



Jenkins

Installing

JENKINS

BY ALOK SRIVASTAVA - NETWORK NUTS





Installing Jenkins Master on

CENTOS 7

STEP #1 - INSTALL OPENJDK8

As Jenkins is a java based application. Lets install openjdk8 first.

```
[root@jenkins ~]# yum install java-1.8.0-openjdk-devel
Loaded plugins: fastestmirror, langpacks
base                                     | 3.6 kB      00:00
extras                                | 3.4 kB      00:00
updates                               | 3.4 kB      00:00
(1/4): base/7/x86_64/group_gz         | 166 kB      00:00
(2/4): extras/7/x86_64/primary_db      | 187 kB      00:00
(3/4): updates/7/x86_64/primary_db     | 3.4 MB      00:02
(4/4): base/7/x86_64/primary_db       | 6.0 MB      00:02
Determining fastest mirrors
* base: mirror.nbrc.ac.in
* extras: mirror.nbrc.ac.in
* updates: mirror.nbrc.ac.in
```

STEP #2 - ADD JENKINS REPOSITORY

```
[root@jenkins ~]# wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
--2019-03-30 00:15:37-- https://pkg.jenkins.io/redhat-stable/jenkins.repo
Resolving pkg.jenkins.io (pkg.jenkins.io)... 52.202.51.185
Connecting to pkg.jenkins.io (pkg.jenkins.io)|52.202.51.185|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 85
Saving to: '/etc/yum.repos.d/jenkins.repo'

100%[=====>] 85                ---K/s   in 0s

2019-03-30 00:15:39 (14.3 MB/s) - '/etc/yum.repos.d/jenkins.repo' saved [85/85]

[root@jenkins ~]#
```

```
[root@jenkins ~]# rpm --import http://pkg.jenkins.io/redhat-stable/jenkins.io.key
[root@jenkins ~]#
[root@jenkins ~]#
```

STEP #3 - INSTALL JENKINS

```
[root@jenkins ~]# yum install jenkins
Loaded plugins: fastestmirror, langpacks
jenkins                                | 2.9 kB  00:00:00
jenkins/primary_db                     | 28 kB  00:00:00
Loading mirror speeds from cached hostfile
 * base: mirror.nbrc.ac.in
 * extras: mirror.nbrc.ac.in
 * updates: mirror.nbrc.ac.in
Resolving Dependencies
--> Running transaction check
---> Package jenkins.noarch 0:2.164.1-1.1 will be installed
--> Finished Dependency Resolution
```

