Dvs Technologies Aws & Devops

Compiled and Scrutinized by
Mr. Shaan Shaik
(Senior DevOps Lead)

Words To The Students

Though we have taken utmost efforts to present you this book error free, but still it may contain some errors or mistakes. Students are encouraged to bring, if there are any mistakes or errors in this document to our notice. So that it may be rectified in the next edition of this document.

"Suppressing your doubts is Hindering your growth".

We urge you to work hard and make use of the facilities we are providing to you, because there is no substitute for hard work. We wish you all the best for your future.

"The grass isn't greener on the other side; the grass is greener where you water it."

You and your suggestions are valuable to us; Help us to serve you better. In case of any suggestions, grievance, or complaints, please feel free to write us your suggestions, grievance and feedback on the following

Dvs.training@gmail.com

Jenkins Class Notes

Introduction to Jenkins:

What is Jenkins:

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

**Jenkins is an application that monitors executions of repeated jobs, such as building a software project or jobs run
by cron.**

**Traditionally, development make s/w available in a repository and then operations builds and deploys the software to
one or more environments.**

**A QA(Quality Assurance) team may then execute load and performance test against that build and release it for
production use**

Jenkins can automate large portions of that repeatable process.

What's so great about it:
Its a open source!
it works for most people
Its easy to setup and configure
Its hightly flexible with a ton of plugin support.
Works in just about any environment.
It doesn't use a lot of resources

What's Covered in this course:

CI & CD
Installing Jenkins and Prerequisites
Configuring and securing jenkins
BasicProjects - Configuring and concepts
Folders and views
Working with plugins
and etc ...

Continuous Integration and Continuous Delivery:

CI:

It's a s/w development practice where contributors are integrating their work frequency. This results in
multiple daily integrations
to a mainline. Automated testing(post-commit promotion) is commonly used.

Basic Workflow:

1. Checkout from source code management (like git)
2. Branch and make local changes
3. Add or change tests as necessary
4. Trigger automated build locally
5. If successful, consider committing
6. Update with latest from mainline
7. Push changes, build and test on integration

Continuous Delivery:

A s/w development discipline where software is built so that it can be released to production at anytime

Keys and Assumptions:

S/w is always deployable throughout s/w development life cycle (SDLC)
Not breaking the build is prioritized over adding features.
Feedback is fast and production readiness is known.
Push-button deployments are possible of any version of the s/w
Close/Collaborative working relationship

Best practices:

1. Maintain a single source repository
2. Have a common mainline branch (usually master)
3. Automate the build
4. Minimize potential for user error,automte everything possible
5. Make the build self-testing - self-testing code
6. Everyone commits frequently (at least daily preferably)
7. Communication is a key!
8. Frequent mergers will help

9. The working branch should be updated as frequently as possible to help avoid very large diffs while merging.
10. Build every commit
11. Prioritize fixing broken builds
12. Keep your builds fast !!!
13. Testing environment should be as close to prod as possible
14. Make it easy for anyone to get the latest
15. Keep it open, everyone should see what's happening
16. Automate the deployment

Must Do:

*** Backup Jenkins(at least Jenkins home for job security)**
*** use file fingerprinting to manage dependencies**
*** Build from source control whenever possible (will generate clean builds)**
*** Integrate Jenkins with an issue management or help desk system**
*** Take advantages of automated testing(with java builds,) generate and look at the repots**
*** Layout your jenkins install on the disk with the most storage (both jenkins jobs and build process will take up space)**

*** Before deleting a job have an archive copy. better: never delete, move to an archive group or folder and disable the jobs**
*** Resist the temptation to have one build job for multiple environments (dev,test,pord) - Consider creating one job to specialize in each**
environment to retain flexibility to make changes
*** Email the results to all developers and operations staff for every job, particularly if jenkins is not integrated into and issue management system**
*** User Jenkins for common maintenance or clean up tasks that are run regularly.**
*** Tag merge or baseline your code in source control after a successful build**
*** Keep your jenkins up to date- atleast be on the latest LTS version**
*** keep your plugins up to date- review the bug reports and see what they address**
***DON'T BUILD ON MASTER except on very small deployments. If you have more than a dozen jobs and they are used by more than two or three**
people, set up build slaved to do the work.

All the above are the best practices which helps you to be in safe side.

Build Pipeline:

It is a process by which the software build is broken down in sections:

1. Unit test
2. Acceptance test
3. Packaging
4. Reporting
5. Deployment

6. Notification

**these can then be executed in series, or in parallel, and depending on the Success or failure of any phase,
it can automatically be moved to the next phase.**

Where is "Devops" in that, through automation, the tools and skills needed are very "cross domain"

Best Practices:

jenkins and devops movement have caused companies to think of common tasks differently:

*** Build Management**
*** Release Management**
*** Deployment Automation**
*** Test Orchestration**

Difference b/w CI & CD (continuous delivery):

**Continuous delivery is the ability to release at any time.
Continuous integration is just the practice of integrating code continuously.**

Continuous Delivery Versus Continuous Deployment:

**Continuous Delivery means the code can be delivered at anytime
Continuous deployment is that code is released continuously as part of an automated pipeline**

Questions & Answers:

**1) What's the difference between Continuous Delivery and Continuous Deployment?
Continuous Delivery means the code CAN be released at any time, while Continuous Deployment means it is released continuously.**

**2) Which answer best describes Continuous Integration?
A software development practice where contributors are integrating their work very frequently.**

3) Which answer best describes Continuous Deployment?

A software development discipline where software is released continuously as part of an automated pipeline.

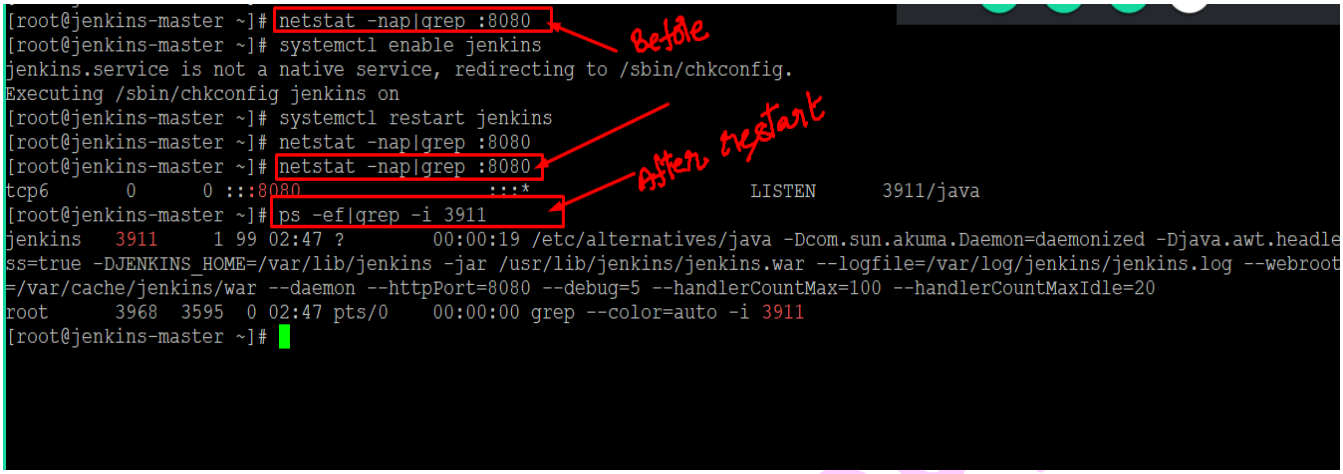
4) Which is NOT a Continuous Integration best practice?
Do everything manually with great care.

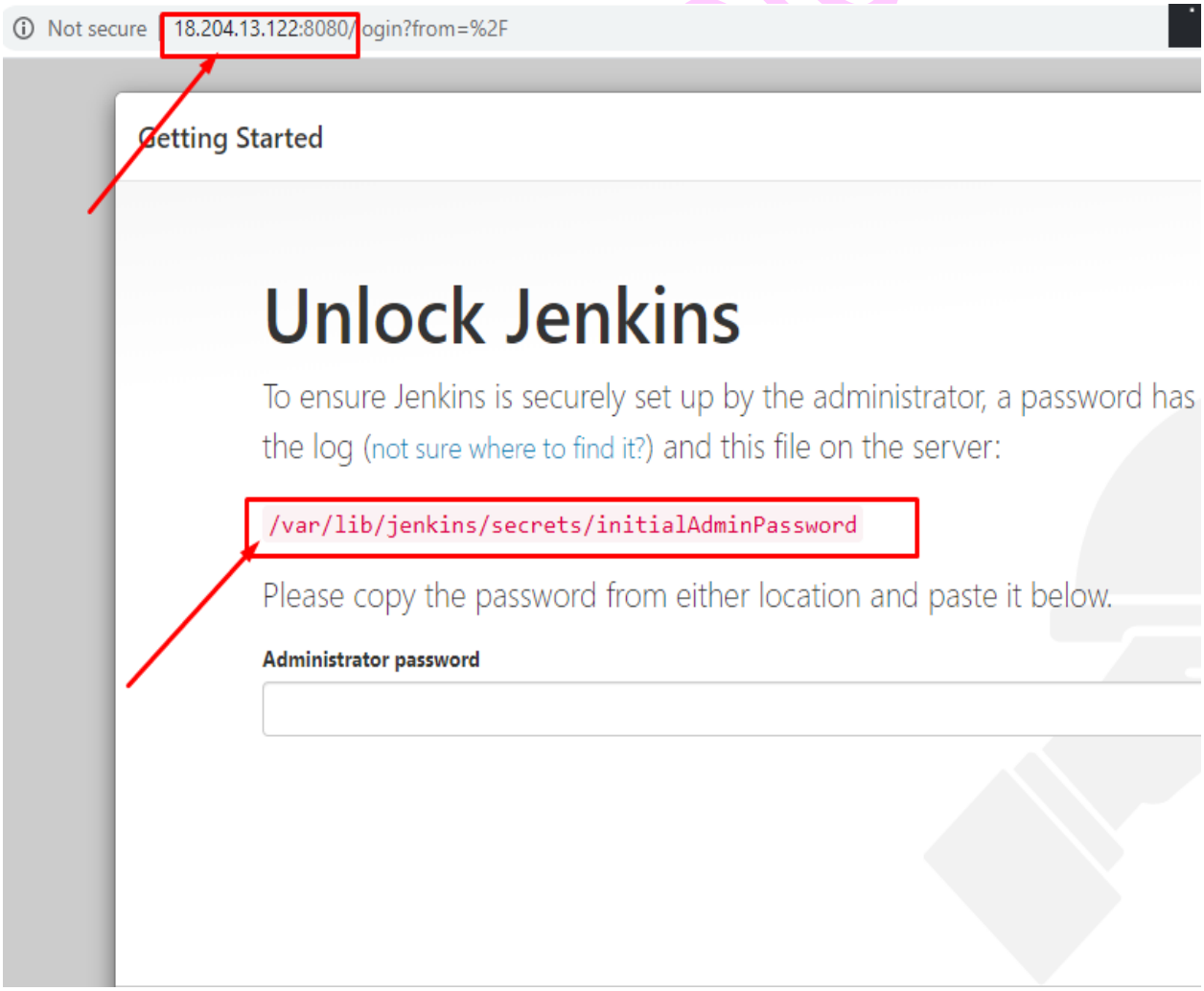
5) Which answer best describes Continuous Delivery?
A software development discipline where software is built so that it can be released to production at any time.

