Instructions for Test Console Setup (mac):

Pre-requisites:

- Jenkins
- Python
- PIP
- GIT
- Virtual Environment

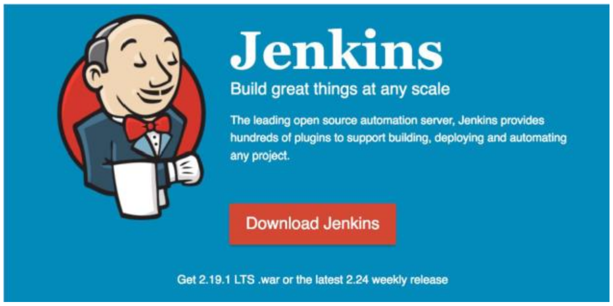
1.Jenkins:

Go to https://jenkins.io/

Download the LTS Release

After Downloading, proceed to install by double tapping on the downloaded file and then clicking on “Agree” button and then entering your password.

Once the installation is done, a window will appear on browser asking to unlock jenkins.

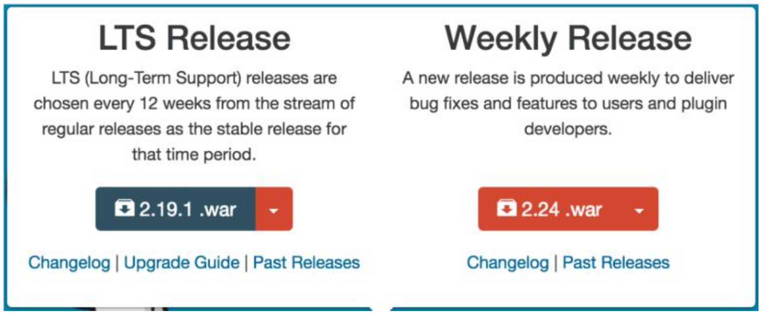


Jenkins

Build great things at any scale

The leading open source automation server, Jenkins provides hundreds of plugins to support building, deploying and automating any project.

Get 2.19.1 LTS .war or the latest 2.24 weekly release



LTS Release

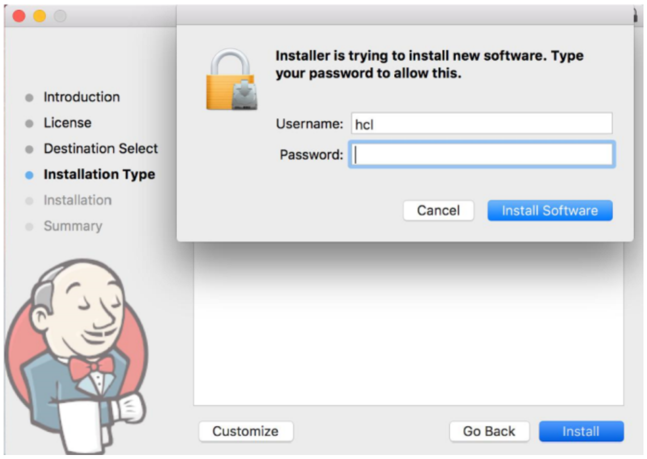
LTS (Long-Term Support) releases are chosen every 12 weeks from the stream of regular releases as the stable release for that time period.

2.19.1 .war
Changelog | Upgrade Guide | Past Releases

Weekly Release

A new release is produced weekly to deliver bug fixes and features to users and plugin developers.

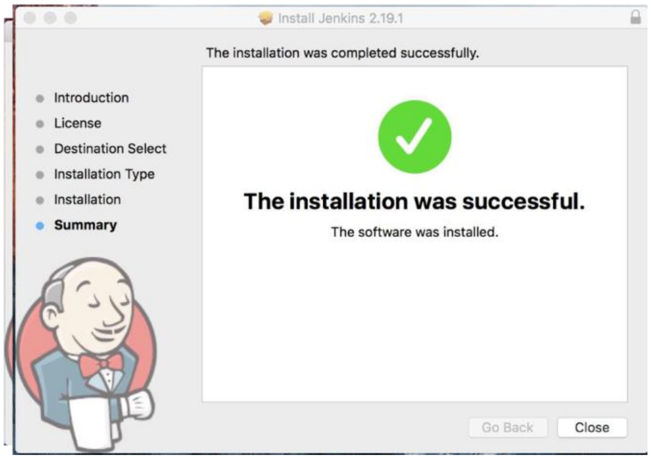
2.24 .war
Changelog | Past Releases



Installer is trying to install new software. Type your password to allow this.

Username: hcl

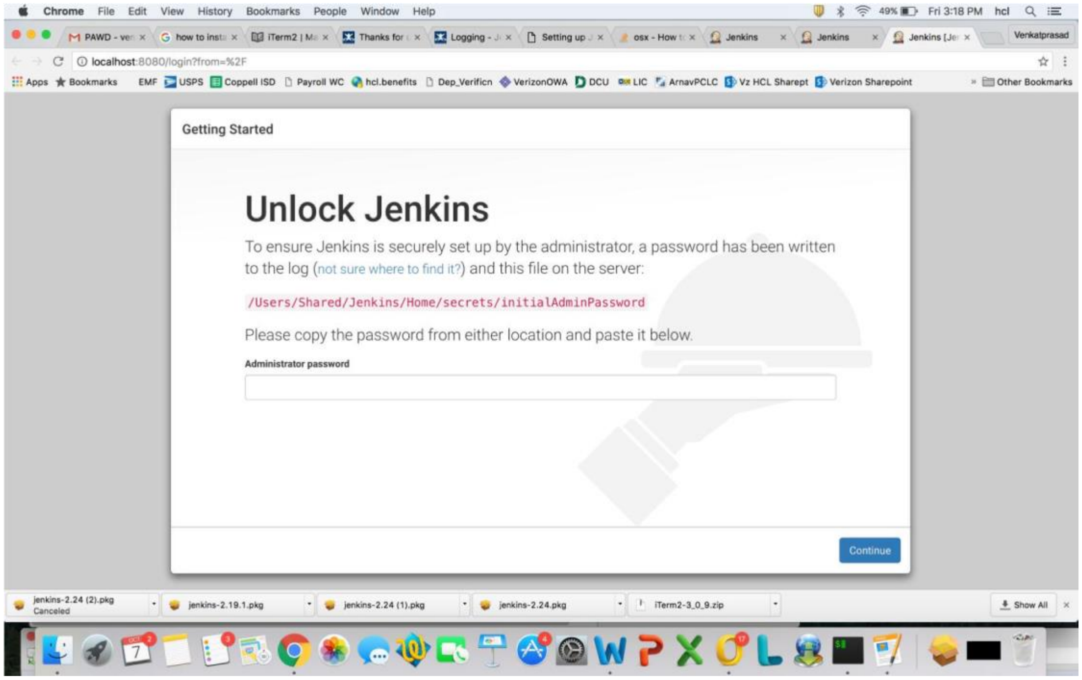
Password:



The installation was completed successfully.

The installation was successful.

The software was installed.



Chrome File Edit View History Bookmarks People Window Help
localhost:8080/login?from=%2F
Getting Started
Continue

Unlock Jenkins

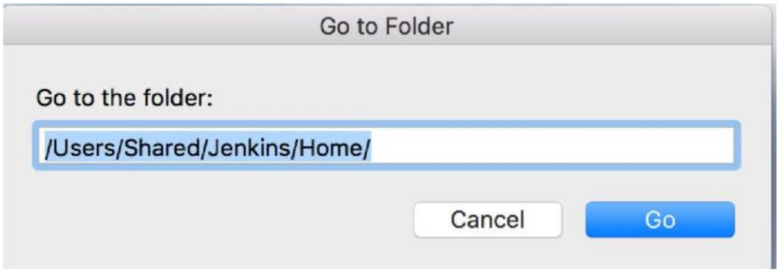
To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

`/Users/Shared/Jenkins/Home/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

