



# Git and jenkins project/DevOps

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# Launch an Instance

The screenshot shows the AWS Management Console interface for launching an EC2 instance. The top navigation bar includes the AWS logo, 'Services', a search bar, and a keyboard shortcut '[Alt+S]'. On the right, it shows the region 'N. Virginia' and the user 'Amos Ko'. Below the navigation bar, the 'EC2' and 'AWS Amplify' services are visible. The main content area is titled 'Launch an instance' with an 'Info' link. A descriptive paragraph states: 'Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.' The form is divided into sections: 'Name and tags' with a text input for 'Name' containing 'git-jenkins' and a button 'Add additional tags'; 'Application and OS Images (Amazon Machine Image)' with an 'Info' link and a descriptive paragraph; and a 'Summary' panel on the right. The 'Summary' panel includes a 'Number of Instances' input set to '1', a dropdown menu showing 't2.micro', a 'Firewall (security group)' section with 'New security group', and a 'Storage (volumes)' section showing '1 volume(s) - 8 GiB'. At the bottom of the summary panel are 'Cancel' and 'Launch instance' buttons, with a 'Review commands' link below the 'Launch instance' button.

**Launch an instance** [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags** [Info](#)

Name

git-jenkins [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

**Summary**

Number of Instances [Info](#)

1

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel **Launch instance**

[Review commands](#)

# Git-jenkins instance running

The screenshot displays the AWS Management Console interface. At the top, the navigation bar includes the AWS logo, 'Services', a search bar, and the region 'N. Virginia'. The left-hand navigation menu lists various EC2-related options: 'New EC2 Experience', 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Limits', 'Instances' (expanded), 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', and 'Dedicated Hosts'. The main content area is titled 'Instances (1) Info' and features a search bar with the text 'Find instance by attribute or tag (case-sensitive)'. Below the search bar, a filter is applied: 'Instance ID = i-0242a0cac13f275e3'. A table lists the instance details:

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	git-jenkins	<a href="#">i-0242a0cac13f275e3</a>	Running	t2.micro	Initializing	No alarms	us-east-1b

The bottom of the image features a decorative border of yellow hexagons, with the number '3' centered in the final hexagon on the right.

# Run the instance on terminal and install

## # yum install wget -y

```
ronix@ronix-koech:~$ ssh -i Downloads/my-new-key.pem ec2-user@54.147.55.92
The authenticity of host '54.147.55.92 (54.147.55.92)' can't be established.
ED25519 key fingerprint is SHA256:sv4GC45aACDMg8zmhKc13xdK34Got3BxLPFUvp2N4Mo.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '54.147.55.92' (ED25519) to the list of known hosts.
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
[ec2-user@ip-172-31-94-55 ~]$ sudo -i
[root@ip-172-31-94-55 ~]# yum install wget -y
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscription-manager to register.

Red Hat Enterprise Linux 9 for x86_64 - AppStream from RHUI (RPMs)           48 MB/s | 22 MB    00:00
Red Hat Enterprise Linux 9 for x86_64 - BaseOS from RHUI (RPMs)          42 MB/s | 13 MB    00:00
Red Hat Enterprise Linux 9 Client Configuration                          29 kB/s | 3.2 kB   00:00
Dependencies resolved.
=====
Package                        Architecture      Version           Repository        Size
=====
Installing:
wget                           x86_64            1.21.1-7.el9      rhel-9-appstream-rhui-rpms 794 k
=====
Transaction Summary
=====
Install 1 Package

Total download size: 794 k
Installed size: 3.1 M
Downloading Packages:
wget-1.21.1-7.el9.x86_64.rpm                                           16 MB/s | 794 kB   00:00
```

# Run sudo wget .....and install java-11

```
Complete!
[root@ip-172-31-94-55 ~]#
[root@ip-172-31-94-55 ~]# sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2023-06-30 19:48:42-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 146.75.34.133, 2a04:4e42:79::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|146.75.34.133|: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

2023-06-30 19:48:42 (5.95 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]

[root@ip-172-31-94-55 ~]# sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
[root@ip-172-31-94-55 ~]# sudo yum install java-11-openjdk
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscription-manager to register.

Jenkins-stable
Dependencies resolved.
190 kB/s | 26 kB    00:00
=====
Package                                Architecture      Version            Repository          Size
=====
Installing:
  java-11-openjdk                       x86_64            1:11.0.19.0.7-4.el9  rhel-9-appstream-rhui-rpms 443 k
Installing dependencies:
  libgcj11                               x86_64            1:11.0.19.0.7-4.el9  rhel-9-appstream-rhui-rpms 227 k
```