Jenkins Installation

```
Prerequisites:

1. Make sure that java is installed
    yum install java-1.8.0-openjdk-devel -y
    java -version
    update-alternatives --config java
    update-alternatives --config javac
    java -version

Jenkins Installation:

Note: Here we are going to install jenkins @specific version i.e "2.19.4-1.1". At the end we are going to disable the repo to ma

1. wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
2. rpm --import http://pkg.jenkins.io/redhat-stable/jenkins.io.key
3. yum list --show-duplicates jenkins :-> Helps to show the duplicates of the packages.
4. yum install -y jenkins*
5. yum-config-manager --disable jenkins :-> Disables the jenkins repo to avoid auto updates
6. Before restarting the services make sure that port 8080 is free ... using below
netstat -nap|grep :8080
7. service jenkins start
8. chkconfig jenkins on
9. Now open your serverip:8080 it will ask you to do copy the password from "/var/lib/jenkins/secrets/initialAdminPassword". Ope
cat /var/lib/jenkins/secrets/initialAdminPassword
75aa5a6089dd4900b0b7c77d01f106ca
```

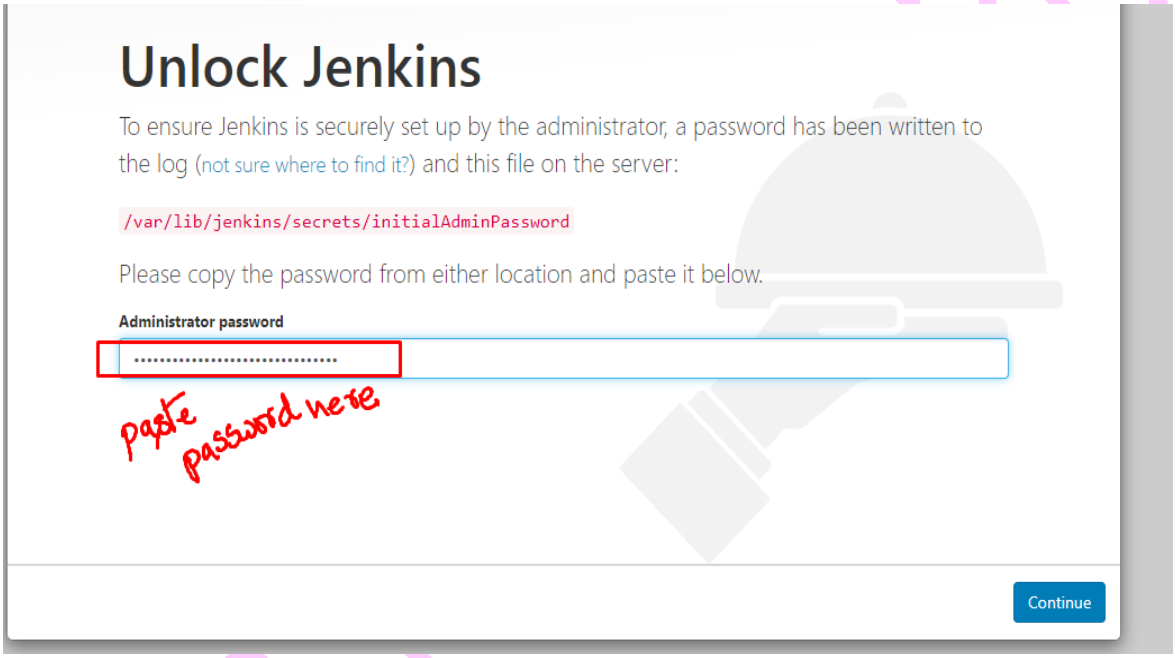
Verification:

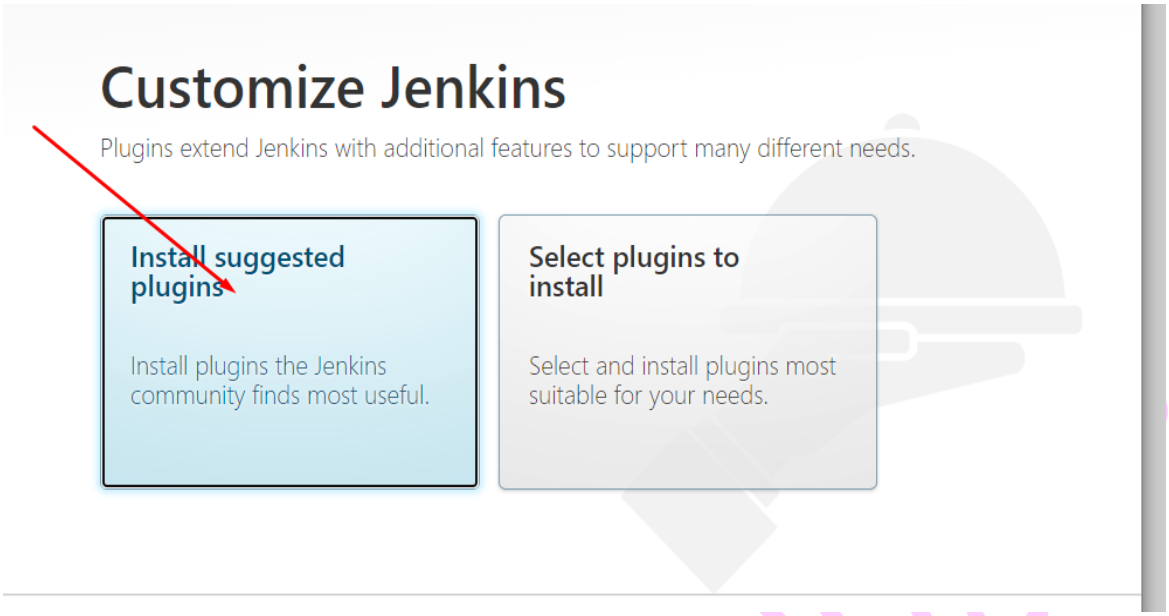




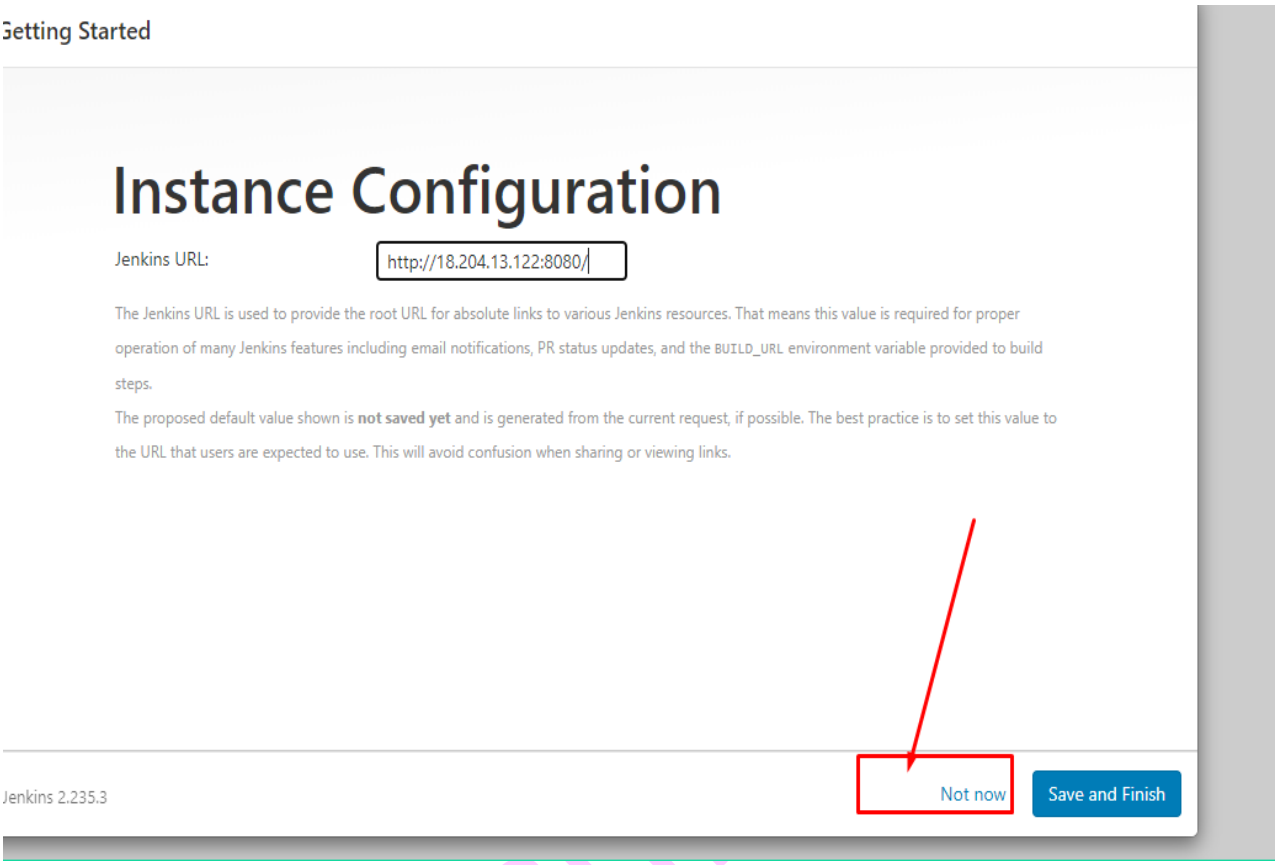
In Server:

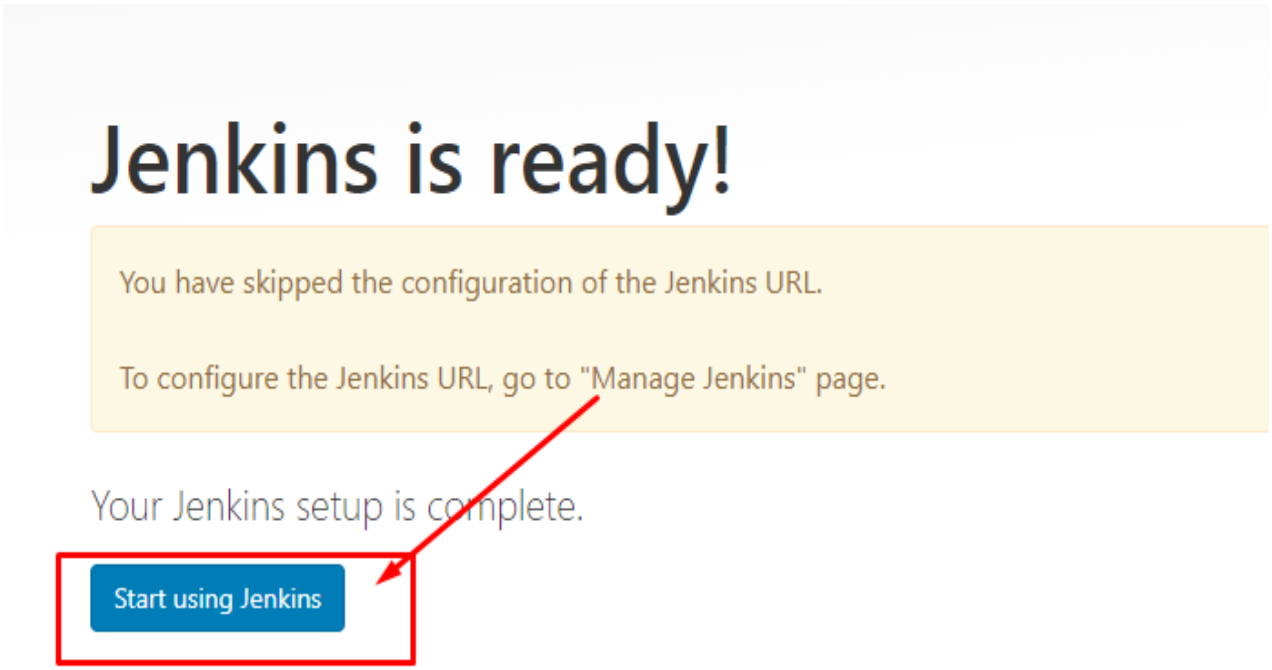
```
[root@jenkins-master ~]# cat /var/lib/jenkins/secrets/initialAdminPassword
27dfc3f39d5f49c096331a8605919be7
[root@jenkins-master ~]#
```

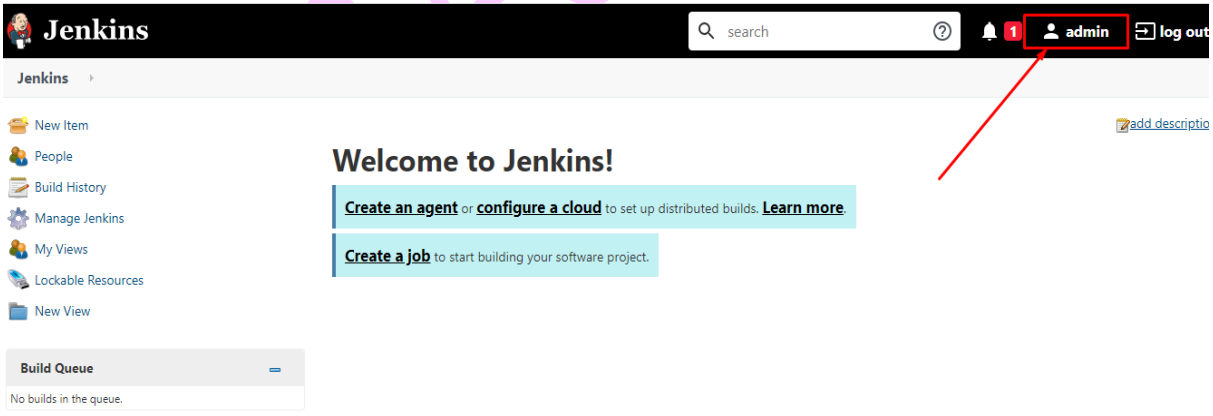



Customize Jenkins
Plugins extend Jenkins with additional features to support many different needs.
Install suggested plugins
Install plugins the Jenkins community finds most useful.
Select plugins to install
Select and install plugins most suitable for your needs.