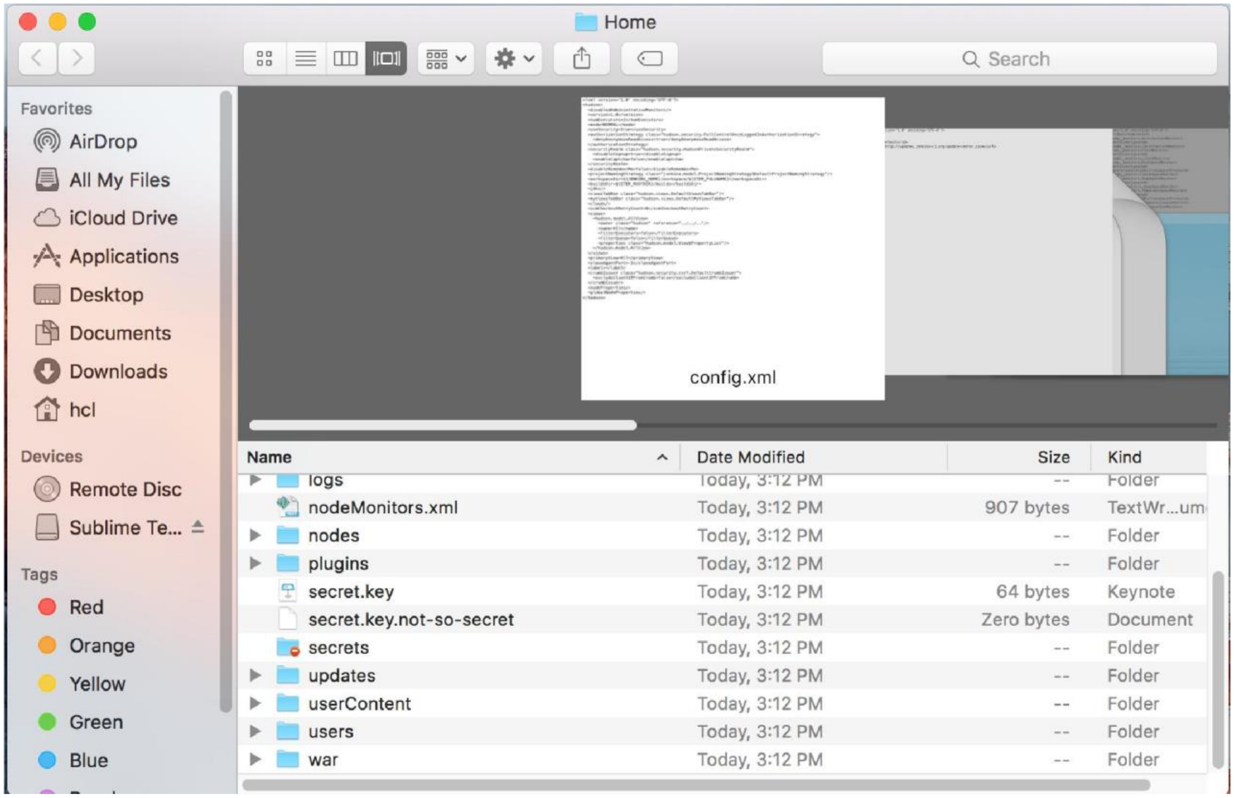
Administrator password

> Press control + shift + G (go to desktop and press this command) and enter the following command and then click “GO”



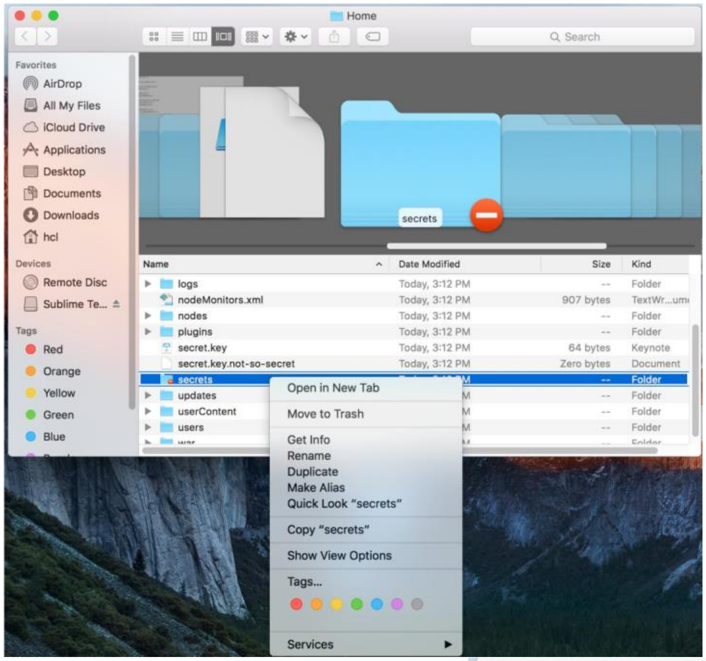
Go to the folder:

/Users/Shared/Jenkins/Home/

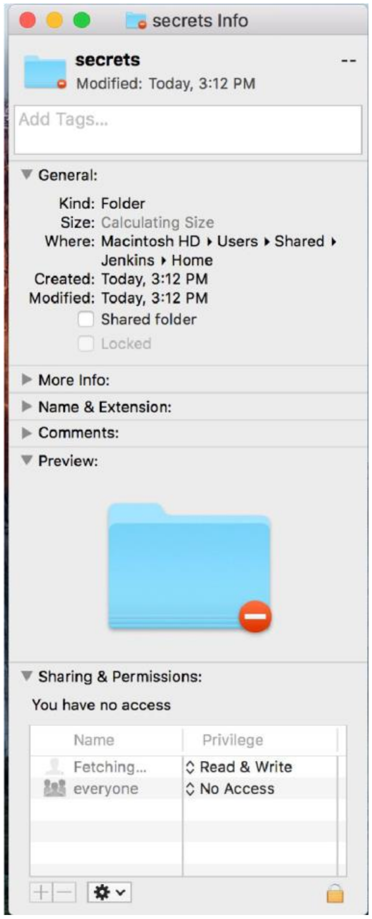


Name	Date Modified	Size	Kind
logs	Today, 3:12 PM	--	Folder
nodeMonitors.xml	Today, 3:12 PM	907 bytes	TextWr...um
nodes	Today, 3:12 PM	--	Folder
plugins	Today, 3:12 PM	--	Folder
secret.key	Today, 3:12 PM	64 bytes	Keynote
secret.key.not-so-secret	Today, 3:12 PM	Zero bytes	Document
secrets	Today, 3:12 PM	--	Folder
updates	Today, 3:12 PM	--	Folder
userContent	Today, 3:12 PM	--	Folder
users	Today, 3:12 PM	--	Folder
war	Today, 3:12 PM	--	Folder

Right click on secrets and click on Get Info and a new window will appear and then click on the LOCK button and enter password and then click ok.



Name	Date Modified	Size	Kind
logs	Today, 3:12 PM	--	Folder
nodeMonitors.xml	Today, 3:12 PM	907 bytes	TextWr...ume
nodes	Today, 3:12 PM	--	Folder
plugins	Today, 3:12 PM	--	Folder
secret.key	Today, 3:12 PM	64 bytes	Keynote
secret.key.not-so-secret	Today, 3:12 PM	Zero bytes	Document
secrets	Today, 3:12 PM	--	Folder
updates	M	--	Folder
userContent	M	--	Folder
users	M	--	Folder
war	M	--	Folder