# Change directory and cd to yum.repos.id/

```
[root@ip-172-31-94-55 ~]# cd /etc
[root@ip-172-31-94-55 etc]# ls
adjtime          default          gshadow-        libssh          ostree          rpm             sysconfig
aliases          depmod.d        gss             libuser.conf   pam.d          rsyncd.conf     sysctl.conf
anacrontab       dhcp            hostname        locale.conf    passwd         rsyslog.conf    sysctl.d
asound.conf      dnf             hosts           login.defs     passwd-        rsyslog.d       systemd
audit            dracut.conf     inittab         logrotate.conf sasl2          rwtab.d         system-release
authselect       dracut.conf.d   inputrc         logrotate.d    security       sasl2           system-release-cpe
bash_completion.d egl             insights-client logrotate.d     selinux        security        terminfo
bashrc           environment     iproute2        machine-id     services       selinux        tmpfiles.d
binfmt.d         ethertypes     issue           makedumpfile.conf.sample popt.d         services       tpm2-tss
chkconfig.d      exports        issue.d         man_db.conf    sestatus.conf  shadow         tuned
chrony.conf      filesystems    java           microcode_ctl  sgml           shadow         udev
chrony.keys      flatpak        jvm            mke2fs.conf    sgml           shadow-        UPower
cifs-utils       fonts          jvm-common     modprobe.d     sgml           shells         vconsole.conf
cloud            fstab          kdump          modules-load.d  sgml           skel           virt
cron.d           fuse.conf      kdump.conf     motd            sgml           skel           vulkan
cron.daily       gcrypt         kernel         motd.d         sgml           skel           wgetrc
cron.deny        geoclue       krb5.conf      mtab            sgml           skel           wireplumber
cron.hourly      glvnd         krb5.conf.d   NetworkManager x11            skel           X11
cron.monthly     gnupg         ld.so.cache   networks       xattr.conf    skel           xdg
crontab          GREP_COLORS   ld.so.conf    nsswitch.conf  xml           skel           yum
cron.weekly      groff         ld.so.conf.d  nsswitch.conf.bak rc.d           skel           yum.conf
crypto-policies  group         libaudit.conf oddjob          rc.local       skel           yum.repos.d
csh.cshrc        group-        libbverbs.d   oddjobd.conf   redhat-release rc.local       sudo.conf
csh.login        grub2.cfg     libnl          oddjobd.conf.d resolv.conf     rc.local       sudoers
dbus-1           grub.d        libnsl         openldap       rhc            rc.local       sudo-ldap.conf
dconf            gshadow       libreport     os-release     rhsm           rc.local       swid
```

```
[root@ip-172-31-94-55 etc]# cd yum.repos.d/
[root@ip-172-31-94-55 yum.repos.d]#
```

# Change [gpcheck=1 to gpcheck=0]

```
[root@ip-172-31-94-55 yum.repos.d]# cat jenkins.repo
[jenkins]
name=Jenkins-stable
baseurl=http://pkg.jenkins.io/redhat-stable
gpcheck=1
[root@ip-172-31-94-55 yum.repos.d]# vi jenkins.repo
[root@ip-172-31-94-55 yum.repos.d]# cat jenkins.repo
[jenkins]
name=Jenkins-stable
baseurl=http://pkg.jenkins.io/redhat-stable
gpcheck=0
[root@ip-172-31-94-55 yum.repos.d]#
```

# Start jenkins and check the jenkins status

```
[root@ip-172-31-94-55 ~]# systemctl start jenkins
[root@ip-172-31-94-55 ~]# systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; disabled; preset: disabled)
   Active: active (running) since Fri 2023-06-30 19:55:10 UTC; 55s ago
     Main PID: 14851 (java)
        Tasks: 42 (limit: 4421)
       Memory: 353.8M
          CPU: 46.173s
      CGroup: /system.slice/jenkins.service
              └─14851 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Jun 30 19:54:34 ip-172-31-94-55.ec2.internal jenkins[14851]: fde695f101a44b5a90c57965a960e3e8
Jun 30 19:54:34 ip-172-31-94-55.ec2.internal jenkins[14851]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Jun 30 19:54:34 ip-172-31-94-55.ec2.internal jenkins[14851]: *****
Jun 30 19:54:34 ip-172-31-94-55.ec2.internal jenkins[14851]: *****
Jun 30 19:54:34 ip-172-31-94-55.ec2.internal jenkins[14851]: *****
Jun 30 19:55:10 ip-172-31-94-55.ec2.internal jenkins[14851]: 2023-06-30 19:55:10.878+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAt>
Jun 30 19:55:10 ip-172-31-94-55.ec2.internal jenkins[14851]: 2023-06-30 19:55:10.901+0000 [id=22] INFO hudson.lifecycle.Lifecycle#onRea>
Jun 30 19:55:10 ip-172-31-94-55.ec2.internal systemd[1]: Started Jenkins Continuous Integration Server.
Jun 30 19:55:10 ip-172-31-94-55.ec2.internal jenkins[14851]: 2023-06-30 19:55:10.996+0000 [id=44] INFO h.m.DownloadService$Downloadable>
Jun 30 19:55:10 ip-172-31-94-55.ec2.internal jenkins[14851]: 2023-06-30 19:55:10.997+0000 [id=44] INFO hudson.util.Retrier#start: Perfo>
lines 1-20/20 (END)
```



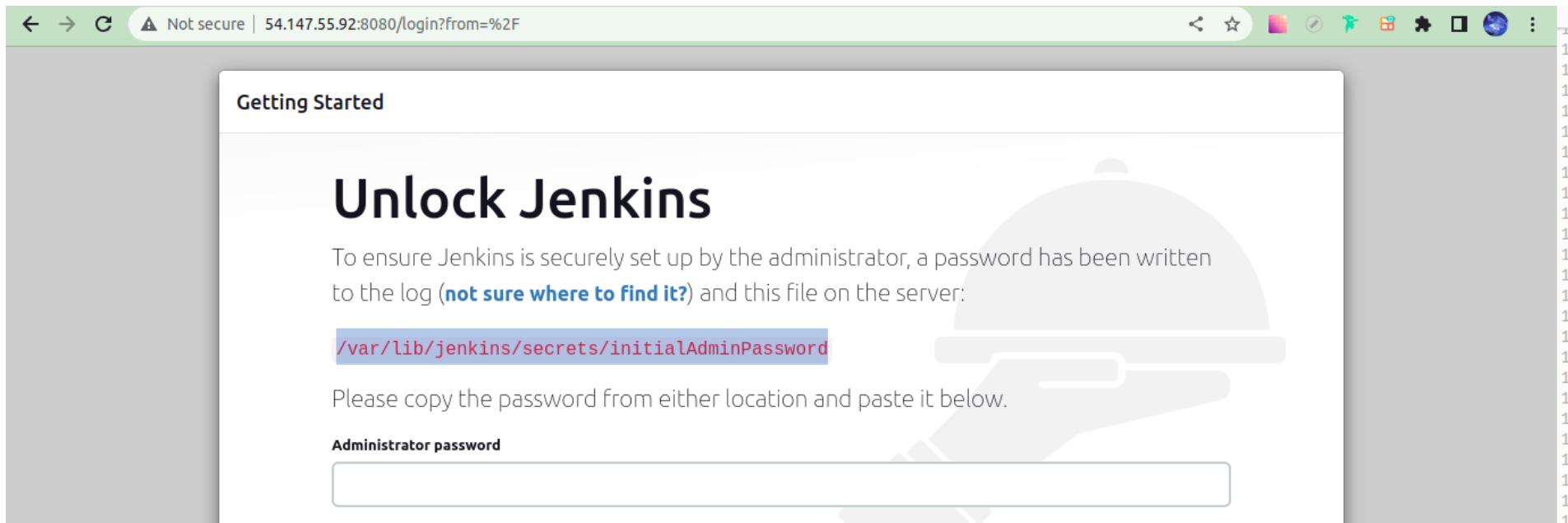
# Go the instance and allow security group port:8080

