

Import/Export configuration

1. Copy Jobs directory

JENKINS_HOME has a fairly obvious directory structure that looks like the following:

```
JENKINS_HOME
+- config.xml      (jenkins root configuration)
+- *.xml           (other site-wide configuration files)
+- userContent     (files in this directory will be served under your http://server/userContent/)
+- fingerprints    (stores fingerprint records)
+- nodes           (slave configurations)
+- plugins         (stores plugins)
+- secrets         (secrets needed when migrating credentials to other servers)
+- workspace       (working directory for the version control system)
  +- [JOBNAME]     (sub directory for each job)
+- jobs
  +- [JOBNAME]     (sub directory for each job)
    +- config.xml  (job configuration file)
    +- latest      (symbolic link to the last successful build)
    +- builds
      +- [BUILD_ID] (for each build)
        +- build.xml (build result summary)
        +- log       (log file)
        +- changelog.xml (change log)
```

All the settings, build logs, artifact archives are stored under the JENKINS_HOME directory. Simply archive this directory to make a back up. Similarly, restoring the data is just replacing the contents of the JENKINS_HOME directory from a back up.

Back ups can be taken without stopping the server, but when you restore, please do stop the server.

Moving/copying/renaming jobs

1. Move a job from one installation of Jenkins to another by simply copying the corresponding job directory.
2. Make a copy of an existing job by making a clone of a job directory by a different name.
3. Rename an existing job by renaming a directory. Note that the if you change a job name you will need to change any other job that tries to call the renamed job.

```
cd $JENKINS_HOME/jobs
tar -czf jobs.tgz jobs
```

copy the files to another server using SCP command

```
scp -r jobs.tgz user@server:$JENKINS_HOME
extract the job folder and restart instance
```

2. Using Job Import plugin

We require Job Import plugin to be installed to import job from one machine to another.

Install plugin ManageJenkins>Mange plugins > Job import

Once Jenkins is installed, Job Import plugin will be displayed in the menu.

 [New Item](#)

 [People](#)

 [Build History](#)





 [Manage Jenkins](#)

 [Lockable Resources](#)

 [Credentials](#)

 [Job Import Plugin](#)


 [New View](#)

| All + | |
|---|---|
| S | W |
|  |  |
|  |  |

Icon: [S](#) [M](#) [L](#)

Goto Managejenkins>configure system >add remote server details

[Remove Jenkins](#)

 [Remote Jenkins](#)

Name

Jenkins Server Name

Url

Jenkins Server Url

Credentials

- none - ▼

 Add ▼

[Remove Jenkins](#)

[add remote Jenkins](#)

Once we click on Query!, Jenkins job will be displayed from the remote Jenkins.

Job Import Plugin

[ENABLE AUTO REFRESH](#)

Job Import Plugin

The [Job Import Plugin](#) lets you import jobs from another Jenkins instance.

Remote Jenkins Instance Selection

Jenkins Server

remote ▼

Remote folder

|

Search into folders ☐

[Query!](#)

Jobs will be imported once user clicks on Import.

Remote Jenkins Job Selection

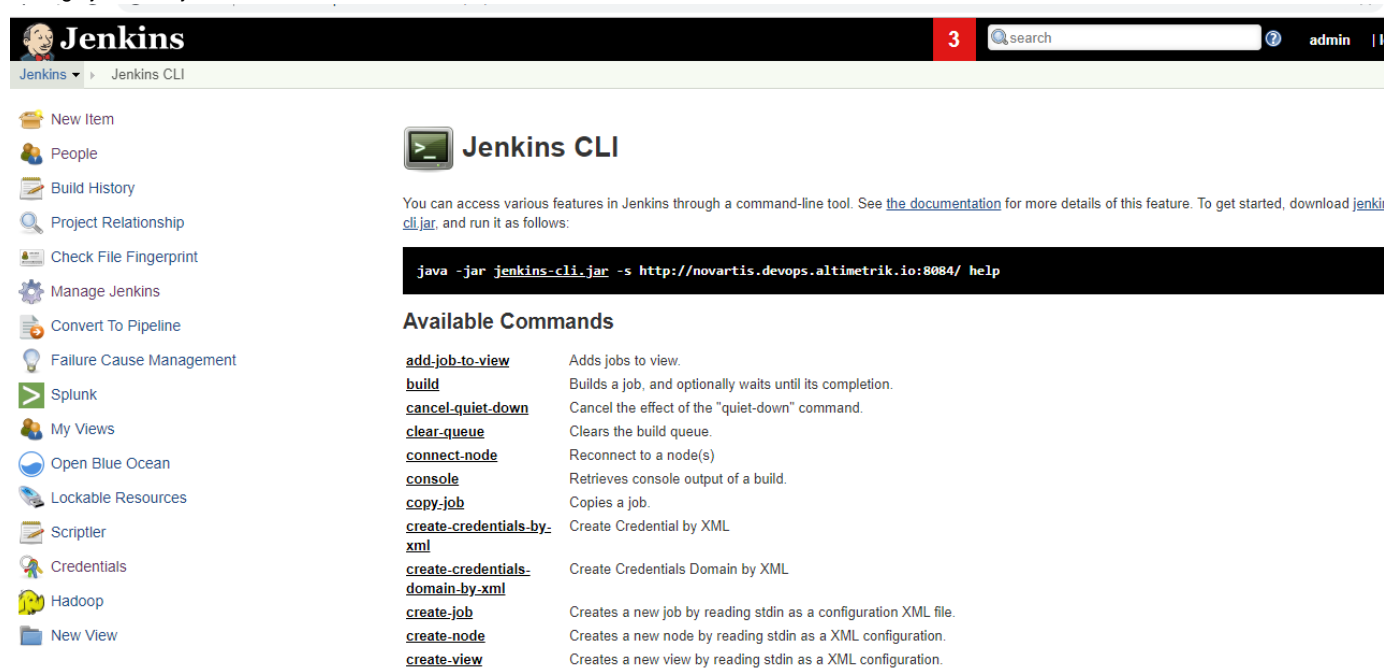
| Import? | Disable? | Name | Description |
|-------------------------------------|--------------------------|----------------------------|-------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | TestingTwo | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | testingOne | |

