

Build entire CI/CD pipeline using ECS in place of EKS

We will first create 3 instances dev-server, Jenkins-server and Tomcat

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with links like EC2 Dashboard, EC2 Global View, Events, Instances (selected), Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, and Reserved Instances. The main area has a table titled 'Instances (3)'. The table columns are Name, Instance ID, Instance state, Instance type, Status check, and Alarm status. The data rows are:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
dev-server	i-0d464903bc0a4c13f	Running	t2.micro	2/2 checks passed	View alarms
jenkins-server	i-04deede1c1cd381dd	Running	t2.medium	2/2 checks passed	View alarms
Tomcat	i-0089d4813e167c79f	Running	t2.micro	Initializing	View alarms

Assign security rules

The screenshot shows the 'Inbound rules' section of a security group configuration. It lists three rules:

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-01a224456f3358760	SSH	TCP	22	Cu...	0.0.0.0/0
-	HTTP	TCP	80	An...	0.0.0.0/0
-	Custom TCP	TCP	8080	An...	0.0.0.0/0

At the bottom left, there's a button labeled 'Add rule'.

Open dev-server terminal

```

Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\10748211> cd .\Downloads\
PS C:\Users\10748211\Downloads> ssh -i "key1.pem" ec2-user@ec2-3-110-186-170.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-3-110-186-170.ap-south-1.compute.amazonaws.com (3.110.186.170)' can't be established.
ED25519 key fingerprint is SHA256::AC6FJWY9yuHARBYybWNODp3F7m+EwY8j3ej/DSxnY.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-110-186-170.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.

'          #
' \_ #####      Amazon Linux 2023
'  \_\#####\
'   \###|
'    /#| ___  https://aws.amazon.com/linux/amazon-linux-2023
'    V~'`-->
'    /`/
'   /_/_/`/
'  _/`/`/`/
[ec2-user@ip-172-31-40-236 ~]$ sudo su -
[root@ip-172-31-40-236 ~]# hostnamectl set-hostname dev-server
[root@ip-172-31-40-236 ~]# bash
[root@dev-server ~]# |

```

Establish SSH connection using ssh-keygen

```

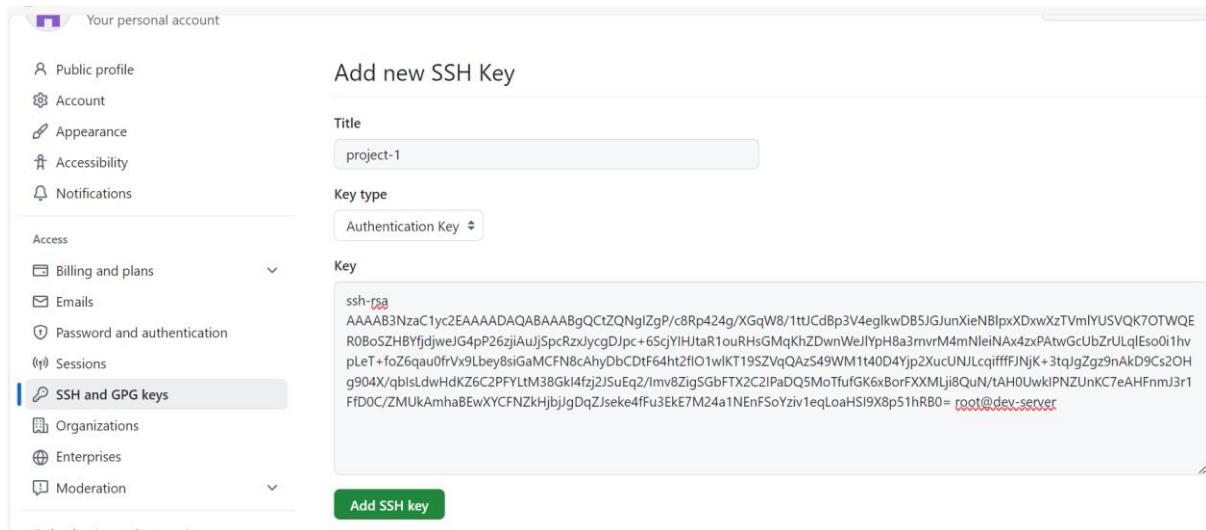
[root@dev-server ~]# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:GN0d0wJeY0wBiTH45my9XH1jMyfU0nL/p0ENo1Er3U root@dev-server
The key's randomart image is:
+---[RSA 3072]---+
| .o+.+=++ |
| +oo.o+=+. |
| ...+..=***E |
| .o= . .B*== |
| .+S. o...+o |
| . . . =. |
| . . = |
| .o |
+---[SHA256]---+

```

```

[root@dev-server ~]# cd .ssh/
[root@dev-server .ssh]# cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAAAbgQCtzNgIZgP/c8Rp424g/cGqW8/1ttJcdBp3V4eglkwDB5JGJunXieNBlpXDXwXzTvmlYUSVQK70TWQER0BoSZHBYfjdjwe
JG4pP26zjiAuJSpCrzxJycgDjpc+6scjYIHJtaR1ouRhsGMqKhZDwnWeJlypH8a3rnvrM4mNL eiNAx4zxPAtwGcUbZrULqLeSo0ihvpLeT+foZ6qau0frVx9Lbey8s1gaMC
Fn8cAhyDbCDtF64ht2fI01wlkT19SZVqAzs49WM1t40D4jp2XucUNJLcqiffFFJNjk+3tqJgZg9nAkD9Cs20Hg904X/qbIsldwHdkZ6C2PFYltM38GkI4fzj2JSuEq2/Im
v8ZigSGbFTX2C2IPaDQ5MoTfufGK6xBorFXMLji8QuN/tAH0UwKIPNZUuKC7eAHFhmJ3r1FFD0C/ZMUkAmhaBEWXYCFNZkHjbJgDqZjseke4FFu3EKE7M24a1NEnFS0Yziv
1eqLoaHSI9X8p51hRB0= root@dev-server
[root@dev-server .ssh]# |

```



Install git

```
[root@dev-server ~]# yum install git -y
Last metadata expiration check: 0:20:05 ago on Sun Sep 29 13:48:53 2024.
Dependencies resolved.
=====
Package           Architecture      Version       Repository      Size
=====
Installing:
git               x86_64          2.40.1-1.amzn2023.0.3   amazonlinux    54 k
Installing dependencies:
git-core          x86_64          2.40.1-1.amzn2023.0.3   amazonlinux    4.3 M
git-core-doc      noarch          2.40.1-1.amzn2023.0.3   amazonlinux    2.6 M
perl-Error        noarch          1:0.17029-5.amzn2023.0.2   amazonlinux    41 k
perl-File-Find   noarch          1.37-477.amzn2023.0.6    amazonlinux    26 k
perl-Git          noarch          2.40.1-1.amzn2023.0.3   amazonlinux    42 k
perl-TermReadKey x86_64          2.38-9.amzn2023.0.2     amazonlinux    36 k
perl-lib          x86_64          0.65-477.amzn2023.0.6    amazonlinux    15 k
Transaction Summary
=====
Install 8 Packages

Total download size: 7.1 M
Installed size: 31 M

[completed]
[root@dev-server ~]# mkdir data
[root@dev-server ~]# cd data

[root@dev-server data]# git pull git@github.com:mahek320/jenkins.git
fatal: not a git repository (or any of the parent directories): .git
[root@dev-server data]# git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /root/data/.git/
[root@dev-server data]# git pull git@github.com:mahek320/jenkins.git
The authenticity of host 'github.com (20.207.73.82)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMsvHdkr4UvC0qU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 181, done.
remote: Counting objects: 100% (181/181), done.
```

```

[root@dev-server data]# git branch
* master
[root@dev-server data]# git branch -M main
[root@dev-server data]# git branch
* main
[root@dev-server data]# ls
Dockerfile README.md pom.xml regapp-deploy.yml regapp-service.yml server webapp
[root@dev-server data]#

```

Open terminal for jenkins-server

```

Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\10748211> cd .\Downloads\
PS C:\Users\10748211\Downloads> ssh -i "key1.pem" ec2-user@ec2-52-66-195-162.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-52-66-195-162.ap-south-1.compute.amazonaws.com (52.66.195.162)' can't be established.
ED25519 key fingerprint is SHA256:XiWWb/5XlynHtCXIT7esmEFPh101BAiNenlxG72XoGU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-52-66-195-162.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.

#_
~\_\_ #####_ Amazon Linux 2023
~~ \_\#\#\#\_
~~ \#\#\#
~~ \#/ _-->
~~ V~' '--->
~~ /_
~~ ._. _/_
~/ _/
~/m/`_
[ec2-user@ip-172-31-41-122 ~]$ sudo su -
[root@ip-172-31-41-122 ~]# hostnamectl set-hostname jenkins
[root@ip-172-31-41-122 ~]# bash