The screenshot shows the AWS Management Console interface. At the top, a green banner indicates a successful modification: "Inbound security group rules successfully modified on security group (sg-04d20716624690490 | launch-wizard-7)". Below this, the breadcrumb navigation shows "EC2 > Security Groups > sg-04d20716624690490 - launch-wizard-7". The main heading is "sg-04d20716624690490 - launch-wizard-7". A "Details" section is expanded, showing a table with the following information:

Details			
Security group name	Security group ID	Description	VPC ID
launch-wizard-7	sg-04d20716624690490	launch-wizard-7 created 2023-06-30T19:44:40.066Z	vpc-0a3861fdff27bce41

The left sidebar contains navigation links for "EC2 Dashboard", "EC2 Global View", "Events", "Limits", "Instances", "Instances Types", "Launch Templates", and "Spot Requests". The top navigation bar includes the AWS logo, "Services", a search bar, and the user's name "Amos Koech".

# Paste the ip:8080 on terminal



# Copy and paste [link] starting with cat to display password

```
Jun 30 19:54:34 ip-172-31-94-55.ec2.internal jenkins[14851]: *****
Jun 30 19:55:10 ip-172-31-94-55.ec2.internal jenkins[14851]: 2023-06-30 19:55:10.878+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAt>
Jun 30 19:55:10 ip-172-31-94-55.ec2.internal jenkins[14851]: 2023-06-30 19:55:10.901+0000 [id=22] INFO hudson.lifecycle.Lifecycle#onRea>
Jun 30 19:55:10 ip-172-31-94-55.ec2.internal systemd[1]: Started Jenkins Continuous Integration Server.
Jun 30 19:55:10 ip-172-31-94-55.ec2.internal jenkins[14851]: 2023-06-30 19:55:10.996+0000 [id=44] INFO h.m.DownloadService$Downloadable>
Jun 30 19:55:10 ip-172-31-94-55.ec2.internal jenkins[14851]: 2023-06-30 19:55:10.997+0000 [id=44] INFO hudson.util.Retrier#start: Perfo>
[root@ip-172-31-94-55 ~]# systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable jenkins
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /usr/lib/systemd/system/jenkins.service.
[root@ip-172-31-94-55 ~]# jenkins --version
2.401.2
[root@ip-172-31-94-55 ~]# cat /var/lib/jenkins/secrets/initialAdminPassword
de695f101a44b5a90c57965a960e3e8
[root@ip-172-31-94-55 ~]#
```

# Paste password from terminal

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

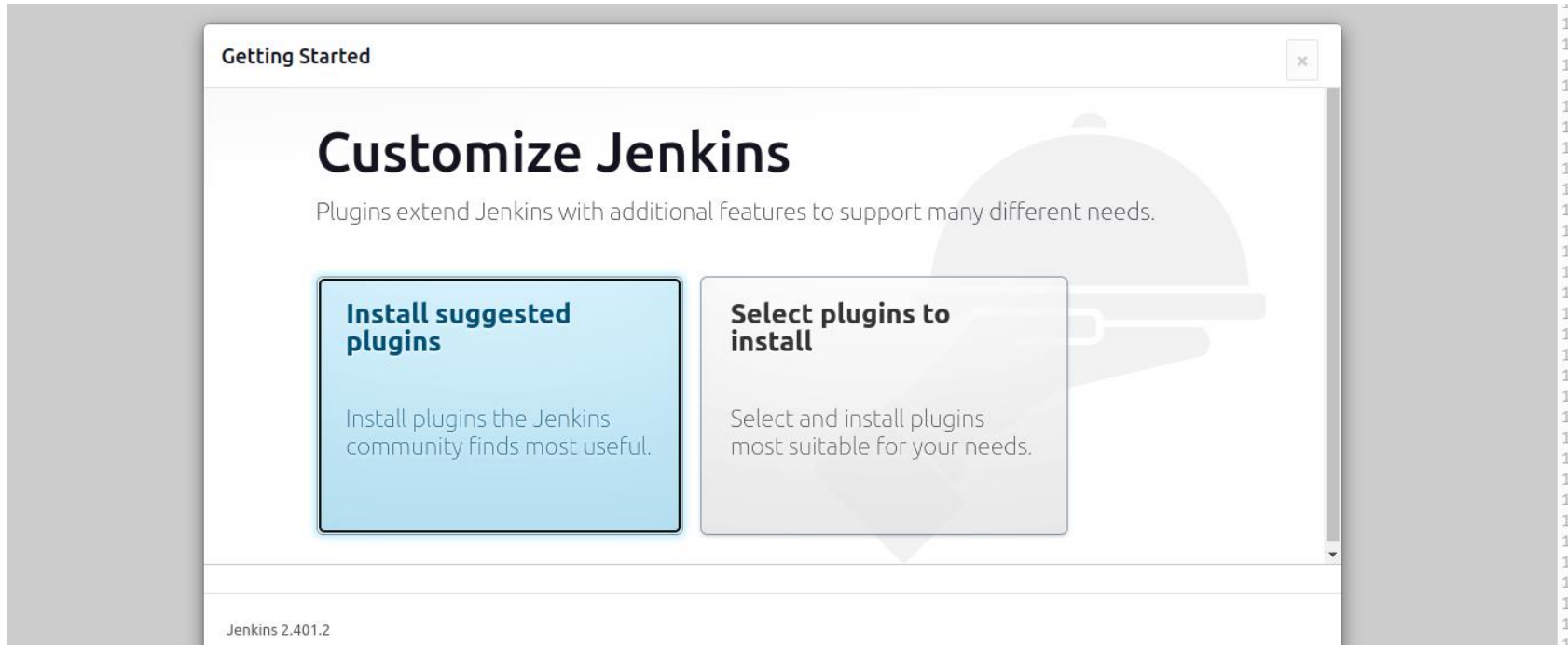
```
/var/lib/jenkins/secrets/initialAdminPassword
```

