





Procedure:

1: Go to Jenkins dashboard and go to manage Jenkins and Credentials :

**Jenkins**


1


admin


log out


Dashboard > Manage Jenkins > Credentials

+ New Item

 People

 Build History

 Manage Jenkins

 My Views

Build Queue



No builds in the queue.

Build Executor Status


1 Idle

2 Idle

Credentials


T	P	Store	Domain	ID	Name
		Jenkins	(global)	sonarqube-token	sonarqube-token


Stores scoped to Jenkins


P	Store	Domains
	Jenkins	(global)


Icon: S M L

2: After that go to the system :

**Jenkins**


1


admin


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Dashboard > Manage Jenkins > Credentials

+ New Item

 People

 Build History

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 My Views

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No builds in the queue.

Build Executor Status


1 Idle

2 Idle

Credentials

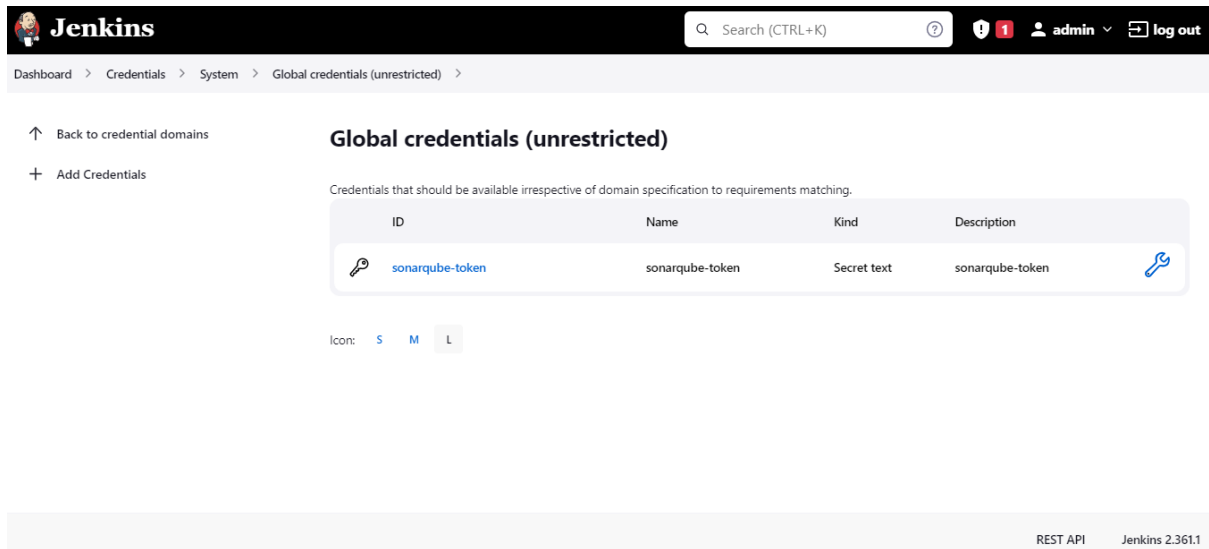
T	P	Store	Domain	ID	Name
		Jenkins	(global)	sonarqube-token	sonarqube-token

Stores scoped to Jenkins



P	Store	Domains
	Jenkins	(global)

Icon: S M L

3: After that go to the global credentials:

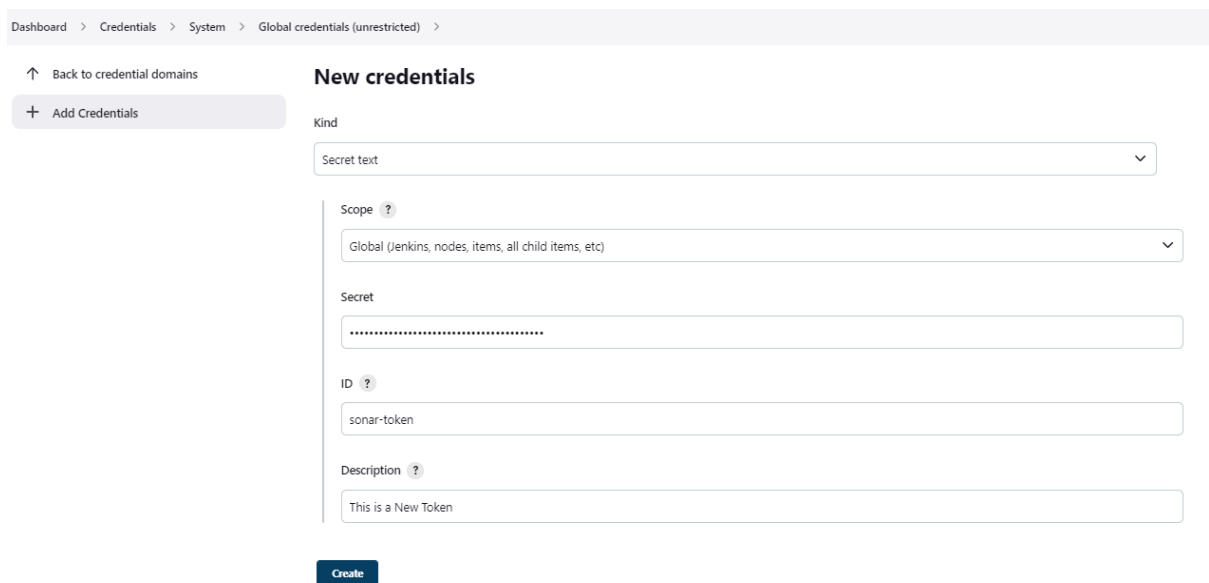


The screenshot shows the Jenkins web interface. At the top is the Jenkins logo and a search bar. Below the header is a breadcrumb trail: Dashboard > Credentials > System > Global credentials (unrestricted) >. On the left sidebar, there are two links: 'Back to credential domains' and 'Add Credentials'. The main content area is titled 'Global credentials (unrestricted)' and contains a sub-header: 'Credentials that should be available irrespective of domain specification to requirements matching.' Below this is a table with the following data:

ID	Name	Kind	Description
 sonarqube-token	sonarqube-token	Secret text	sonarqube-token 

Below the table, there is a section for 'Icon' with three tabs: S, M, and L. At the bottom right of the page, it says 'REST API' and 'Jenkins 2.361.1'.

4: After that go to add credentials and fill information :



The screenshot shows the 'New credentials' form in Jenkins. The breadcrumb trail is: Dashboard > Credentials > System > Global credentials (unrestricted) >. The left sidebar has 'Back to credential domains' and 'Add Credentials'. The form has the following fields:

- Kind:** A dropdown menu with 'Secret text' selected.
- Scope:** A dropdown menu with 'Global (Jenkins, nodes, items, all child items, etc)' selected.
- Secret:** A text input field with a masked value '.....'.
- ID:** A text input field with the value 'sonar-token'.
- Description:** A text input field with the value 'This is a New Token'.

At the bottom of the form is a blue 'Create' button.

5: After that go to manage Jenkins go to Configure system:

Jenkins Search (CTRL+K) admin log out

Dashboard > Manage Jenkins > Configure System

Configure System

Home directory ?
By default, Jenkins stores all of its data in this directory on the file system
C:\ProgramData\Jenkins\jenkins

System Message
This message will be displayed at the top of the Jenkins main page. This can be useful for posting notifications to your users

[Plain text] Preview

of executors
2

Save Apply

6: Scroll down at SonarQube server and add server url of sonarqube:

Dashboard > Manage Jenkins > Configure System

☐ Tool Locations

SonarQube servers

If checked, job administrators will be able to inject a SonarQube server configuration as environment variables in the build.

☒ Environment variables Enable injection of SonarQube server configuration as build environment variables

SonarQube installations

List of SonarQube installations

Name
sonarqube-8.9.2

Server URL
Default is http://localhost:9000
http://localhost:9000/dashboard

Server authentication token
SonarQube authentication token. Mandatory when anonymous access is disabled.

Save Apply

7: After that go to sonarqube and copy that token:

The screenshot shows the SonarQube dashboard for a project named 'demo-project'. The browser address bar shows 'localhost:9000/dashboard?id=demo-project'. The dashboard has a top navigation bar with links for Projects, Issues, Rules, Quality Profiles, Quality Gates, and Administration. Below the navigation bar, there's a search bar and a user profile icon. The main content area is titled 'Analyze your project' and includes a message: 'We initialized your project on SonarQube, now it's up to you to launch analyses!'. There are two steps in a sequence: 1. 'Provide a token' and 2. 'Run analysis on your project'. Step 1 is active and shows a token: 'demo-project: 10a90a9a4be9a9f71729450f5591f9fe204d2408'. A note explains that the token is used for identification and can be revoked. A 'Continue' button is present. At the bottom, there's a yellow warning box stating: 'Embedded database should be used for evaluation purposes only. The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.' Below this, it mentions 'SonarQube™ technology is powered by SonarSource SA' and provides links for Community Edition, Version 8.9.9, LGPL v3, Community, Documentation, Plugins, Web API, and About.

