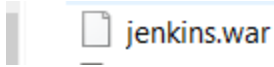


Experiment No. 1

Installation of Jenkins and Execution of a simple Job

Installation:

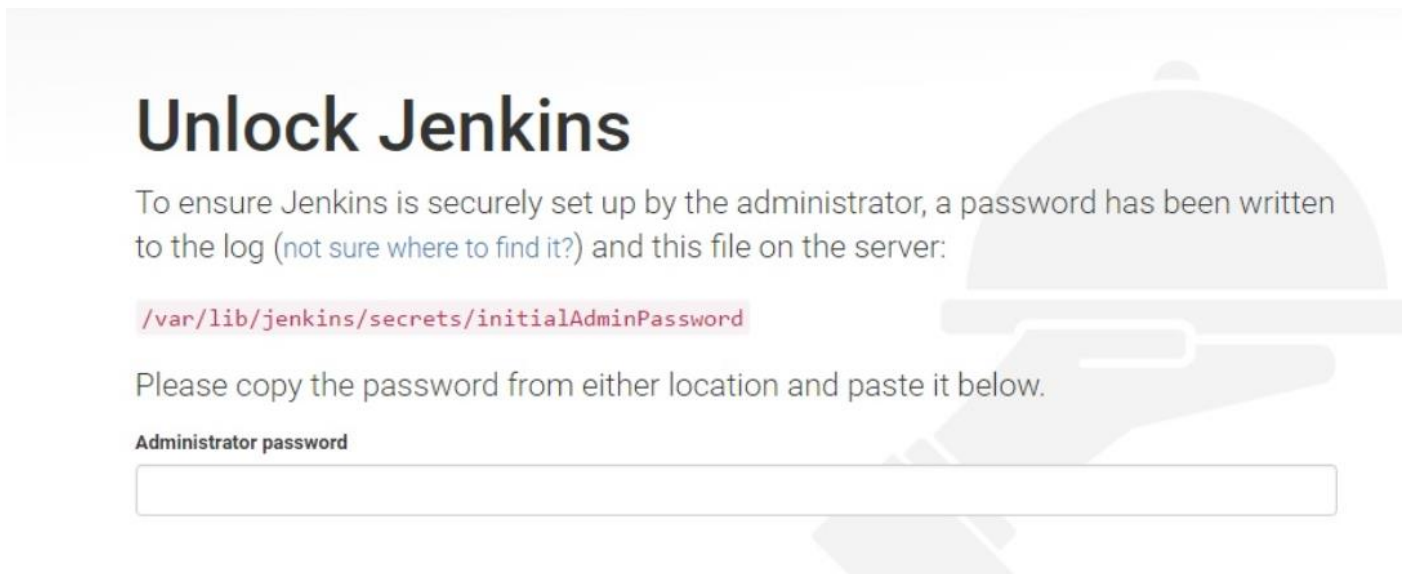
Download Jenkins.war file



Start Jenkins through cmd with command “java -jar Jenkins.war” , can also mention port with `-- httpPort=port_no` , the default port is 8080

```
E:\A_semester_5\CICD>java -jar jenkins.war --httpPort=8081
Running from: E:\A_semester_5\CICD\jenkins.war
webroot: $user.home/.jenkins
2020-08-21 08:00:58.616+0000 [id=1] INFO org.eclipse.jetty.util.I
```

Open **localhost:8081** on browser



Enter Admin password present at the above given location in user's directory

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Getting Started

✓ Folders	✓ OWASP Markup Formatter	✓ Build Timeout	✓ Credentials Binding
✓ Timestamper	✓ Workspace Cleanup	✓ Ant	✓ Gradle
🔄 Pipeline	🔄 GitHub Branch Source	🔄 Pipeline: GitHub Groovy Libraries	✓ Pipeline: Stage View
🔄 Git	🔄 Subversion	🔄 SSH Slaves	🔄 Matrix Authorization Strategy
🔄 PAM Authentication	🔄 LDAP	🔄 Email Extension	🔄 Mailer

Create First Admin User

Username:

Password:

Confirm password:

Full name:

E-mail address:

localhost:8081

Jenkins

search ?

2 Akansha

Jenkins

- New Item
- People
- Build History
- Manage Jenkins
- My Views
- Lockable Resources
- New View

Welcome to Jenkins!

[Create an agent](#) or [configure a cloud](#) to set up distributed builds. [Learn more](#)

[Create a job](#) to start building your software project.

Build Queue

No builds in the queue.

Build Executor Status

- Idle
- Idle

Execution of a simple first job:

Freestyle project to run date command on shell:

Jenkins

search ?


2 Akansha

Jenkins


Enter an item name

FirstJob


» 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**

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

 **GitHub Organization**

github organization (or user account) for all repositories matching some defined markers.

OK

Jenkins > FirstJob >

General Source Code Management Build Triggers **Build Environment** Build Post-build Actions

Build Environment

- ☐ Delete workspace before build starts
- ☐ Use secret text(s) or file(s) ?
- ☐ Abort the build if it's stuck
- ☐ Add timestamps to the Console Output
- ☐ Inspect build log for published Gradle build scans
- ☐ With Ant ?

Build

Execute shell X ?

Command `date`

See [the list of available environment variables](#)

Advanced...

Add build step ▾

Save Apply

Console Output

Started by user [Akansha](#)

Running as SYSTEM


Building in workspace C:\Users\akkan\.jenkins\workspace\FirstJob

```
[FirstJob] $ sh -xe C:\Users\akkan\AppData\Local\Temp\jenkins262899328411943120.sh
```

```
+ date
```

```
Tue Oct 13 00:20:46 IST 2020
```


Finished: SUCCESS


 [Back to Dashboard](#)

 [Status](#)


 [Changes](#)

 [Workspace](#)

 [Build Now](#)


 [Delete Project](#)

 [Configure](#)

 [Rename](#)

Project FirstJob

 [Workspace](#)

 [Recent Changes](#)

Permalinks

- [Last build \(#1\), 38 sec ago](#)
- [Last stable build \(#1\), 38 sec ago](#)
- [Last successful build \(#1\), 38 sec ago](#)
- [Last completed build \(#1\), 38 sec ago](#)

Build History

[trend](#) ▬

×

 **#1** Oct 13, 2020 12:20 AM

 [Atom feed for all](#)  [Atom feed for failures](#)