eks17.us-east-2.eks.amazonaws.com/boardgame:latest'
          }
        }
      }
      stage('Deploy To Kubernetes') {
        steps {
          withKubeConfig(caCertificate: '', clusterName: 'eks17', contextName: '', credentialsId: 'k8s-cred', namespace: 'default', restrictKubeConfig: false) {
            sh 'kubectl apply -f eks-deploy-k8s.yaml'
          }
        }
      }
    }
  }
}

```

```

root@ip-172-31-4-107: ~
- certificate-authority-data: LS0tLS1CRUdJTiBDRVJUJSUZQ0FURS0tLS0tC1JSURCVENDQWUYZ0F2SUHZ0tJYwpuJEV80mdhUG2RFZsktvWk1odmNOQyFTEjRQXdgVvEYUJF0ExVUJKQXhns2E2vm13WEp1w1hsbg6N0WVgdz83TRFeULUSXhpVFETURSYUZ3HpiREv5TVR8e9UVTBNRGxHTUjVeapFek-Sondovk87VYRDbXQXWlWeWTVjBawE132ZGfAu1BKwd0U13FHU01M0RRRUJ8UVB0TRJkR3x0xdnZ0VLCkFvSuJB1URVR2ZTNLdpK2Jvdt1L1d1StRsk3paANTV8CvLk4MF-GccPvYY8vpDjPV3FvR01CoH1mrINVNCXcbVhneURJRHWAhJYTTjeVlVRtQZPP25Xv1elysFEWuIUs1lTrBSSTRjHkWjZunw1lRkshU5Sw1NTcEqjUrcyphTrhriN1p0NU10eiXzG51L1JEvKvdbu1Y5R1RhBvV2Tj1wnn0zWg1Bw0l0wn0dEVb1j1m85NEZVOww4lFcSM01shb1VEQxF4Rxxcxydqlp011N2jONmx3w1mkhpSmhcw1ArSk1j1l1FhBtNNY250RyskTG1vamJzvdFrCndx70kw0fTp1YlRwSUE5T0pmUTBHIn1h5bmznrxUxbdz5YT13Lzz2eUr5eqzAy9rU9ub1u1oygxpxkv6buqwnh0vn107mklczV1wbys3b1e24N0d10w0NkFBR2pxvEYTYUOeR0ExvWwv1d0vCl3drRUE3SUNWREFOCK-jnT1Ztuk1QkW4YRUJUQRBUUgjTwiROExwREZ1FxQj1a6TfMdFWEt1WOUJRCsIVvb1ZoZxdkjeJwbyV1UqyVXqqodvhsRUVeAfkNz2dwcmbXsmxjbtVs2Edwk18Mcd13FHU011M0RRRUJd1VBQTRjkFRQWJ1dwtky4RapYnhvndvxsUWlQMXNB1N6BwdnN3ZYMOZEZTF5wmj1n0ZrK2ZzQUE3NhtM0QxSKNbZUSKnX1kaoE5YXAxZnpGCrM5V2orSnbwWhjM1yw13N2ek1kekjpzXvTm1q0RzV2o0ew2vrbn8wWeFQDVv0mhwU0RWT10c2d2devPdkkbz2c4TxGadxhfovDVVMbzTDj6widsSZVa2FXYTWR2URSwd2zK95Rd5KLMyvz1zrW91Tif1M1wpqawh3dWrmtwpsz0h85D3cDB6wvBNUUC5emK1nwU9jk32Okzfw53JcazNRow0zwf1523dyUUm3UjBqcvowQmTkU4Yk8zcmTradrBtU0azZv2TcaOpwdrhzR1j0K3JUUXMLwgwTFF6t3ka1TrndUVqtVhxaCJpdORNw10urnvhz1Bwtkwkc1Ik3dPsDROyj15c10t1S0trU5E1EnF1lRjk1Dqvrfls0tLs0k
server: https://01c54284BDCBC4F45BE08456C7196C75.gr7.us-east-2.eks.amazonaws.com
name: eks17.us-east-2.eksctl.io
contexts:
- context:
  cluster: eks17.us-east-2.eksctl.io
  user: i-09850cb055ffbbbad@eks17.us-east-2.eksctl.io
  name: i-09850cb055ffbbbad@eks17.us-east-2.eksctl.io
current-context: i-09850cb055ffbbbad@eks17.us-east-2.eksctl.io
kind: Config
preferences: {}
users:
- name: i-09850cb055ffbbbad@eks17.us-east-2.eksctl.io
  user:
    exec:
      apiVersion: client.authentication.k8s.io/v1beta1
      args:
      - eks
      - get-token
      - --output
      - json
      - --cluster-name
      - eks17
      - --region
      - us-east-2
    command: aws
    env:
      name: AWS_STS_REGIONAL_ENDPOINTS
      value: regional
    provideClusterInfo: false
jenkins@ip-172-31-4-107:~/kubectl cd
jenkins@ip-172-31-4-107:~/kubectl cluster-info
Kubernetes control plane is running at https://01c54284BDCBC4F45BE08456C7196C75.gr7.us-east-2.eks.amazonaws.com
CoreDNS is running at https://01c54284BDCBC4F45BE08456C7196C75.gr7.us-east-2.eks.amazonaws.com/api/v1/namespaces/kube-system/services/kube-dns:proxy
To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
jenkins@ip-172-31-4-107:~|

```

The screenshot shows the VS Code interface with the file `Jenkinsfile` open in the editor. The code defines a Jenkins pipeline with a stage named 'Maven Test' and a step to apply Kubernetes resources from a YAML file. The terminal below shows the command to clone the repository and run a git push.

