

# Jenkins ACL Setup

## Step 1:

### Install “Role-based Authorization Strategy” Plugin

1. Goto Manage Jenkins Manager Plugins available tab search for “Role-based Authorization Strategy” plugin: install and restart

Reference: <https://plugins.jenkins.io/role-strategy/>

ishboard > Plugin Manager

Back to Dashboard

Manage Jenkins

Updates

Available

Installed

Advanced


Enabled	Name ↓	Version	Previously installed version	Uninstall
<input checked="" type="checkbox"/>	<b>Matrix Authorization Strategy</b> Offers matrix-based security authorization strategies (global and per-project).	2.6.7		Uninstall
<input checked="" type="checkbox"/>	<b>Role-based Authorization Strategy</b> Enables user authorization using a Role-Based strategy. Roles can be defined globally or for particular jobs or nodes selected by regular expressions.	3.1.1		Uninstall

## Step 2:

### Enabling Role-based Authorization:

1. Goto Manage Jenkins Configure Global Security
  - a. Under Authorization select Role-Based Strategy and save.

Dashboard > Configure Global Security

 **Configure Global Security**

**Authentication**

☐ Disable remember me

**Security Realm**

☐ Delegate to servlet container

☒ Jenkins' own user database

☐ Allow users to sign up

☐ LDAP

☐ Login with Google

☐ Unix user/group database

☐ None

**Authorization**

☐ Anyone can do anything

☐ Legacy mode

☐ Logged-in users can do anything

☐ Matrix-based security

☐ Project-based Matrix Authorization Strategy

☒ Role-Based Strategy







Save

Apply

## Step 3:

### Create roles and assign privileges

1. Goto Manage Jenkins Manage and Assign Roles “Manage Roles”

-  New Item
-  People
-  Build History
-  Project Relationship
-  Check File Fingerprint
-  Job Config History



## Manage and Assign Roles



### Manage Roles

Manage Roles



### Assign Roles

Assign Roles



### Role Strategy Macros

Provides info about macro usage and available macros

#### 2. Creation of Global roles

- Provide the role name under “Global roles” “Role to add” text box and click add
- Select the role accesses as per the requirement



## Manage Roles

### Global roles

Role	Overall			Credentials			Agent												
	Administer	Read	SystemRead	Create	Delete	ManageDomains	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	ExtendedRead	Provision	Build	Cancel	Configure
admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
devops	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Role to add

Add

#### 3. Creation of Item Roles

- Provide role name in “role to add” text box and
- Enter the Pattern for job to which this role should have access. and click add
- Repeat the same for all the item roles.
- Click on Save

## Item roles

Role	Pattern	Credentials				Job										Run			Job Config History	SCM	Lockable Resources				
		Create	Delete	ManageDomains	Update	View	Build	Cancel	Configure	Create	Delete	Discover	ExtendedRead	Move	Read	Workspace	Delete	Replay			Update	DeleteEntry	Tag	Reserve	Unlock
	az-prod "az-prod.*"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	az-stage "az-stage.*"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	fun2-prod "fun2-prod.*"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	fun2-stage "fun2-stage.*"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	rr-prod "rr-prod.*"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	rr-stage "rr-stage.*"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Role to add

Pattern









Add

## Step 4:

### Assign roles to the users

1. Goto Manage Jenkins > Configure Global Security > Assign roles
2. Under global roles section, enter the user name for which you want to assign the global role and click on add button.
3. Select the global role for that user
4. Do the same for all the required users.

### Global roles














User/group	admin	devops
 argoid	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 azadea-prod	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 azadea-stage	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 fun2-prod	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 fun2-stage	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 rarerrabbit-prod	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 rarerrabbit-stage	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 Anonymous	<input type="checkbox"/>	<input type="checkbox"/>

User/group to add

Add

5. Under item roles section, enter the user name for which you want to assign the item role and click on add button.
6. Select the item roles for that user
7. Do the same for all the required users.
8. And Click on save

Item roles

User/group	az-prod	az-stage	fun2-prod	fun2-stage	rr-prod	rr-stage
  azadea-prod	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
  azadea-stage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
  fun2-prod	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
  fun2-stage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
  rarerrabbit-prod	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
  rarerrabbit-stage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

User/group to add



Add