```

```

[root@jenkins ~]# yum install git -
Last metadata expiration check: 0:24:14 ago on Sun Sep 29 13:51:53 2024.
Dependencies resolved.
=====
Package           Architecture      Version       Repository      Size
=====
Installing:
git              x86_64          2.40.1-1.amzn2023.0.3   amazonlinux    54 k
Installing dependencies:
git-core          x86_64          2.40.1-1.amzn2023.0.3   amazonlinux    4.3 M
git-core-doc      noarch         2.40.1-1.amzn2023.0.3   amazonlinux    2.6 M
perl-Error        noarch         1:0.17029-5.amzn2023.0.2   amazonlinux    41 k
perl-File-Find    noarch         1.37-477.amzn2023.0.6    amazonlinux    26 k
perl-Git          noarch         2.40.1-1.amzn2023.0.3   amazonlinux    42 k
perl-TermReadKey x86_64          2.38-9.amzn2023.0.2     amazonlinux    36 k
perl-lib          x86_64          0.65-477.amzn2023.0.6    amazonlinux    15 k
Transaction Summary
=====
Install 8 Packages

```

```

[root@jenkins ~]# dnf install java-17-amazon-corretto -
Last metadata expiration check: 0:24:22 ago on Sun Sep 29 13:51:53 2024.
Dependencies resolved.
=====
Package           Architecture      Version       Repository      Size
=====
Installing:
java-17-amazon-corretto x86_64          1:17.0.12+7-1.amzn2023.1   amazonlinux    187 k
Installing dependencies:
alsa-lib            x86_64          1.2.7.2-1.amzn2023.0.2   amazonlinux    504 k
cairo               x86_64          1.17.6-2.amzn2023.0.1    amazonlinux    684 k
dejavu-sans-fonts  noarch         2.37-16.amzn2023.0.2    amazonlinux    1.3 M
dejavu-sans-mono-fonts noarch         2.37-16.amzn2023.0.2    amazonlinux    467 k
dejavu-serif-fonts noarch         2.37-16.amzn2023.0.2    amazonlinux    1.0 M
fontconfig          x86_64          2.13.94-2.amzn2023.0.2   amazonlinux    273 k
fonts-filesystem   noarch         1:2.0.5-12.amzn2023.0.2   amazonlinux    9.5 k
freetype             x86_64          2.13.2-5.amzn2023.0.1   amazonlinux    423 k
giflib              x86_64          5.2.1-9.amzn2023.0.1     amazonlinux    49 k
google-noto-fonts-common noarch         20201206-2.amzn2023.0.2   amazonlinux    15 k

```

```

[root@jenkins ~]# java -version
openjdk version "17.0.12" 2024-07-16 LTS
OpenJDK Runtime Environment Corretto-17.0.12.7.1 (build 17.0.12+7-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.12.7.1 (build 17.0.12+7-LTS, mixed mode, sharing)
[root@jenkins ~]# wget -O /etc/yum.repos.d/jenkins.repo \https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2024-09-29 14:17:41-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.154.133, 2a04:4e42:24::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.154.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'

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

2024-09-29 14:17:41 (3.51 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]

[root@jenkins ~]#

```

```

[root@jenkins ~]# rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
[root@jenkins ~]# dnf install jenkins -y
Jenkins-stable
Dependencies resolved.
=====
 Package           Architecture      Version       Repository      Size
 =====
 Installing:
 jenkins          noarch          2.462.2-1.1   jenkins        89 M
 Transaction Summary
 =====
 Install 1 Package

Total download size: 89 M
Installed size: 89 M
Downloading Packages:

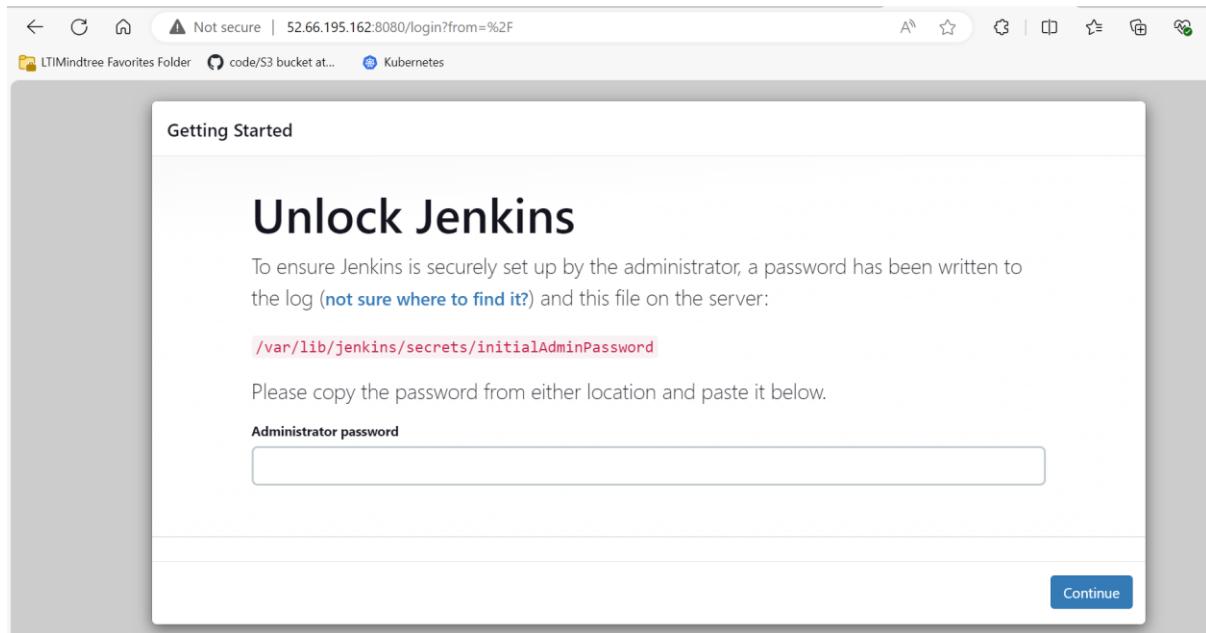
```

```

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

```

Paste the public IP of your Jenkins server on a new browser along with :8080



Paste the highlighted url with cat on the terminal

```

[root@jenkins ~]# cat /var/lib/jenkins/secrets/initialAdminPassword
130388db43064529a7841636d7dca40e
[root@jenkins ~]#

```

Click on installed plugins

Getting Started

Getting Started

Folders				Formatter	Ant	Gradle	View
✓ Timestamper	✓ Workspace Cleanup	✓ Ant	✓ Gradle				** View
⌚ Pipeline	⌚ GitHub Branch Source	⌚ Pipeline: GitHub Groovy Libraries	⌚ Pipeline Graph View				** Durable Task ** Pipeline: Nodes and Processes ** Pipeline: SCM Step ** Pipeline: Groovy ** Pipeline: Job ** Jakarta Activation API ** Jakarta Mail API ** Apache HttpComponents Client 4.x API ** Instance Identity
⌚ Git	⌚ SSH Build Agents	⌚ Matrix Authorization Strategy	⌚ PAM Authentication				Mailer ** Pipeline: Basic Steps Gradle ** Pipeline: Milestone Step ** - required dependency
⌚ LDAP	⌚ Email Extension	✓ Mailer	⌚ Dark Theme				

Jenkins 2.462.2

Enter your credentials

Getting Started

Create First Admin User

Username

Password

Confirm password

Jenkins 2.462.2

[Skip and continue as admin](#)

[Save and Continue](#)

After you click save and finish

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

[Start using Jenkins](#)

Jenkins 2.462.2

The screenshot shows the Jenkins dashboard. At the top, there's a navigation bar with the Jenkins logo, a search bar, and a user dropdown for 'Mahek Somnath Shetty'. A tooltip is visible over the user dropdown, listing 'Builds', 'Configure', 'My Views', and 'Credentials'. Below the bar, the main content area has a heading 'Welcome to Jenkins!'. It includes a message: 'This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.' There are several buttons and sections: 'New Item', 'Build History', 'Manage Jenkins', 'My Views', 'Build Queue' (with a note 'No builds in the queue.'), 'Build Executor Status' (showing 1 Idle and 2 Idle), 'Create a job' (with a '+' button), 'Set up a distributed build', 'Set up an agent', and 'Configure a cloud'. The URL '52.66.195.162:8080/user/mahek_032/configure' is visible at the bottom left.

