# Installing and Setting up Jenkins

#### **Installing Jenkins**

- Refer
  - <a href="https://sites/https://github.com/atingupta2005/Jenkins-5-Days-Training-Material/blob/master/Hands-On/Participants/1-Installing-Jenkins.md">https://sites/https:

#### Setting up Jenkins

- Visit:
  - http://your ip or domain:8080

- Take password:
  - sudo cat /var/lib/jenkins/secrets/ initialAdminPassword

Customize Jenkins

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

Install suggested plugins

Install plugins the Jenkins community finds most useful.

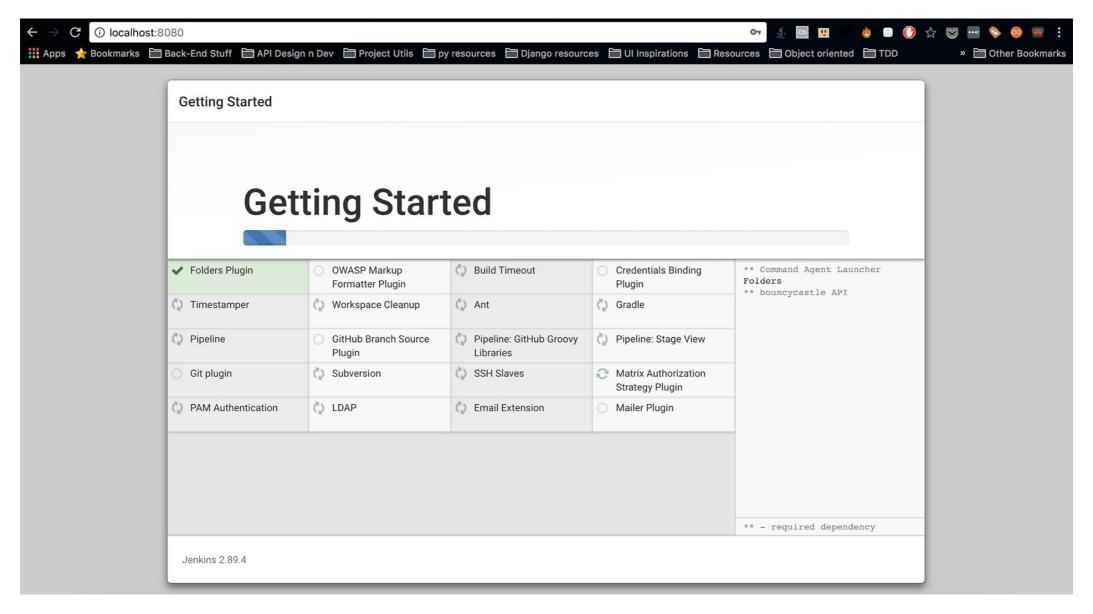
Select plugins to install

Select and install plugins most suitable for your needs.