Getting Started
Create First Admin User
Username: admin
Password: .....
Confirm password: .....
Full name: admin
E-mail address: admin@gmail.com
Fill all details
Jenkins 2.235.3
Skip and continue as admin
Save and Continue

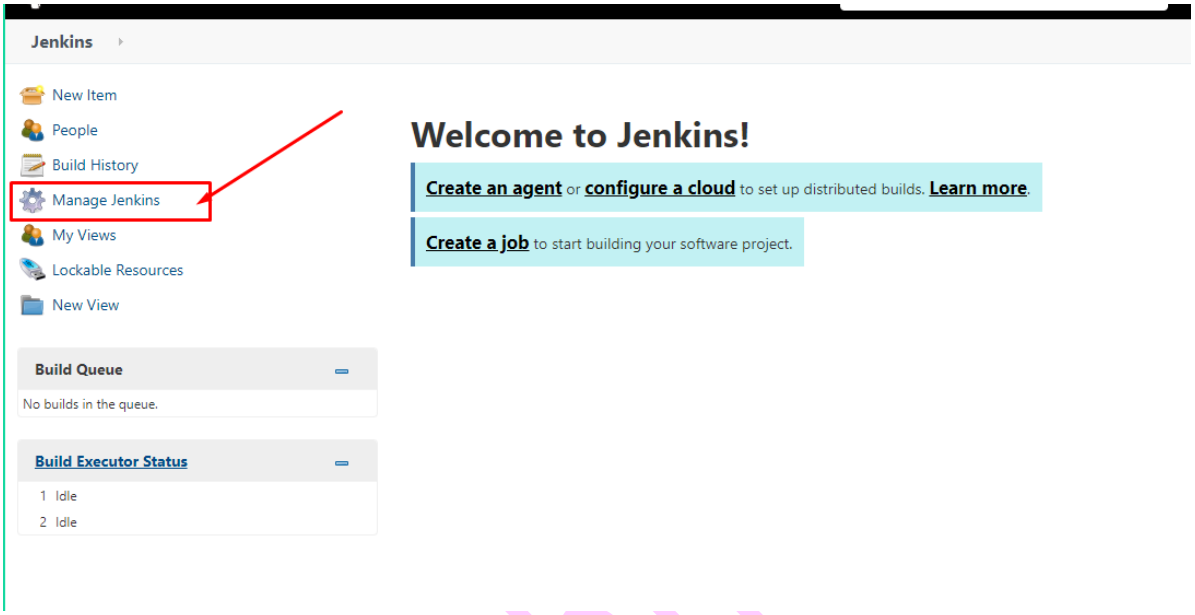

Getting Started
Instance Configuration
Jenkins URL:
http://18.204.13.122:8080/
The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.
The proposed default value shown is not saved yet and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.
Jenkins 2.235.3
Not now
Save and Finish

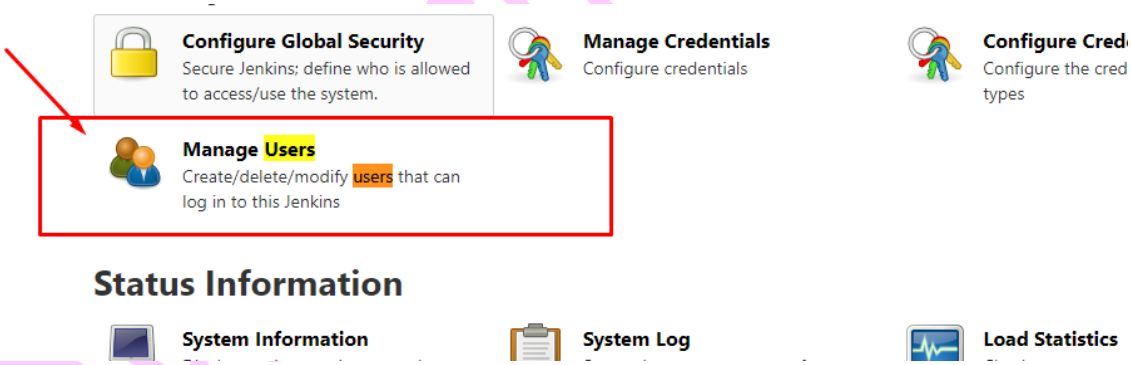

Jenkins is ready!
You have skipped the configuration of the Jenkins URL.
To configure the Jenkins URL, go to "Manage Jenkins" page.
Your Jenkins setup is complete.
Start using Jenkins


Jenkins
search
admin
log out
Jenkins
New Item
People
Build History
Manage Jenkins
My Views
Lockable Resources
New View
Build Queue
No builds in the queue.
add descriptio
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.

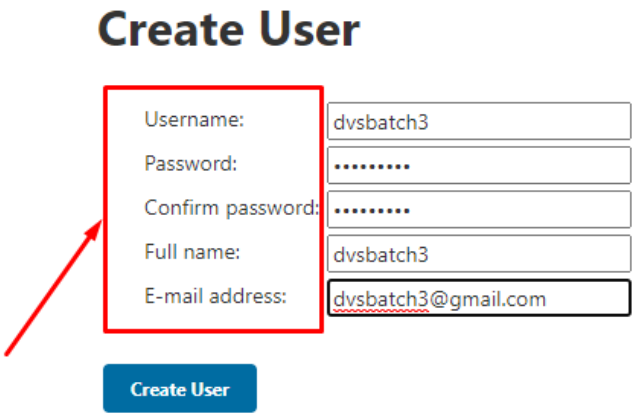
User Management

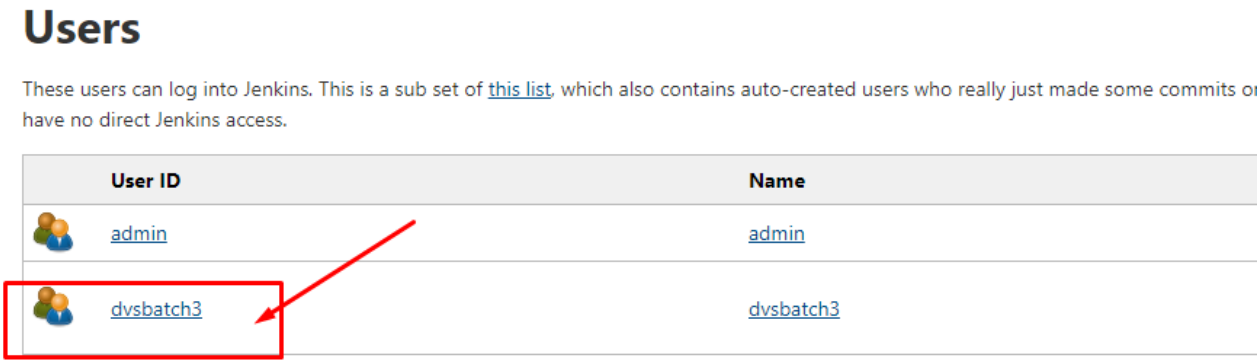
Creating User:



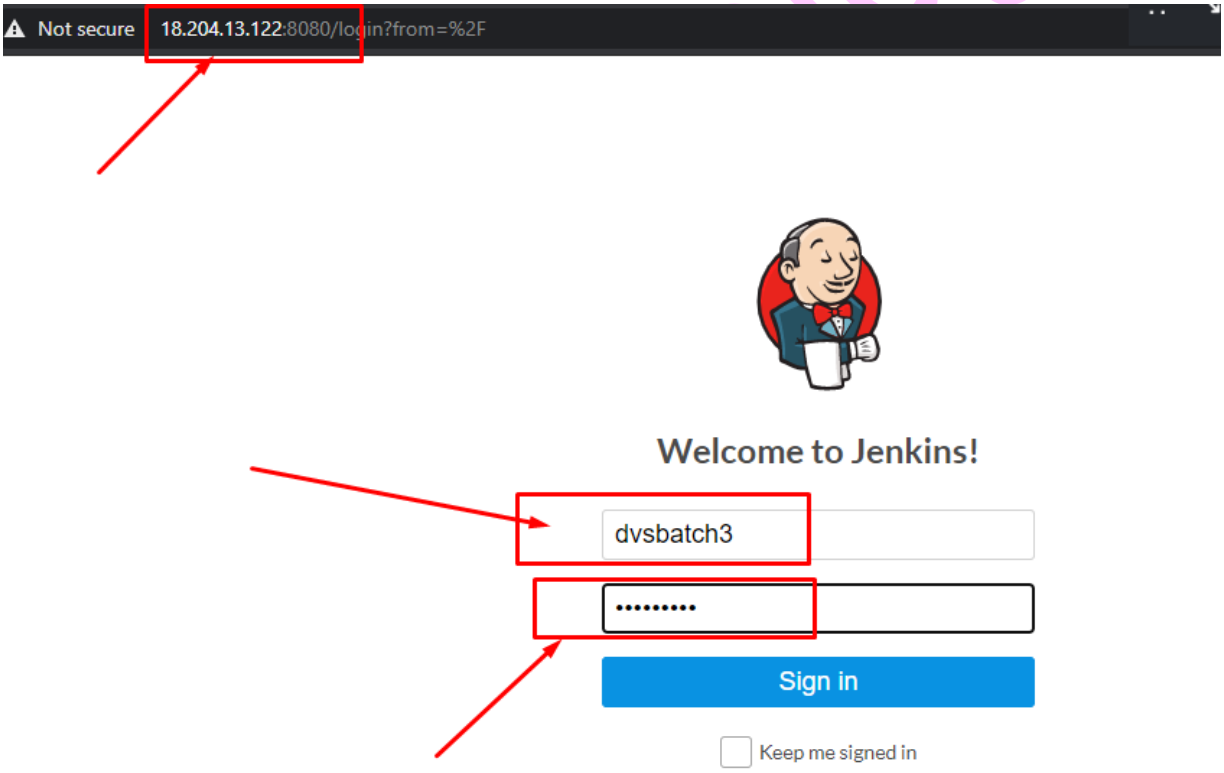


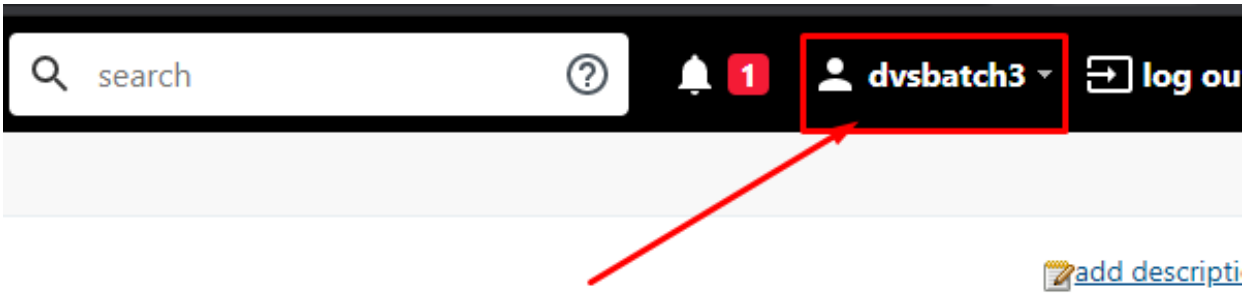

Jenkins
Jenkins' own user database
Back to Dashboard
Manage Jenkins
Create User
Users
These users can log into Jenkins. This is a sub set of this list, which also contains auto-created users who really just made some commits
have no direct Jenkins access.
User ID
Name
admin
admin


Create User
Username:
dvsbatch3
Password:
Confirm password:
Full name:
dvsbatch3
E-mail address:
dvsbatch3@gmail.com
Create User

