How to Install Jenkins on CentOS 7 or RHEL 7

Jenkins is a service that runs on Java.

Step 1

Check whether you have java installed in your Centos 7.

Run the command # java -version

Results

```
[root@josh josh]# java -version
openjdk version "1.8.0_302"
OpenJDK Runtime Environment (build 1.8.0_302-b08)
OpenJDK 64-Bit Server VM (build 25.302-b08, mixed mode)
[root@josh josh]# ■
```

If not run the following command

Centos 7

yum install java-1.8.0-openjdk-devel

Step 2

Install Jenkins repository

Source: https://www.jenkins.io/doc/book/installing/linux/

Command #1 -repository

wget -O /etc/yum.repos.d/jenkins.repo\

https://pkg.jenkins.io/redhat-stable/jenkins.repo

Command #2 – Import the Key

rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key

Command #3 - Verify yum repository

#cat /etc/yum.repos.d/jenkins.repo

Results

```
[root@centos ~]# cat /etc/yum.repos.d/jenkins.repo

[jenkins]

name=Jenkins-stable

baseurl=http://pkg.jenkins.io/redhat-stable

gpgcheck=1

[root@centos ~]#
```

Step 3: Install stable Jenkins on CentOS 7

#yum install Jenkins

Issues students are facing after running the #yum install Jenkins

```
Determining fastest mirrors

* base: atl.mirrors.clouvider.net

* extras: mirror.es.its.nyu.edu

* updates: nc-centos-mirror.iwebfusion.net

base

extras

jenkins

updates

(2.9 kB 00:00:00

(1/5): extras/7/x86 64/primary_db

(2/5): updates/7/x86 64/primary_db

(3/5): base/7/x86 64/primary_db

(3/5): base/7/x86 64/primary_db

(3/5): base/7/x86 64/primary_db

(3/5): base/7/x86 64/primary_db

(3/5): jenkins/primary_db

(5/5): jenkins/primary_db

(5/5): jenkins/primary_db

(6.1 MB 00:00:15

Resolving Dependencies

--> Running transaction check

--> Processing Dependency: daemonize for package: jenkins-2.312-1.1.noarch

--> Finished Dependency Resolution

Error: Package: jenkins-2.312-1.1.noarch (jenkins)

Requires: daemonize

You could try using --skip-broken to work around the problem

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You could try tinning: rpm -Va --nofiles --nodigest

Start jenkins services

Redirecting to /bin/systemctl start jenkins.service

Failed to start jenkins.service: Unit not found.

Installation FAILED..

[root@DESKTOP-90HK302 ~]#
```

amazon-linux-extras install epel -y — when using amazon instance

However, in Centos 7,

this problem is occurring because you did not create and configure your YumRepo File

To do that, follow the steps

below

Step1. Create the YumRepo File.

#vim /etc/yum.repos.d/epelfordaemonize.repo

Put the following information in the file

[daemonize]

baseurl=https://download-ib01.fedoraproject.org/pub/epel/7/x86_64/

```
gpgcheck=no
enabled=yes
Save and go back to the terminal
Run the following commands
Step 2
# yum install daemonize -y
Step 3.
# yum install jenkins java-1.8.0-openjdk-devel -y
Step 4: Install stable Jenkins on CentOS 7
#yum install Jenkins
Step 4: Start the Jenkins service and auto start on boot
# systemctl start Jenkins
# systemctl enable Jenkins
Step 5: Verify the status of Jenkins
# systemctl status Jenkins
```

```
[root@centos ~]# systemctl status jenkins
• jenkins.service - LSB: Jenkins Automation Server
   Loaded: loaded (/etc/rc.d/init.d/jenkins; bad; vendor preset: disabled)
   Active: active (exited) since Sun 2021-03-14 11:22:13 EDT; 1min 2s ago
   Docs: man:systemd-sysv-generator(8)

Mar 14 11:22:11 centos systemd[1]: Starting LSB: Jenkins Automation Server...
Mar 14 11:22:11 centos runuser[3051]: pam_unix(runuser:session): session opened for user jenkins by (uid=0)
Mar 14 11:22:13 centos jenkins[3045]: Starting Jenkins [ OK  ]
Mar 14 11:22:13 centos systemd[1]: Started LSB: Jenkins Automation Server.
[root@centos ~]# ■
```

