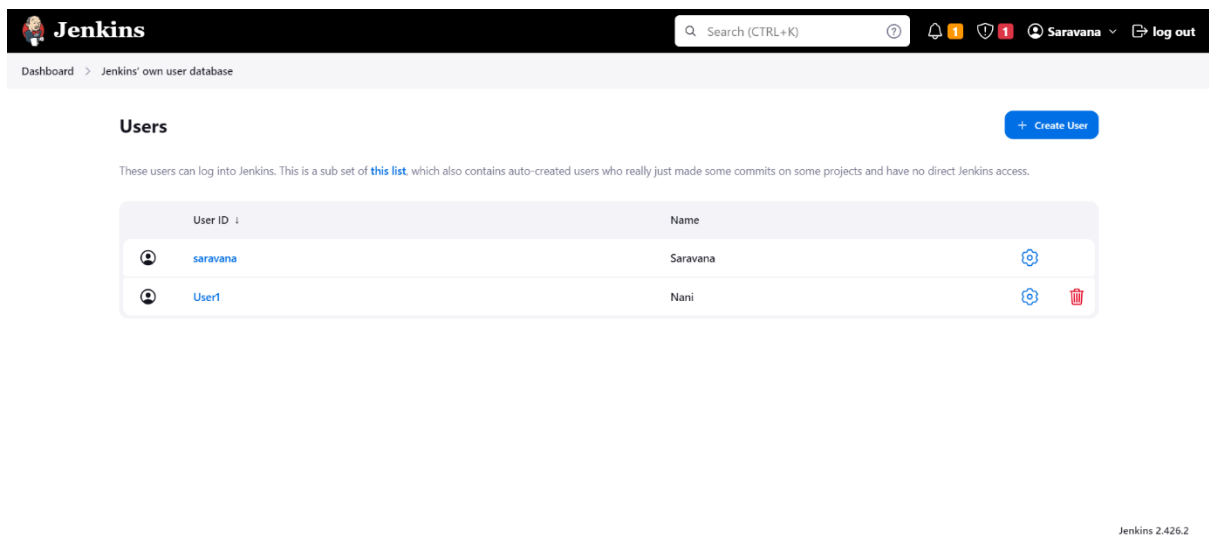

End-to-End CI/CD Pipeline Implementation with Jenkins, Tomcat, Nexus, and RBAC

1. Login to Jenkins Master server & Create a User

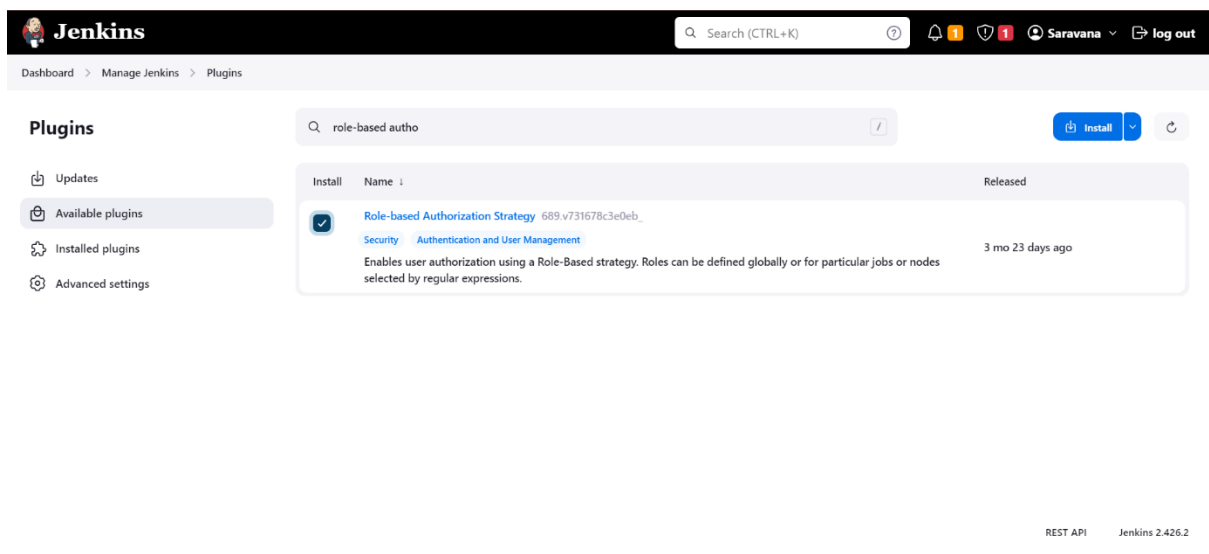


The screenshot shows the Jenkins 'Users' page. At the top, there's a search bar and a '+ Create User' button. Below, a table lists existing users. The table has columns for 'User ID', 'Name', and actions. Two users are listed: 'saravana' and 'User1'. A note explains that these users can log into Jenkins and are a subset of a larger list.