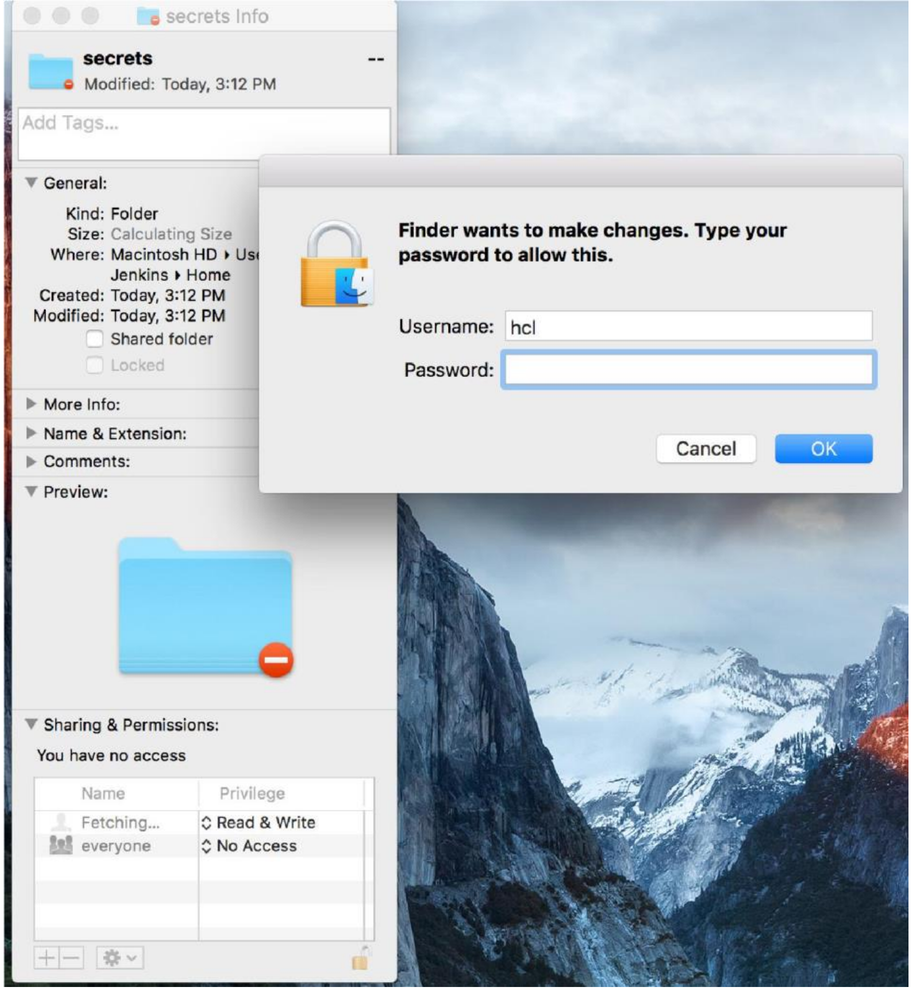


secrets --
Modified: Today, 3:12 PM

Kind: Folder
Size: Calculating Size
Where: Macintosh HD ▸ Users ▸ Shared ▸ Jenkins ▸ Home
Created: Today, 3:12 PM
Modified: Today, 3:12 PM
□ Shared folder
□ Locked

You have no access

Name	Privilege
Fetching...	Read & Write
everyone	No Access



secrets --
Modified: Today, 3:12 PM

Kind: Folder
Size: Calculating Size
Where: Macintosh HD ▸ Us
Jenkins ▸ Home
Created: Today, 3:12 PM
Modified: Today, 3:12 PM
□ Shared folder
□ Locked

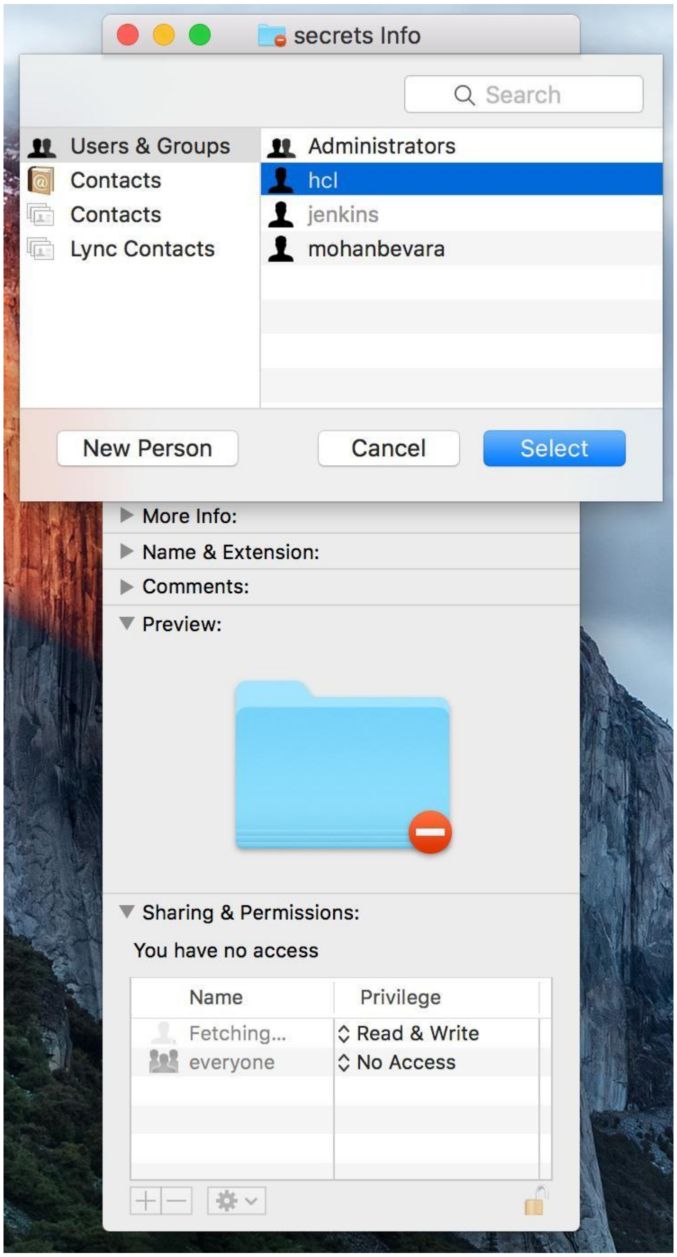
You have no access

Name	Privilege
Fetching...	Read & Write
everyone	No Access

Finder wants to make changes. Type your password to allow this.

Username: hcl
Password:

Now click the '+' button on the left bottom corner and select the user from list and then click select. Now we should be able to see the added user Sharing & Permissions.



secrets Info

Search

Users & Groups	Administrators
Contacts	hcl
Contacts	jenkins
Lync Contacts	mohanbevara

New Person Cancel Select

▶ More Info:

▶ Name & Extension:

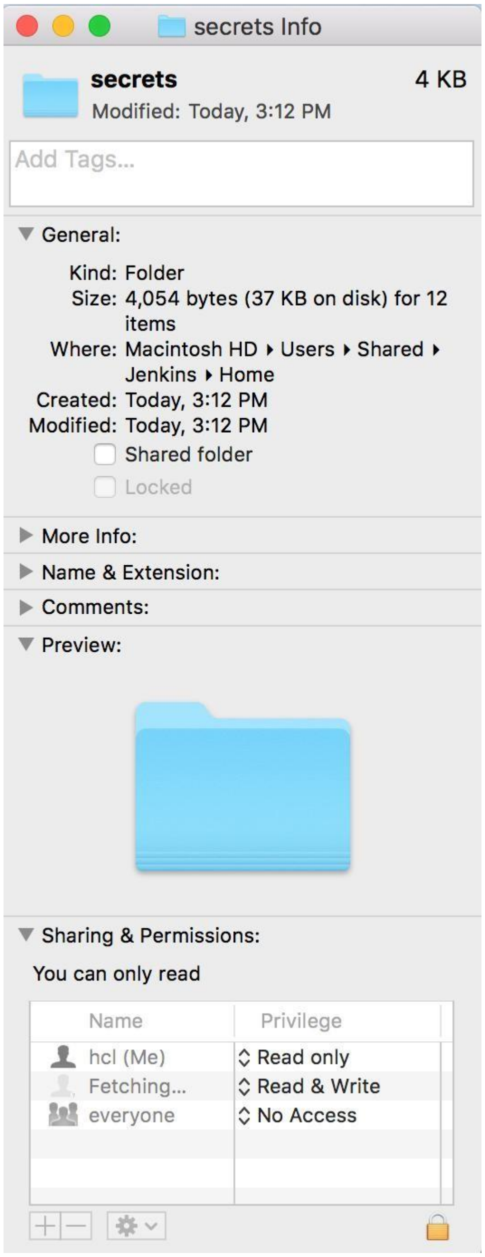
▶ Comments:

▼ Preview:

▼ Sharing & Permissions:

You have no access

Name	Privilege
Fetching...	Read & Write
everyone	No Access



secrets Info

secrets 4 KB
Modified: Today, 3:12 PM

Add Tags...

