Managing Jenkins
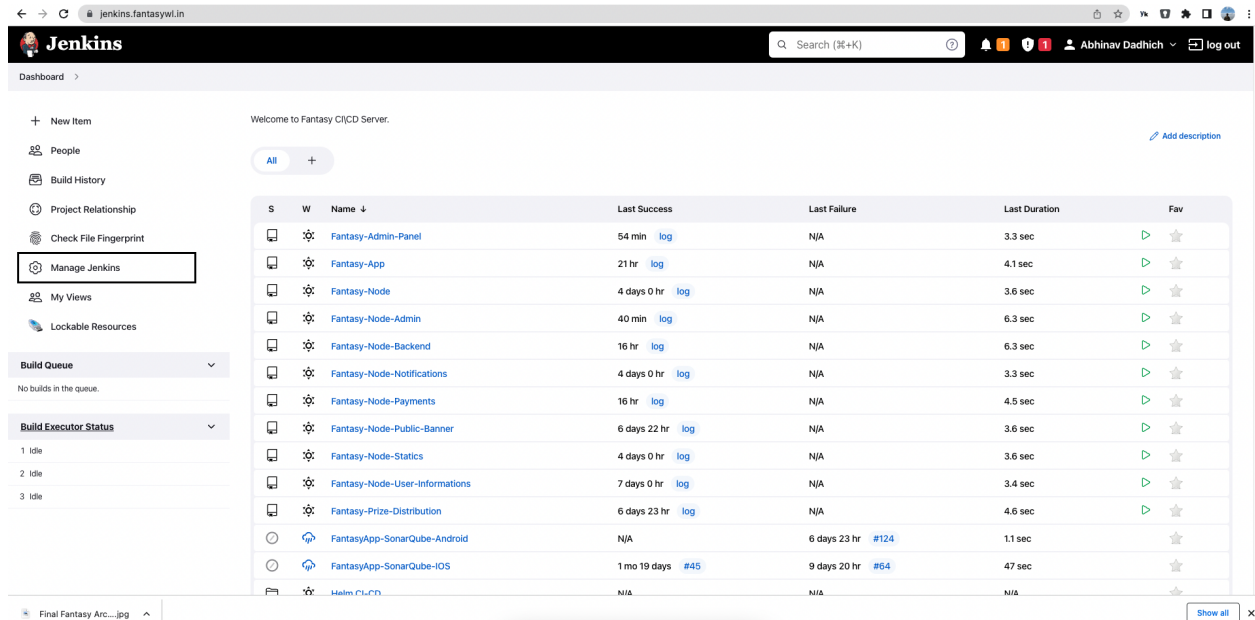
Most of the standard administrative tasks can be performed from the console in the Manage Jenkins section of the dashboard.

System Configuration :-

Configure System
Configure global settings and paths for the Jenkins instance

+ New Item
People
Build History
Project Relationship
Check File Fingerprint
Manage Jenkins
My Views
Lockable Resources

Build Queue ∨

No builds in the queue.

Build Executor Status ∨

1 Idle
2 Idle
3 Idle

Configure System

Home directory ?

By default, Jenkins stores all of its data in this directory on the file system

```
/var/jenkins_home
```

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

```
Welcome to Fantasy CI\CD Server.
```

[Plain text] Preview

# of executors

```
3
```

Labels

Usage ?

```
Use this node as much as possible                    ∨
```

Quiet period ?

Save   Apply

Global Tool Configuration

Configure tools, their locations, and automatic installers

↑ Back to Dashboard
⚙ Manage Jenkins

Global Tool Configuration

Maven Configuration

Default settings provider

```
Use default maven settings                           ∨
```  ?

Default global settings provider

```
Use default maven global settings                    ∨
```  ?

JDK

JDK installations

List of JDK installations on this system

Add JDK

Git

Git installations

≡ Git   ×

Save   Apply

Manage Plugins

Add, update, remove, disable/enable plugins that extend the functionality of Jenkins.

Plugin Manager

| Updates | Available | Installed | Advanced |

Q Filter

	Name ↓			Released	Installed
☐	**Active Choices** 2.6.4 User Interface Build Parameters This plug-in provides additional parameter types for jobs, that allow you to cascade changes and render images or other HTML elements instead of the traditional parameter.			2 mo 12 days ago 2.6.3	
☐	**Amazon ECR** 1.107.ve50d37906739 aws This plugin generates Docker authentication token from Amazon Credentials to access Amazon ECR.			11 days ago	1.73.v741d474abe74
☐	**Blue Ocean Core JS** 1.25.8 Blue Ocean Core JS Plugin. This plugin is a part of the Blue Ocean Plugin set.			2 mo 5 days ago 1.25.5	
☐	**Bootstrap 5 API** 5.2.1-3 Library plugins (for use by other plugins) Provides Bootstrap 5 for Jenkins Plugins. Bootstrap is (according to their self-perception) the world's most popular front-end component library to build responsive, mobile-first projects on the web.			1 mo 13 days ago 5.1.3-7	
☐	**Checks API** 1.8.0 Build Notifiers Build Reports Library plugins (for use by other plugins) Other Post-Build Actions			13 days ago	1.7.4

| Download now and install after restart | Update information obtained: 1 day 23 hr ago | Check now |

Manage Nodes and Clouds

Add, remove, control, and monitor the nodes used for the agents on which build jobs run.

↑ Back to Dashboard
⚙ Manage Jenkins
+ New Node
☁ Configure Clouds
⚙ Node Monitoring

Build Queue   ⌄
No builds in the queue.