| User ID | Name | |
|----------|----------|--|
| saravana | Saravana | |
| User1 | Nani | |

Jenkins 2.426.2

2. Install Role-based Authorization Strategy Plugin

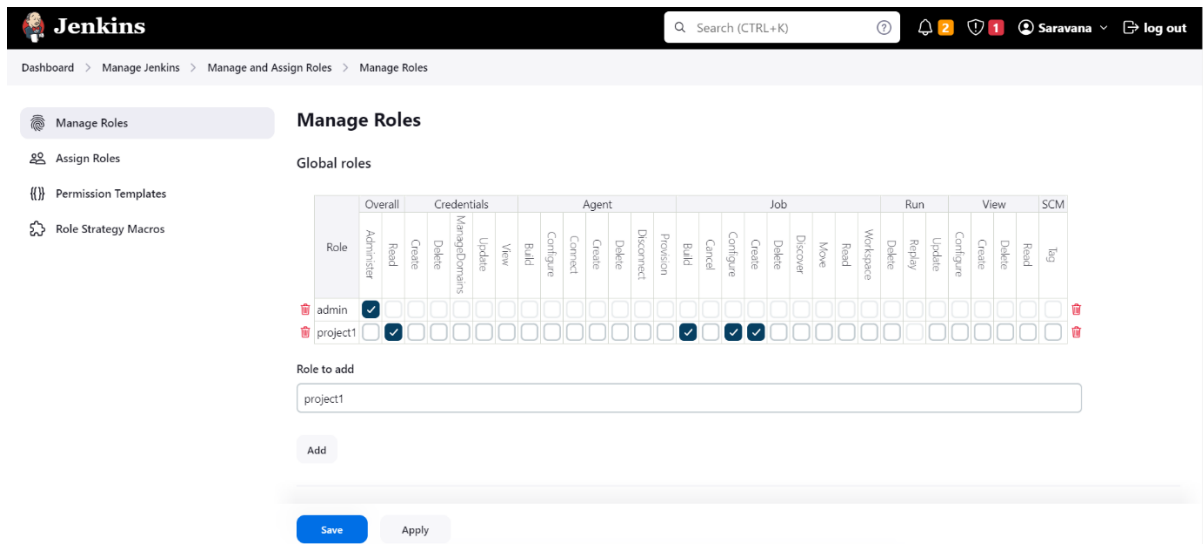


The screenshot shows the Jenkins 'Plugins' page. A search bar contains 'role-based autho'. The 'Available plugins' tab is selected. A table lists the 'Role-based Authorization Strategy' plugin. The table has columns for 'Install', 'Name', and 'Released'. The plugin is marked as installed with a checkmark. The name is 'Role-based Authorization Strategy' with version '689.v731678c3e0eb'. The description states it enables user authorization using a Role-Based strategy. The release date is '3 mo 23 days ago'.

| Install | Name | Released |
|---------|---|------------------|
| | Role-based Authorization Strategy 689.v731678c3e0eb Security Authentication and User Management Enables user authorization using a Role-Based strategy. Roles can be defined globally or for particular jobs or nodes selected by regular expressions. | 3 mo 23 days ago |