▼ General:

Kind: Folder
Size: 4,054 bytes (37 KB on disk) for 12 items
Where: Macintosh HD ▸ Users ▸ Shared ▸ Jenkins ▸ Home
Created: Today, 3:12 PM
Modified: Today, 3:12 PM
□ Shared folder
□ Locked

▶ More Info:

▶ Name & Extension:

▶ Comments:

▼ Preview:

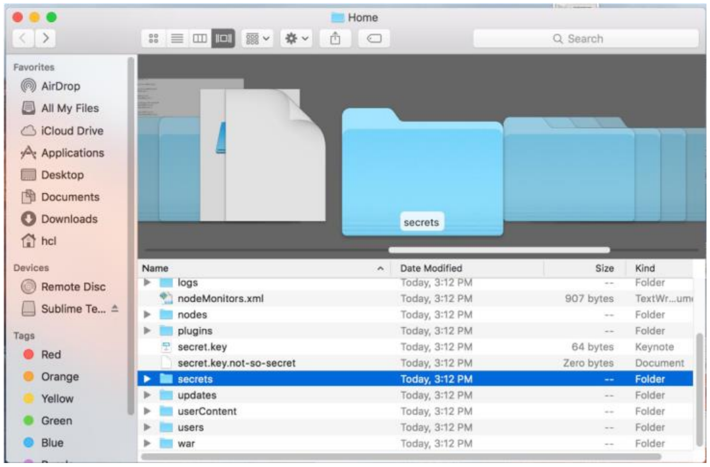
▼ Sharing & Permissions:

You can only read

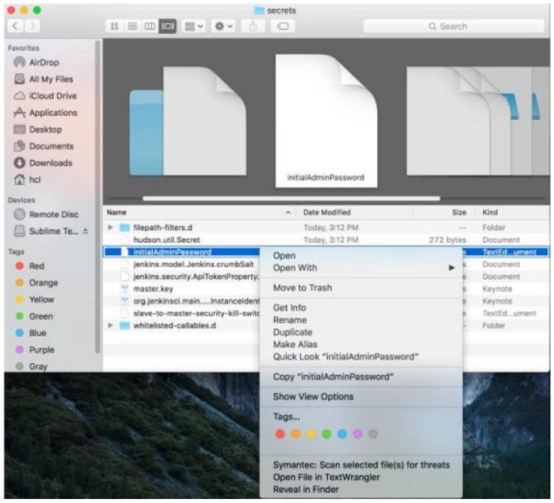
Name	Privilege
hcl (Me)	Read only
Fetching...	Read & Write
everyone	No Access

Now we can see that the red colored '-' mark will go away on secrets folder

Now Double click on the secrets folder where we can find the InitialAdminPassword

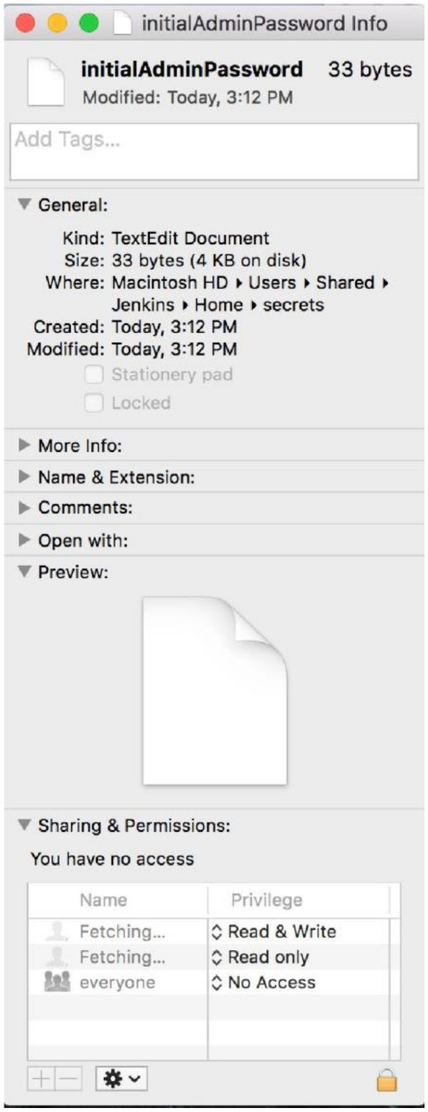


Name	Date Modified	Size	Kind
logs	Today, 3:12 PM	--	Folder
nodeMonitors.xml	Today, 3:12 PM	907 bytes	TextWr...ume
nodes	Today, 3:12 PM	--	Folder
plugins	Today, 3:12 PM	--	Folder
secret.key	Today, 3:12 PM	64 bytes	Keynote
secret.key.not-so-secret	Today, 3:12 PM	Zero bytes	Document
secrets	Today, 3:12 PM	--	Folder
updates	Today, 3:12 PM	--	Folder
userContent	Today, 3:12 PM	--	Folder
users	Today, 3:12 PM	--	Folder
war	Today, 3:12 PM	--	Folder



Name	Date Modified	Size	Kind
filepath-filters.d	Today, 3:12 PM	--	Folder
hudson.util.Secret	Today, 3:12 PM	272 bytes	Document
initialAdminPassword			TextEd...ument
jenkins.model.Jenkins.crumbSalt			Document
jenkins.security.ApiTokenProperty.			Document
master.key			Keynote
org.jenkinsci.main.....Instanceident			Keynote
slave-to-master-security-kill-switc			TextEd...ument
whitelisted-callables.d			Folder

Now right click on the InitialAdminPassword and click on ‘Get Info’
Now again on the bottom right corner click on the LOCK button and enter the password



initialAdminPassword Info

initialAdminPassword 33 bytes
Modified: Today, 3:12 PM

Add Tags...

General:

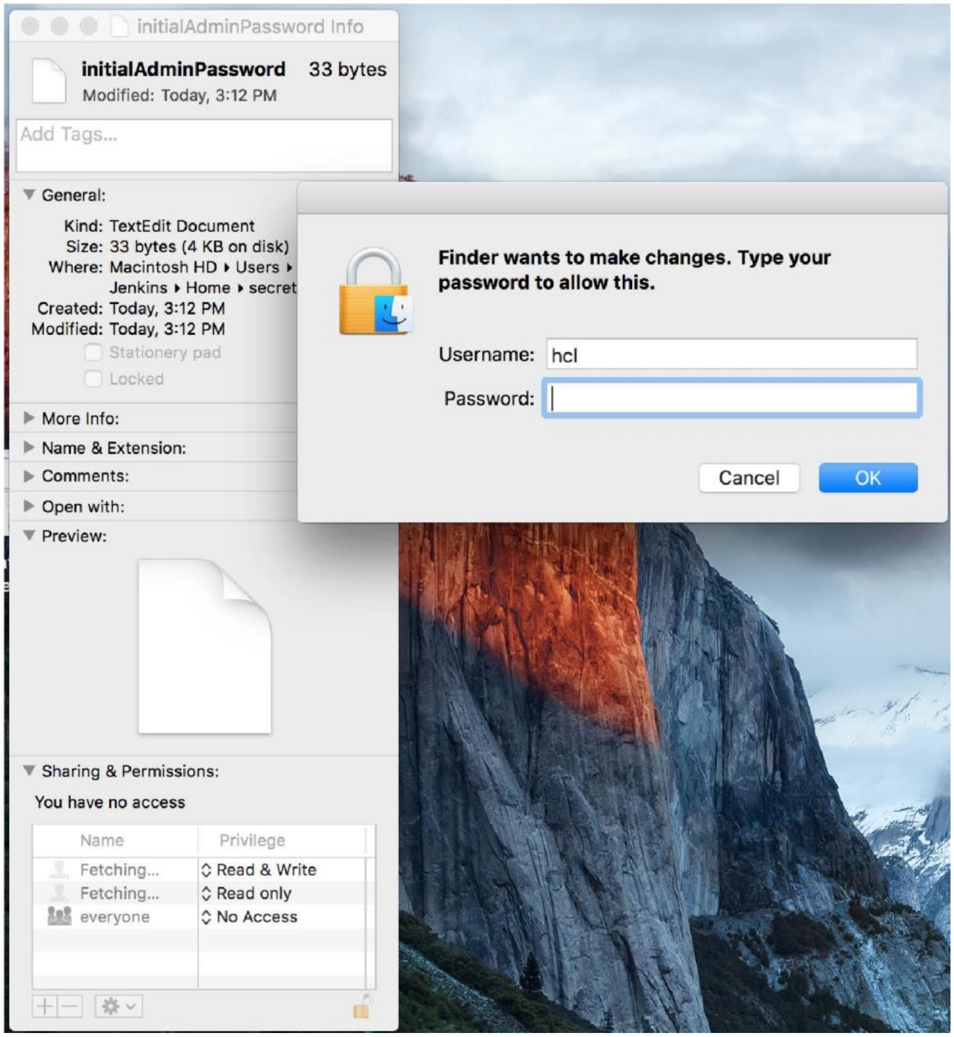
Kind: TextEdit Document
Size: 33 bytes (4 KB on disk)
Where: Macintosh HD ▸ Users ▸ Shared ▸ Jenkins ▸ Home ▸ secrets
Created: Today, 3:12 PM
Modified: Today, 3:12 PM
□ Stationery pad
□ Locked

More Info:
Name & Extension:
Comments:
Open with:
Preview:

Sharing & Permissions:

You have no access

Name	Privilege
Fetching...	Read & Write
Fetching...	Read only
everyone	No Access



initialAdminPassword Info

initialAdminPassword 33 bytes
Modified: Today, 3:12 PM

Add Tags...

