

Jenkins Installation and Configuration SOP

Configure EPEL Repo

```
wget http://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm  
rpm -ivh epel-release-latest-7.noarch.rpm
```

```
yum repolist
```

```
yum --enablerepo=epel info java-1.8.0-openjdk
```

Install JDK1.8 or later

```
sudo yum install java  
yum install java-1.8.0-openjdk
```

Path and Version Verification

```
java -version  
which java  
/usr/sbin/alternatives --config java
```

```
printenv PATH
```

Download Jenkins Repository

```
sudo wget -O /etc/yum.repos.d/jenkins.repo http://pkg.jenkins-ci.org/redhat-stable/jenkins.repo  
sudo rpm --import https://jenkins-ci.org/redhat/jenkins-ci.org.key  
sudo yum install jenkins
```

Start and Enable the Jenkins Service

```
systemctl start jenkins  
systemctl enable jenkins
```

Configure the port and service in Firewall in case if you want to keep Firewall Enabled.

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

```
firewall-cmd --zone=public --add-service=http --permanent
```

```
firewall-cmd --reload
```

Admin Password

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:

`/home/edureka/.jenkins/secrets/initialAdminPassword`

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

Administrator password

```
sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```

Plugin Installation Window

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.

Create First Admin User

Username:

Password:


Confirm password:

Full name:

E-mail address:

Go to: **Manage Jenkins >> Configure Global Security**

To configure Global Security

 **Configure Global Security**

☒ Enable security
Disable remember me ☐
Access Control

Security Realm

☐ Delegate to servlet container
☒ Github Authentication Plugin

Global GitHub OAuth Settings

GitHub Web URI

https://github.com

GitHub API URI

https://api.github.com

Client ID

Save

Apply

Select: **GitHub Authentication Plugin**

Enter Client ID and Client Secret

Global GitHub OAuth Settings

GitHub Web URI

https://github.com

GitHub API URI

https://api.github.com

Client ID

aa2b2868aaa334232c3d

Client Secret

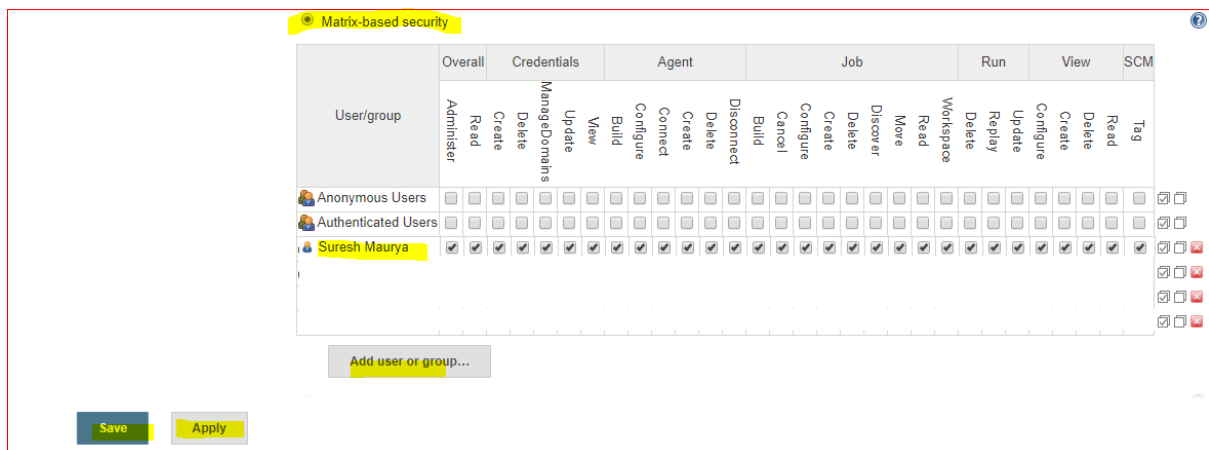
a71fc39eee2d84083fe0e68d88e8b56915d391c8

OAuth Scope(s)

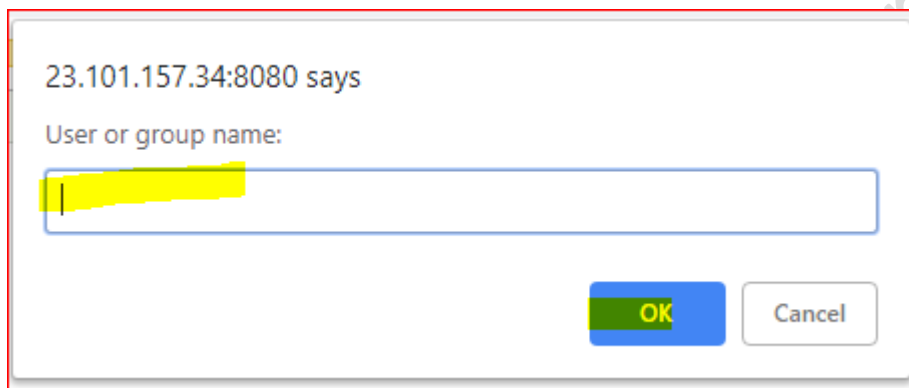
read:org,user:email

☐ Jenkins' own user database
☐ LDAP
☐ Unix user/group database

Authorization



Click on Add User or Group and Enter the User Name (GitHub's User Name Only)



Click on Apply and Save

Now, try to access Jenkins it would ask for Authentication via GitHub account only.

Logs:

```
sudo more /var/log/jenkins.log
```

To Disable Jenkins Security in case password gets lost:

```
#vim /var/lib/jenkins/config.xml
```

Just replace the word true with false
 <useSecurity>true</useSecurity>

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