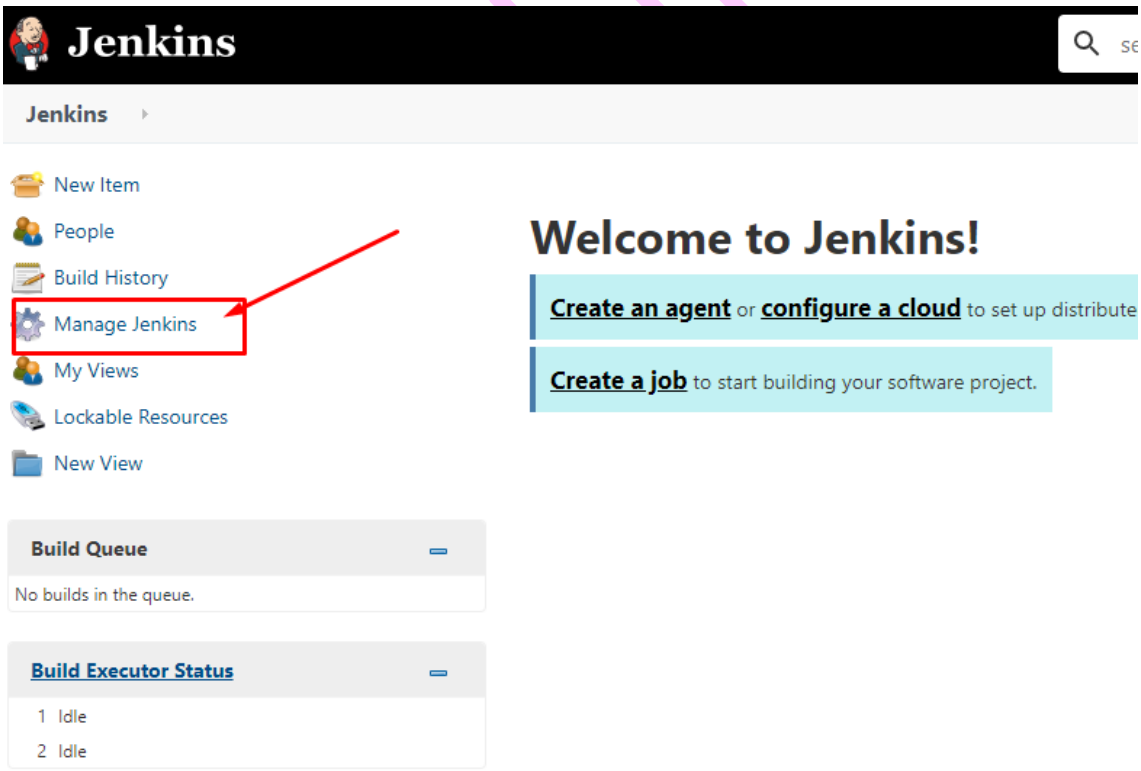


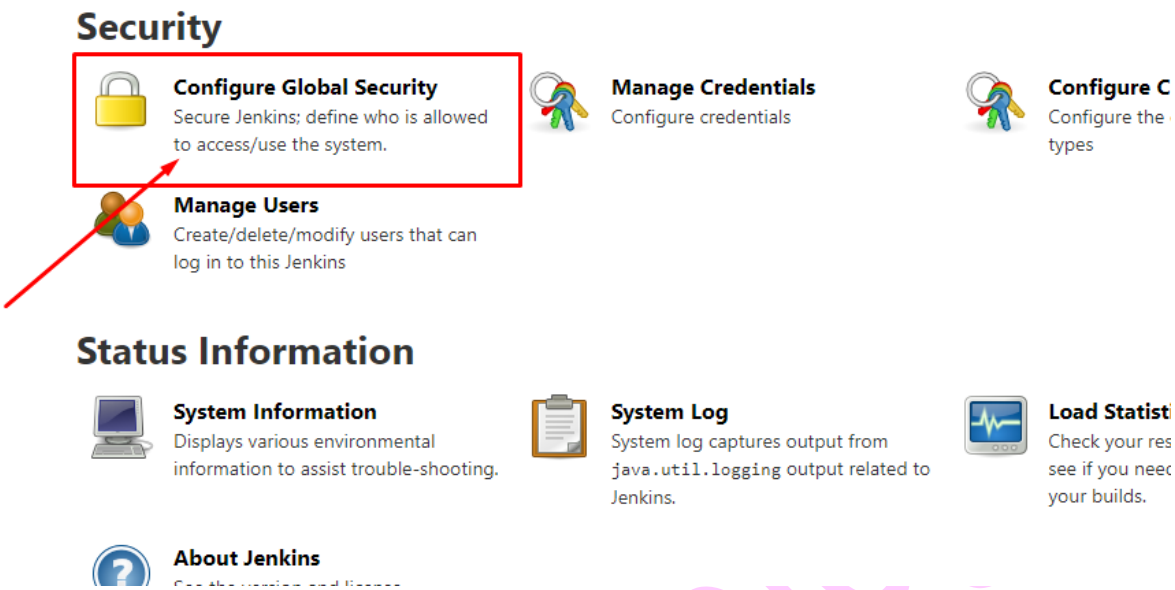
Verifying the Access:

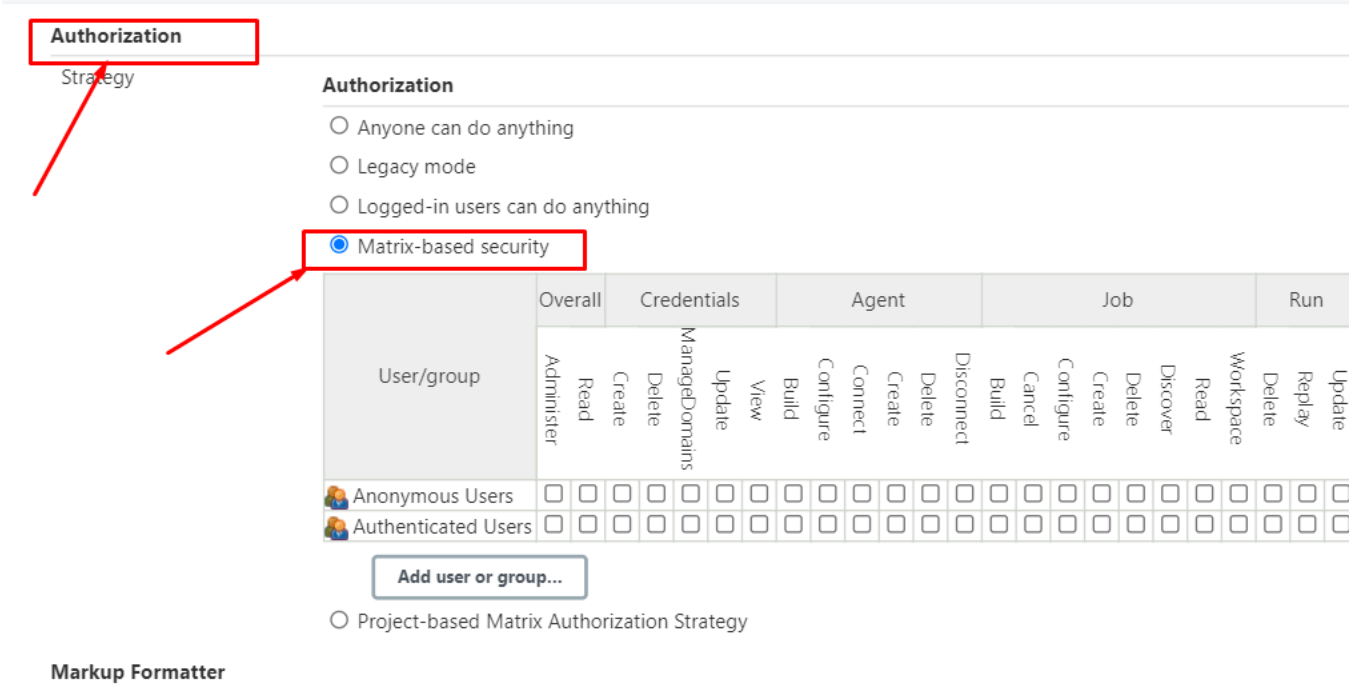


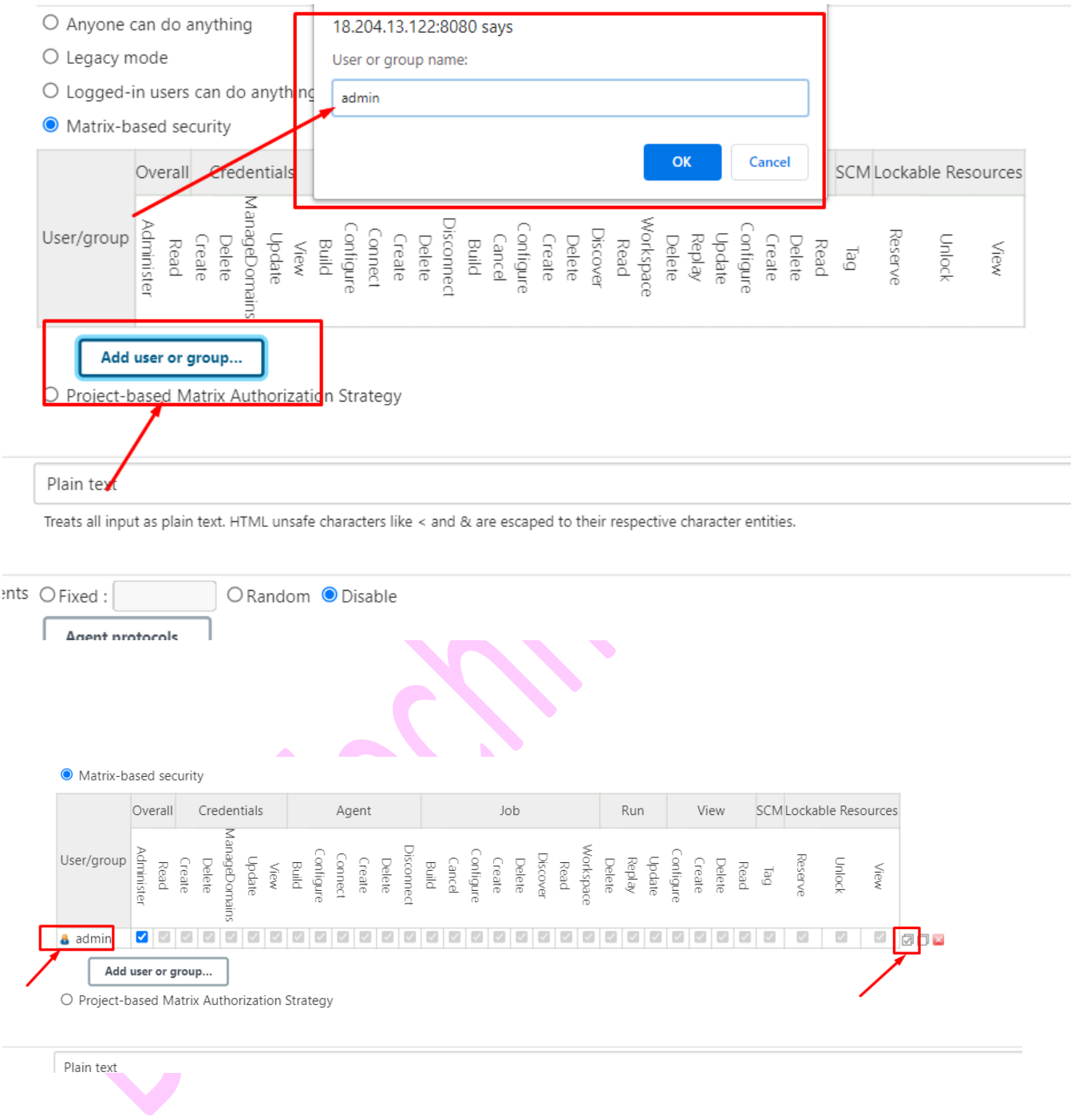


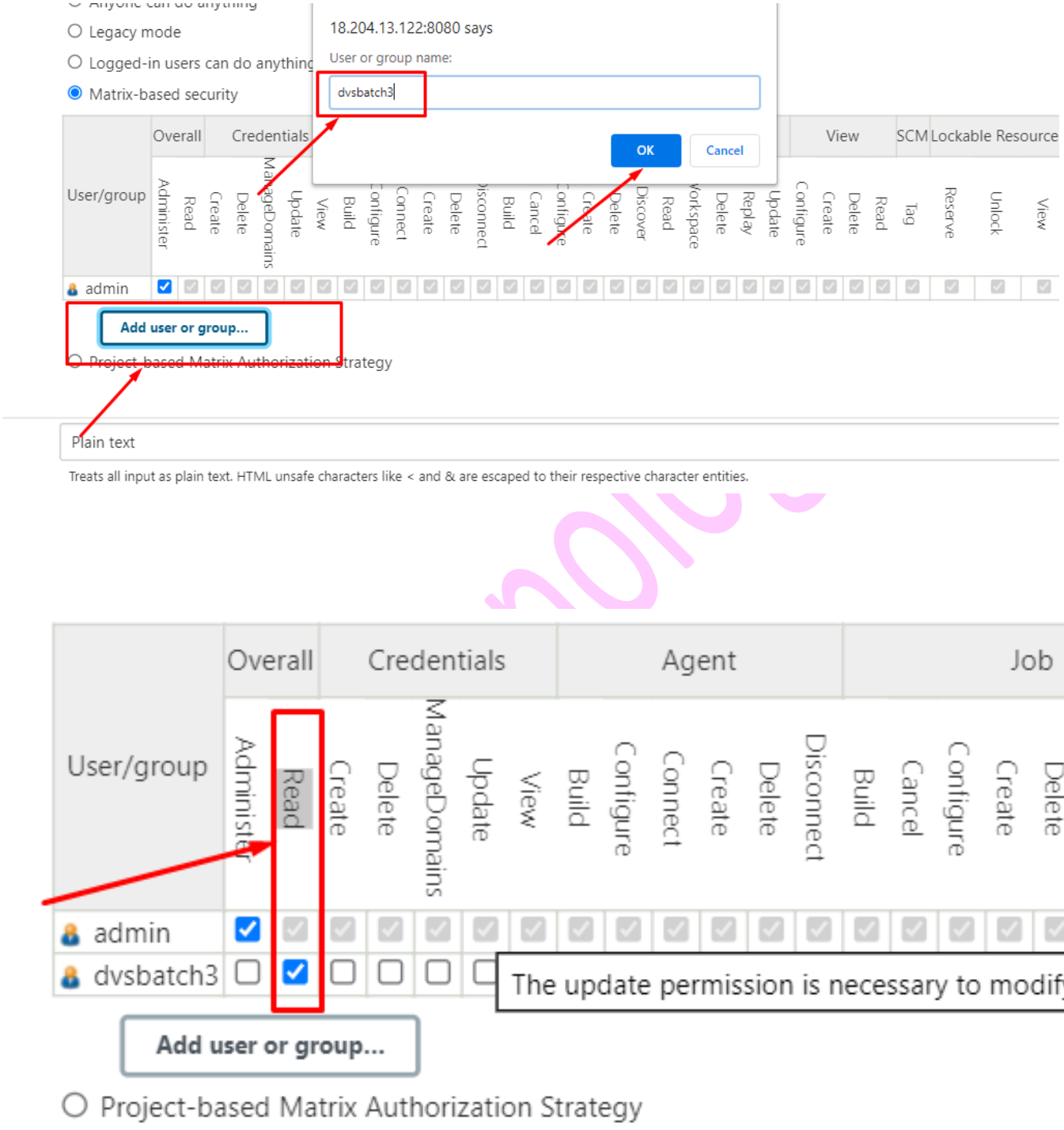
Restricting User Access:

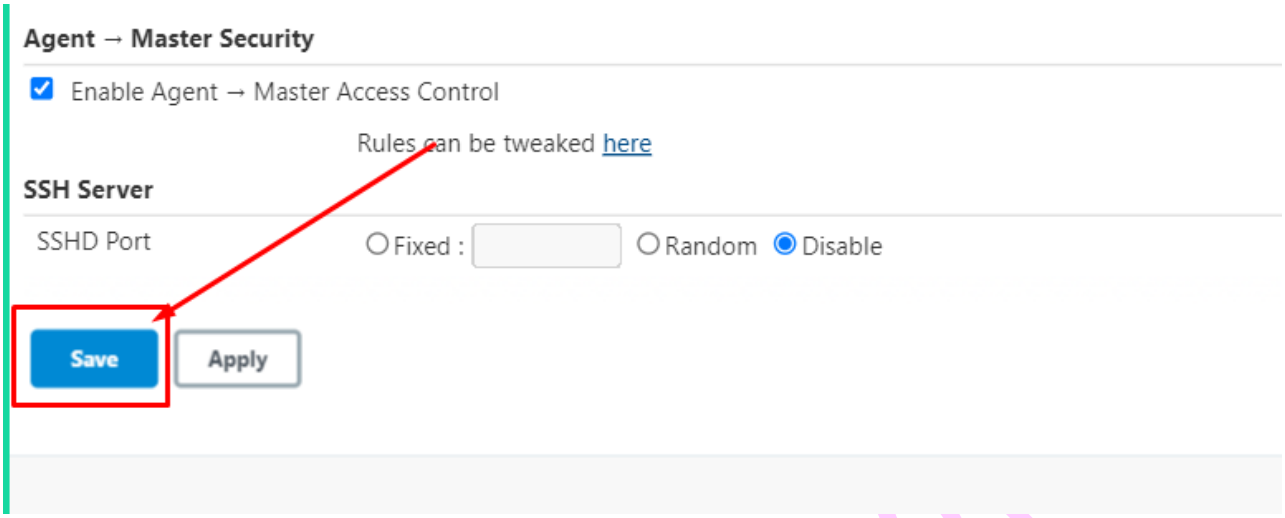


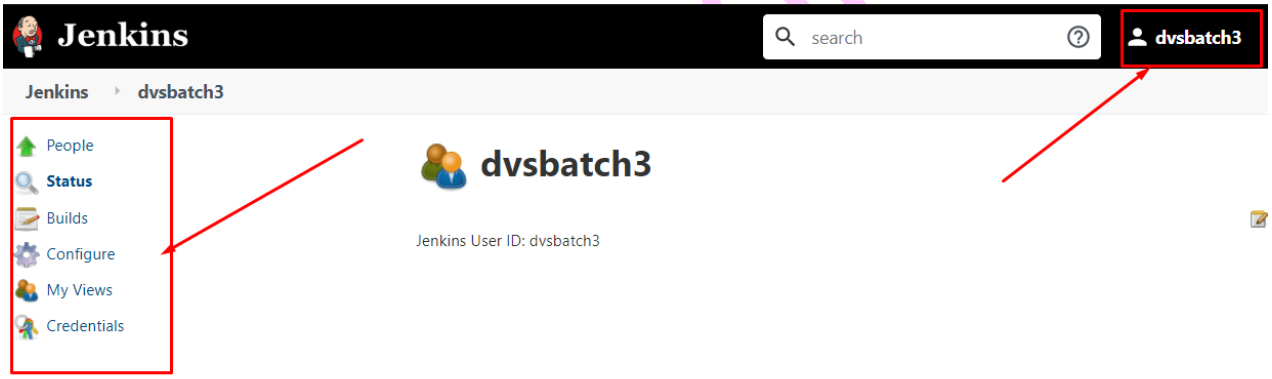

Security
Configure Global Security
Secure Jenkins; define who is allowed to access/use the system.
Manage Credentials
Configure credentials
Configure C
Configure the types
Manage Users
Create/delete/modify users that can log in to this Jenkins
Status Information
System Information
Displays various environmental information to assist trouble-shooting.
System Log
System log captures output from java.util.logging output related to Jenkins.
Load Statisti
Check your res see if you neec your builds.
About Jenkins


Authorization
Strategy
Authorization
Anyone can do anything
Legacy mode
Logged-in users can do anything
Matrix-based security
User/group
Overall
Credentials
Agent
Job
Run
Administer
Read
Create
Delete
ManageDomains
Update
View
Build
Configure
Connect
Create
Delete
Disconnect
Build
Cancel
Configure
Create
Delete
Discover
Read
Workspace
Delete
Replay
Update
Anonymous Users
Authenticated Users
Add user or group...
Project-based Matrix Authorization Strategy
Markup Formatter

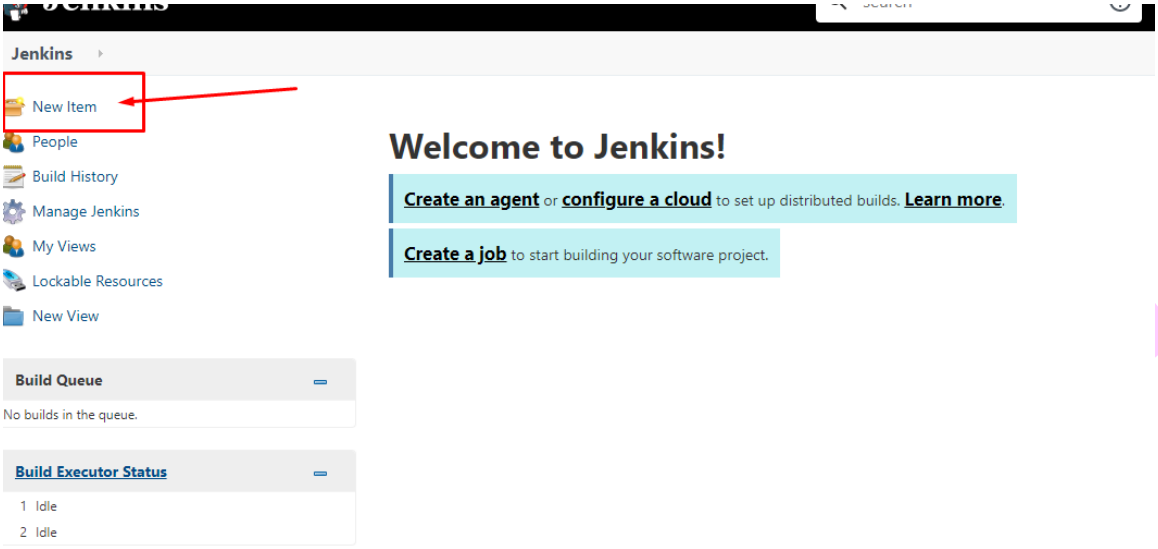

Anyone can do anything
Legacy mode
Logged-in users can do anything
Matrix-based security
18.204.13.122:8080 says
User or group name:
admin
OK
Cancel
User/group
Overall
Credentials
Agent
Job
Run
View
SCM
Lockable Resources
Administer
Read
Create
Delete
ManageDomains
Update
View
Build
Configure
Connect
Create
Delete
Disconnect
Build
Cancel
Configure
Create
Delete
Discover
Read
Workspace
Delete
Replay
Update
Configure
Create
Delete
Read
Tag
Reserve
Unlock
View
Add user or group...
Project-based Matrix Authorization Strategy
Plain text
Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.
Fixed :
Random
Disable
Agent protocols
Matrix-based security
admin
Add user or group...
Project-based Matrix Authorization Strategy
Plain text