```
15 --password-stdin 026090557197.dkr.ecr.us-east-2.amazonaws.com'
cardgame:latest'
8-cred', namespace: 'default', restrictKubeConfigAccess: false, serverUrl: 'https://01c5428480cbc4f458e08456c7196c75.gr7.us-east-2.eks.amazonaws.com' {
121
122     stage('Deploy To Kubernetes') {
123         steps {
124             withKubeConfig(caCertificate: '', clusterName: 'eks17', contextName: '', credentialsId: 'k8-cred', namespace: 'default', restrictKubeConfigAccess: false)
125             sh "kubectl apply -f eks-deploy-k8s.yaml"
126         }
127     }
128 }
```

```
To https://github.com/Gurjeetkaur99/project-boardgame.git
d035b2e..a58ela4 prod -> prod
```

```
admin@DESKTOP-3AGNR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
```

This screenshot shows the same Jenkinsfile in VS Code, but the terminal output is visible at the bottom. It shows the execution of git commands to add changes, commit them with a message, and push the changes to the 'prod' branch on GitHub.

```
● git add .
● git commit -m "Kubernetes deployment"
[prod b973c38] kubernetes deployment
 2 files changed, 36 insertions(+), 23 deletions(-)

● git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 938 bytes | 938.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
 a58ela4..b973c38 prod -> prod
```

```
admin@DESKTOP-3AGNR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
```

```

File Edit Selection View Go Run ... ← → project-boardgame
EXPLORER PROJECT-BOARDGAME
src
2.png
3.png
deployment-service.yaml
Dockerfile
globalsettings.png
Jenkinsfile M
Jenkinsfile123
mvnw
mvnw.cmd
pom.xml
README.md
settings.xml
soft-install.sh
sonar-project.properties
Jenkinsfile × deployment-service.yaml globalsettings.png
1 Jenkinsfile
2 pipeline {
3   stages {
4     stage('Maven Test') {
5       steps {
6         sh "mvn clean test"
7       }
8     }
9   }
10 }
11 }
12 stage("Deploy To Kubernetes") {
13   steps {
14     withKubeConfig(caCertificate: '', clusterName: 'eks17', contextName: '', credentialsId: 'k8-cred', namespace: 'default', restartPolicy: 'Never')
15     sh "kubectl apply -f deployment-service.yaml"
16   }
17 }
18 }
19 }
20 }
21 }
22 }
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127 }
128 }

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

admin@DESKTOP-346NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git add .

admin@DESKTOP-346NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git commit -m "kubernetes deployment"
[prod b973c38] kubernetes deployment
2 files changed, 36 insertions(+), 23 deletions(-)

admin@DESKTOP-346NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 938 bytes | 938.0 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Gurjeetkaur99/project-boardgame.git
 a56el4..b973c38 prod --> prod