Dashboard > Mahek Somnath Shetty > Configure

Plain text [Preview](#)

API Token

Current token(s) [?](#)

project-1	116bcfafbd818e97b53ff85b17f6c98f1df		
-----------	-------------------------------------	--	--

⚠️ Copy this token now, because it cannot be recovered in the future.

[Add new Token](#)

Console URL Provider

Controls what visualization tool handles build console links. Providers higher in the list take precedence over providers lower in the list. All providers configured here take precedence over those configured globally by administrators.

Action [Add](#) [Save](#) [Apply](#)

<> Code ⌂ Issues ⌂ Pull requests ⌂ Actions ⌂ Projects ⌂ Wiki ⌂ Security ⌂ Insights ⌂ **Settings**

General

Access
Collaborators
Moderation options

Code and automation
Branches
Tags
Rules
Actions
Webhooks
Environments
Codespaces
Pages

Webhooks / Add webhook

We'll send a **POST** request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, etc). More information can be found in [our developer documentation](#).

Payload URL *

Content type *

Secret

SSL verification
 By default, we verify SSL certificates when delivering payloads.
 Enable SSL verification **Disable (not recommended)**

Jenkins Search (CTRL+K) Mahek Somnath Shetty

Dashboard > All > New Item

New Item

Enter an item name

Select an item type

Freestyle project
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

[OK](#)

Dashboard > Project-1 > Configuration

Configure

Plain text [Preview](#)

General

Discard old builds ?

GitHub project

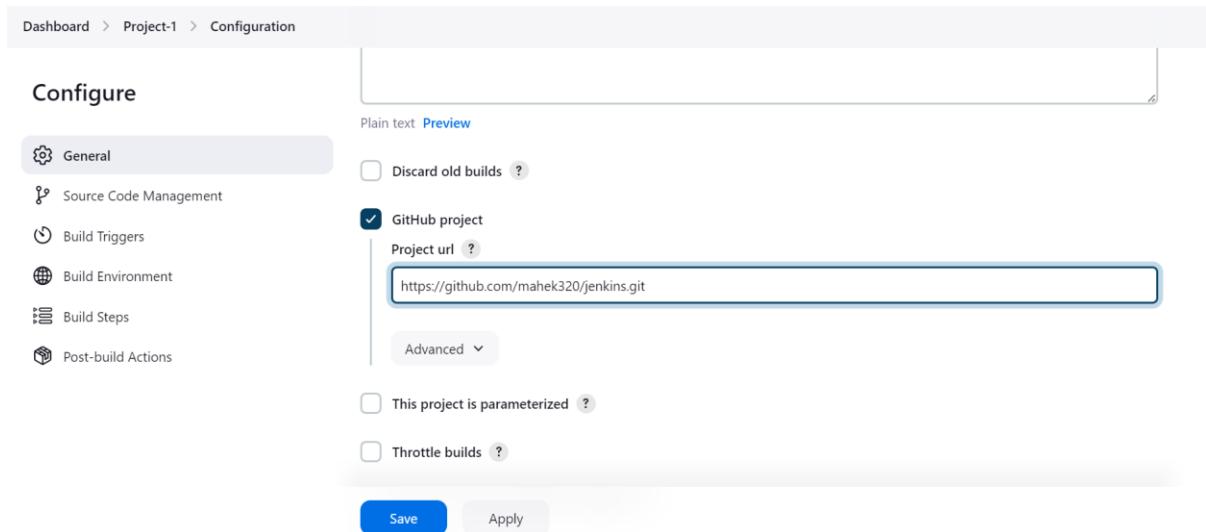
Project url ?
https://github.com/mahek320/jenkins.git

Advanced ▾

This project is parameterized ?

Throttle builds ?

[Save](#) [Apply](#)



Dashboard > Project-1 >

Project-1

Status

</> Changes

Workspace

Build Now

Configure

Delete Project

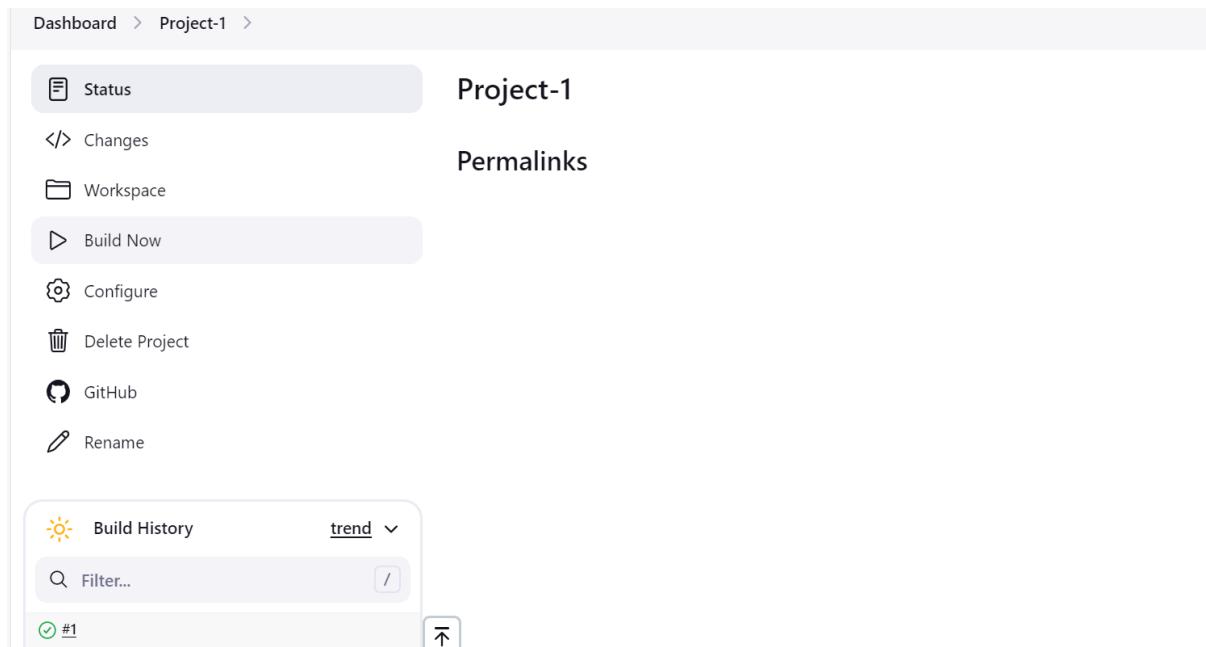
GitHub

Rename

Build History trend ▾

Filter... /

#1



Install maven

```
[root@jenkins ~]# yum install maven -y
Last metadata expiration check: 0:18:38 ago on Sun Sep 29 14:18:12 2024.
Dependencies resolved.
=====
 Package           Architecture Version   R
=====
Installing:
 maven            noarch      1:3.8.4-3.amzn2023.0.5   a
Installing dependencies:
 apache-commons-cli noarch      1.5.0-3.amzn2023.0.3   a
 apache-commons-codec noarch      1.15-6.amzn2023.0.3   a
 apache-commons-io  noarch      1:2.8.0-7.amzn2023.0.4   a
 apache-commons-lang3 noarch      3.12.0-7.amzn2023.0.3   a
 atinject          noarch      1.0.5-3.amzn2023.0.3   a
 cdi-api           noarch      2.0.2-6.amzn2023.0.3   a
 google-guice     noarch      4.2.3-8.amzn2023.0.6   a
```

```
[root@jenkins ~]# mvn -v
Apache Maven 3.8.4 (Red Hat 3.8.4-3.amzn2023.0.5)
Maven home: /usr/share/maven
Java version: 17.0.12, vendor: Amazon.com Inc., runtime: /usr/lib/jvm/java-17-amazon-corretto.x86_64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.1.109-118.189.amzn2023.x86_64", arch: "amd64", family: "unix"
```

Dashboard > Manage Jenkins > Tools

JDK installations

Add JDK

JDK

Name: Java_home

JAVA_HOME: /usr/lib/jvm/java-17-amazon-corretto.x86_64

Install automatically ?

Save **Apply**

Dashboard > Manage Jenkins > Tools

Add Maven

Maven

Name: maven_home

MAVEN_HOME: /usr/share/maven

Install automatically ?