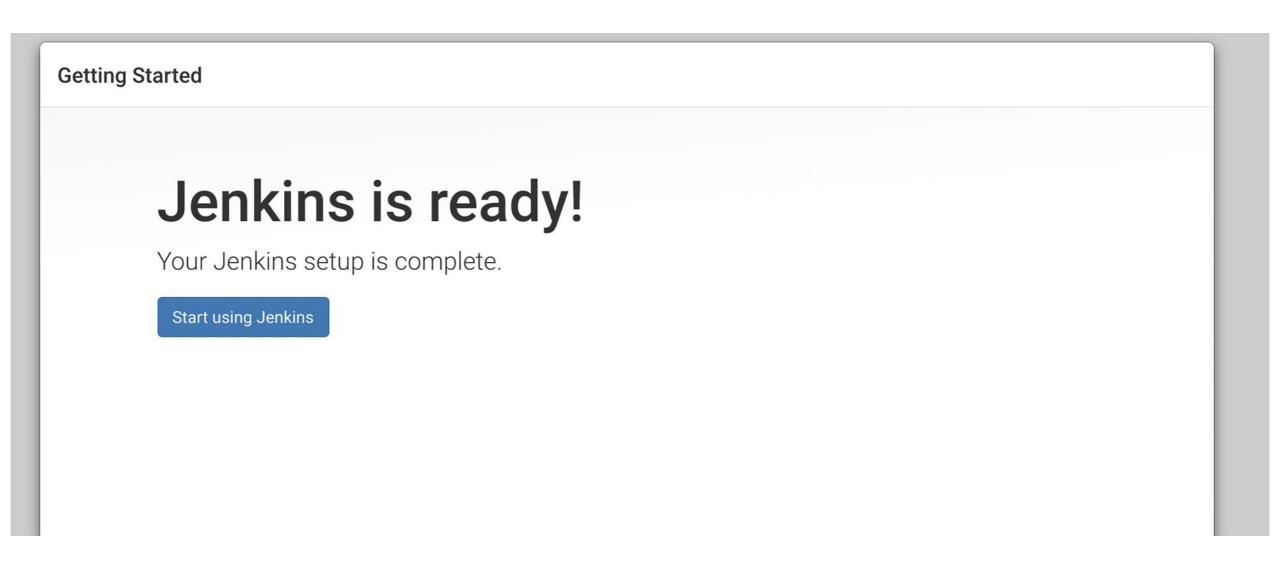
Jenkins 2.89.4

- Click on the Install suggested plugins box
- Once the plugins are installed, you will be prompted to set up the first admin user
- Fill out all required information and click Save and Continue

### Setting up Jenkins

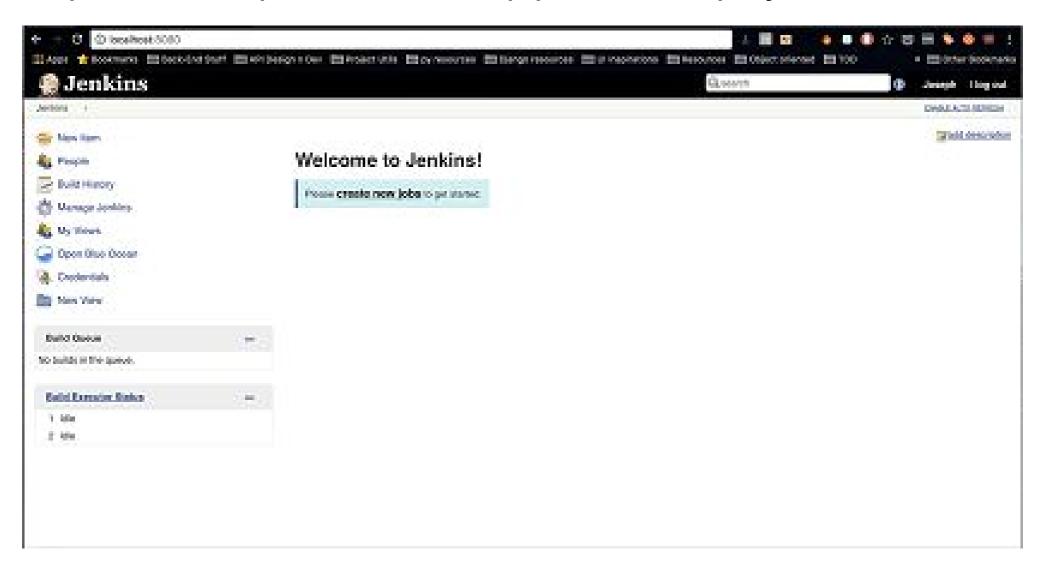


## Setting up Jenkins



#### The Jenkins Dashboard

Central point of all operations in our pipelines and projects.