admin@DESKTOP-346NR56 MINGW64 ~/Desktop/Gurjeet Data/terraform/project-boardgame (prod)
$ [ ]

```

LN 123, COL 62 SPACES: 4 UTT-B 15:13 ENG 12-12-2024

The screenshot shows the Jenkins dashboard for the 'boardgame-project' pipeline. The pipeline consists of several stages: Declarative: Checkout SCM, Declarative: Tool Install, Git Checkout, Maven Compile, Maven Test, File System Scan by Trivy, Sonar Analysis, Quality Gate, Maven Package, Jar Publish, Build Docker Image and TAG, Docker Image Scan, Archive Report, Push Docker Image To Docker Hub, Push Docker Image To AWS ECR, and Deploy To Kubernetes. The 'Push Docker Image To Docker Hub' stage failed with a duration of 3s. The 'Push Docker Image To AWS ECR' stage failed with a duration of 748ms. The 'Deploy To Kubernetes' stage failed with a duration of 707ms. The 'File System Scan by Trivy' stage had a warning indicating it was skipped for 30s.

Stage	Duration	Status
Average stage times: (Average full run time: ~1 min 9s)		
Declarative: Checkout SCM	516ms	Success
Declarative: Tool Install	142ms	Success
Git Checkout	618ms	Success
Maven Compile	3s	Success
Maven Test	13s	Success
File System Scan by Trivy	1s	Warning (Skipped for 30s)
Sonar Analysis	14s	Success
Quality Gate	382ms	Success
Maven Package	14s	Success
Jar Publish	1s	Success
Build Docker Image and TAG	2s	Success
Docker Image Scan	5s	Success
Archive Report	316ms	Success
Push Docker Image To Docker Hub	2s	Failure (3s)
Push Docker Image To AWS ECR	1s	Failure (748ms)
Deploy To Kubernetes	1s	Failure (707ms)