Dependencies Resolved

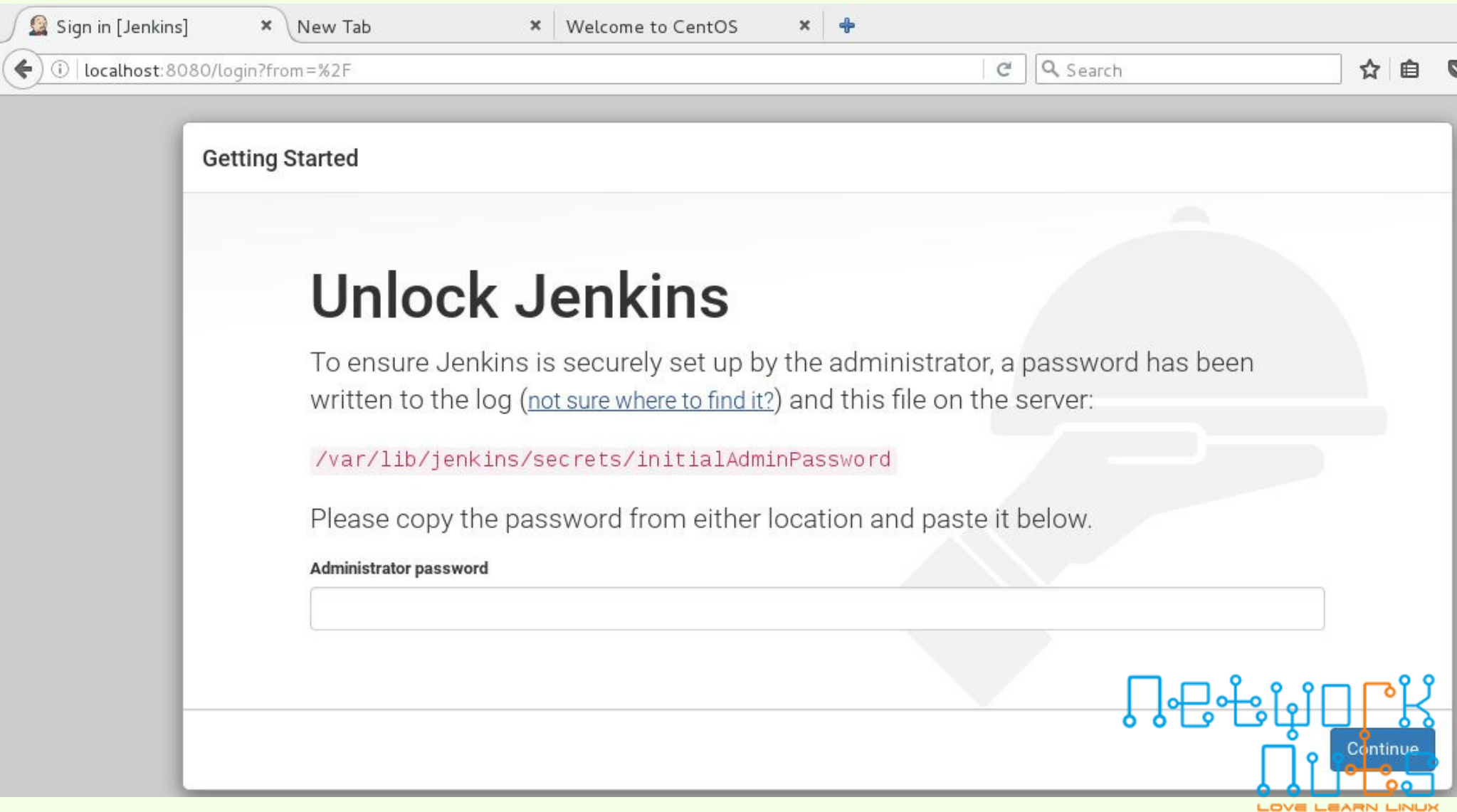
```
=====
Package                Arch          Version           Repository        Size
=====
Installing:
```

STEP #4 - START SERVICE AND ALLOW PORT IN FIREWALL

```
[root@jenkins ~]# systemctl start jenkins
[root@jenkins ~]#
[root@jenkins ~]# systemctl enable jenkins
jenkins.service is not a native service, redirecting to /sbin/chkconfig.
Executing /sbin/chkconfig jenkins on
[root@jenkins ~]#
[root@jenkins ~]# firewall-cmd --permanent --add-port=8080/tcp
success
[root@jenkins ~]# firewall-cmd --permanent --add-service=http
success
[root@jenkins ~]# firewall-cmd --reload
success
[root@jenkins ~]# firewall-cmd --list-all
public (default, active)
  interfaces: eno16777736
  sources:
  services: dhcpv6-client http ssh
  ports: 8080/tcp
  masquerade: no
  forward-ports:
  icmp-blocks:
  rich rules:
```

STEP #5 - ACCESS JENKINS PORTAL

Browse to - `http://localhost:8080`



Sign in [Jenkins] × New Tab × Welcome to CentOS × +

localhost:8080/login?from=%2F Search ☆

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

LOVE LEARN LINUX

STEP #5 - ACCESS JENKINS PORTAL

Admin password is created and also stored in the log file
“/var/log/jenkins/jenkins.log”.

Copy and paste this password in the portal to get access.