General:

Kind: TextEdit Document
Size: 33 bytes (4 KB on disk)
Where: Macintosh HD ▸ Users ▸ Jenkins ▸ Home ▸ secret
Created: Today, 3:12 PM
Modified: Today, 3:12 PM
□ Stationery pad
□ Locked

More Info:
Name & Extension:
Comments:
Open with:
Preview:

Sharing & Permissions:

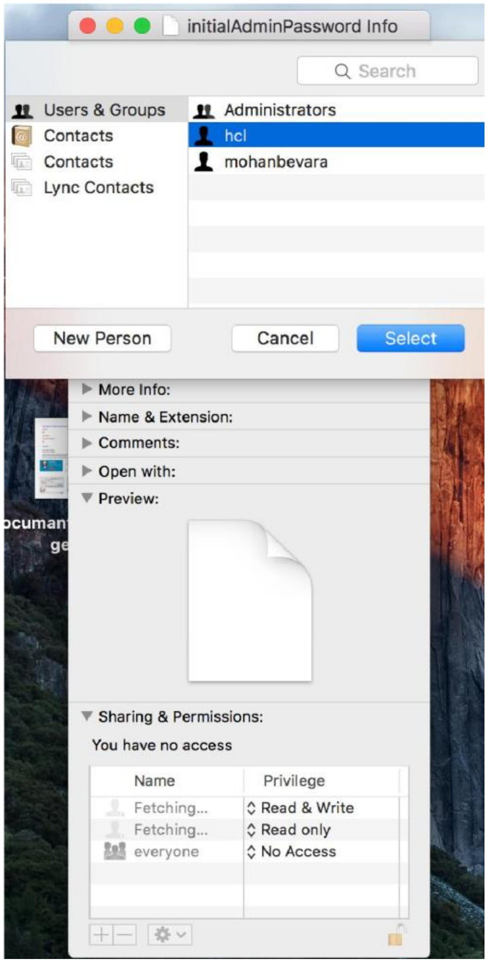
You have no access

Name	Privilege
Fetching...	Read & Write
Fetching...	Read only
everyone	No Access

Finder wants to make changes. Type your password to allow this.

Username: hcl
Password:

Now again click on the ‘+’ sign and add the user and then click on select.

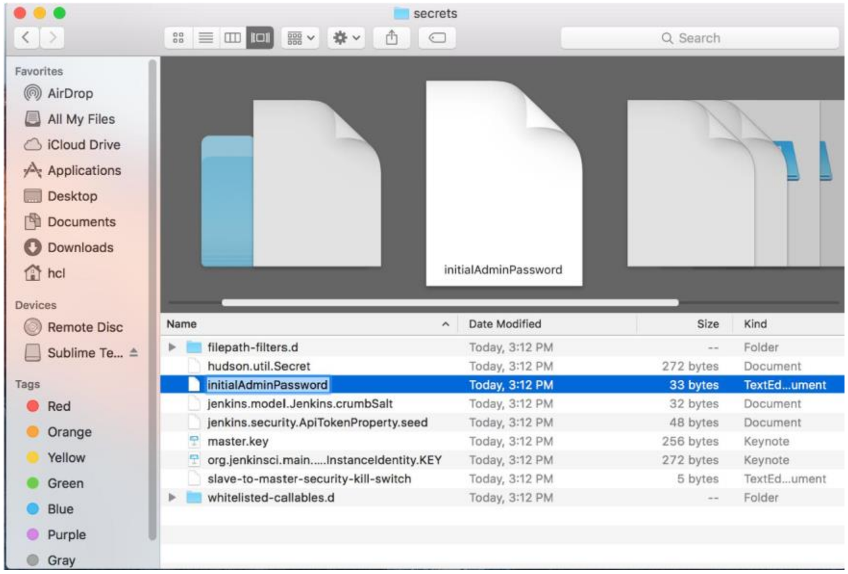


initialAdminPassword Info

You have no access

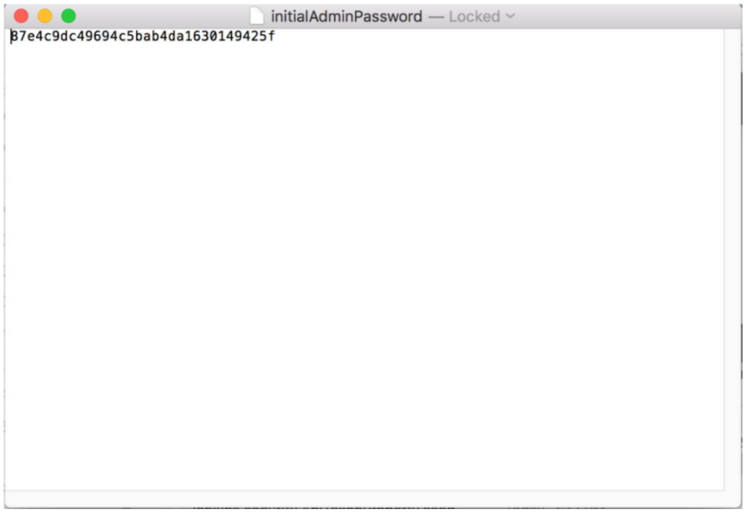
Name	Privilege
Fetching...	Read & Write
Fetching...	Read only
everyone	No Access

Now once the user is added, Double click on the InitialAdminPassword



secrets

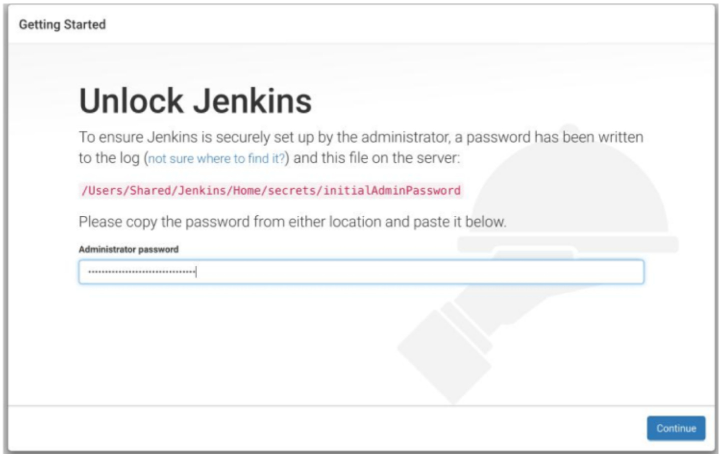
Name	Date Modified	Size	Kind
filepath-filters.d	Today, 3:12 PM	--	Folder
hudson.util.Secret	Today, 3:12 PM	272 bytes	Document
initialAdminPassword	Today, 3:12 PM	33 bytes	TextEd...ument
jenkins.model.Jenkins.crumbSalt	Today, 3:12 PM	32 bytes	Document
jenkins.security.ApiTokenProperty.seed	Today, 3:12 PM	48 bytes	Document
master.key	Today, 3:12 PM	256 bytes	Keynote
org.jenkinsci.main.....InstanceIdentity.KEY	Today, 3:12 PM	272 bytes	Keynote
slave-to-master-security-kill-switch	Today, 3:12 PM	5 bytes	TextEd...ument
whitelisted-callables.d	Today, 3:12 PM	--	Folder



initialAdminPassword — Locked

```
87e4c9dc49694c5bab4da1630149425f
```

A file will be opened with a password. Use this password to unlock jenkins on the web browser