Add Maven

Save **Apply**

Jenkins

Search (CTRL+K) **?** Mahek Somnath Shetty log out

Dashboard > Manage Jenkins > Plugins

Plugins

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

Q: mav

Install Name Released

<input checked="" type="checkbox"/>	Maven Integration 3.23	Build Tools	1 yr 1 mo ago
This plugin provides a deep integration between Jenkins and Maven. It adds support for automatic triggers between projects depending on SNAPSHOTs as well as the automated configuration of various Jenkins publishers such as Junit.			
<input type="checkbox"/>	Config File Provider 978.v8e85886ffdc4	Groovy-related External Site/Tool Integrations Maven	20 days ago
Ability to provide configuration files (e.g. settings.xml for maven, XML, groovy, custom)			

Disable git branch and git plugin will enable automatically. Then click on restart once no jobs are running

The screenshot shows the Jenkins 'Plugins' page. A search bar at the top has 'git' typed into it. Below the search bar, there is a message: 'This plugin provides GitHub API for other plugins.' and a link 'Report an issue with this plugin'. To the right of the message is a toggle switch which is off, and a red 'x' icon. Below this, three other plugins are listed: 'GitHub Branch Source Plugin' (version 1797.v86fdb_4d57d43), 'GitHub plugin' (version 1.40.0), and 'Pipeline: GitHub Groovy Libraries' (version 61.v629f2cc41d83). Each of these also has a toggle switch (off) and a red 'x' icon. At the bottom of the page, there is a warning message: '⚠ Changes will take effect when you restart Jenkins' followed by a blue button 'Restart Once No Jobs Are Running'.

The screenshot shows the Jenkins 'New Item' creation page. The title is 'New Item'. There is a text input field labeled 'Enter an item name' containing 'maven-project'. Below it, there is a section 'Select an item type' with three options: 'Freestyle project' (classic job type), 'Maven project' (selected and highlighted with a border), and 'Pipeline' (orchestrates long-running activities). At the bottom of this section is a blue 'OK' button.

The screenshot shows the Jenkins 'maven-project' configuration page under 'Configuration'. On the left, a sidebar lists various configuration sections: General, Source Code Management (selected and highlighted with a border), Build Triggers, Build Environment, Pre Steps, Build, Post Steps, Build Settings, and Post-build Actions. The 'Source Code Management' section contains fields for 'Repository URL' (set to 'https://github.com/mahek320/jenkins.git') and 'Credentials' (set to '- none -'). There is also an 'Advanced' dropdown and a 'Add Repository' button. At the bottom of this section are 'Save' and 'Apply' buttons. To the right of the configuration section, there is a dashed box labeled 'Branches to build'.

Dashboard > maven-project > Configuration

Configure

- General
- Source Code Management**
- Build Triggers
- Build Environment

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/main

Dashboard > maven >

Maven project maven

- Status
- </> Changes
- Workspace
- Build Now
- Configure
- Delete Maven project
- Modules
- Rename

Permalinks

Build History trend ▾

Filter... /

#1

Now open terminal for TOMCAT

```
[root@tomcat ~]# dnf install java-17-amazon-corretto -y
Last metadata expiration check: 0:34:05 ago on Sun Sep 29 16:23:23 2024.
Dependencies resolved.
=====
Transaction Summary
=====
Installing:
  java-17-amazon-corretto           x86_64      1:17.0.12+7-1.amzn2023.1      amazonlinux      187 k
Installing dependencies:
  alsa-lib                            x86_64      1.2.7.2-1.amzn2023.0.2        amazonlinux      504 k
  cairo                               x86_64      1.17.6-2.amzn2023.0.1        amazonlinux      684 k
  dejavu-sans-fonts                  noarch     2.37-16.amzn2023.0.2        amazonlinux      1.3 M
  dejavu-sans-mono-fonts             noarch     2.37-16.amzn2023.0.2        amazonlinux      467 k
  dejavu-serif-fonts                noarch     2.37-16.amzn2023.0.2        amazonlinux      1.0 M
  fontconfig                          x86_64      2.13.94-2.amzn2023.0.2       amazonlinux      273 k
  fonts-filenamesystem               noarch     1:2.0.5-12.amzn2023.0.2       amazonlinux      9.5 k
  freetype                           x86_64      2.13.2-5.amzn2023.0.1       amazonlinux      423 k
  giflib                             x86_64      5.2.1-9.amzn2023.0.1        amazonlinux      49 k
  google-noto-fonts-common          noarch     20201206-2.amzn2023.0.2       amazonlinux      15 k
  google-noto-sans-vf-fonts         noarch     20201206-2.amzn2023.0.2       amazonlinux      492 k
=====

[root@tomcat ~]# cd /opt
[root@tomcat opt]# wget https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.95/bin/apache-tomcat-9.0.95.tar.gz
--2024-09-29 17:02:01-- https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.95/bin/apache-tomcat-9.0.95.tar.gz
Resolving dlcdn.apache.org (dlcdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to dlcdn.apache.org (dlcdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 12715996 (12M) [application/x-gzip]
Saving to: 'apache-tomcat-9.0.95.tar.gz'

apache-tomcat-9.0.95.tar.gz    100%[=====] 12.13M --.-KB/s   in 0.08s

2024-09-29 17:02:02 (150 MB/s) - 'apache-tomcat-9.0.95.tar.gz' saved [12715996/12715996]

[root@tomcat opt]# ls
apache-tomcat-9.0.95.tar.gz  aws
[root@tomcat opt]# tar -xvf apache-tomcat-9.0.95.tar.gz
apache-tomcat-9.0.95/conf/
apache-tomcat-9.0.95/conf/catalina.policy
apache-tomcat-9.0.95/conf/catalina.properties
```

```
[root@tomcat opt]# tar -xvzf apache-tomcat-9.0.95.tar.gz
apache-tomcat-9.0.95/conf/
apache-tomcat-9.0.95/conf/catalina.policy
apache-tomcat-9.0.95/conf/catalina.properties
apache-tomcat-9.0.95/conf/context.xml
apache-tomcat-9.0.95/conf/jaspic-providers.xml
apache-tomcat-9.0.95/conf/jaspic-providers.xsd
apache-tomcat-9.0.95/conf/logging.properties
apache-tomcat-9.0.95/conf/server.xml
apache-tomcat-9.0.95/conf/tomcat-users.xml
apache-tomcat-9.0.95/conf/tomcat-users.xsd
apache-tomcat-9.0.95/conf/web.xml
apache-tomcat-9.0.95/bin/
apache-tomcat-9.0.95/lib/
apache-tomcat-9.0.95/logs/
apache-tomcat-9.0.95/temp/
apache-tomcat-9.0.95/webapps/
apache-tomcat-9.0.95/webapps/ROOT/
apache-tomcat-9.0.95/webapps/ROOT/WEB-INF/
```

```
apache-tomcat-9.0.95/bin/version.sh
[root@tomcat opt]# ls
apache-tomcat-9.0.95 apache-tomcat-9.0.95.tar.gz aws
[root@tomcat opt]# cd apache-tomcat-9.0.95
[root@tomcat apache-tomcat-9.0.95]# cd bin
[root@tomcat bin]# ./startup.sh
Using CATALINA_BASE:  /opt/apache-tomcat-9.0.95
Using CATALINA_HOME:  /opt/apache-tomcat-9.0.95
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.95/temp
Using JRE_HOME:      /usr
Using CLASSPATH:     /opt/apache-tomcat-9.0.95/bin/bootstrap.jar:/opt/apache-tomcat-9.0.95/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
```

```
[root@tomcat apache-tomcat-9.0.95]# find / -name context.xml
/opt/apache-tomcat-9.0.95/conf/context.xml
/opt/apache-tomcat-9.0.95/webapps/docs/META-INF/context.xml
/opt/apache-tomcat-9.0.95/webapps/examples/META-INF/context.xml
/opt/apache-tomcat-9.0.95/webapps/host-manager/META-INF/context.xml
/opt/apache-tomcat-9.0.95/webapps/manager/META-INF/context.xml
[root@tomcat apache-tomcat-9.0.95]# vim /opt/apache-tomcat-9.0.95/webapps/host-manager/META-INF/context.xml
[root@tomcat apache-tomcat-9.0.95]# 24L, 1354B written
[root@tomcat apache-tomcat-9.0.95]# vim /opt/apache-tomcat-9.0.95/webapps/manager/META-INF/context.xml
```