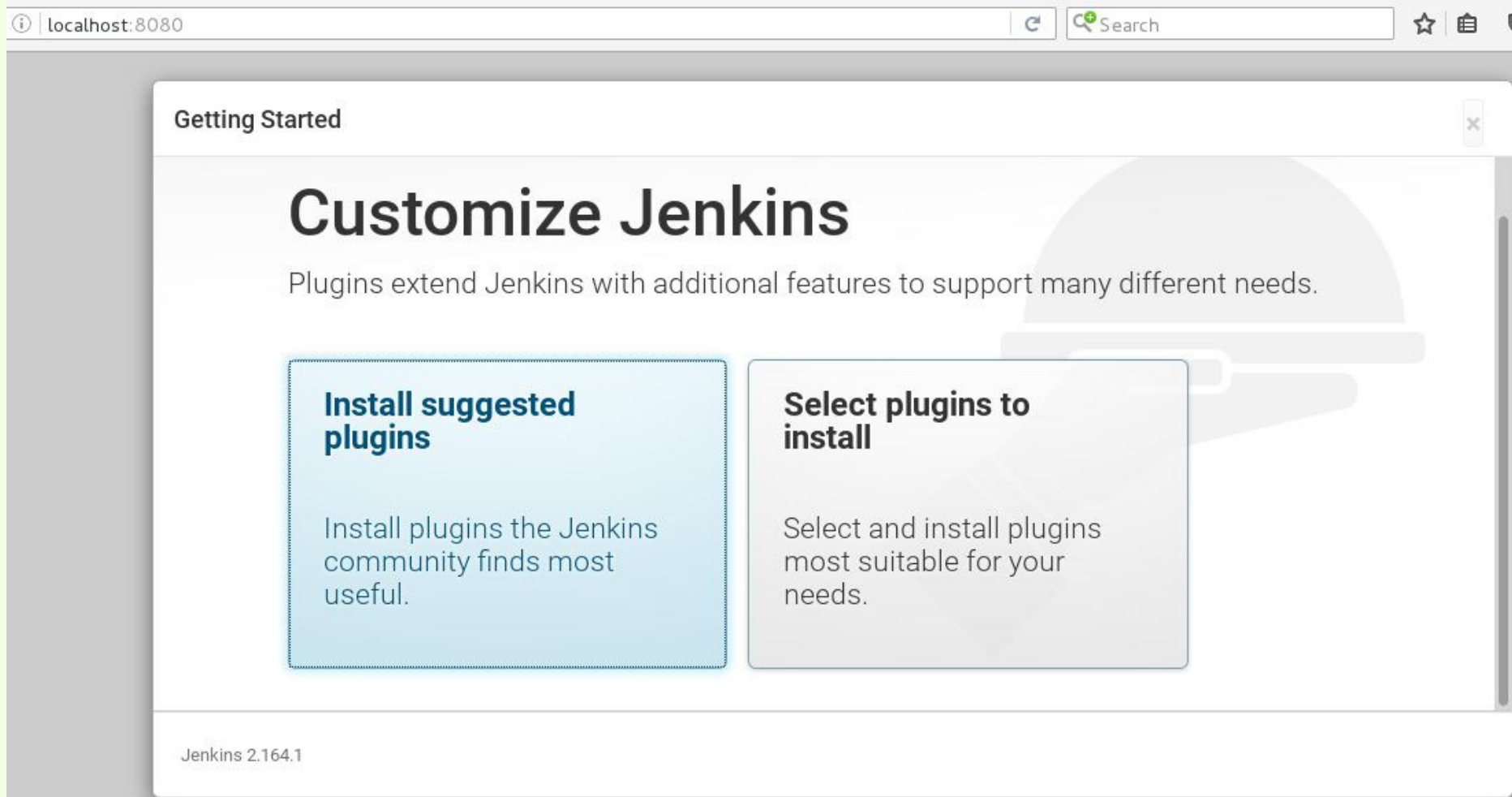
```
[root@jenkins ~]# grep -A 5 password /var/log/jenkins/jenkins.log
Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:

7555400d82f645a4b682aa7447b969b9

This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword

[root@jenkins ~]#
[root@jenkins ~]# █
```


INSTALL SUGGESTED PLUGINS



The screenshot shows a web browser window at localhost:8080 displaying the Jenkins 'Getting Started' dialog. The dialog has a title bar 'Getting Started' with a close button. The main heading is 'Customize Jenkins' with a subtitle 'Plugins extend Jenkins with additional features to support many different needs.' Below this are two panels: 'Install suggested plugins' (highlighted with a blue border) and 'Select plugins to install'. The first panel describes installing community-suggested plugins, while the second describes selecting plugins based on specific needs. The Jenkins version '2.164.1' is shown at the bottom left of the dialog.

Getting Started

Customize Jenkins

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

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Jenkins 2.164.1

CREATE ADMIN USER

After the plugin setup is complete, Jenkins will prompt you to create an administrator user.

Getting Started

Create First Admin User

Username:

alok

Password:

••••••••

Confirm password:

••••••••

Full name:

alok srivastava

E-mail address:

alokaryan@gmail.com

Jenkins 2.164.1

Continue as admin

Save and Continue

CREATE ADMIN USER

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 2.164.1

[Not now](#)

[Save and Finish](#)

CREATE ADMIN USER

From this point on, Jenkins can only be accessed through valid credentials.