Step 6: Configure the firewall and allow 8080 port

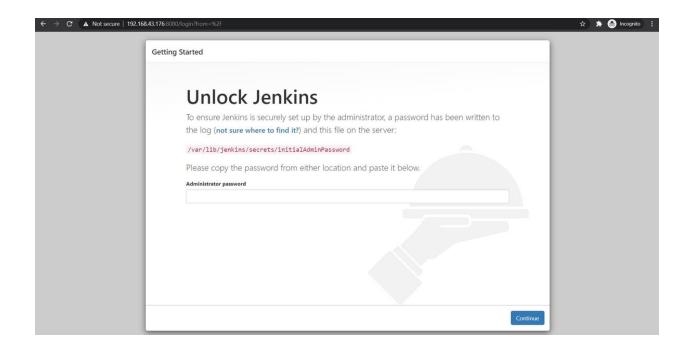
#firewall-cmd --permanent --zone=public --add-port=8080/tcp #firewall-cmd -reload

Step 7: Configure Jenkins on CentOS or RHEL

To configure Jenkins, you need to access it on any web browser with domain/host IP address.

http://your ip or domain:8080

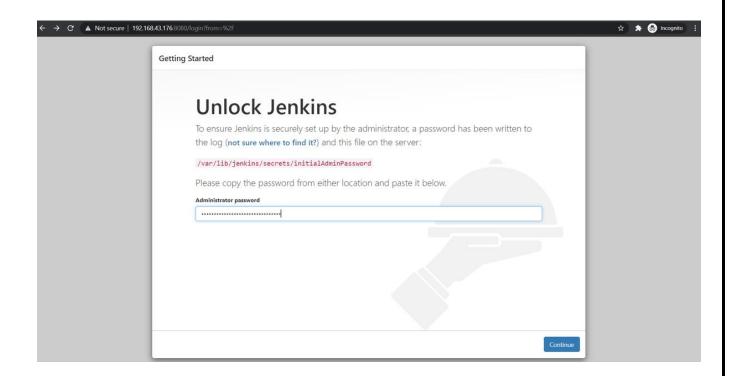
7.1: Unlock Jenkins



When you access Jenkins for the first time (after installation) it will ask you the password. And to know the password run the below command, and you will see a 32-character alphanumeric password.

cat /var/lib/jenkins/secrets/initialAdminPassword

Copy the password and paste it into the Jenkins Administrator section.



On the Next page, Jenkins will ask you to choose/install the suggested plugins or the select most suitable/specific plugins.