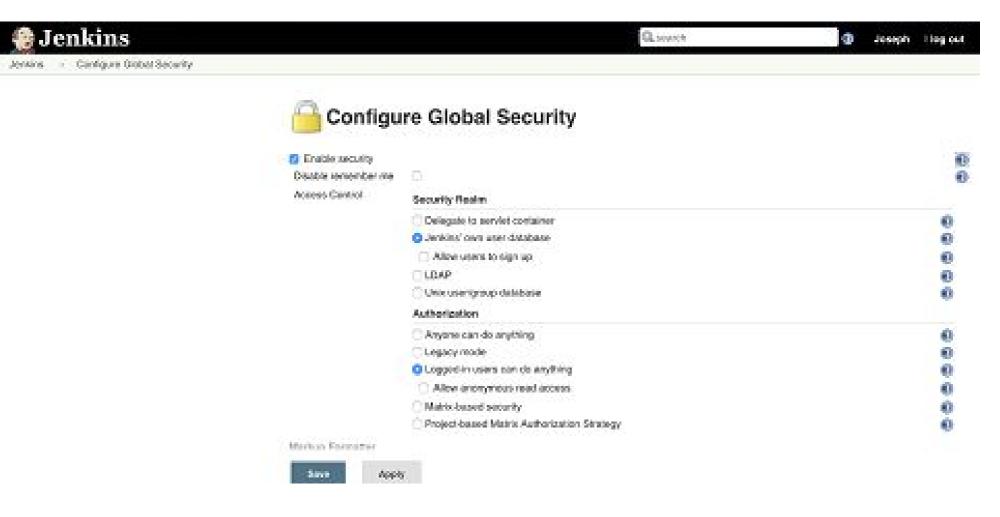


#### User Management

Describes the ability of administrators to control access to resources

Open Manage Jenkins and then select the **Configure Global Security** settings

as follows



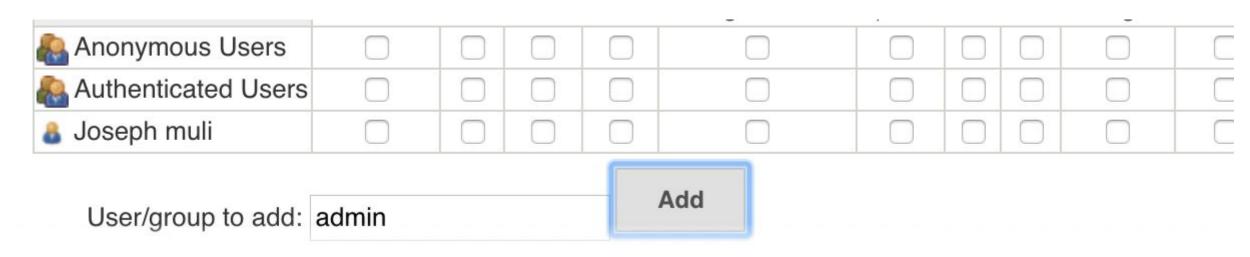
#### **User Management and Security**

#### Authorization Anyone can do anything Legacy mode Logged-in users can do anything Matrix-based security Credentials Job Overall Agent User/group AdministerReadCreateDeleteManageDomainsUpdateViewBuildConfigureConnectCreateDeleteDisconnectBuildCancelConfigureCreateDeleteDiscoverMoveRead Anonymous Users Authenticated Users Add User/group to add: Project-based Matrix Authorization Strategy

- Matrix-based security
  - Allows Admin to grant permissions in groups

#### User Management and Security

- Click on Add, and user first and last names should appear on the list.
- Select all checkboxes for the administrator, and then select Apply and save the changes



Note: Need to first create a user – Manage Jenkins -> Manage Users

#### Assignment: User Management and Security

- Scenario: You have been asked to create two user accounts:
  - Ops engineer and a developer account
- Both users should have different access levels from the administrator account
- The Ops engineer will only not be able to do the following
  - Administer
  - Create credentials
  - View credentials
  - Delete credentials
  - Update credentials
- The developer will only be able to have overall Read permissions.

#### **Steps for Completion**

- Select the Manage Jenkins option from the configuration panel
- Select the Manage Users option
- Select the Create User option on the left-hand side navigation bar
- Go to the Configure Global Security option
- Under Authorization, select Matrix-based security
- Add the new users.
- Update the users' permissions as shown in the following screenshot:

### **Steps for Completion**

Matrix-based security

User/group	Overall		Credentials					Agent					
	Administer	Read	Create	Delete	ManageDomains	Update	View	Build	Configure	Connect	Create	Delete	Disconnect
Anonymous Users													
Authenticated Users													
Joseph muli					<b>⊘</b>		V				<b>✓</b>		
Ops Engineer			<b>V</b>	<b>/</b>			<b>✓</b>						
& Dev One													