Getting Started

Unlock Jenkins

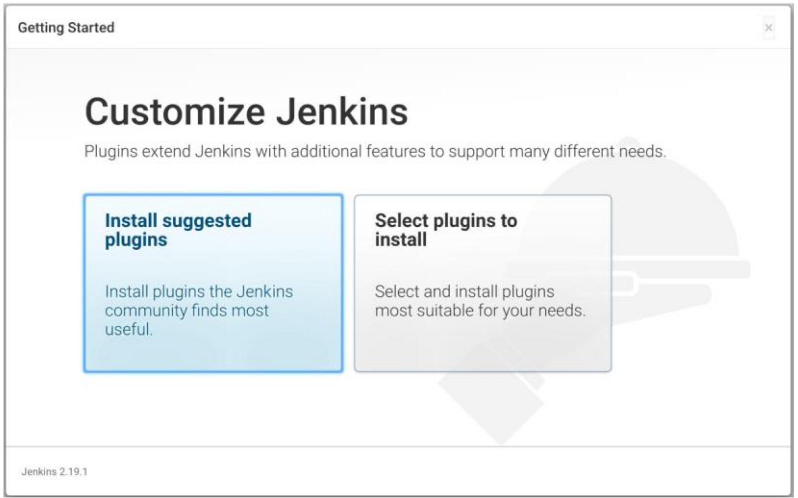
To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

```
/Users/Shared/Jenkins/Home/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password

••••••••••••••••••••••••••••••••



Getting Started

Customize Jenkins

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

Install suggested plugins

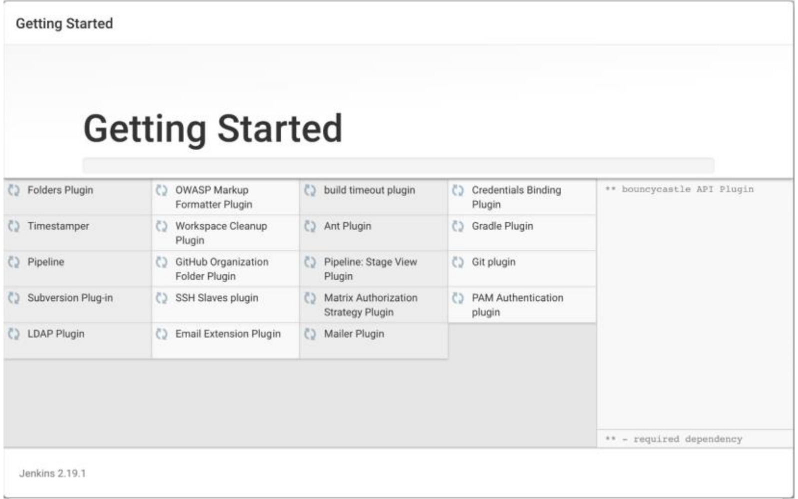
Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Jenkins 2.19.1

After unlocking the jenkins, this screen will appear where we need to click the first option i.e., Install suggested plugins.



Getting Started

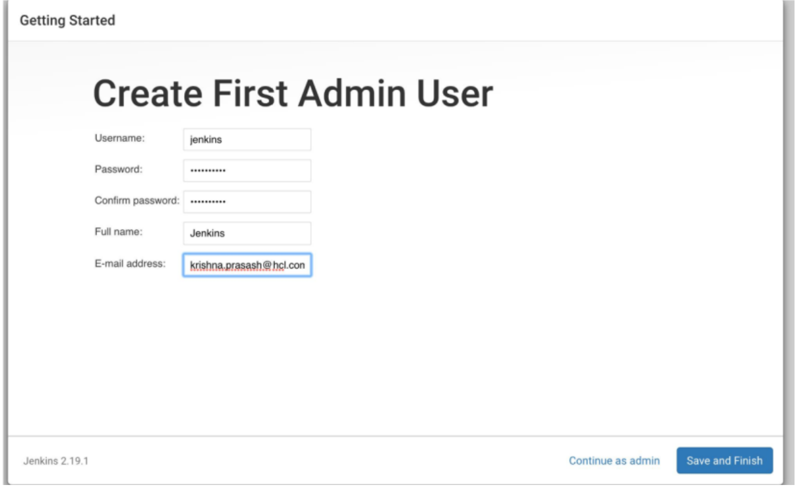
Getting Started

Folders Plugin	OWASP Markup Formatter Plugin	build timeout plugin	Credentials Binding Plugin	** bouncycastle API Plugin
Timestamper	Workspace Cleanup Plugin	Ant Plugin	Gradle Plugin	
Pipeline	GitHub Organization Folder Plugin	Pipeline: Stage View Plugin	Git plugin	
Subversion Plug-in	SSH Slaves plugin	Matrix Authorization Strategy Plugin	PAM Authentication plugin	
LDAP Plugin	Email Extension Plugin	Mailer Plugin		

** - required dependency

Jenkins 2.19.1

This will install all the necessary plugins and will direct to next screen.



Getting Started

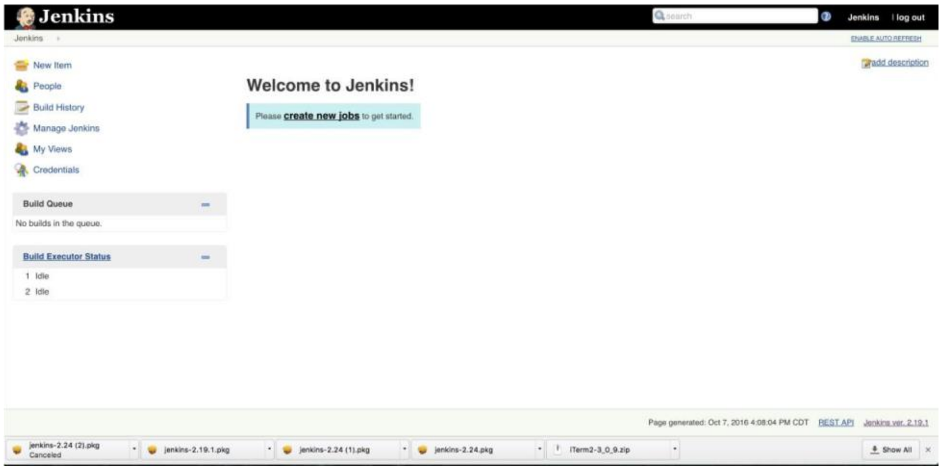
Create First Admin User

Username:	jenkins
Password:	••••••••••
Confirm password:	••••••••••
Full name:	Jenkins
E-mail address:	krishna.prasash@hcl.con

Jenkins 2.19.1

Once the plugins are installed, we need to create a username and password. Make sure to remember this.

Username : jenkins
Password : jenkins123
Full name : Jenkins
Email : your mail address



Welcome to Jenkins!

Please **create new jobs** to get started.

No builds in the queue.

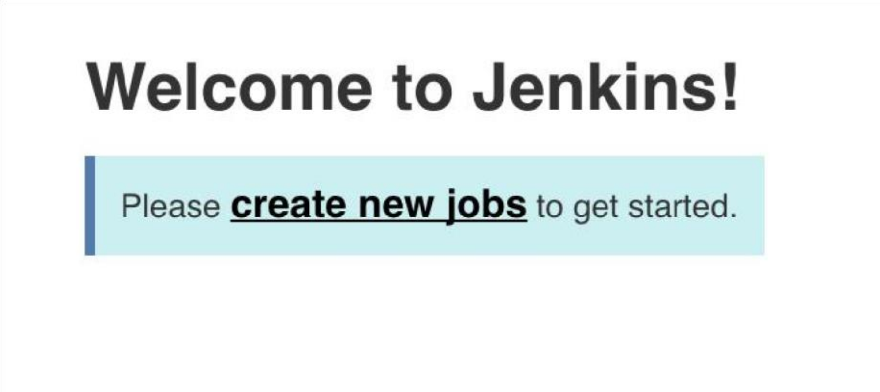
1 Idle
2 Idle

Page generated: Oct 7, 2016 4:08:04 PM CDT

Once creating admin user is completed, It will redirect to Jenkins page.

Success!!!!!

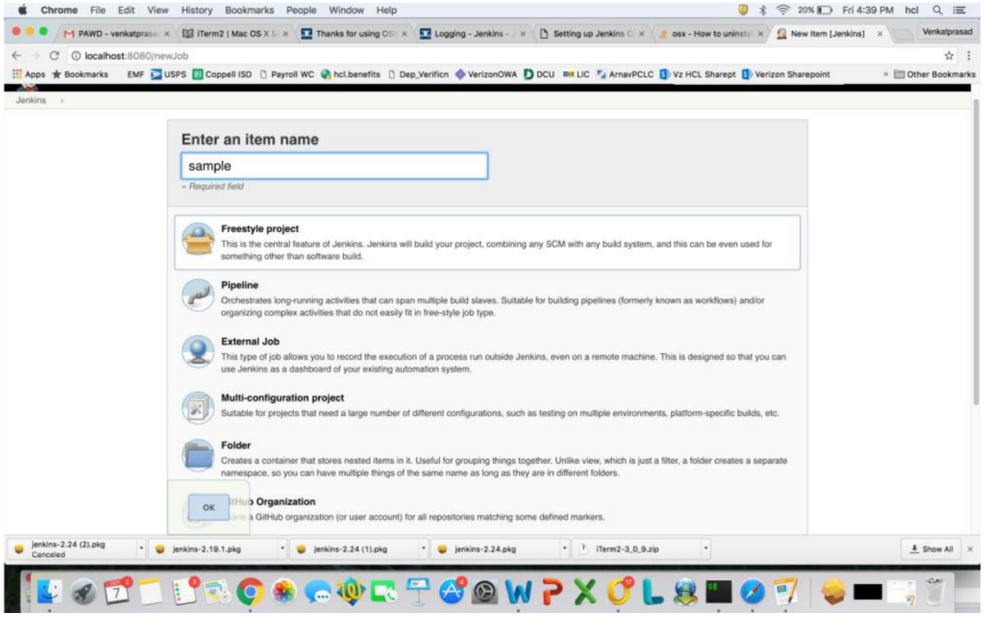
Note : We have to create a job manually, If jenkins is already installed. Name the job as sample, since it is the default job specified in our code. The following steps will help in creating a job.



Welcome to Jenkins!

Please **create new jobs** to get started.

Now create a new job by clicking on create new jobs



Enter an item name

sample

» 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 slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

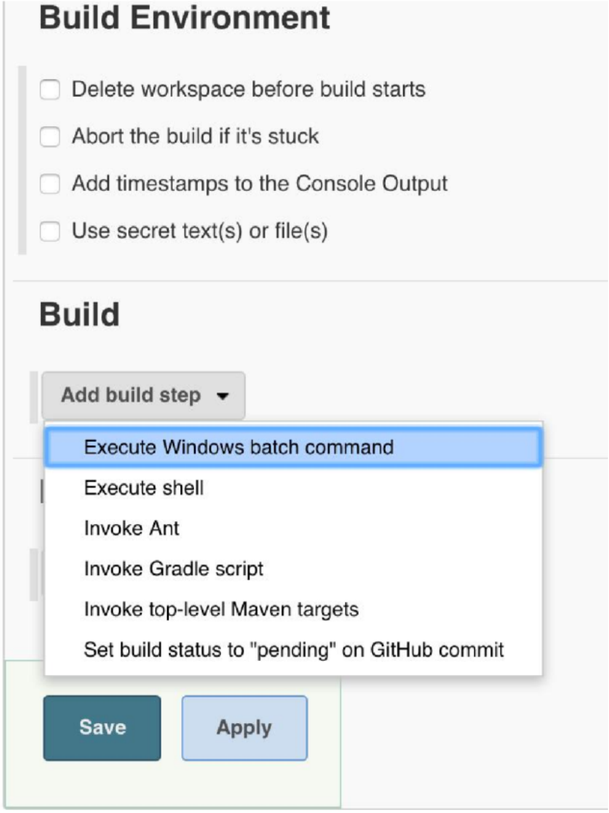
External Job
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.

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

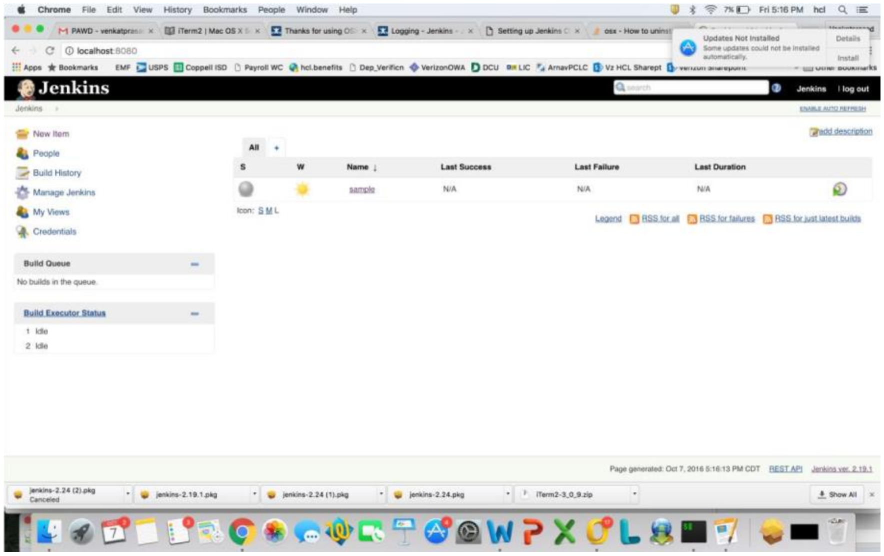
Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

itHub Organization
a GitHub organization (or user account) for all repositories matching some defined markers.

Enter the item name as sample, and click on Freestyle project and then click ok.


Build Environment
Delete workspace before build starts
Abort the build if it's stuck
Add timestamps to the Console Output
Use secret text(s) or file(s)
Build
Add build step
Execute Windows batch command
Execute shell
Invoke Ant
Invoke Gradle script
Invoke top-level Maven targets
Set build status to "pending" on GitHub commit
Save
Apply

It will direct to this page. Under 'Build', click on 'Add build step' and then click on 'Execute shell' and then click on 'Apply' and 'Save'.



S	W	Name ↓	Last Success	Last Failure	Last Duration
●	☀	sample	N/A	N/A	N/A

Now we can see the created job 'sample' on the jenkins dashboard.

Note 1 : It is better to make the username as 'jenkins' and password as 'jenkins123' because these will serve as the default in code. If one chose to select other username and password, they have to specify them in the code under app/views.py in line 70.

Note 2 : In case if a user has bypassed the credentials for Jenkins, User need to remove the credentials under app/views.py in line no 70.

Note 3 : path to source code repository and path to reports are specified under app/views.py in line 62 and line 69. When running under revo environment, those paths need to be modified i.e., path to the location of source code of revo and path to reports should be specified.

2. PIP : The recommended tool for installing Python packages

Go to terminal and enter the following command

sudo easy_install pip

3. Virtual Environment

Go to terminal and enter the following command sudo

pip install virtualenv

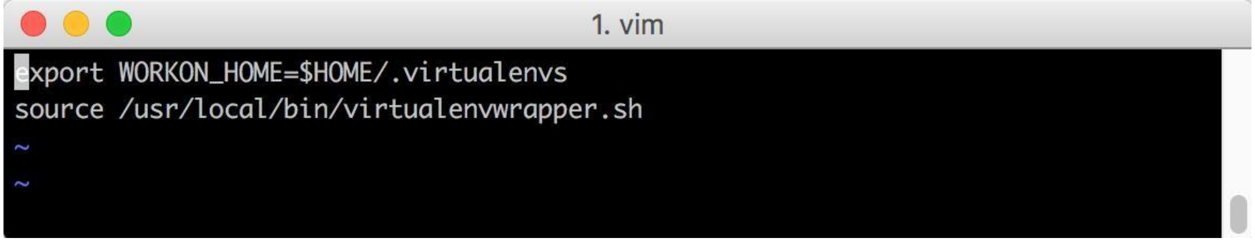
4. Virtual Envwrapper

Go to terminal and enter the following commands sudo pip install virtualenvwrapper

cd $HOME mkdir .virtualenvs vim .bashrc (1. An editor will be opened. 2.press i(insert

mode) 3. Enter the following commands) export WORKON_HOME=$HOME/.virtualenvs

source /usr/local/bin/virtualenvwrapper.sh