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
    Licensed to the Apache Software Foundation (ASF) under one or more
    contributor license agreements. See the NOTICE file distributed with
    this work for additional information regarding copyright ownership.
    The ASF licenses this file to You under the Apache License, Version 2.0
    (the "License"); you may not use this file except in compliance with
    the License. You may obtain a copy of the License at

        http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.
-->
<Context antiResourceLocking="false" privileged="true" >
    <CookieProcessor className="org.apache.tomcat.util.http.Rfc6265CookieProcessor"
        sameSiteCookies="strict" />
    <!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"
    allow="127\\.\\d+\\.\\d+\\.\\d+|1[0:0:0:0:0:1]" /> -->
    <Manager sessionAttributeValueClassNameFilter="java\\.lang\\.\\{Boolean|Integer|Long|Number|String}|org\\.apache\\.catalina\\.filters\\.C
srpPreventionFilter\\$LruCache\\{\\$1}\\?\\{java\\.util\\.(?:Linked)HashMap\\}" />
</Context>
~
~
~
```

```
[root@tomcat conf]# ls
Catalina          catalina.properties  jaspic-providers.xml  logging.properties  tomcat-users.xml  web.xml
catalina.policy   context.xml         jaspic-providers.xsd  server.xml           tomcat-users.xsd
[root@tomcat conf]# vim tomcat-users.xml
[root@tomcat conf]# cd bin
```

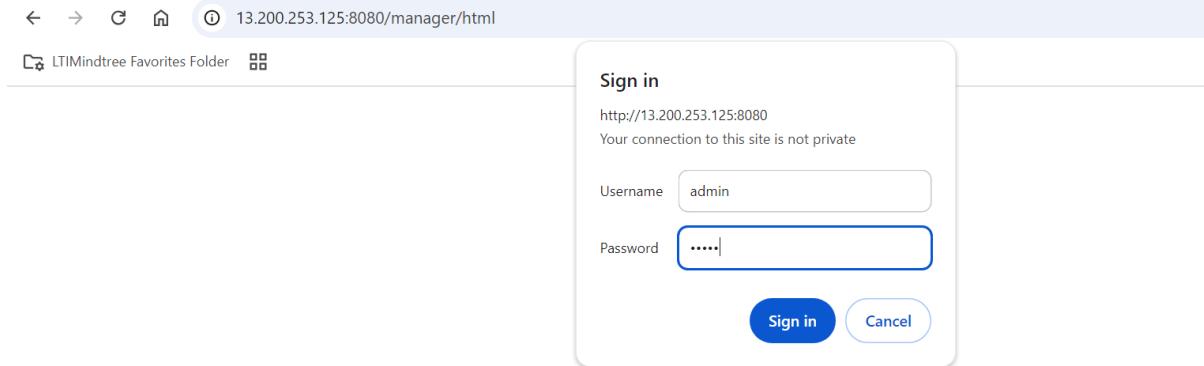
```

wish to configure one or more of these users for use with the manager web
application, do not forget to remove the <!... .> that surrounds them. You
will also need to set the passwords to something appropriate.
-->
<!--
<user username="admin" password="" roles="manager-gui"/>
<user username="robot" password="" roles="manager-script"/>
-->
<!--
The sample user and role entries below are intended for use with the
examples web application. They are wrapped in a comment and thus are ignored
when reading this file. If you wish to configure these users for use with the
examples web application, do not forget to remove the <!... .> that surrounds
them. You will also need to set the passwords to something appropriate.
-->
<!--
<role rolename="tomcat"/>
<role rolename="role1"/>
<user username="tomcat" password="" roles="tomcat"/>
<user username="both" password="" roles="tomcat,role1"/>
<user username="role1" password="" roles="role1"/>
-->

<role rolename="manager-gui"/>
<role rolename="manager-script"/>
<role rolename="manager-jmx"/>
<role rolename="manager-status"/>
<user username="admin" password="admin" roles="manager-gui, manager-script, manager-jmx, manager-status"/>
<user username="developer" password="developer" roles="manager-script"/>
<user username="tomcat" password="s3cret" roles="manager-gui"/>