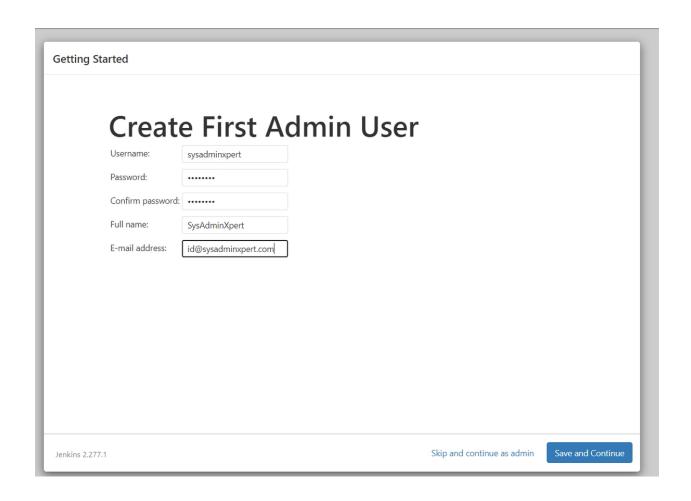
7.2: Customize Jenkins



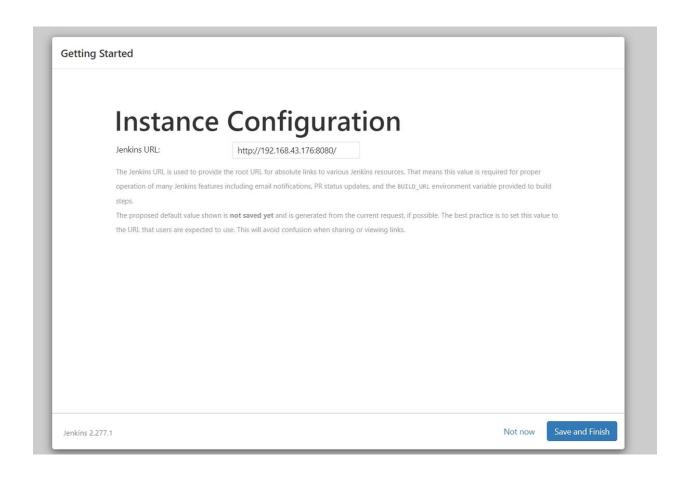
7.3: Getting Started

Getting Started			
Getting Start	ed		
✓ Folders	✓ OWASP Markup Formatter	→ Build Timeout	✓ Credentials Binding
✓ Timestamper	C Workspace Cleanup	⊘ Ant	
Pipeline	C GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View
⊖ Git	⊘ Subversion	⊘ SSH Slaves	Matrix Authorization Strategy
PAM Authentication	€ LDAP	Email Extension	
** Junit OWASP Markup Formatter ** Token Macro Build Timeout ** Credentials ** SSH Credentials ** Plain Credentials Credentials Binding Timestamper ** Pipeline: Supporting ** Durable Task ** Pipeline: Nodes and			
** Matrix Project ** - required dependence	v		

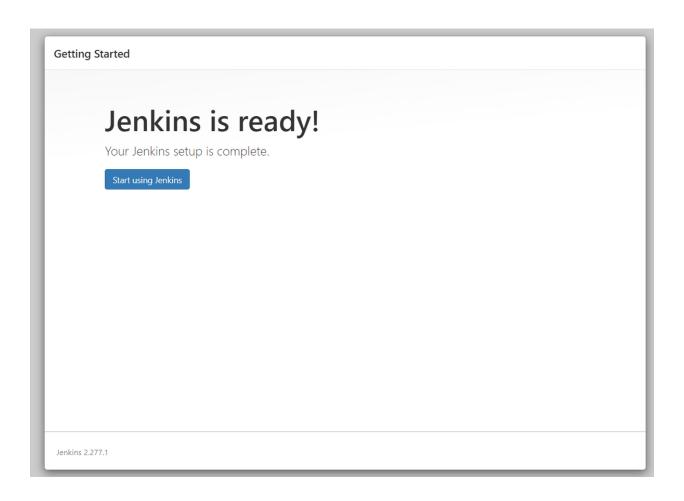
7.4: Create First Admin User



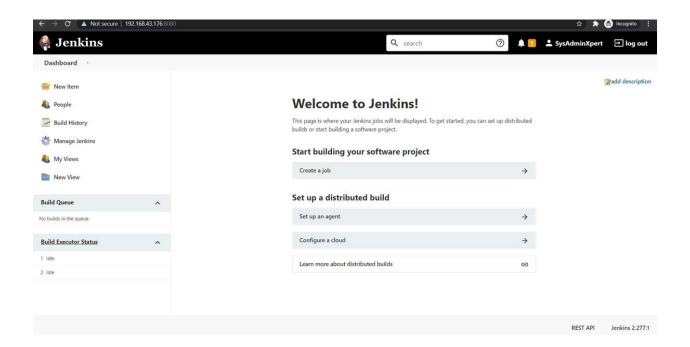
7.5: Instance Configuration



Next step to click on 'start using Jenkins'.



7.6: Jenkins Dashboard It will redirect to the Jenkins dashboard.



You now have Jenkins services