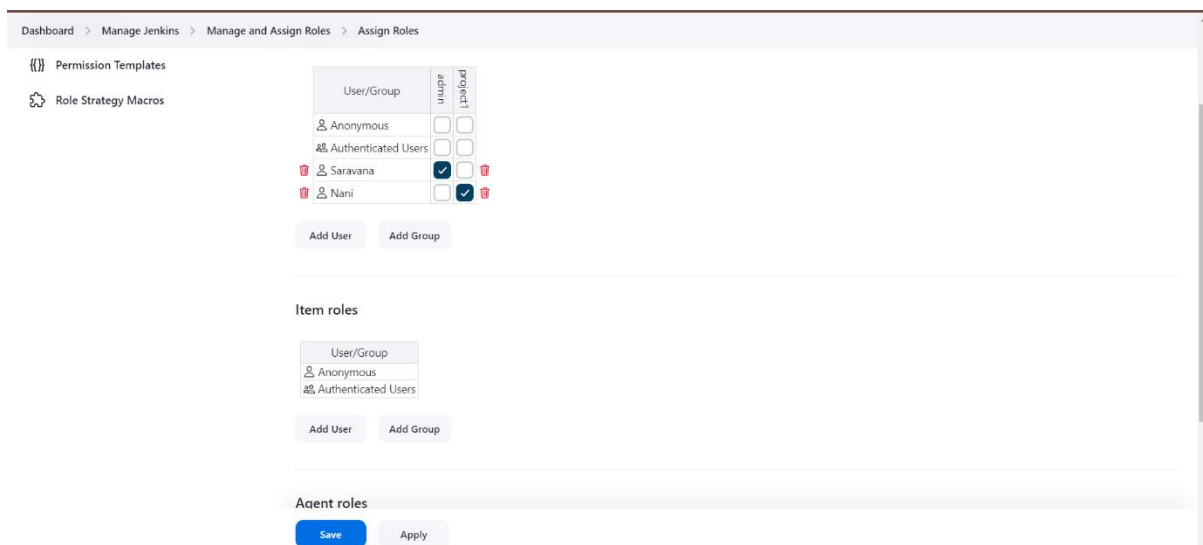
REST API Jenkins 2.426.2

3. Create a Role For User & Assign The Role To User



The screenshot shows the Jenkins 'Manage Roles' page. The breadcrumb trail is 'Dashboard > Manage Jenkins > Manage and Assign Roles > Manage Roles'. The left sidebar contains 'Manage Roles' (selected), 'Assign Roles', 'Permission Templates', and 'Role Strategy Macros'. The main area is titled 'Manage Roles' and shows 'Global roles'. A table lists roles and their permissions across categories: Overall, Credentials, Agent, Job, Run, View, and SCM. The 'admin' role has 'Overall' permissions checked, while 'project1' has 'Overall' and 'Credentials' permissions checked. Below the table, there is a 'Role to add' input field containing 'project1' and an 'Add' button. At the bottom are 'Save' and 'Apply' buttons.


| Role | Overall | Credentials | Agent | Job | Run | View | SCM |
|----------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| admin | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| project1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



The screenshot shows the Jenkins 'Assign Roles' page. The breadcrumb trail is 'Dashboard > Manage Jenkins > Manage and Assign Roles > Assign Roles'. The left sidebar contains 'Permission Templates' and 'Role Strategy Macros'. The main area is titled 'Assign Roles' and shows 'User/Group' and 'Item roles'. Under 'User/Group', there is a table with columns 'User/Group', 'admin', and 'project1'. The 'Saravana' user has 'admin' permissions checked, and the 'Nani' user has 'project1' permissions checked. Below this table are 'Add User' and 'Add Group' buttons. Under 'Item roles', there is a table with columns 'User/Group', 'Anonymous', and 'Authenticated Users'. Below this table are 'Add User' and 'Add Group' buttons. At the bottom are 'Save' and 'Apply' buttons.

| User/Group | admin | project1 |
|---------------------|-------------------------------------|-------------------------------------|
| Anonymous | <input type="checkbox"/> | <input type="checkbox"/> |
| Authenticated Users | <input type="checkbox"/> | <input type="checkbox"/> |
| Saravana | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Nani | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

4. Login TO Jenkins User Console



Sign in to Jenkins

Username
User1

Password

☐ Keep me signed in

Sign in

5. Create A PIPELINE-JOB in Jenkins for Nexus & Deployment

Dashboard > Netflix-pipeline > Configuration

Configure

- General
- Advanced Project Options
- Pipeline

Script ?

```
1= pipeline {
2  agent any
3
4  stages {
5    stage('checkout') {
6      steps {
7        git 'https://github.com/devopshybrahan/jenkins-java-project.git'
8      }
9    }
10   stage('build') {
11     steps {
12       sh 'mvn compile'
13     }
14   }
15   stage('test') {
16     steps {
17       sh 'mvn test'
18     }
19   }
20   stage('Artifact') {
21     steps {
22       sh 'mvn clean package'
23     }
24   }
25   stage('nexus') {
26     steps {
27       nexusArtifactUploader artifacts: [[artifactId: 'NETFLIX', classifier: '', file: 'target/NETFLIX-1.2.2.war', type: 'war']], credentialsId: ''
28     }
29   }
30   stage('Deployment') {
31     input {
32       message "pls check the parameters ?"
33       ok "yes"
34     }
35     steps {
36       deployAdapters: [
37         {
38           credentialsId: 'b75d239e-b81a-4758-9b8a-9534be0d31e9',
39           path: ' ',
40           url: 'http://34.227.150.184:8080/'
41         },
42         {
43           contextPath: 'netflix',
44           war: 'target/*.war'
45         }
46       ]
47   }
```

Save Apply

6. Create A Nexus Maven Mater Repository to Store Artifact

The screenshot shows the Sonatype Nexus Repository OSS 3.63.0-01 interface. The left sidebar contains the 'Administration' menu with options like Repository, Repositories, Blob Stores, Proprietary Repositories, Content Selectors, Cleanup Policies, Routing Rules, Security, Privileges, Roles, Users, Anonymous Access, LDAP, and Realms. The main content area is titled 'Repositories' and shows the configuration for a new repository named 'devop'. The configuration includes fields for Name, Online status, Version policy (Release), Layout policy (Strict), Content Disposition (Inline), Blob store (default), and Strict Content Type Validation (checked).