</tomcat-users>
:wq!

```



```
[root@tomcat apache-tomcat-9.0.95]# ls
BUILDING.txt CONTRIBUTING.md LICENSE NOTICE README.md RELEASE-NOTES RUNNING.txt bin conf lib logs temp webapps work
[root@tomcat apache-tomcat-9.0.95]# cd bin
[root@tomcat bin]# ./shutdown.sh
Using CATALINA_BASE:  /opt/apache-tomcat-9.0.95
Using CATALINA_HOME:  /opt/apache-tomcat-9.0.95
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.95/temp
Using JRE_HOME:      /usr
Using CLASSPATH:     /opt/apache-tomcat-9.0.95/bin/bootstrap.jar:/opt/apache-tomcat-9.0.95/bin/tomcat-juli.jar
Using CATALINA_OPTS:
NOTE: Picked up JDK_JAVA_OPTIONS: --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens=
java.base/java.util=ALL-UNNAMED --add-opens=java.base/java.util.concurrent=ALL-UNNAMED --add-opens=java.rmi/sun.rmi.transport=ALL-UNN
AMED
[root@tomcat bin]# ./startup.sh
Using CATALINA_BASE:  /opt/apache-tomcat-9.0.95
Using CATALINA_HOME:  /opt/apache-tomcat-9.0.95
```

The screenshot shows the Jenkins Plugins management interface. On the left, there's a sidebar with links for Updates, Available plugins (which is selected and highlighted in grey), Installed plugins, and Advanced settings. The main area has a search bar at the top with the placeholder "Search (CTRL+K)". Below it, there's a toolbar with a magnifying glass icon, a question mark icon, a shield icon with a red dot, the user name "Mahek Somnath Shetty", and a "log out" link. The main content area is titled "Plugins" and shows a list of available plugins. The first plugin listed is "Deploy to container" version 1.16, which is marked as "Installed". It has a brief description: "This plugin allows you to deploy a war to a container after a successful build. Glassfish 3.x remote deployment". To the right of the plugin details, it says "Released 3 yr 11 mo ago". There are two other plugins listed: "Docker Pipeline" and "Artifactory", both of which are currently not installed.

Install	Name	Released
<input checked="" type="checkbox"/>	Deploy to container 1.16 Artifact Uploader	3 yr 11 mo ago
<input type="checkbox"/>	Docker Pipeline 580.vc0c340686b_54 pipeline DevOps Deployment docker	4 mo 10 days ago
<input type="checkbox"/>	Artifactory 4.0.8 pipeline	

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

Kind: Username with password

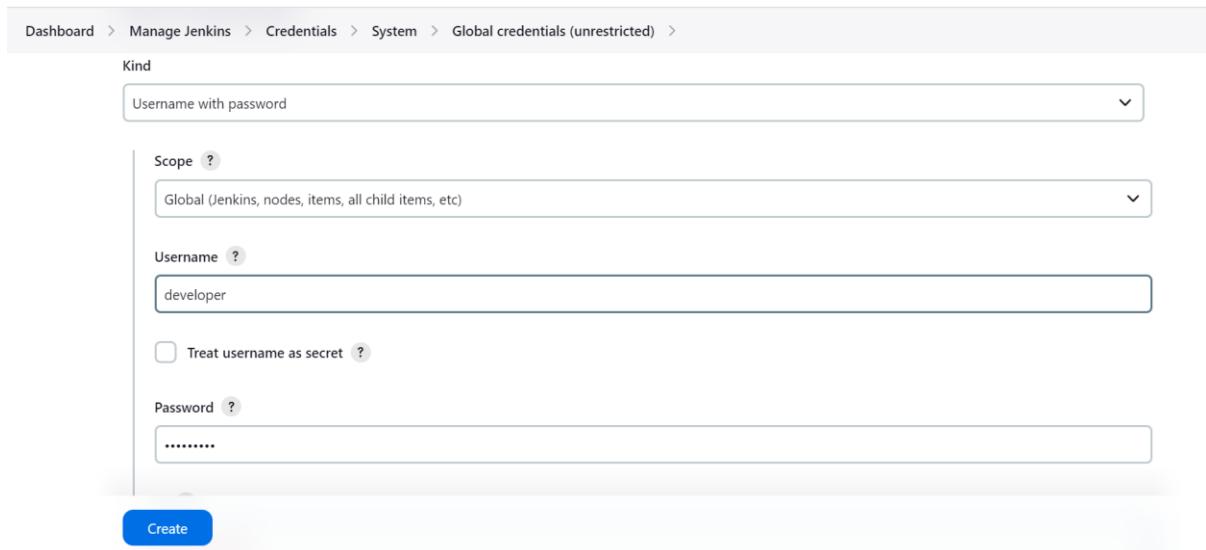
Scope: Global (Jenkins, nodes, items, all child items, etc)

Username: developer

Treat username as secret

Password:

Create



Dashboard > tomcat_server > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Pre Steps
- Build
- Post Steps
- Build Settings

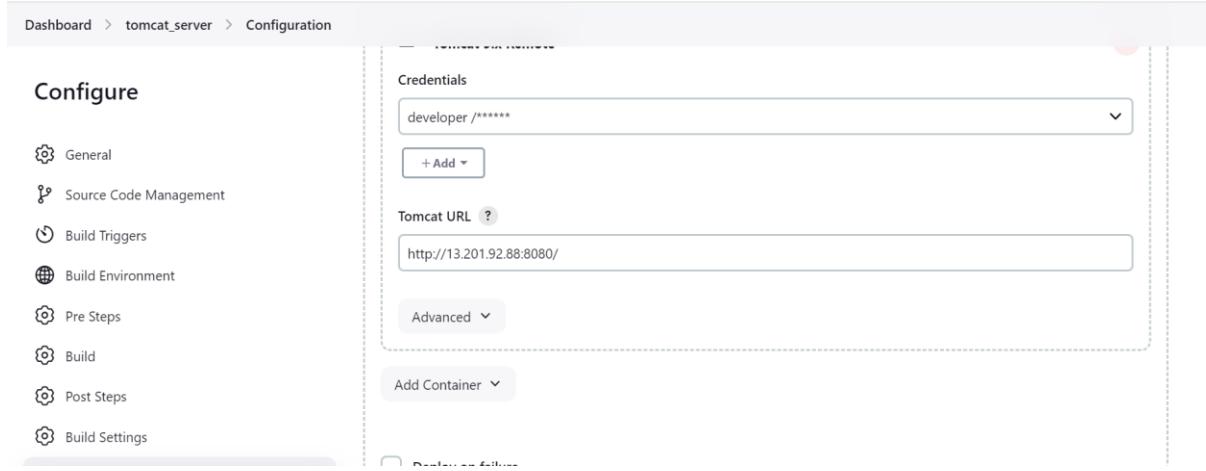
Credentials: developer /******

+ Add

Tomcat URL: http://13.201.92.88:8080/

Advanced

Add Container



Dashboard > tomcat_server1 >

Workspace

Build Now

Configure

Delete Maven project

Modules

GitHub Hook Log

Rename

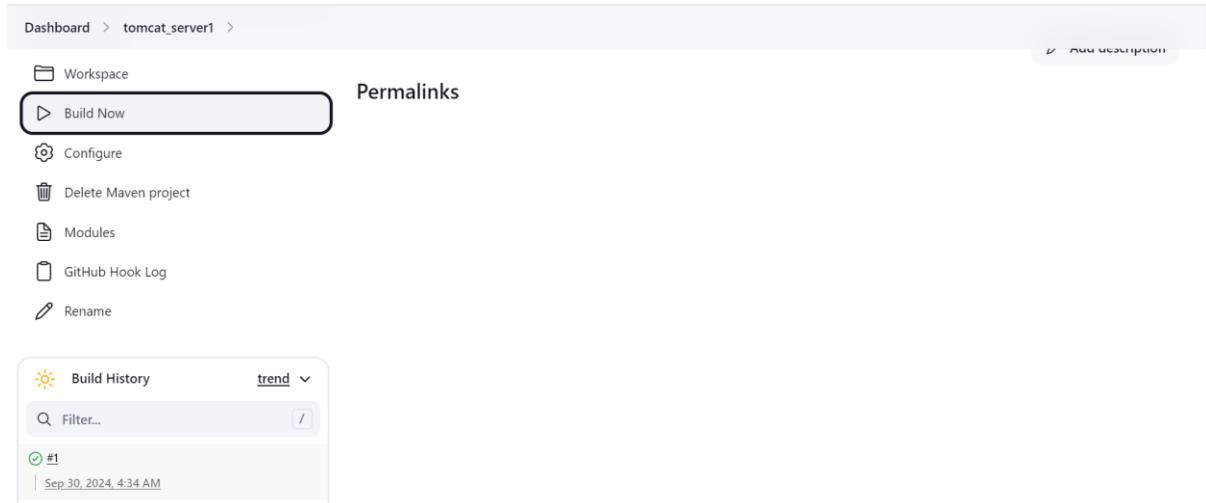
Build History: trend

Filter...

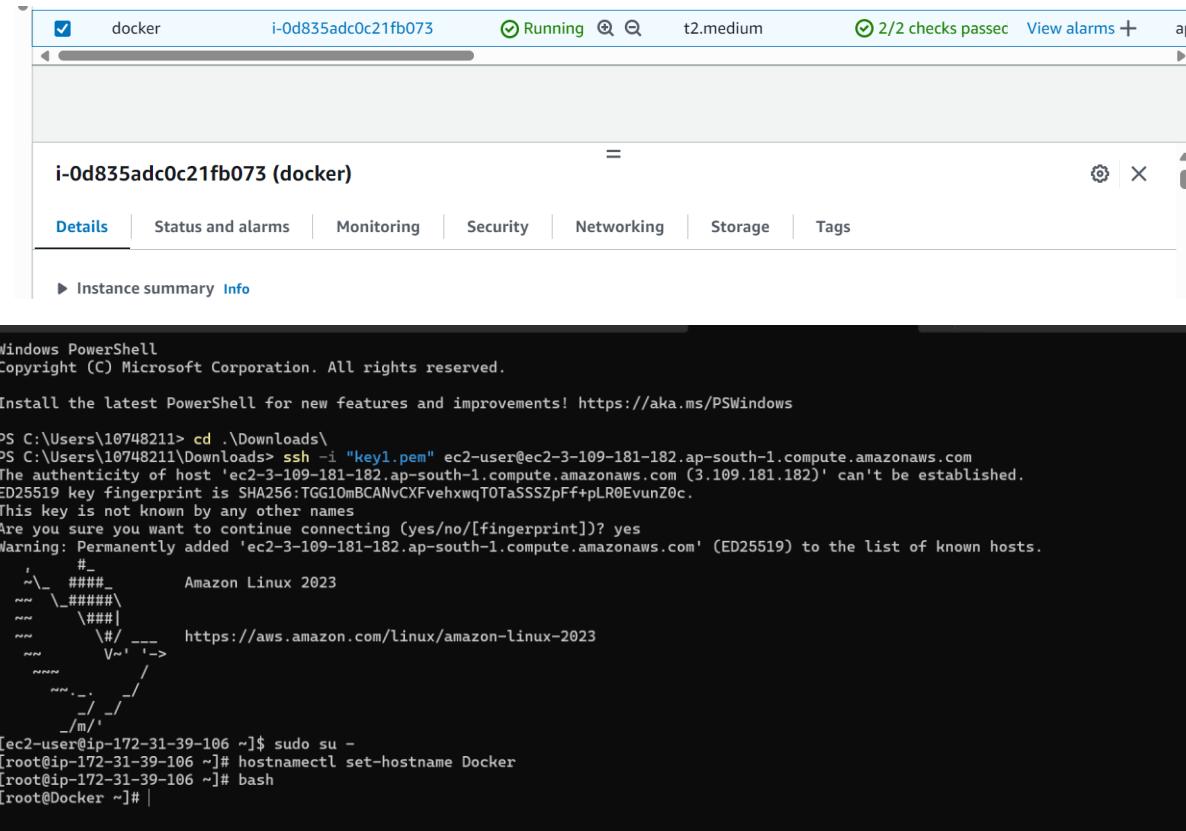
#1 | Sep 30, 2024, 4:34 AM

Permalinks

Add description



Create a new docker instance and connect it to terminal



```
[root@Docker ~]# yum update -y
Last metadata expiration check: 0:03:08 ago on Mon Sep 30 04:36:42 2024.
Dependencies resolved.
Nothing to do.
Complete!
[root@Docker ~]# yum install -y docker
Last metadata expiration check: 0:03:19 ago on Mon Sep 30 04:36:42 2024.
Dependencies resolved.
=====
Package           Architecture      Version       Repository   Size
=====
Installing:
docker            x86_64          25.0.6-1.amzn2023.0.2    amazonlinux  44 M
Installing dependencies:
containerd        x86_64          1.7.20-1.amzn2023.0.1    amazonlinux  35 M
iptables-libs    x86_64          1.8.8-3.amzn2023.0.2    amazonlinux  401 k
iptables-nft     x86_64          1.8.8-3.amzn2023.0.2    amazonlinux  183 k
libcgroup         x86_64          3.0-1.amzn2023.0.1     amazonlinux  75 k
libnetfilter_conntrack x86_64          1.0.8-2.amzn2023.0.2    amazonlinux  58 k
util-linux         x86_64          3.18.1-12.amzn2023.0.2   amazonlinux  58 k
```

```
[root@Docker ~]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@Docker ~]# docker ps
CONTAINER ID   IMAGE      COMMAND   CREATED     STATUS      PORTS     NAMES
[root@Docker ~]# ssh-keygen
Generating public/private rsa key pair.