Build Executor Status   ⌄
1 Idle
2 Idle
3 Idle

Manage nodes and clouds

| Refresh status |

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
🖥	Built-In Node	Linux (amd64)	In sync	8589934588.75 GB	🔴 0 B	28.96 GB	0ms ⚙
	Data obtained	53 min	53 min	53 min	53 min	53 min	53 min

REST API   Jenkins 2.361.3

Configuration as Code

Configure your Jenkins instance using a human-readable YAML file rather than the UI. This is an optional feature that appears in this group only when the plugin is installed on your controller, it contains all the configuration in a human-readable YAML file with all our cluster creds, aws creds, RBAC, etc. Each and every configuration which we have performed over jenkins will be present here in this yaml file.

Configuration as Code

Configuration loaded from :

- /var/jenkins_home/casc_configs

Last time applied : Nov 7, 2022, 6:43:41 AM UTC

Replace configuration source with:

Path or URL

[   ]

[Apply new configuration]

Actions

[Reload existing configuration]

[Download Configuration] [View Configuration]

⚠ Export is not intended to offer a directly usable jenkins.yaml configuration. It can be used for inspiration writing your own, be aware export can be partial, or fail for some components.

Reference

Documentation

JSON schema

Jenkins 2.361.3

Security :-

This block deals with Jenkins for general information about managing Jenkins security.

Configure Global Security
Set configuration parameters that secure your Jenkins instance.

↑ Back to Dashboard

⚙ Manage Jenkins

Configure Global Security

Authentication

☐ Disable remember me

Security Realm

[Jenkins' own user database   ⌄] ?

☐ Allow users to sign up ?

Authorization

[Role-Based Strategy   ⌄] ?

Markup Formatter

Markup Formatter

[Plain text   ⌄]

Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.

Agents

[Save] [Apply]

Manage Credentials
Configure the credentials that provide secure access to third-party sites and applications that interact with Jenkins.

🔑	👤 System	(global)	46ff5495-3b37-4ea2-bdc2-20e42438e6ae	Secret text
🔑	👤 System	(global)	8247cbd9-8127-472a-8100-bded28732ecd	Secret text
📱	👤 System	(global)	24f4e983-b9bf-4732-9e5b-cb83e984a35c	yudiz_abhinav/******
🔑	👤 System	(global)	sonarqube-key-ravi	Sonarqube User Based Key
🔑	👤 System	(global)	26f4cc30-6b08-4a4b-b64e-12ca4e4a818a	Secret text
🔑	👤 System	(global)	ae91a969-736d-4e0b-9395-9e12a3f6e56e	Secret text
📱	👤 System	(global)	dd745f35-9a2c-4929-8610-273b0b85cf67	ravijkyada/******
📱	👤 System	(global)	593ca6e1-5a5f-45ee-8e9e-aa0a5c900a2d	yudiz-bhavin/******
📱	👤 System	(global)	github-whook-issue-test	yudiz-bhavin/****** (test for github whook)
📱	👤 System	(global)	github-whook-org	yudiz-bhavin/****** (ghub-wghook-org)
📱	👤 System	(global)	aman-github	yudiz-amanm/******
📱	👤 System	(global)	aman-gitlab	yudiz_AmanM/****** (Aman Gitlab Creds)

Stores scoped to Jenkins

P Store ↓	Domains
👤 System	(global)

Icon: S M L

REST API   Jenkins 2.361.3

Configure Credential Providers
Configure credential providers and types

+ New Item
👥 People
🗂 Build History
⊙ Project Relationship
🔍 Check File Fingerprint
⚙ Manage Jenkins
👥 My Views
🗳 Lockable Resources

Build Queue
No builds in the queue.

Build Executor Status
1 Idle
2 Idle
3 Idle

Configure Credential Providers

Providers

All available	⌄

Types

All available	⌄

Restrictions

Add ▾

[Save] [Apply]

Jenkins 2.361.3

Manage Users

Manage users defined in the Jenkins user database. This is not used if you use a different security realm such as LDAP or AD.

Manage and Assign Roles:

Here Youcan configure the RBAC For the Jenkins Users, You can Create and Assign Respective Roles to the Respective Users.

 IMPORTANT NOTE: Always manage jenkins RBAC Helm Files, and you Must Update Configurations as code in Values.yaml. So whenever jenkins "Restart" It always Picks updated value from the Value.yaml and our configurations will not be lost.

Status Information group :-

System Information
Displays information about the Jenkins environment.

System Log
Jenkins log that contains all java.uil.logging output related to Jenkins.

Load Statistics
Displays information about resource utilization on your Jenkins instance.

About Jenkins
Provides version and license information for your Jenkins instance.

Troubleshooting group :-

Manage Old Data
Remove configuration information related to plugins that have been removed from the instance.

Tools and Actions group :-

Screens for common management tasks and management tools that enable you to do administrative tasks without using the UI.

Reload Configuration from Disk

Discard all data that is loaded in memory and reload everything from the file system. This is useful when you modify configuration files directly on disk.

Jenkins CLI

How to use the Jenkins CLI from a shell or script.

Script Console

Execute an Apache Groovy script for administration, troubleshooting, and diagnostics.

Prepare for Shutdown

Prevents new builds from starting so that the system can be shut down safely. Displays a red banner with a custom message so that users know what is about to happen.

IMPORTANT NOTES :-

1) Use updated Jenkins helm charts :
   https://github.com/jenkinsci/helm-charts/tree/main/charts/jenkins

2) Manage time to time Backup of Configuration as code: as all of our secrets, users creds, cluster creds, aws creds, etc are stored in configuration as code - You can store it in S3 and Setup Pre Signed URL

3) Make Sure You don't Update the plugins which are configured using Helm charts (ie:- values.yaml). Otherwise it will result in version conflict at the time of Jenkins .