3. Using Jenkins CLI

steps Import and export jobs in jenkins using Cli

Open Jenkins and Go to the job which you want to export.

Manage jenkins > jenkins Cli



Jenkins CLI

You can access various features in Jenkins through a command-line tool. See [the documentation](#) for more details of this feature. To get started, download [jenkins cli jar](#), and run it as follows:

```
java -jar jenkins-cli.jar -s http://novartis.devops.altimetrik.io:8084/ help
```

Available Commands

| | |
|--|---|
| add-job-to-view | Adds jobs to view. |
| build | Builds a job, and optionally waits until its completion. |
| cancel-quiet-down | Cancel the effect of the "quiet-down" command. |
| clear-queue | Clears the build queue. |
| connect-node | Reconnect to a node(s) |
| console | Retrieves console output of a build. |
| copy-job | Copies a job. |
| create-credentials-by-xml | Create Credential by XML |
| create-credentials-domain-by-xml | Create Credentials Domain by XML |
| create-job | Creates a new job by reading stdin as a configuration XML file. |
| create-node | Creates a new node by reading stdin as a XML configuration. |
| create-view | Creates a new view by reading stdin as a XML configuration. |

Now download CLI Jar as shown below and save.

Once you have jar ready use below command to export job in XML format.

List-jobs

```
java -jar /root/jenkins_back/jenkins-cli.jar -s
http://novartis.devops.altimetrik.io:8084/ list-jobs
```

Xml file for jobs look like:

```
root@ip-172-31-23-68:~/jenkins_back# java -jar /root/jenkins_back/jenkins-cli.jar -s http://novartis.devops.altimetrik.io:8084/ list-jobs
ansible-test
auto
gitlab-demo
java-ecs-job
lambda
ND-63-ansible-nexus
new_project
Nov-demo
novartis_gitlab
POC
QlikTest
scala-hello-world
test-demo-raj
```

Get-job

```
java -jar /root/jenkins_back/jenkins-cli.jar -s  
http://novartis.devops.altimetrik.io:8084/ get-job auto >jenkins.xml
```

Get-job xml files looks like for particular job

```
<?xml version="1.1" encoding="UTF-8"?><flow-definition plugin="workflow-job@2.36">  
  <actions>  
    <org.jenkinsci.plugins.pipeline.modeldefinition.actions.DeclarativeJobAction plugin="pipeline-model-definition@1.5.0"/>  
    <org.jenkinsci.plugins.pipeline.modeldefinition.actions.DeclarativeJobPropertyTrackerAction plugin="pipeline-model-definition@1.5.0">  
      <jobProperties/>  
      <triggers/>  
      <parameters/>  
      <options/>  
    </org.jenkinsci.plugins.pipeline.modeldefinition.actions.DeclarativeJobPropertyTrackerAction>  
  </actions>  
  <description/>  
  <keepDependencies>false</keepDependencies>  
  <properties/>  
  <definition class="org.jenkinsci.plugins.workflow.cps.CpsScmFlowDefinition" plugin="workflow-cps@2.78">  
    <scm class="hudson.plugins.git.GitSCM" plugin="git@4.0.0">  
      <configVersion>2</configVersion>  
      <userRemoteConfigs>  
        <hudson.plugins.git.UserRemoteConfig>  
          <url>https://github.com/vpbobade/demo-java</url>  
        </hudson.plugins.git.UserRemoteConfig>  
      </userRemoteConfigs>  
      <branches>  
        <hudson.plugins.git.BranchSpec>  
          <name>*/master</name>  
        </hudson.plugins.git.BranchSpec>  
      </branches>  
      <doGenerateSubmoduleConfigurations>false</doGenerateSubmoduleConfigurations>  
      <submoduleCfg class="list"/>  
      <extensions/>  
    </scm>  
    <scriptPath>Jenkinsfile_Q1</scriptPath>  
    <lightweight>true</lightweight>  
  </definition>  
  <triggers/>  
  <disabled>false</disabled>  
</flow-definition>
```