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

**Administrator password**

Continue

# Install suggested plugins



# Start instaling

Getting Started

## Getting Started

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

Core

SSH server

OWASP Markup Formatter

Structs

Token Macro

Build Timeout

Pipeline: Step API

Credentials

Plain Credentials

Trilead API

SSH Credentials

Credentials Binding

SCM API

Pipeline: API

commons-lang3 v3.x Jenkins API

Timestamper

Caffeine API

- required dependency

Jenkins 2.401.2

# Instance config:save and continue

Getting Started

## Instance Configuration

Jenkins URL:

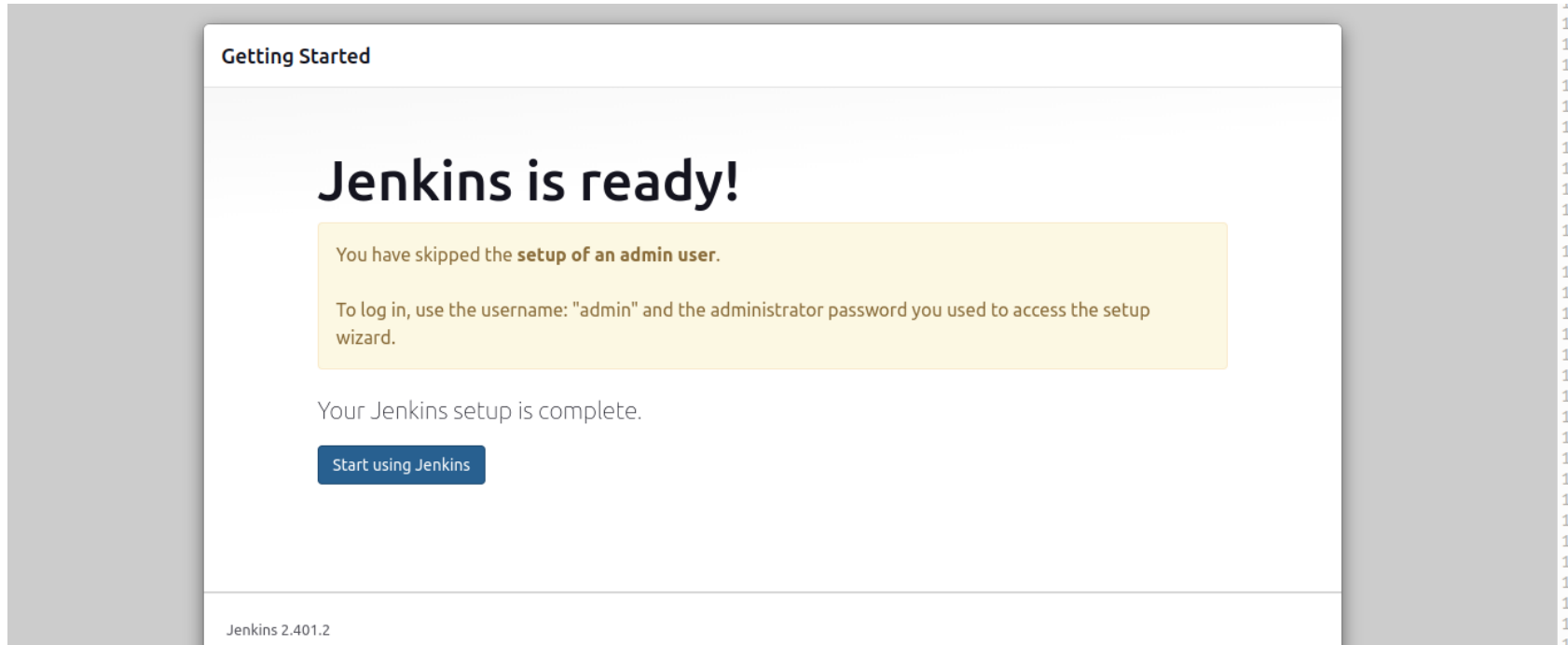
The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD\_URL environment variable provided to build steps.