8: Paste that token in to this is new token:

The screenshot shows the Jenkins configuration page for SonarQube. The breadcrumb navigation at the top reads 'Dashboard > Manage Jenkins > Configure System >'. The configuration form has a dashed border and contains the following fields: 'Name' with the value 'sonarqube 8.9.9', 'Server URL' with the value 'http://localhost:9000/dashboard?id=demo-project', and 'Server authentication token' with a dropdown menu showing 'This is a New Token'. There are buttons for '+ Add' and 'Advanced...'. At the bottom of the form, there are 'Save' and 'Apply' buttons.

9: Then go to global tool configuration and scroll down Sonarqube scanner installation add version:

Dashboard > Manage Jenkins > Global Tool Configuration

SonarQube Scanner installations

List of SonarQube Scanner installations on this system

[Add SonarQube Scanner](#)

SonarQube Scanner

Name

☒ Install automatically ?

Install from Maven Central

Version

[Add Installer](#)

[Save](#) [Apply](#)

10: After that go to Jenkins dashboard and create pipeline:

Jenkins Search (CTRL+K) admin log out

Dashboard > All >

Enter an item name

* Required field

Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Folder
A container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a namespace, so you can have multiple things of the same name as long as they are in different folders.

[OK](#)

11: go to advance project option:

Dashboard > sonar-pipeline >

Configuration

- General
- Advanced Project Options**
- Pipeline

Pipeline

Definition

Pipeline script

Script ?

1

try sample Pipeline...

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save Apply

12: After that copy the script from here:

← → ↻ github.com/ravdy/DevOps

jleetutorial/maven-... Google

master 1 branch 0 tags

Go to file Add file Code

ravdy Update README.md a#56d82 27 days ago 53 commits	
Artifactory	Update Integrate_Artifactory_with_Jenkins.md 10 months ago
docker	added docker module 11 months ago
jenkins	Update Jenkins master and slave setup 7 months ago
maven	Create maven_installation.md 2 years ago
sonarqube	Update Sonarqube_with_database.md 13 months ago
README.md	Update README.md 27 days ago
Untitled Diagram.drawio	VPC peering 5 months ago

≡ README.md

DevOps

This repository contains the documents related to DevOps Complete Course.

No description, website, or

Readme

88 stars

4 watching

1.8k forks

Releases

No releases published

Packages

No packages published

Contributors 2

- ravdy
- yankils

13: paste that script over here:

The screenshot shows the Jenkins 'Configuration' page for a pipeline named 'sonar-pipeline'. The left sidebar has 'Pipeline' selected. The main area is titled 'Pipeline' and shows the 'Definition' as 'Pipeline script'. A 'Script' editor contains a Groovy script for a SonarQube analysis stage. Below the editor, the 'Use Groovy Sandbox' checkbox is checked. At the bottom are 'Save' and 'Apply' buttons.

```
13  steps{
14      sh 'mvn clean package'
15  }
16  }
17  stage('SonarQube analysis') {
18      def scannerHome = tool 'SonarScanner 4.0';
19      //
20      steps{
21          withSonarQubeEnv('sonarqube-8.9') {
22              // If you have configured more than one global server connection, you can specify its name
23              sh "s${scannerHome}/bin/sonar-scanner"
24          }
25      }
26  }
27  }
28  }
```

14: go to status :

The screenshot shows the Jenkins 'Status' page for the 'sonar-pipeline'. The left sidebar shows 'Status' selected. The main area displays the pipeline name 'Pipeline sonar-pipeline' and a description 'This is Sonar-pipeline hehehehee'. There are buttons for 'Edit description' and 'Disable Project'. Below this is a 'Stage View' section with a message: 'No data available. This Pipeline has not yet run.' At the bottom, there is a 'Build History' section showing 'No builds'.

15 : After this we can see status of our project is there any bugs or not on the dashboard of sonarqube but due to some script issue we are not able to proceed further.