```

root@ip-172-31-4-107: ~
Dw1Jdwtkyt4RapyNHvndxvSuw1QMXNBZ1N6bwdoN3ZYMOZEZTF5wJnNOzrK2ZYQUE3nhltMoQxsKnBZU5kNx1xaE05YxxznpGChM5V2orSnBwNwfjM1ywL3N2ek1kek3pxXvTmmlqa0Rzv200ewzvRnbwEFQvDv0Mnfw
U0RvTE10c2d2devpkkzb2c4TxadhrhovDVVM1BzTDF6whdsS2Vka2FXYTRWL2UrSwdeZk95RDE5k1MyvzhZrw91Tit1Mwpqawh3dwrMuwpsz0hBSDA3CDB6WvBNuUC5em9Ka1NmWU9aK3Z0KzFw530caznRow0zwf1Sz3dy
server: https://01c54284BDCBC4F45BE08456c7196c75.gr7.us-east-2.eks.amazonaws.com
contexts:
  - context:
      cluster: eks17.us-east-2.eksctl.io
      user: i-09850cb055ffbbbad@eks17.us-east-2.eksctl.io
    current-context: i-09850cb055ffbbbad@eks17.us-east-2.eksctl.io
  kind: config
  preferences: {}
  users:
    - name: i-09850cb055ffbbbad@eks17.us-east-2.eksctl.io
      user:
        exec:
          apiVersion: client.authentication.k8s.io/v1beta1
          args:
            - eks
            - get-token
            - --output
            - json
            - --cluster-name
            - eks17
            - --region
            - us-east-2
          command: aws
          env:
            name: AWS_STS_REGIONAL_ENDPOINTS
            value: regional
          provideClusterInfo: false
jenkins@ip-172-31-4-107:~/.kube$ cd
jenkins@ip-172-31-4-107:~$ kubectl cluster-info
Kubernetes control plane is running at https://01c54284BDCBC4F45BE08456c7196c75.gr7.us-east-2.eks.amazonaws.com
CoreDNS is running at https://01c54284BDCBC4F45BE08456c7196c75.gr7.us-east-2.eks.amazonaws.com/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy
To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
jenkins@ip-172-31-4-107:~$ kubectl get po
NAME           READY   STATUS    RESTARTS   AGE
boardgame-app-584d8f5bbf-4xbtn   1/1    Running   0          21s
boardgame-app-584d8f5bbf-kpcmt   1/1    Running   0          21s
boardgame-app-584d8f5bbf-p4246   1/1    Running   0          21s
boardgame-app-584d8f5bbf-smphx   1/1    Running   0          21s
boardgame-app-584d8f5bbf-xj0sg   1/1    Running   0          21s
jenkins@ip-172-31-4-107:~$ |

```

Type here to search + TSLA ENG 15:15
12-12-2024

Name	DNS name	State	VPC ID	Availability Zones	Type
a3587d2f9eda64a1c80...	a3587d2f9eda64a1c80db7...	-	vpc-09c40ce456627b7a0	3 Availability Zones	classic

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The screenshot shows the AWS CloudShell interface. On the left, a sidebar navigation menu includes: Snapshots, Lifecycle Manager, Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups, Trust Stores), and Auto Scaling (Auto Scaling Groups, Settings). The main content area displays the details of a Classic Load Balancer named **a3587d2f9eda64a1c80db7a60cf14962**. The 'Details' section shows the Load balancer type as 'Classic', Status as '0 of 2 instances in service', Hosted zone as 'Z3AADJGX6KTTLZ', and VPC as 'vpc-09c40ce456627b7a0'. Availability Zones listed are: subnet-0fb40e5ae8c88f2f (us-east-2b (use2-a22)), subnet-0155b055305bd6bc (us-east-2c (use2-a23)), and subnet-08695e2dc3ba70f9e (us-east-2a (use2-a21)). A message indicates that the DNS name has been copied. Below this, a note says the load balancer can be migrated to a next-generation load balancer using a migration wizard. The bottom section shows the distribution of targets by Availability Zone (AZ).

The screenshot shows a web browser window with the URL a3587d2f9eda64a1c80db7a60cf14962-1269808395.us-east-2.elb.amazonaws.com. The page title is "Welcome to BoardGame Database! 😊". The main content is titled "Boardgame Lists" and features three boxes: "Splendor", "Clue", and "Linkee". Below the boxes, there is a message: "For more services, login [Here](#)" and "To join to the service, [Click](#) here". The bottom of the screen shows the Windows taskbar with various pinned icons.

Welcome to BoardGame Database! 😊

Home Login Sign-up

Information of Splendor

Game Level: 3

Players: 2 - 4 people

Game Type: Strategy Game

[Click Here](#) for user reviews

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Home Login Sign-up

User Reviews for Splendor

Reviews	Edit	Delete
A great strategy game. The one who collects 15 points first wins. Calculation skill is required.	Edit	Delete
Collecting gemstones makes me feel like a wealthy merchant. Highly recommend!	Edit	Delete

** Only the users with manager role can edit/ delete the reviews **

To write reviews, please login [Here](#)

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Please Login

User name: Enter Username

Password: Enter Password

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us-east-1.console.aws.amazon.com/route53/v2/home?region=us-east-1#Dashboard

aws Search [Alt+S]

Route 53 Dashboard

Route 53

- Dashboard
- Hosted zones
- Health checks
- Profiles [New](#)
- IP-based routing
- CIDR collections
- Traffic flow
- Traffic policies
- Policy records
- Domains
- Registered domains
- Requests
- Resolver
- VPCs
- Inbound endpoints
- Outbound endpoints
- Rules
- Query logging

Route 53 Dashboard Info

DNS management
1 Hosted zone [Create policy](#)

Traffic management
A visual tool that lets you easily create policies for multiple endpoints in complex configurations.

Availability monitoring
Health checks monitor your applications and web resources, and direct DNS queries to healthy resources. [Create health check](#)

Domain registration
A domain is the name, such as example.com, that your users use to access your application. [Register domain](#)