Enter file in which to save the key (/root/.ssh/id_rsa): Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:tdb2TxP00H/RzDetJL7dclsCpuickfAhvGSHuoMBf8M root@Docker
The key's randomart image is:
+---[RSA 3072]----+
| .o.. o |
| =+.+ o . +=|
| o . + o= o ..+0@|
| o E .o + o. ==X|
| + o S o o. o+|
| . o . . . o|
| |
```

```
-----[SHA256]-----
[root@Docker ~]# aws configure
AWS Access Key ID [None]: AKIAZDZTBZG7FPUJRTNB
AWS Secret Access Key [None]: 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
Default region name [None]: ap-south-1
Default output format [None]: table
[root@Docker ~]# |
```

Establish SSH-connection for both docker and jenkins

```
[root@jenkins ~]# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:ELFMxrpa+o4BiqVPFcblzl351uyPRjMwxsb0xP0lFFU root@jenkins
The key's randomart image is:
-----[RSA 3072]----+
|   o=+ . . +|
| . o oo .. + +|
| + o. o+ o =E|
| . +.o . Boo .|
| o . +.S oooo |
|.+ o o. . . + |
|+ . . + . .o |
| o oo . .o |
| . .oo . . . |
-----[SHA256]----+
[root@jenkins ~]# cd /etc/ssh
[root@jenkins ssh]# vim sshd_config
```

```
# Authentication:
#LoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

PubkeyAuthentication yes

# The default is to check both .ssh/authorized_keys and .ssh/authorized_keys2
# but this is overridden so installations will only check .ssh/authorized_keys
AuthorizedKeysFile      .ssh/authorized_keys

#AuthorizedPrincipalsFile none

# For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#HostbasedAuthentication no
# Change to yes if you don't trust ~/.ssh/known_hosts for
# HostbasedAuthentication
#IgnoreUserKnownHosts no
# Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes

# Explicitly disable PasswordAuthentication. By presetting it, we
# avoid the cloud-init set_passwords module modifying sshd_config and
# restarting sshd in the default instance launch configuration.
PasswordAuthentication yes
PermitEmptyPasswords no
```

```
[root@jenkins ~]# systemctl restart sshd
[root@jenkins ~]# passwd
Changing password for user root.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@jenkins ~]# |
```

```
[root@jenkins ~]# ssh-copy-id root@172.31.39.106
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa.pub"
The authenticity of host '172.31.39.106' (172.31.39.106) can't be established.
ED25519 key fingerprint is SHA256:TGG10mBCANvCXFvexhwqTOTaSSS2pFf+pLR0EvunZ0c.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
root@172.31.39.106's password:
```

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'root@172.31.39.106'"
and check to make sure that only the key(s) you wanted were added.

```
[root@jenkins ~]# ip a s
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
```

```
vatid_ltt resolve preferred_ttt forever
[root@jenkins ~]# ssh-copy-id root@172.31.47.212
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa.pub"
The authenticity of host '172.31.47.212' (172.31.47.212) can't be established.
ED25519 key fingerprint is SHA256:EZ2KocmyqN0kZE0y0V13gG45MjGo0JNBfidRd99b31Q.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
root@172.31.47.212's password:
```

```
[root@jenkins ~]# cd .ssh
[root@jenkins .ssh]# cat authorized_keys
no-port-forwarding,no-agent-forwarding,no-X11-forwarding,command="echo 'Please login as the user \"ec2-user\" rather than the user \"root\"'";echo sleep 10;exit 14" AAAAB3NzaC1yc2EAAAQABAAQbGQzK6jR7n630+iwCpRF57NEhYZFR6iAlfe0ZBZ6ndpb4vLF15f6QKwK8gndaAt0f0e+ro3npW1GQV0o3W4DZj2wXPryf/fcG9R7cWMSyn9U12vFIj1l6jnq2bwSp04903Tzb9obzLl1eQPCeDaHtMdReBoQavr3Cv+esXG6GP0l6/07CwsDl0+howJwGLY0Lz+dLk/weNabnjnzA4bNWlysdK2dasXCrNzYXmsUatMvzNeTFKnv0UeEzEtau7U+t5smPYL6ghw8x/RMlhAKjZNVwcqjXYmf+NqDqKd28R9zMnEvCGdbAE5Z6Xy+iefcWB5FktYmXwZERLcc+EKhcvEo5mRctrQLH2xw40gnok6xu5sdEHmBm3yA5zmUbh1BVjIBL4rE9jPD7K5hp9dP2u3B7q0g4D/qBMMW8m9trEkaHOEnkW1V+7Inh5xdVs0B+2NvVroxnm9AwLQnVrl51GyrClyjuw5DIiJp0p6yceMA1St3gPgM= root@jenkins
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQbGQzK6jR7n630+iwCpRF57NEhYZFR6iAlfe0ZBZ6ndpb4vLF15f6QKwK8gndaAt0f0e+ro3npW1GQV0o3W4DZj2wXPryf/fcG9R7cWMSyn9U12vFIj1l6jnq2bwSp04903Tzb9obzLl1eQPCeDaHtMdReBoQavr3Cv+esXG6GP0l6/07CwsDl0+howJwGLY0Lz+dLk/weNabnjnzA4bNWlysdK2dasXCrNzYXmsUatMvzNeTFKnv0UeEzEtau7U+t5smPYL6ghw8x/RMlhAKjZNVwcqjXYmf+NqDqKd28R9zMnEvCGdbAE5Z6Xy+iefcWB5FktYmXwZERLcc+EKhcvEo5mRctrQLH2xw40gnok6xu5sdEHmBm3yA5zmUbh1BVjIBL4rE9jPD7K5hp9dP2u3B7q0g4D/qBMMW8m9trEkaHOEnkW1V+7Inh5xdVs0B+2NvVroxnm9AwLQnVrl51GyrClyjuw5DIiJp0p6yceMA1St3gPgM= root@jenkins
[root@jenkins .ssh]# |
```

```
[root@Docker ~]# cd .ssh
[root@Docker .ssh]# cat authorized_keys
no-port-forwarding,no-agent-forwarding,no-X11-forwarding,command="echo 'Please login as the user \"ec2-user\" rather than the user \"root\"'";echo sleep 10;exit 14" AAAAB3NzaC1yc2EAAAQABAAQbGQzK6jR7n630+iwCpRF57NEhYZFR6iAlfe0ZBZ6ndpb4vLF15f6QKwK8gndaAt0f0e+ro3npW1GQV0o3W4DZj2wXPryf/fcG9R7cWMSyn9U12vFIj1l6jnq2bwSp04903Tzb9obzLl1eQPCeDaHtMdReBoQavr3Cv+esXG6GP0l6/07CwsDl0+howJwGLY0Lz+dLk/weNabnjnzA4bNWlysdK2dasXCrNzYXmsUatMvzNeTFKnv0UeEzEtau7U+t5smPYL6ghw8x/RMlhAKjZNVwcqjXYmf+NqDqKd28R9zMnEvCGdbAE5Z6Xy+iefcWB5FktYmXwZERLcc+EKhcvEo5mRctrQLH2xw40gnok6xu5sdEHmBm3yA5zmUbh1BVjIBL4rE9jPD7K5hp9dP2u3B7q0g4D/qBMMW8m9trEkaHOEnkW1V+7Inh5xdVs0B+2NvVroxnm9AwLQnVrl51GyrClyjuw5DIiJp0p6yceMA1St3gPgM= root@jenkins
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQbGQzK6jR7n630+iwCpRF57NEhYZFR6iAlfe0ZBZ6ndpb4vLF15f6QKwK8gndaAt0f0e+ro3npW1GQV0o3W4DZj2wXPryf/fcG9R7cWMSyn9U12vFIj1l6jnq2bwSp04903Tzb9obzLl1eQPCeDaHtMdReBoQavr3Cv+esXG6GP0l6/07CwsDl0+howJwGLY0Lz+dLk/weNabnjnzA4bNWlysdK2dasXCrNzYXmsUatMvzNeTFKnv0UeEzEtau7U+t5smPYL6ghw8x/RMlhAKjZNVwcqjXYmf+NqDqKd28R9zMnEvCGdbAE5Z6Xy+iefcWB5FktYmXwZERLcc+EKhcvEo5mRctrQLH2xw40gnok6xu5sdEHmBm3yA5zmUbh1BVjIBL4rE9jPD7K5hp9dP2u3B7q0g4D/qBMMW8m9trEkaHOEnkW1V+7Inh5xdVs0B+2NvVroxnm9AwLQnVrl51GyrClyjuw5DIiJp0p6yceMA1St3gPgM= root@jenkins
[root@Docker .ssh]# |
```

Allow ICMP port rule in security groups for ping command

Dashboard > Manage Jenkins > System >

Publish over SSH

Jenkins SSH Key ?

Passphrase ?

Path to key ?

Key ?