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 2.401.2

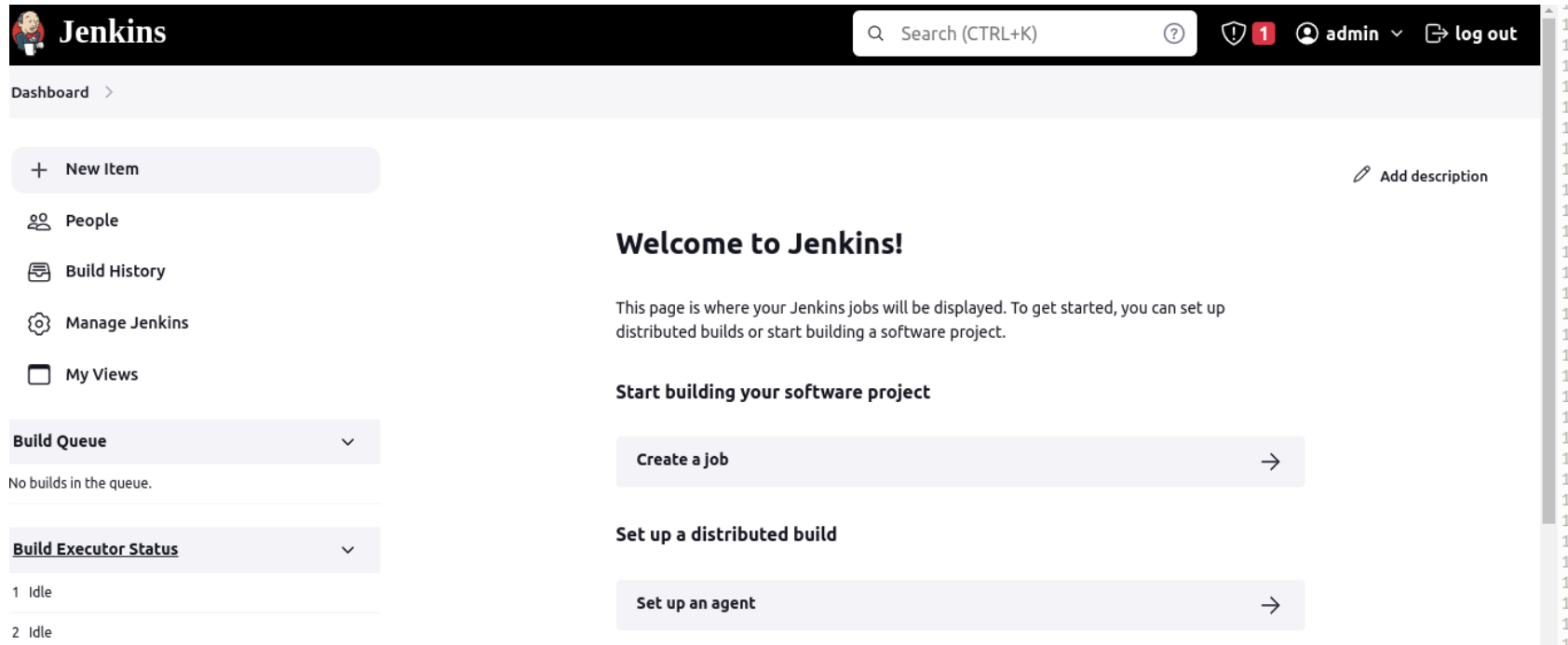
[Not now](#) [Save and Finish](#)

# Welcome to jenkins:start using jenkins





# Create a job



The screenshot shows the Jenkins dashboard interface. At the top is a black header bar with the Jenkins logo and name on the left, a search bar in the center, and user information (admin) and a log out button on the right. Below the header is a light gray sidebar on the left containing navigation links: 'New Item', 'People', 'Build History', 'Manage Jenkins', and 'My Views'. Under 'Build Queue', it states 'No builds in the queue.' Under 'Build Executor Status', it lists '1 Idle' and '2 Idle'. The main content area has a 'Welcome to Jenkins!' message, followed by instructions on how to get started. Below this, there are two sections: 'Start building your software project' with a 'Create a job' button, and 'Set up a distributed build' with a 'Set up an agent' button. A vertical scrollbar is visible on the right side of the main content area.

**Jenkins**

Search (CTRL+K)

admin log out

Dashboard >

+ New Item

People

Build History

Manage Jenkins

My Views

**Build Queue**

No builds in the queue.

**Build Executor Status**

1 Idle

2 Idle

## Welcome to Jenkins!

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

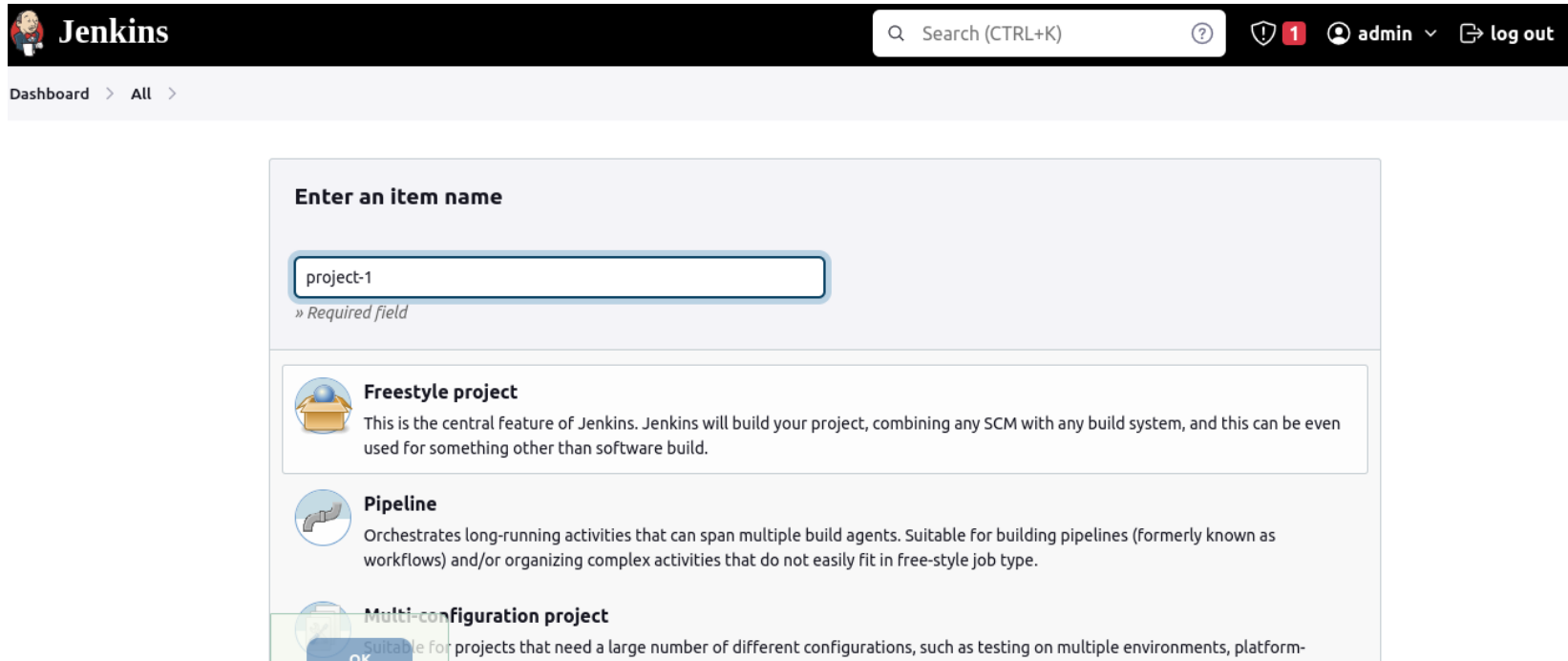
### Start building your software project