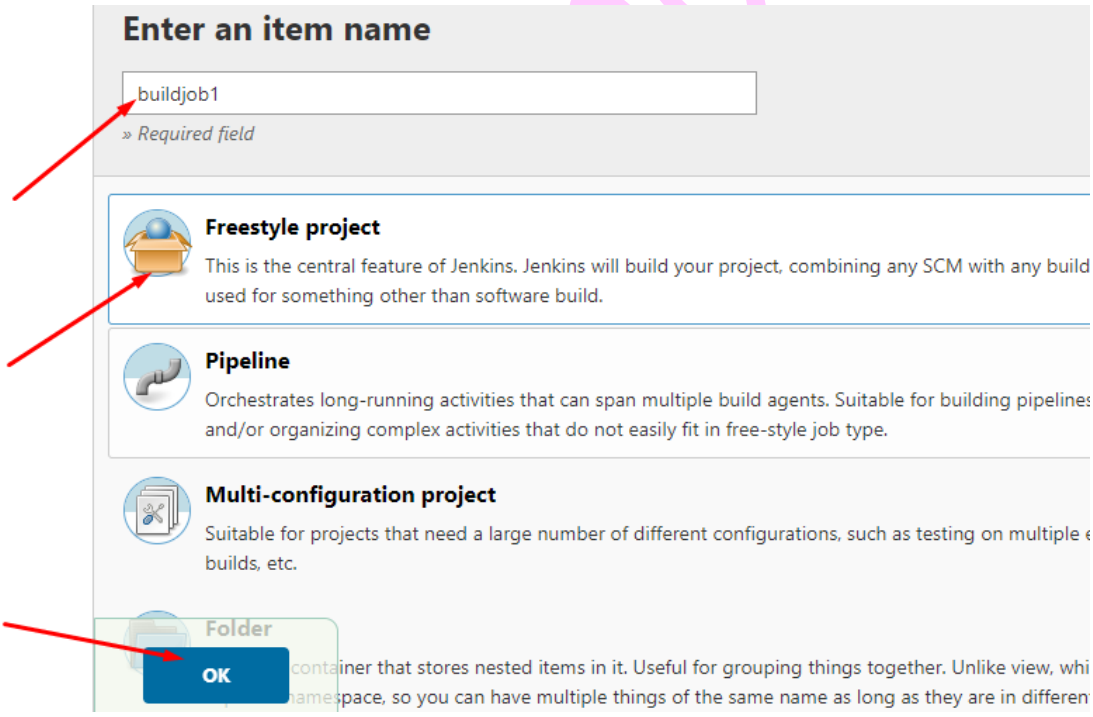

Legacy mode
Logged-in users can do anything
Matrix-based security
18.204.13.122:8080 says
User or group name:
dvsbatch3
OK
Cancel
User/group
Overall
Credentials
View
SCM
Lockable Resource
Administer
Read
Create
Delete
ManageDomains
Update
View
Build
Configure
Connect
Create
Delete
Disconnect
Build
Cancel
Configure
Create
Delete
Discover
Read
Workspace
Delete
Replay
Update
Configure
Create
Delete
Read
Tag
Reserve
Unlock
View
admin
Add user or group...
Project-based Matrix Authorization Strategy
Plain text
Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.
Overall
Credentials
Agent
Job
User/group
Administer
Read
Create
Delete
ManageDomains
Update
View
Build
Configure
Connect
Create
Delete
Disconnect
Build
Cancel
Configure
Create
Delete
admin
dvsbatch3
The update permission is necessary to modify
Add user or group...
Project-based Matrix Authorization Strategy

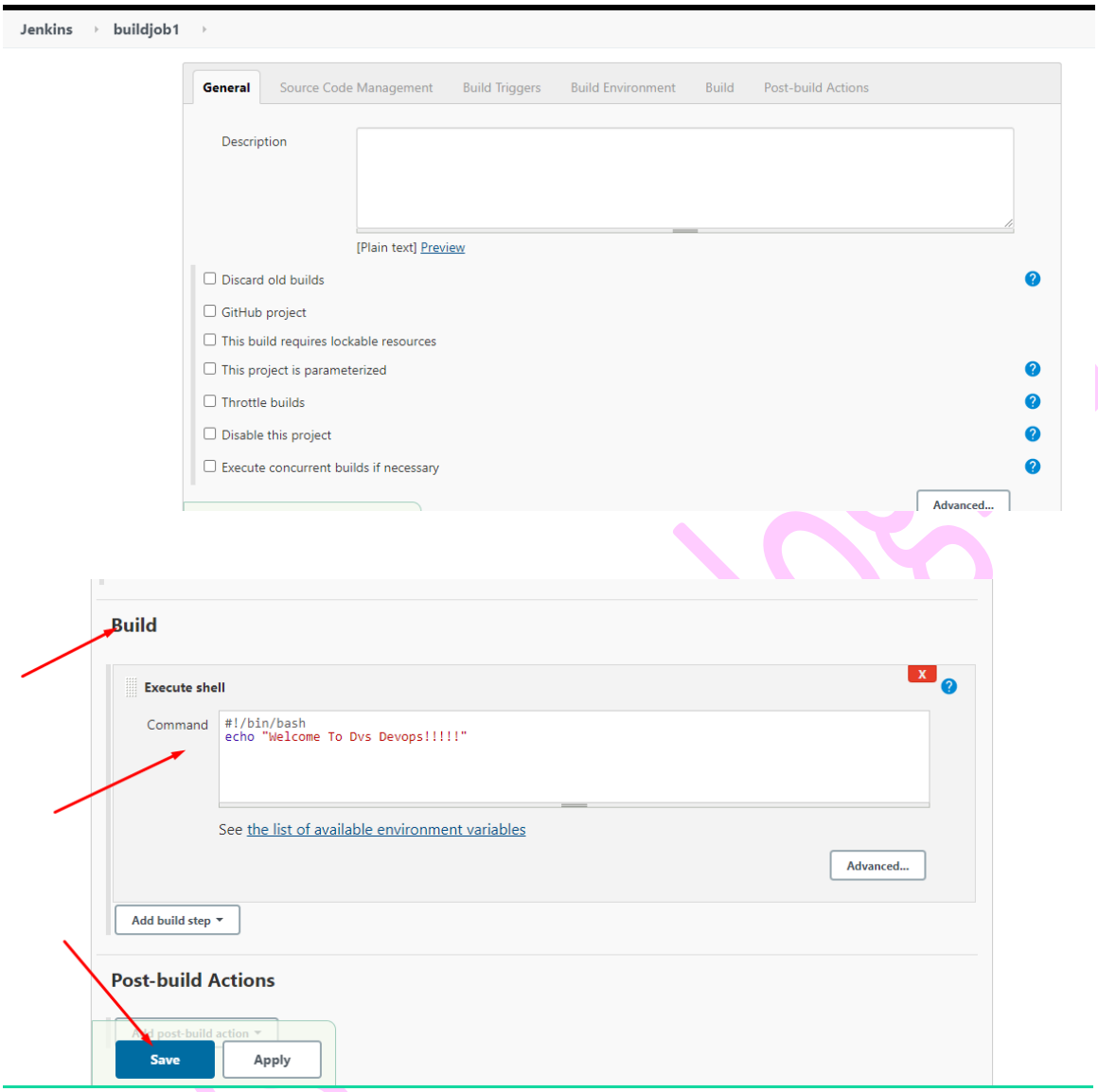

Agent → Master Security
Enable Agent → Master Access Control
Rules can be tweaked here
SSH Server
SSHD Port
Fixed :
Random
Disable
Save
Apply

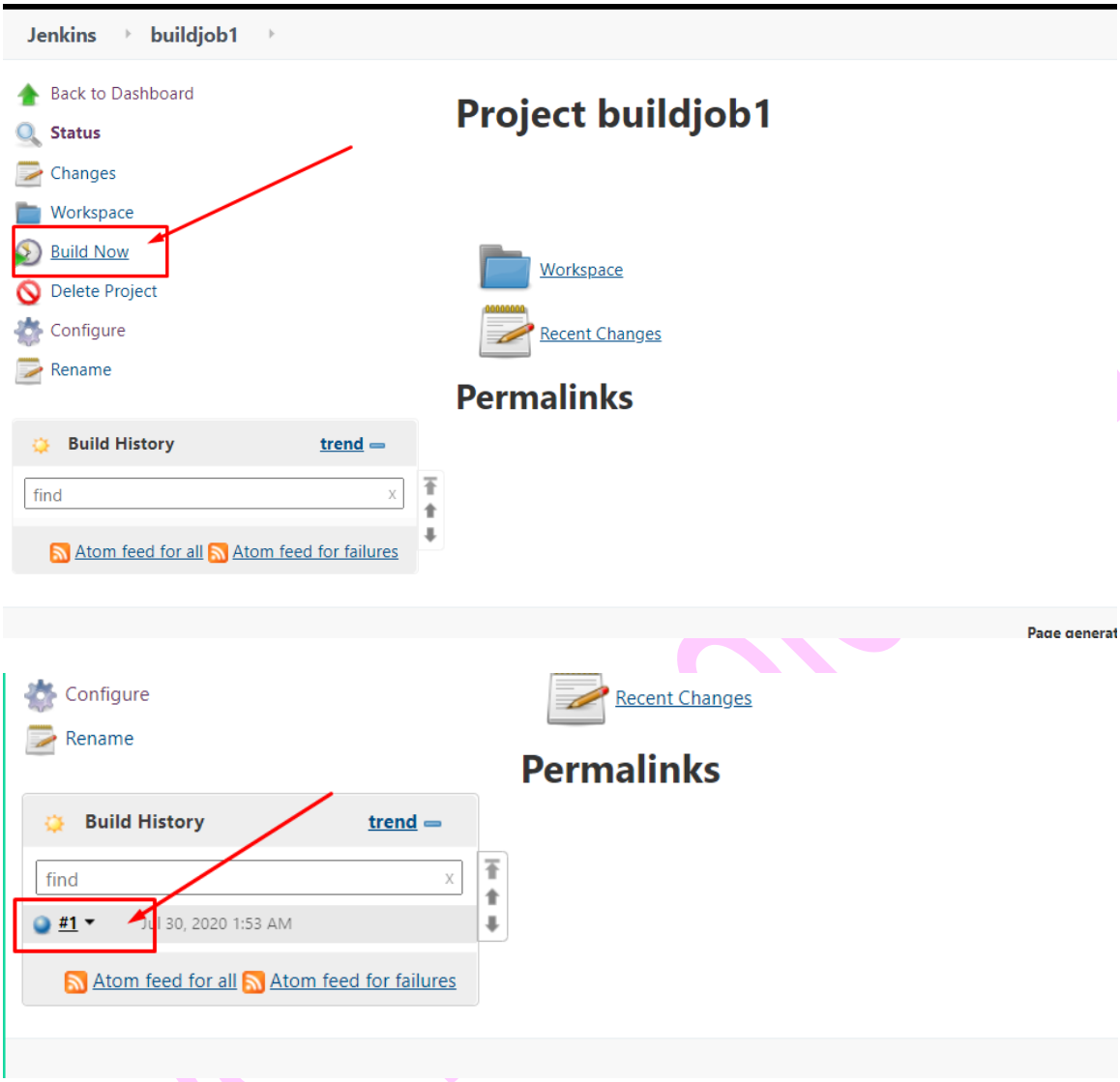

Jenkins
search
dvsbatch3
Jenkins
dvsbatch3
People
Status
Builds
Configure
My Views
Credentials
dvsbatch3
Jenkins User ID: dvsbatch3