```
-----BEGIN PGP PUBLIC KEY BLOCK-----[REDACTED]
5b72qSIXaMtCmXfjKHdgV6uRvrzHcfZXixPb+ohsssf9AAAAMEA2W50bZ9cBHgOTp
4leslpf8R+plrJfocXDSldLi4PN+fONpQxmuXdNMMPQWD0km1EnZaACEE32ml0XInwu
iO6sb8OTvmB3xj4xQ6j4i0ZM6CTjVfgWSAwZnde5WPSFaQCuYpqBLPI2cRW6XK1ap5Qu
GJWcQAD7ynRsQgrL5bxGE438gfYKFwpT8jh53AGVXExo814TktdbEO4OnGJ2+BWcyOJrv
bt7s+LdliiTaaDi0LUpUfn9iN9LrAAAawQDU3uuElxzEXYK9NbZiZY8trO86Fqlq617
```

Save

Apply

Add ssh-server

Dashboard > Manage Jenkins > System >

SSH Server

Name ?
jenkins

Hostname ?
172.31.47.212

Username ?
root

Remote Directory ?
/root

Dashboard > Manage Jenkins > System >

docker

Hostname ?
172.31.39.106

Username ?
root

Remote Directory ?
/root

Avoid sending files that have not changed ?

Advanced ▾

Amazon ECR > Private registry > Repositories > Create repository

Create private repository

General settings

Repository name
Provide a concise name. Repository names support namespaces, which is recommended for grouping similar repositories.
`626635426238.dkr.ecr.ap-south-1.amazonaws.com/ docker_ecr`

10 out of 256 characters maximum (2 minimum). The name must start with a letter and can only contain lowercase letters, numbers, and special characters `_.-/_`.

Image tag mutability [Info](#)
Specify the tag mutability setting to use. When tag immutability is turned on for a repository, tags are prevented from being overwritten.

Mutable
Image tags can be overwritten.

Immutable
Image tags are prevented from being overwritten.

Dashboard > tomcat_server1 > #1 > Console Output

Status [Download](#) [Copy](#) [View as plain text](#)

</> Changes

Console Output

Edit Build Information

Delete build '#1'

Timings

Git Build Data

Redeploy Artifacts

Test Result

See Fingerprints

Started by user Mahek Somnath Shetty
Running as SYSTEM
Building in workspace `/var/lib/jenkins/workspace/tomcat_server1`
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository <https://github.com/mahek320/jenkins.git>
> git init /var/lib/jenkins/workspace/tomcat_server1 # timeout=10
Fetching upstream changes from <https://github.com/mahek320/jenkins.git>
> git --version # timeout=10
> git -v
> git fetch --tags --force --progress -- <https://github.com/mahek320/jenkins.git>
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url <https://github.com/mahek320/jenkins.git> # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch

Dashboard > tomcat_server1 > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Pre Steps
- Build
- Post Steps
- Build Settings
- Post-build Actions

Either Source files, Exec command or both must be supplied

Remove prefix ?

Remote directory ?

`rsync -avh /var/lib/jenkins/workspace/tomcat_server1/* root@172.31.39.106:/opt`

Exec command ?

`rsync -avh /var/lib/jenkins/workspace/tomcat_server1/* root@172.31.39.106:/opt`

All of the transfer fields (except for Exec timeout) support substitution of [Jenkins environment variables](#)

Advanced ▾

Save

Apply

Dashboard > tomcat_server1 > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Pre Steps
- Build
- Post Steps
- Build Settings
- Post-build Actions**

Either Source files, Exec command or both must be supplied

Remove prefix ?

Remote directory ?

Exec command ?

```
cd /opt
aws ecr get-login-password --region ap-south-1 | docker login --username AWS --password-stdin
626635426238.dkr.ecr.ap-south-1.amazonaws.com
docker build -t docker_ecr .
docker tag docker_ecr:latest 626635426238.dkr.ecr.ap-south-1.amazonaws.com/docker_ecr:latest
docker push 626635426238.dkr.ecr.ap-south-1.amazonaws.com/docker_ecr:latest
```

Save **Apply**

Dashboard > tomcat_server1 >

- Delete Maven project
- Modules
- GitHub Hook Log
- Rename

Build History **trend** ▾

Filter... /

#2 Sep 30, 2024, 5:09 AM

Create ECS Cluster on the dashboard

Clusters

- Namespaces
- Task definitions
- Account settings
- Install AWS Copilot
- Amazon ECR
- Repositories
- AWS Batch

Cluster ECS-Cluster1 has been created successfully. **View cluster** X

Amazon Elastic Container Service > Clusters

Clusters (1) Info

Cluster	Services	Tasks	Container instances	CloudWatch Metrics
ECS-Cluster1	0	No tasks running	0 EC2	0 Metrics

Amazon Elastic Container Service

Clusters
Namespaces
Task definitions
Account settings

Install AWS Copilot

Amazon ECR
Repositories

AWS Batch

Create new task definition [Info](#)

Task definition configuration

Task definition family [Info](#)
Specify a unique task definition family name.
ecs-fam
Up to 255 letters (uppercase and lowercase), numbers, hyphens, and underscores are allowed.

▼ Infrastructure requirements
Specify the infrastructure requirements for the task definition.

Launch type [Info](#)
Selection of the launch type will change task definition parameters.

Amazon Elastic Container Service

Clusters
Namespaces
Task definitions
Account settings

Install AWS Copilot

Amazon ECR
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Repositories

AWS Batch

▼ Container - 1 [Info](#)

Container details
Specify a name, container image, and whether the container should be marked as essential. Each task definition must have at least one essential container.

Name Image URI Essential container

Private registry [Info](#)
Store credentials in Secrets Manager, and then use the credentials to reference images in private registries.
 Private registry authentication

Port mappings [Info](#)
Add port mappings to allow the container to access ports on the host to send or receive traffic. For port name, a default will be assigned if left blank.

Container port	Protocol	Port name	App protocol
80	TCP	container-port-prot	HTTP

[Remove](#)

Select an existing task definition. To create a new task definition, go to [Task definitions](#).

Specify the revision manually
Manually input the revision instead of choosing from the 100 most recent revisions for the selected task definition family.

Family: ecs-fam **Revision**: 1 (LATEST)

Service name: service
Assign a service name that is unique for this cluster.
Up to 255 letters (uppercase and lowercase), numbers, underscores, and hyphens are allowed. Service names must be unique within a cluster.

Service type: [Info](#)
Specify the service type that the service scheduler will follow.

Replica
Place and maintain a desired number of tasks across your cluster.

Daemon
Place and maintain one copy of your task on each container instance.

Tasks (1/1)

Task	Last status	Desired st...	T...	Health sta...	Started at	Co...
526f5...	Running	Running	ecs-...	Unknown	4 minutes ago	-

Containers for task 526f59f864f74a7393c7720e1297ccdf

Containers (1)

Filter containers
-

Add security group in services

Inbound rules (2)

Name	Security group rule...	IP version	Type	Prot
-	sgr-0df18cc3e455c15bd	-	All traffic	All
-	sgr-080aabf7533d73347	IPv4	All traffic	All

Paste the IP in format 65.2.33.96:8080/webapp/

Not secure | 65.2.33.96:8080/webapp/

LTMindtree Favorites Folder code/S3 bucket at... Kubernetes

New user Register for DevOps Learning at Virtual TechBox Youtube Channel Mahek SD Shetty

Please fill in this form to create an account.

Enter Name Enter Full Name

Enter mobile Enter mobile number

Enter Email Enter Email

Password Enter Password

Repeat Password Repeat Password

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Thank You, Happy Learning

See You Again