Create a job →

### Set up a distributed build

Set up an agent →

# Enter job/project-1



**Jenkins**

Search (CTRL+K) ? 1 admin log out

Dashboard > All >

**Enter an item name**

project-1

» Required field

**Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**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.

**Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-

# Build triggers[use crontab] to build periodically

Dashboard > project-1 > Configuration

## Configure

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

☐ Git ?

### Build Triggers

- ☐ Trigger builds remotely (e.g., from scripts) ?
- ☐ Build after other projects are built ?
- ☒ Build periodically ?

Schedule ?

```
*****
```

- ☐ GitHub hook trigger for GITScm polling ?
- ☐ Poll SCM ?

# Build now :project-1

Dashboard > project-1 >

</> Changes

Workspace

Build Now

Configure

Delete Project

Rename

first project

Edit description

Disable Project

Permalinks

Build History trend

Filter builds...

No builds

Atom feed for all Atom feed for failures



# Project-2:intall git to link up with instance

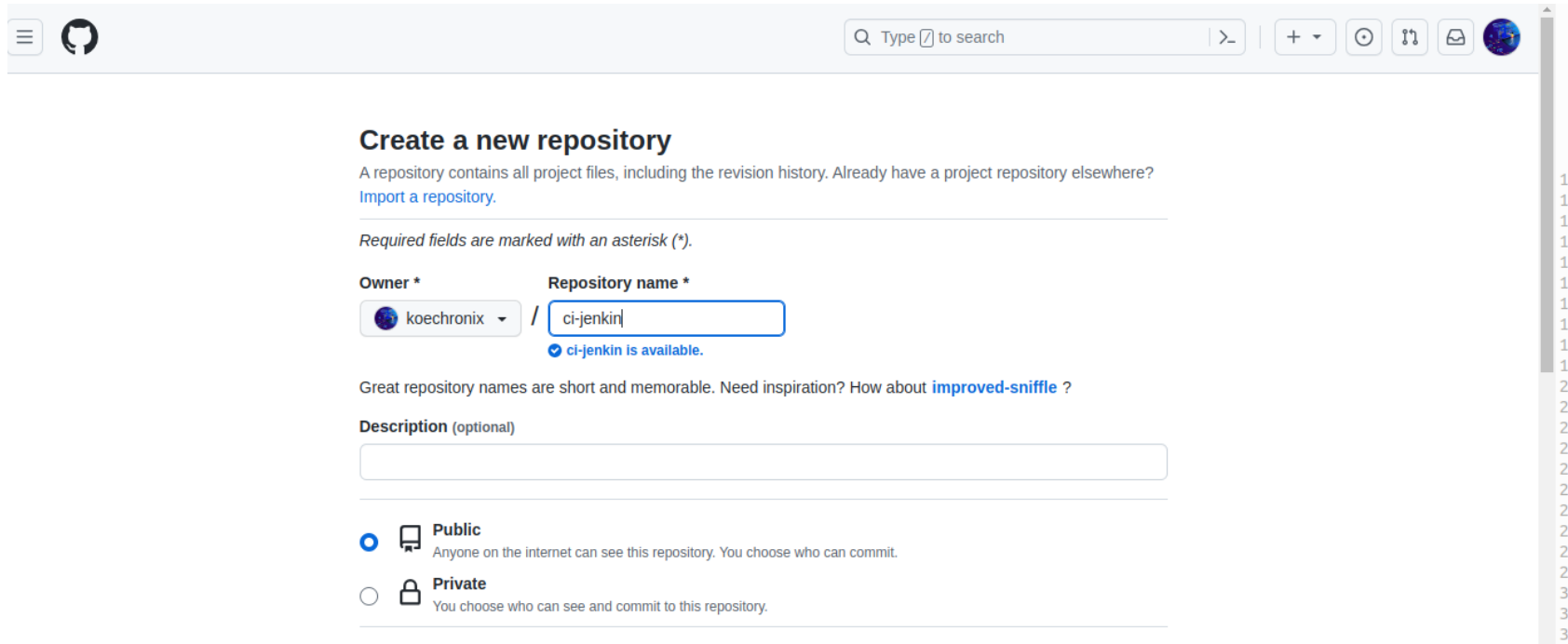
```
[root@ip-172-31-94-55 ~]# yum install git
Updating Subscription Management repositories.
Unable to read consumer identity
```






```
This system is not registered with an entitlement server. You can use subscription-manager to register.
```

```
Last metadata expiration check: 0:18:45 ago on Fri 30 Jun 2023 07:53:46 PM UTC.
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
Installing:				
git	x86_64	2.39.3-1.el9_2	rhel-9-appstream-rhui-rpms	66 k
Installing dependencies:				
emacsfilesystem	noarch	1:27.2-8.el9_2.1	rhel-9-appstream-rhui-rpms	9.6 k
git-core	x86_64	2.39.3-1.el9_2	rhel-9-appstream-rhui-rpms	4.3 M
git-core-doc	noarch	2.39.3-1.el9_2	rhel-9-appstream-rhui-rpms	2.9 M