To import

```
java -jar jenkins-cli.jar -s newjenkinsserver create-job test<  
jenkins.xml
```

XML file for jobs look like:

```
abc  
airflow-pipe  
Airflow-test  
jfrog-free  
Jira-version  
job  
qualys_pipeline  
scala-hello-world  
secretstest  
test  
test2
```

Shell script for import and export configuration

```
#!/bin/bash

for i in $(java -jar /root/test/jenkins-cli.jar -s
http://54.88.7.101:8080/ list-jobs);
do
    java -jar /root/test/jenkins-cli.jar -s http://54.88.7.101:8080/
get-job ${i} > ${i}.xml
done
for f in *.xml
do
    java -jar /root/test/jenkins-cli.jar -s http://52.200.249.165:8080/
-auth admin:admin create-job ${f%.xml} < ${f}
done
```

To Import Plugins on Remote machine:

To List plugins CMD:

```
java -jar /root/jenkins_back/jenkins-cli.jar -s
http://52.200.249.165:8080/ -auth admin:admin list-plugins
```

Xml for plugins look like:

| | | |
|----------------------------------|---|-------------|
| workflow-job | Pipeline: Job | 2.36 |
| workflow-api | Pipeline: API | 2.38 |
| email-ext | Email Extension Plugin | 2.68 |
| workflow-multibranch | Pipeline: Multibranch | 2.21 |
| branch-api | Branch API Plugin | 2.5.5 |
| antisamy-markup-formatter | OWASP Markup Formatter Plugin | 1.6 |
| github-branch-source | GitHub Branch Source Plugin | 2.5.8 |
| pipeline-stage-view | Pipeline: Stage View Plugin | 2.12 |
| git | Git plugin | 4.0.0 |
| momentjs | JavaScript GUI Lib: Moment.js bundle plugin | 1.1.1 |
| matrix-auth | Matrix Authorization Strategy Plugin | 2.5 |
| bouncycastle-api | bouncycastle API Plugin | 2.17 |
| git-server | GIT server Plugin | 1.9 |
| workflow-cps-global-lib | Pipeline: Shared Groovy Libraries | 2.15 |
| workflow-scm-step | Pipeline: SCM Step | 2.9 |
| docker-commons | Docker Commons Plugin | 1.15 (1.16) |
| mapdb-api | MapDB API Plugin | 1.0.9.0 |
| pipeline-stage-step | Pipeline: Stage Step | 2.3 |
| workflow-step-api | Pipeline: Step API | 2.21 |
| scm-api | SCM API Plugin | 2.6.3 |
| pipeline-github-lib | Pipeline: GitHub Groovy Libraries | 1.0 |
| build-timeout | Build Timeout | 1.19 |
| pipeline-model-definition | Pipeline: Declarative | 1.5.0 |
| pipeline-model-api | Pipeline: Model API | 1.5.0 |
| plain-credentials | Plain Credentials Plugin | 1.5 |
| jackson2-api | Jackson 2 API Plugin | 2.10.1 |
| authentication-tokens | Authentication Tokens API Plugin | 1.3 |
| subversion | Subversion Plug-in | 2.13.0 |
| pipeline-stage-tags-metadata | Pipeline: Stage Tags Metadata | 1.5.0 |
| ham-auth | PAM Authentication plugin | 1.6 |
| command-launcher | Command Agent Launcher Plugin | 1.4 |
| credentials-binding | Credentials Binding Plugin | 1.20 |
| structs | Structs Plugin | 1.20 |
| pipeline-input-step | Pipeline: Input Step | 2.11 |
| script-security | Script Security Plugin | 1.68 |
| gradle | Gradle Plugin | 1.35 |
| credentials | Credentials Plugin | 2.3.0 |
| docker-workflow | Docker Pipeline | 1.21 |
| matrix-project | Matrix Project Plugin | 1.14 |
| trilead-api | Trilead API Plugin | 1.0.5 |
| git-client | Git client plugin | 3.0.0 |
| ant | Ant Plugin | 1.10 |
| pipeline-model-declarative-agent | Pipeline: Declarative Agent API | 1.1.1 |

To install plugins:

```
java -jar /root/jenkins_back/jenkins-cli.jar -s
http://52.200.249.165:8080/ -auth admin:admin install-plugin
${Plugin_Name}
```

Automation shell script to import plugins on remote machine:

```
#!/bin/bash
```

```
for i in $(java -jar /root/test/jenkins-cli.jar -s  
http://54.88.7.101:8080/ list-plugins);
```

```
do
```

```
    java -jar /root/test/jenkins-cli.jar -s http://54.88.7.101:8080/  
get-job ${i} > ${i}.xml
```

```
done
```

```
for f in *.xml
```

```
do
```

```
    java -jar /root/test/jenkins-cli.jar -s http://52.200.249.165:8080/  
-auth admin:admin install-plugin ${f%.xml} < ${f}
```

```
done
```