```
export WORKON_HOME=$HOME/.virtualenvs
source /usr/local/bin/virtualenvwrapper.sh
~
~
```

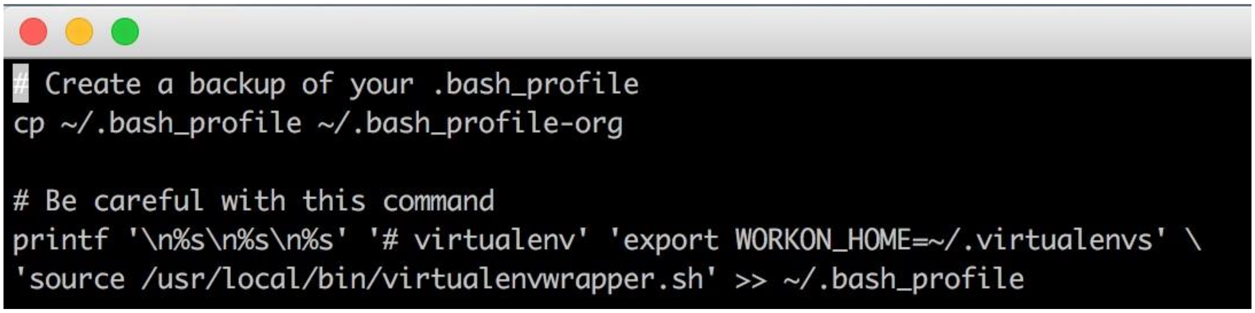
After the commands are entered press Escape (esc) and then type :wq

vim .bash_profile(1. An editor will be opened. 2.press i(insert mode) 3. Enter the following commands)

# Create a backup of your .bash_profile cp

~/.bash_profile ~/.bash_profile-org