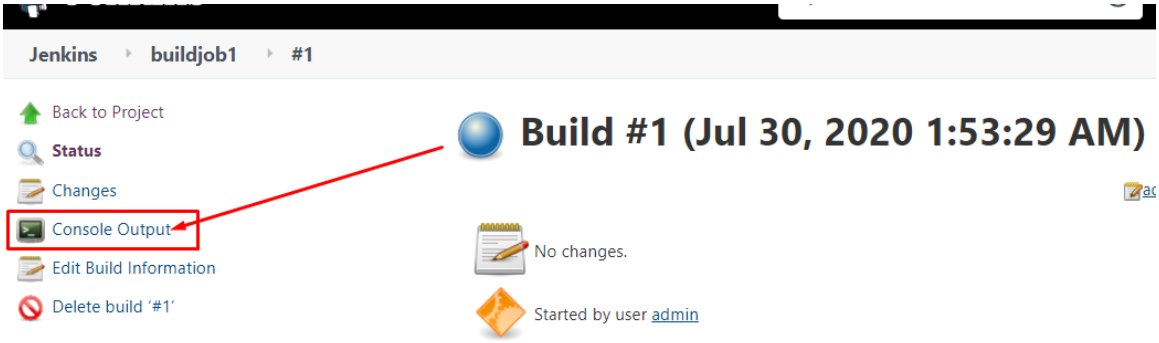
Creating freestyle jobs



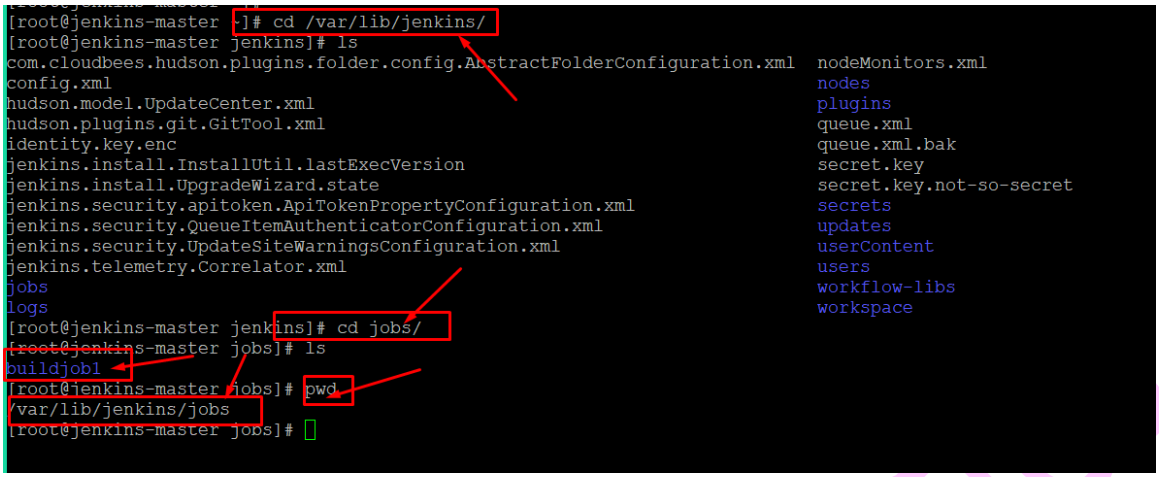


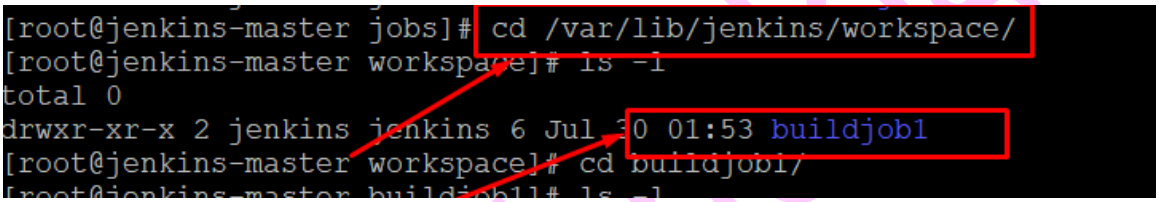

Jenkins
buildjob1
General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Description
[Plain text] Preview
Discard old builds
GitHub project
This build requires lockable resources
This project is parameterized
Throttle builds
Disable this project
Execute concurrent builds if necessary
Advanced...
Build
Execute shell
Command
#!/bin/bash
echo "Welcome To Dvs Devops!!!!!"
See the list of available environment variables
Advanced...
Add build step
Post-build Actions
Save
Apply


Jenkins
buildjob1
Back to Dashboard
Status
Changes
Workspace
Build Now
Delete Project
Configure
Rename
Project buildjob1
Workspace
Recent Changes
Permalinks
Build History
trend
find
Atom feed for all
Atom feed for failures
Configure
Rename
Recent Changes
Permalinks
Build History
trend
find
#1
Jul 30, 2020 1:53 AM
Atom feed for all
Atom feed for failures



Verfiying Build job in the jenkins server:





Adding a slave node

Do the below on slave1

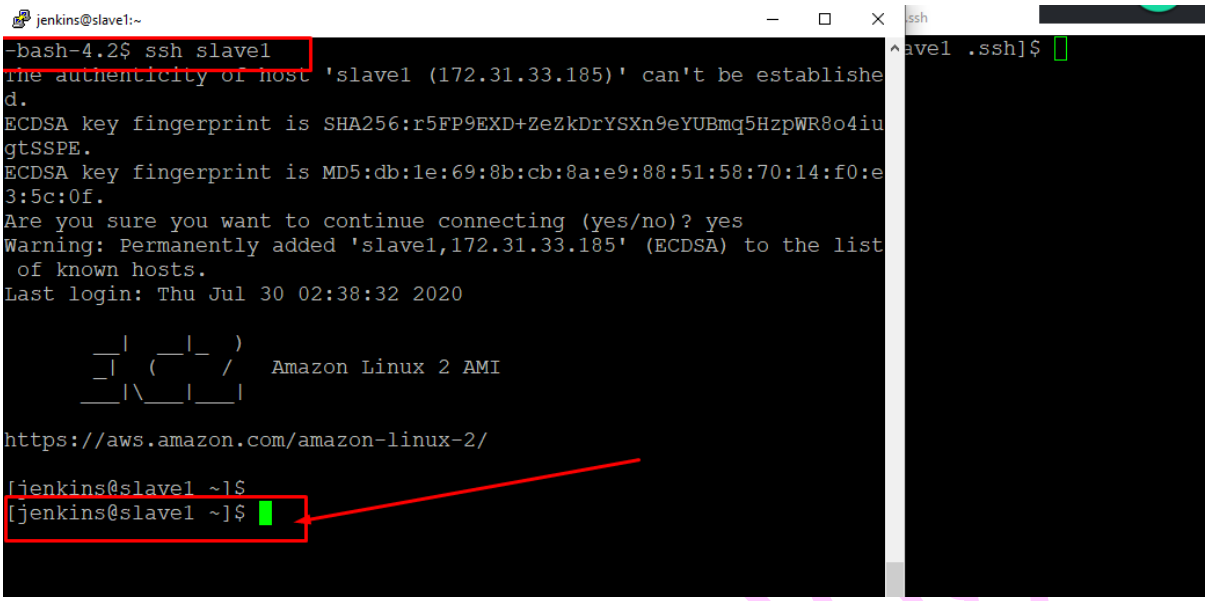
Do below in master

```
[root@jenkins-master buildjob1]# su -s /bin/bash - jenkins
Last login: Thu Jul 30 02:34:26 UTC 2020 on pts/0
-bash-4.2$ whoami
jenkins
-bash-4.2$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/var/lib/jenkins/.ssh/id_rsa):
Created directory '/var/lib/jenkins/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /var/lib/jenkins/.ssh/id_rsa.
Your public key has been saved in /var/lib/jenkins/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:E2PXvf88+j7rWdaeazoQ8A7l0n5eQ25ulZO4SdNqIaw jenkins@jenkins-master
The key's randomart image is:
+---[RSA 2048]----+
|                 |
|         . o .   |
|        + B . .  |
|       . * =   o |
|        S * . * o|
|         . * * @o|
|          . * X O|
|         E   B X=|
|           .oXOO|
+----[SHA256]-----+
```

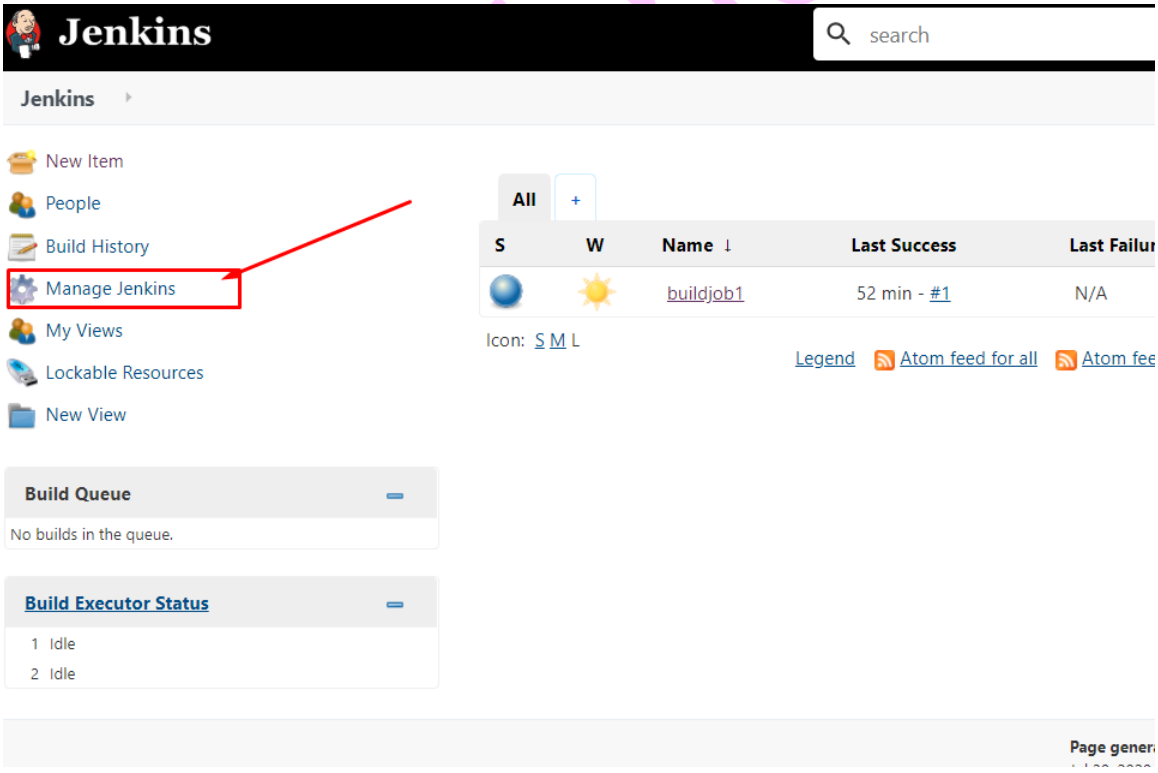
```
-bash-4.2$ hostname
jenkins-master
-bash-4.2$ id -a
uid=996(jenkins) gid=994(jenkins) groups=994(jenkins)
-bash-4.2$ cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDPRYN3+LqZGkMrj0V
uolmX39+UnXO3YSbInPSB0ZBvhqj6PnUoZTM5G9eFVGibMZZZGgUf2N
l5AaPRR+R030QCuS534Es8MJIltCXfEXnA2Cj1Vt9lbfald7Zj3Zpp7
1zWz1Y6nUhxTZT5IXJJwJPgE6iO2NLRxWeCVMSmnoyobeLTwRzh2fBK
MMjREx+F6n9cHaka54Fqb2Eu5xZsGM8hmVBescD/kS9rN5RqbJe5419
9KoLQvHIHaHq7pG6949foEdfxBmiPVKC4Kd jenkins@jenkins-mas
-bash-4.2$
```

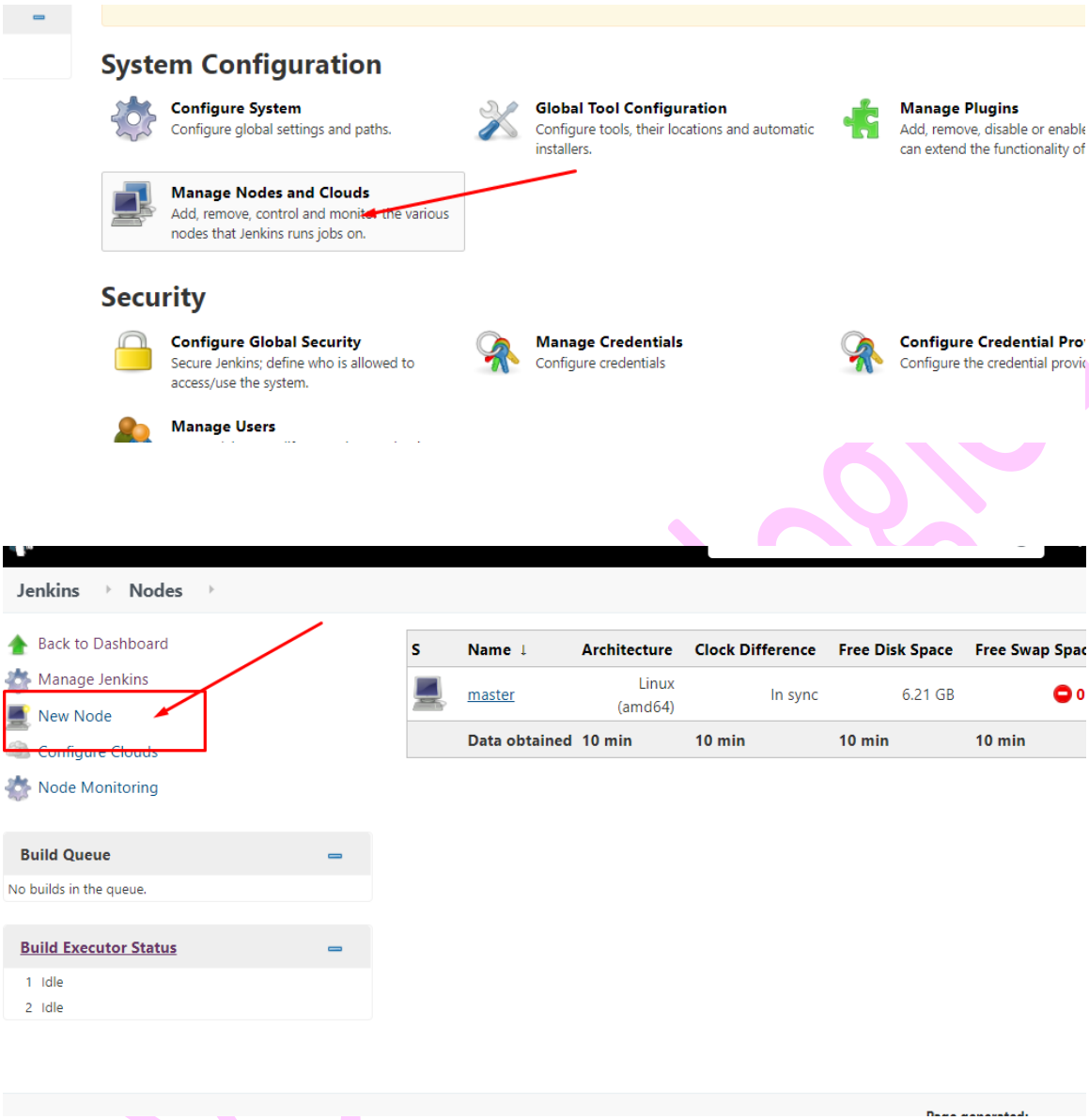
```
[jenkins@slave1 ~]$ whoami
jenkins
[jenkins@slave1 ~]$ pwd
/home/jenkins
[jenkins@slave1 ~]$ mkdir .ssh
[jenkins@slave1 ~]$ chmod 700 .ssh
[jenkins@slave1 ~]$ cd .ssh/
[jenkins@slave1 .ssh]$ touch authorized_keys
[jenkins@slave1 .ssh]$ chmod 600 authorized_keys
[jenkins@slave1 .ssh]$ echo "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQ
xyQtJl6NK+mluolmX39+UnXO3YSbInPSB0ZBvhqj6PnUoZTM5G9eFVGibMZZZGgUf2Na
RR+R030QCuS534Es8MJIltCXfEXnA2Cj1Vt9lbfald7Zj3Zpp7eF5BsxwURB12xs1zWz
gE6iO2NLRxWeCVMSmnoyobeLTwRzh2fBKo6Eqzot+XwrLdWMMjREx+F6n9cHaka54Fqb
/kS9rN5RqbJe5419BfTt5gxsTwk3eb9KoLQvHIHaHq7pG6949foEdfxBmiPVKC4Kd je
er" >authorized_keys
[jenkins@slave1 .ssh]$
```