Sonatype Nexus Repository
OSS 3.63.0-01

Search components

admin Sign out

Administration

Repositories

Repositories

Repository

Repositories

Blob Stores

Proprietary Repositories

Content Selectors

Cleanup Policies

Routing Rules

Security

Privileges

Roles

Users

Anonymous Access

LDAP

Realms

Repositories / Select Recipe / Create Repository: maven2 (hosted)

Name: A unique identifier for this repository
devop

Online: ☒ If checked, the repository accepts incoming requests

Maven 2

Version policy:
What type of artifacts does this repository store?
Release

Layout policy:
Validate that all paths are maven artifact or metadata paths
Strict

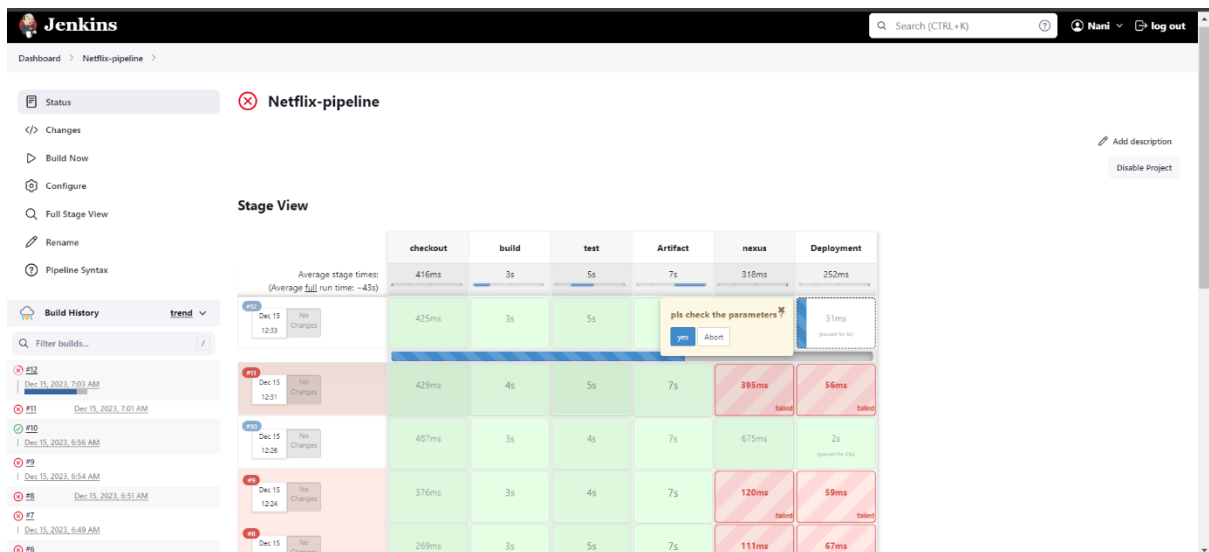
Content Disposition:
Add Content-Disposition header as 'Attachment' to disable some content from being inline in a browser.
Inline

Storage



Blob store:
Blob store used to store repository contents
default

Strict Content Type Validation:
☒ Validate that all content uploaded to this repository is of a MIME type appropriate for the repository format

7. Automate the Job Build Using Cron Job



8. Final Deployment Of Netflix Application On Tomcat



Tomcat Web Application Manager

Message: OK

Manager

[List Applications](#) | [HTML Manager Help](#) | [Manager Help](#) | [Server Status](#)


Applications

| Path | Version | Display Name | Running | Sessions | Commands |
|---------------|----------------|-----------------------------------|---------|----------|--|
| / | None specified | Welcome to Tomcat | true | 0 | Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes |
| /docs | None specified | Tomcat Documentation | true | 0 | Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes |
| /examples | None specified | Servlet and JSP Examples | true | 0 | Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes |
| /host-manager | None specified | Tomcat Host Manager Application | true | 0 | Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes |
| /manager | None specified | Tomcat Manager Application | true | 1 | Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes |
| /netflix | None specified | Archetype Created Web Application | true | 0 | Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes |

Deploy
Deploy directory or WAR file located on server

← → ↻ 🔒 Not secure 54.145.138.104:8080/netflix/ 🔍 ☆ 📄 📱 🌐

Free Cloud Comput... Certificate Manager Launch an instance j... skyaws.shop - details CloudFront AWS Certificate Ma...



NETFLIX SIGN IN V-5.0

WELCOME TO NETFLIX V-7

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