perl-AutoLoader	noarch	5.74-480.el9	rhel-9-appstream-rhui-rpms	23 k
perl-B	x86_64	1.80-480.el9	rhel-9-appstream-rhui-rpms	185 k
perl-Carp	noarch	1.50-460.el9	rhel-9-appstream-rhui-rpms	31 k
perl-Class-Struct	noarch	0.66-480.el9	rhel-9-appstream-rhui-rpms	24 k
perl-Data-Dumper	x86_64	2.174-462.el9	rhel-9-appstream-rhui-rpms	59 k
perl-Digest	noarch	1.19-4.el9	rhel-9-appstream-rhui-rpms	29 k
perl-Digest-MD5	x86_64	2.58-4.el9	rhel-9-appstream-rhui-rpms	39 k
perl-DynaLoader	x86_64	1.47-480.el9	rhel-9-appstream-rhui-rpms	27 k
perl-Encode	x86_64	4:3.08-462.el9	rhel-9-appstream-rhui-rpms	1.7 M
perl-Errno	x86_64	1.30-480.el9	rhel-9-appstream-rhui-rpms	17 k
perl-Error	noarch	1:0.17029-7.el9	rhel-9-appstream-rhui-rpms	46 k
perl-Exporter	noarch	5.74-461.el9	rhel-9-appstream-rhui-rpms	34 k
perl-Fcntl	x86_64	1.13-480.el9	rhel-9-appstream-rhui-rpms	23 k
perl-File-Basename	noarch	2.85-480.el9	rhel-9-appstream-rhui-rpms	19 k
perl-File-Find	noarch	1.37-480.el9	rhel-9-appstream-rhui-rpms	27 k

# Create a repository on github




     


## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?  
[Import a repository.](#)

*Required fields are marked with an asterisk (\*).*


**Owner \*** **Repository name \***


 koechronix /

 ci-jenkins is available.

Great repository names are short and memorable. Need inspiration? How about [improved-sniffle](#) ?

**Description (optional)**

☒  **Public**  
Anyone on the internet can see this repository. You choose who can commit.

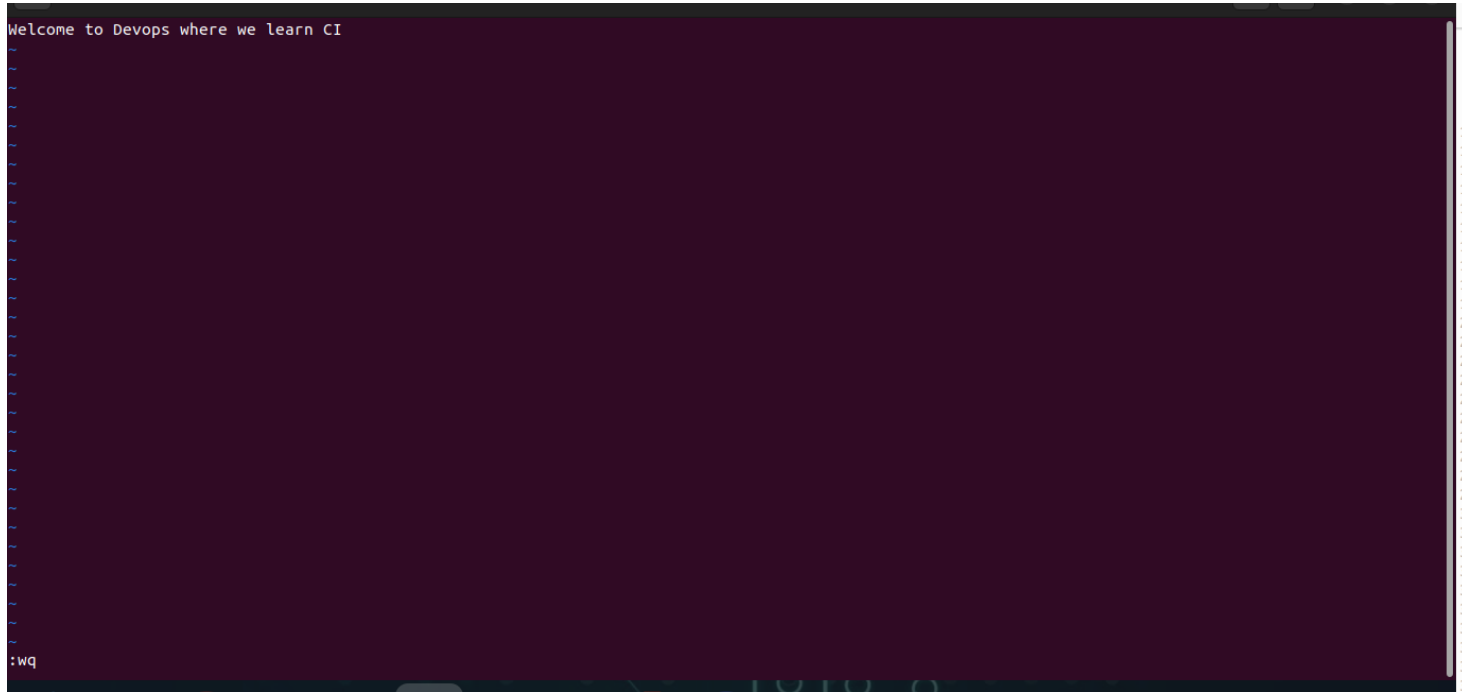
☐  **Private**  
You choose who can see and commit to this repository.

# Create directory and initialize empty repo

```
[root@ip-172-31-94-55 ~]# mkdir d1
[root@ip-172-31-94-55 ~]# cd d1
[root@ip-172-31-94-55 d1]# 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/d1/.git/
[root@ip-172-31-94-55 d1]#
```



# Vi.index.html and write something



