HOW TO INSTALL JENKINS ON CENTOS 7

➢ Jenkins is an open source, Java-based automation server that offers an easy way to set up a continuous integration and continuous delivery (CI/CD) pipeline.

➢ Continuous Integration (CI) is the process of automating the build and testing of code every time a team member commits changes to version control. Continuous Delivery (CD) is the process to build, test, configure and deploy from a build to a production environment.

➢ This tutorial demonstrates the steps of installing Jenkins on a CentOS 7 system using the official Jenkins repository.

Installing Jenkins
yum install java-1.8.0-openjdk.x86_64 java-1.8.0-openjdk-devel.x86_64

– Once the installation is completed, you can check the installed version using the following command:

java -version
openjdk version "1.8.0_161"
OpenJDK Runtime Environment (build 1.8.0_161-b14)
OpenJDK 64-Bit Server VM (build 25.161-b14, mixed mode)

curl --silent --location http://pkg.jenkins-ci.org/redhat-stable/jenkins.repo | sudo tee /etc/yum.repos.d/jenkins.repo

```
[jenkins]
name=Jenkins-stable
baseurl=http://pkg.jenkins.io/redhat-stable
gpgcheck=1
```

rpm --import https://jenkins-ci.org/redhat/jenkins-ci.org.key
yum install jenkins
systemctl enable jenkins
systemctl start Jenkins

Adjust the Firewall

Jenkins by default is listening on port 8080, Before accessing the Jenkins server, Use the following commands to open the necessary port:

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

Setting Up Jenkins

– Let's now setup Jenkins, open your browser and type your domain or IP address followed by port 8080:
http://your_ip_or_domain:8080

Getting Started

Unlock Jenkins

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

– Copy the password from your terminal, paste it into the Administrator password field and click Continue.

cat /var/lib/jenkins/secrets/initialAdminPassword
5896880025db4b99b80542df52eba7fc

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins	**Select plugins to install**
Install plugins the Jenkins community finds most useful.	Select and install plugins most suitable for your needs.

Jenkins 2.150.2

– Click on the Install suggested plugins box, and the installation process will start immediately as below:

Getting Started

				Folders
✔ Folders	⟳ OWASP Markup Formatter	⟳ Build Timeout	⟳ Credentials Binding	** JDK Tool
⟳ Timestamper	⟳ Workspace Cleanup	⟳ Ant	⟳ Gradle	** Script Security
⟳ Pipeline	⟳ GitHub Branch Source	⟳ Pipeline: GitHub Groovy Libraries	⟳ Pipeline: Stage View	
⟳ Git	⟳ Subversion	⟳ SSH Slaves	⟳ Matrix Authorization Strategy	
⟳ PAM Authentication	⟳ LDAP	⟳ Email Extension	⟳ Mailer	** - required dependency

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– Once the installation is complete, you will be prompted to set up the first administrative user. Fill out all required information and click Save and Continue.

Create First Admin User

Username:	lotfi
Password:	••••••••••••••
Confirm password:	••••••••••••••
Full name:	Lotfi Waderni
E-mail address:	lotfi@yallalabs.com

Jenkins 2.150.2

– On the next page you will be asked to set the URL for the Jenkins instance. The URL filed will be populated with an automatically generated URL . To complete the setup confirm the URL by clicking on the Save and Finish button.

Instance Configuration

Jenkins URL: http://192.168.1.201:8080/

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 2.150.2   Not now   Save and Finish

– Finally, click on the Start using Jenkins button and you will be redirected to the Jenkins dashboard logged in as the admin user you have created in one of the previous steps.

Jenkins is ready!

Your Jenkins setup is complete.

Start using Jenkins

New Item

People

Build History

Manage Jenkins

My Views

Credentials

Lockable Resources

New View

✎add description

Welcome to Jenkins!

Please **create new jobs** to get started.

Build Queue   ▬

No builds in the queue.

Build Executor Status   ▬

1   Idle

2   Idle