```
# Be careful with this command printf '\n%s\n%s\n%s' '# virtualenv' 'export
WORKON_HOME=~/.virtualenvs' \
'source /usr/local/bin/virtualenvwrapper.sh' >> ~/.bash_profile
```



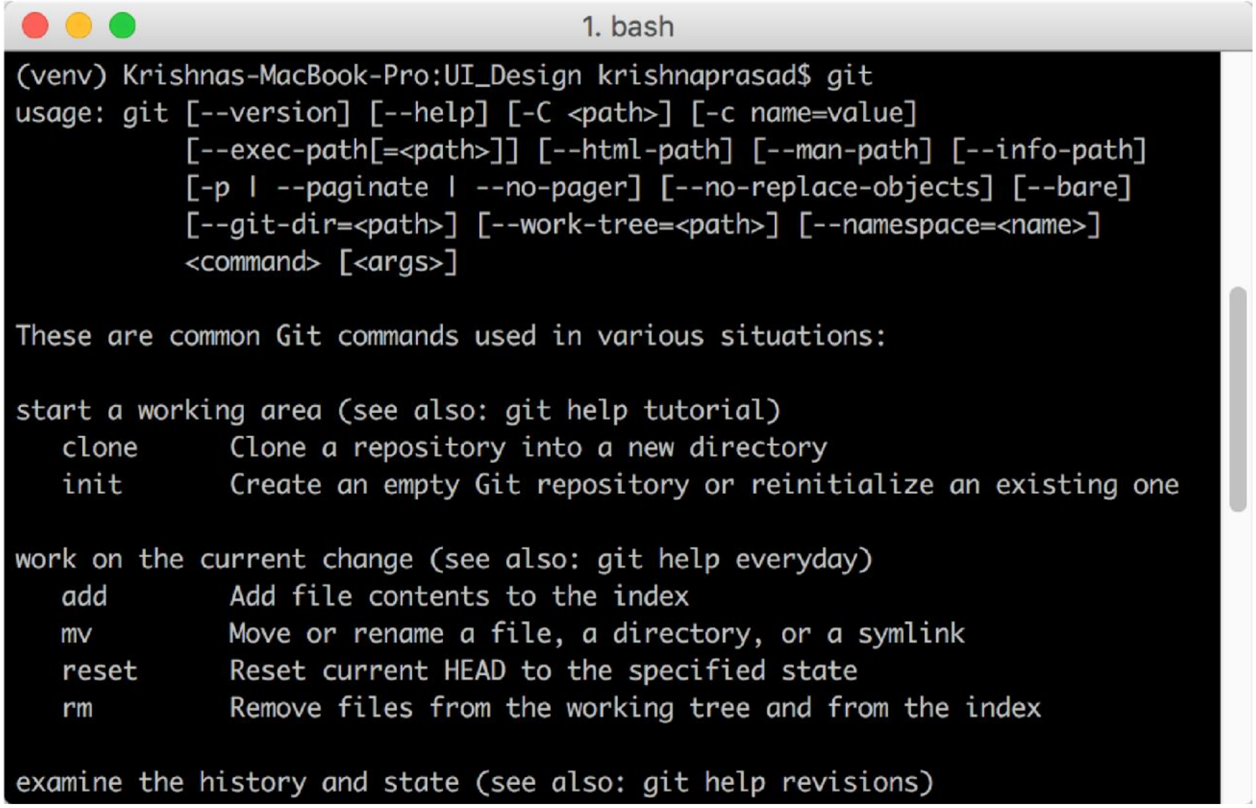
```
# Create a backup of your .bash_profile
cp ~/.bash_profile ~/.bash_profile-org

# Be careful with this command
printf '\n%s\n%s\n%s' '# virtualenv' 'export WORKON_HOME=~/.virtualenvs' \
'source /usr/local/bin/virtualenvwrapper.sh' >> ~/.bash_profile
```

After the commands are entered press Escape (esc) and then type :wq After

this close the terminal and open a fresh new terminal.

5. GIT (only needed for Developers)

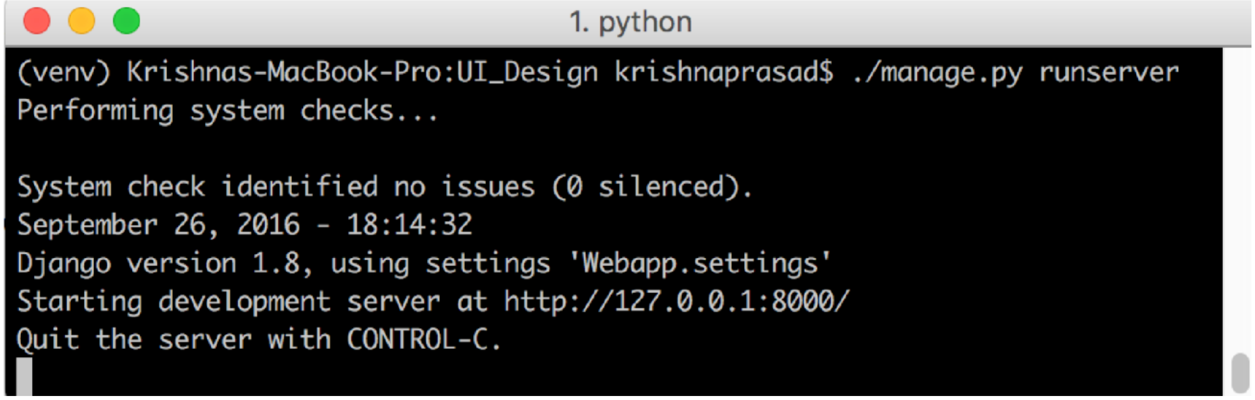
Open https://git-scm.com/download/mac
once the dmg file is downloaded install it by pressing continue once the installation is done, open the terminal and type ‘git’ which should show some information about git which means git is successfully installed.



```
(venv) Krishnas-MacBook-Pro:UI_Design krishnaprasad$ git
usage: git [--version] [--help] [-C <path>] [-c name=value]
           [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p | --paginate | --no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
   clone      Clone a repository into a new directory
   init       Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
   add        Add file contents to the index
   mv         Move or rename a file, a directory, or a symlink
   reset      Reset current HEAD to the specified state
   rm         Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
```

Project Cloning

Follow the below commands for setting up the project cd mkdir Project_TestConsole cd Project_TestConsole git clone https://github.com/krishnaprasad536/Workspace cd Workspace mkvirtualenv venv workon venv pip install -r requirements.txt chmod +x manage.py ./manage.py runserver



```
(venv) Krishnas-MacBook-Pro:UI_Design krishnaprasad$ ./manage.py runserver
Performing system checks...

System check identified no issues (0 silenced).
September 26, 2016 - 18:14:32
Django version 1.8, using settings 'Webapp.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

Copy and paste http://127.0.0.1:8000/ on any browser which should show the dashboard

Note : User can come out of virtual environment by entering the following command in terminal. deactivate