```
1 Welcome to Devops where we learn CI
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```

bm:

git remote add origin[repo link]  
git push origin master :username[your github  
username]  
password[PAT]

```
[root@ip-172-31-94-55 d1]# vi index.html
[root@ip-172-31-94-55 d1]# git add .
[root@ip-172-31-94-55 d1]# git commit -m "CI pipeline"
[master (root-commit) 7a54a91] CI pipeline
  Committer: root <root@ip-172-31-94-55.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
 create mode 100644 index.html
[root@ip-172-31-94-55 d1]# git remote add origin https://github.com/koechronix/ci-jenkin.git
[root@ip-172-31-94-55 d1]# git push origin master
Username for 'https://github.com': koechronix
Password for 'https://koechronix@github.com':
```

# Build new job/new item[CI jenkins]

← → ↻ Not secure | 54.147.55.92:8080/view/all/newJob


**Jenkins** Search (CTRL+K) admin log out


Dashboard > All >


**Enter an item name**

ci-jenkins

» Required field

 **Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

 **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.

 **Multi-configuration project**  
Useful for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK

# Configure:source code mgt: Git[paste link]

The screenshot shows the Jenkins web interface for configuring source code management. The browser address bar indicates the URL `54.147.55.92:8080/job/ci-jenkins/configure`. The navigation breadcrumb is `Dashboard > ci-jenkins > Configuration`. On the left, the **Configure** menu has **Source Code Management** selected. The main panel, titled **Source Code Management**, shows the **Git** option selected. Under **Repositories**, a new repository is being added with the URL `https://github.com/koechronix/ci-jenkin.git`. The **Credentials** dropdown menu is open, showing `- none -` as the selected option, with an **Add** button below it. At the bottom of the configuration panel are **Save** and **Apply** buttons.

← → ↻ ⚠ Not secure | 54.147.55.92:8080/job/ci-jenkins/configure

Dashboard > ci-jenkins > Configuration

## Configure

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

### Source Code Management

☐ None

☒ Git ?

Repositories ?

Repository URL ?

`https://github.com/koechronix/ci-jenkin.git`

Credentials ?

- none -

- none -

Add

Save Apply

# Execute shell to add commands

The screenshot shows the Jenkins web interface for configuring a job named 'ci-jenkins'. The browser address bar indicates the URL is '54.147.55.92:8080/job/ci-jenkins/configure'. The left sidebar contains navigation links: 'General', 'Source Code Management', 'Build Triggers', 'Build Environment' (which is highlighted), 'Build Steps', and 'Post-build Actions'. The main content area is titled 'Configure' and includes several checkboxes: 'Delete workspace before build starts', 'Use secret text(s) or file(s)', and 'Add timestamps to the Console Output'. Below these is a search bar labeled 'Filter' with a dropdown menu open, listing various build actions. The 'Execute shell' option is highlighted in blue. Other options in the list include 'Execute Windows batch command', 'Invoke Ant', 'Invoke Gradle script', 'Invoke top-level Maven targets', 'Run with timeout', and 'Set build status to "pending" on GitHub commit'. At the bottom of the configuration area, there are 'Save' and 'Apply' buttons. A terminal window at the very bottom shows the command prompt '54.147.55.92:8080/job/ci-jenkins/configure#'.

Dashboard > ci-jenkins > Configuration

## Configure

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

☐ Delete workspace before build starts

☐ Use secret text(s) or file(s) ?

☐ Add timestamps to the Console Output

Filter

- Execute Windows batch command
- Execute shell**
- Invoke Ant
- Invoke Gradle script
- Invoke top-level Maven targets
- Run with timeout
- Set build status to "pending" on GitHub commit

Add build step ▾

### Post-build Actions

Add post-build action ▾

Save Apply

54.147.55.92:8080/job/ci-jenkins/configure#

# Add command then apply and save then build now

Dashboard > ci-jenkins > Configuration

## Configure

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

**Command**  
See [the list of available environment variables](#)

```
sudo yum install httpd -y  
sudo systemctl enable --now httpd  
sudo cp index.html /var/www/html/index.html
```

Advanced ▾

Add build step ▾

**Post-build Actions**

Save Apply

# Success:linked with github

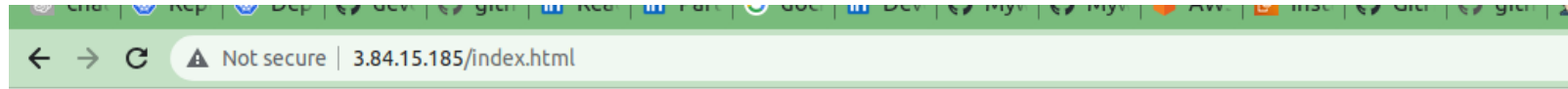
jenkins / Console Output

- Status
- Changes
- Console Output**
- View as plain text
- Edit Build Information
- Delete build '#17'
- Git Build Data
- Previous Build

✓ Console Output

```
Started by timer
Started by timer
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/git-jenkins
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/git-jenkins/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/koechronix/jenkins-pipeline.git # timeout=10
Fetching upstream changes from https://github.com/koechronix/jenkins-pipeline.git
> git --version # timeout=10
> git --version # 'git version 2.39.3'
> git fetch --tags --force --progress -- https://github.com/koechronix/jenkins-pipeline.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 89355e985216f3db1b8a0b48cd64ba70247ee6f8 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 89355e985216f3db1b8a0b48cd64ba70247ee6f8 # timeout=10
Commit message: "second message"
> git rev-list --no-walk 89355e985216f3db1b8a0b48cd64ba70247ee6f8 # timeout=10
```

# File1:ip/index.html on website



Welcome Amos to CI pipeline in jenkins The pipeline is working on perfectly



# File2:ip/amos.html

← → ↻ ⚠ Not secure | 3.84.15.185/amos.html

Enjoying DevOps

- Thank you



