Register domain
Find and register an available domain, or [transfer your existing domains](#) to Route 53.
Enter a domain name [Check](#)

Notifications
Find notifications [Last update](#)

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Screenshot of the AWS Route 53 console showing the 'Hosted zones' list. The left sidebar shows navigation options like Dashboard, Hosted zones, Health checks, Profiles, IP-based routing, Traffic flow, Domains, and Resolver.

The main area displays a table titled 'Hosted zones (1)'. The table has columns: Hosted zone name, Type, Created by, Record count, Description, and Hosted zone ID. One entry is listed:

Hosted zone name	Type	Created by	Record count	Description	Hosted zone ID
awsdevnewone.xyz	Public	Route 53	4	-	Z08796472KR9MBEE...

Feedback bar at the bottom includes icons for CloudShell, Feedback, and various Windows system status indicators.

Screenshot of the AWS Route 53 console showing the 'Hosted zone details' page for 'awsdevnewone.xyz'. The left sidebar is identical to the previous screenshot.

The main area shows the 'Records (4)' tab of the 'Hosted zone details' panel. It lists four records:

Record ...	Type	Routing p...	Differ...	Alias	Value/Route traffic
awsdevne...	A	Simple	-	Yes	dualstack.afa4a4a6ff
awsdevne...	NS	Simple	-	No	ns-1127.awsdns-12.o ns-121.awsdns-15.co ns-1949.awsdns-51.o ns-746.awsdns-29.ne
awsdevne...	SOA	Simple	-	No	ns-1127.awsdns-12.o
www.aws...	A	Simple	-	Yes	dualstack.afa4a4a6ff

The right side of the screen shows the 'Edit record' configuration pane for the first A record. It includes fields for Record name (awsdomain), Record type (A - Routes traffic to an IPv4 address and ...), Alias (checked), Route traffic to (Alias to Application and Classic Load Balancer), Routing policy (Simple routing), and Evaluate target health (Yes). Buttons for Cancel and Save are at the bottom.

Feedback bar at the bottom includes icons for CloudShell, Feedback, and various Windows system status indicators.

Screenshot of the AWS Route 53 console showing the successful update of a hosted zone.

The URL is us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-2#ListRecordSets/Z08796472KR9MBEEAVAES.

The left sidebar shows the navigation menu:

- Route 53
- Dashboard
- Hosted zones
- Health checks
- Profiles [New](#)
- IP-based routing
- CIDR collections
- Traffic flow
- Traffic policies
- Policy records
- Domains
- Registered domains
- Requests
- Resolver
- VPCs
- Inbound endpoints
- Outbound endpoints
- Rules
- Query logging

The main content area shows a success message: "awsdevnewone.xyz was successfully updated. Route 53 propagates your changes to all of the Route 53 authoritative DNS servers within 60 seconds. Use "View status" button to check propagation status." A "View status" button is available.

The "Records (4)" tab is selected, displaying the following table:

Record ...	Type	Routin...	Differ...	Alias	Value/Route traffic t
awsdevne...	A	Simple	-	Yes	dualstack.a3587d2f9...
awsdevne...	NS	Simple	-	No	ns-1127.awsdns-12.o...
awsdevne...	SOA	Simple	-	No	ns-1127.awsdns-12.o...
<input checked="" type="checkbox"/> www.aw...	A	Simple	-	Yes	dualstack.afa4a4a6ff...

The right panel shows the "Edit record" configuration for the "www" record:

- Record name: [Info](#) www.aw...
- Keep blank to create a record for the root domain.
- Record type: [Info](#) A – Routes traffic to an IPv4 address and ...
- Alias:
- Route traffic to: [Info](#) Alias to Application and Classic Load Balancer
- US East (Ohio)
- Routing policy: [Info](#) Simple routing
- Evaluate target health: Yes

Buttons: Cancel, Save.

Screenshot of the AWS Route 53 console showing the successful update of a hosted zone.

The URL is us-east-1.console.aws.amazon.com/route53/v2/hostedzones?region=us-east-2#ListRecordSets/Z08796472KR9MBEEAVAES.

The left sidebar shows the navigation menu:

- Route 53
- Dashboard
- Hosted zones
- Health checks
- Profiles [New](#)
- IP-based routing
- CIDR collections
- Traffic flow
- Traffic policies
- Policy records
- Domains
- Registered domains
- Requests
- Resolver
- VPCs
- Inbound endpoints
- Outbound endpoints
- Rules
- Query logging

The main content area shows a success message: "www.awsv... was successfully updated. Route 53 propagates your changes to all of the Route 53 authoritative DNS servers within 60 seconds. Use "View status" button to check propagation status." A "View status" button is available.

The "Records (4)" tab is selected, displaying the following table:

Record ...	Type	Routin...	Differ...	Alias	Value/Route traffic t
awsdevne...	A	Simple	-	Yes	dualstack.a3587d2f9...
awsdevne...	NS	Simple	-	No	ns-1127.awsdns-12.o...
awsdevne...	SOA	Simple	-	No	ns-1127.awsdns-12.o...
<input checked="" type="checkbox"/> www.aw...	A	Simple	-	Yes	dualstack.afa4a4a6ff...

The right panel shows the "Edit record" configuration for the "www" record:

- 0 records selected
- Select a record to see its details

Buttons: Cancel, Save.

Welcome to BoardGame Database! 😊

Home Login Sign-up

Boardgame Lists

- Splendor
- Clue
- Linkee

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Add a User

User name:

Password:

ROLE_MANAGER

ROLE_USER

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Welcome to BoardGame Database! 😊

Boardgame Lists

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www.awsdevnewone.xyz/3

Type here to search

-2°C 15:38 12-12-2024 ENG