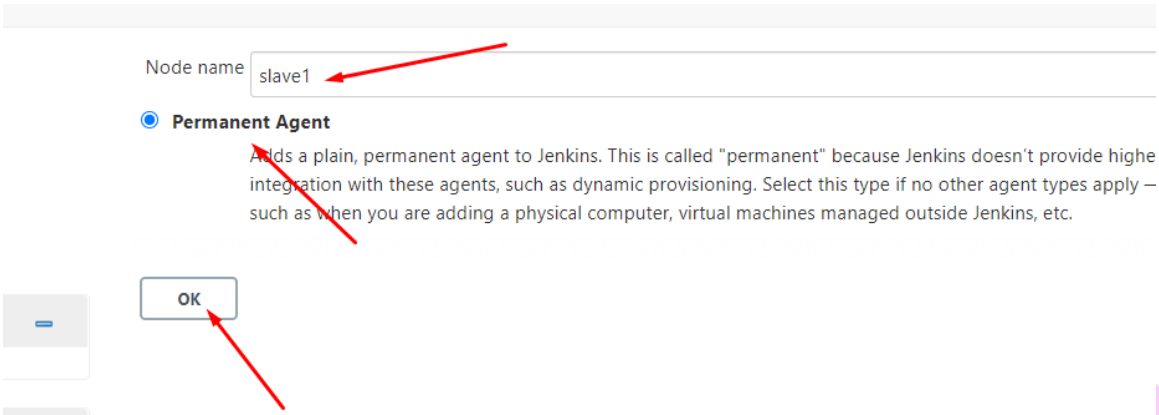
Copy public key of master to slave1

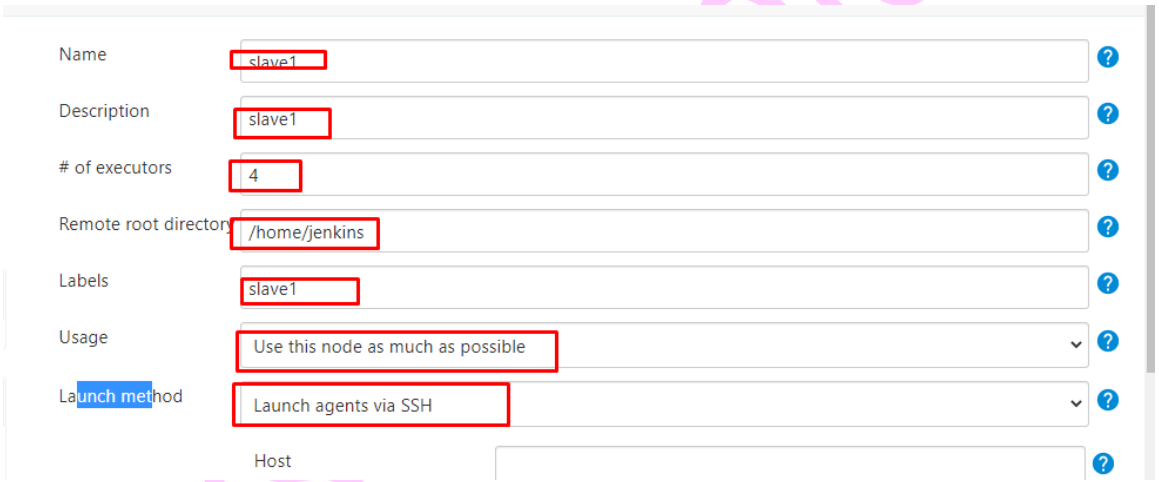


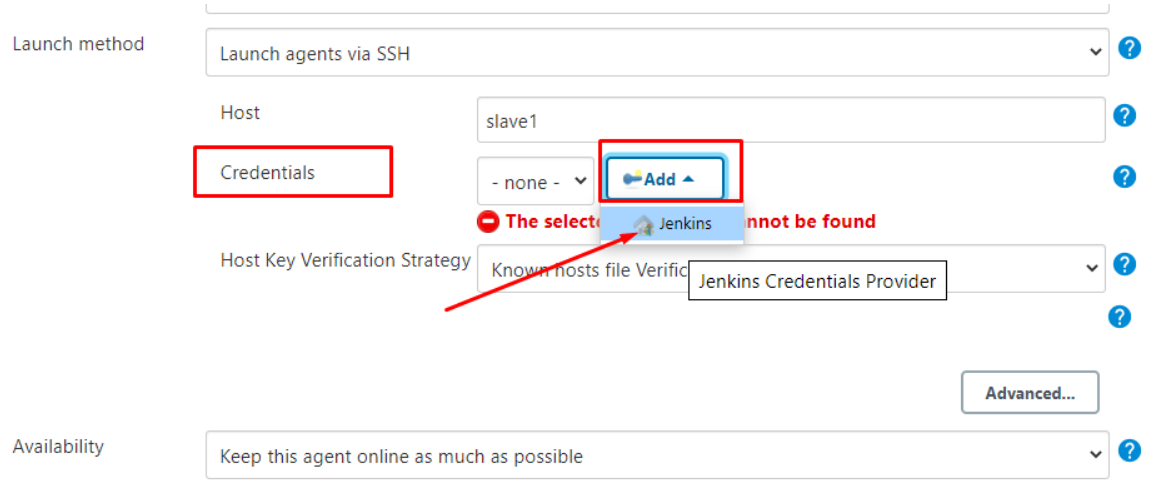
Configure Slave Node in jenkins :

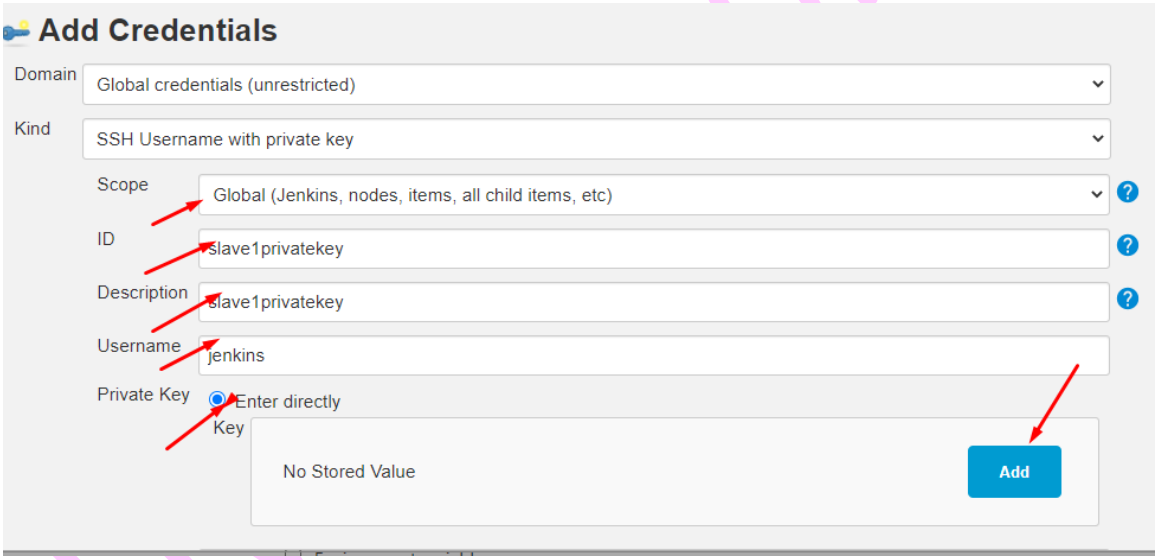


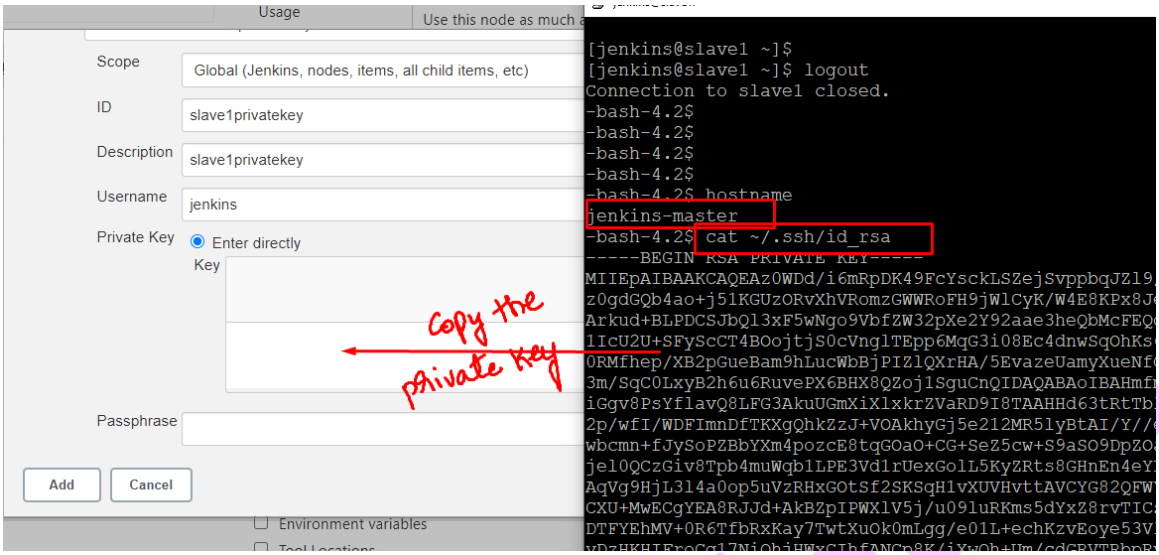

System Configuration
Configure System
Configure global settings and paths.
Global Tool Configuration
Configure tools, their locations and automatic installers.
Manage Plugins
Add, remove, disable or enable
can extend the functionality of
Manage Nodes and Clouds
Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
Security
Configure Global Security
Secure Jenkins; define who is allowed to access/use the system.
Manage Credentials
Configure credentials
Configure Credential Pro
Configure the credential provic
Manage Users
Jenkins
Nodes
Back to Dashboard
Manage Jenkins
New Node
Configure Clouds
Node Monitoring
S
Name
Architecture
Clock Difference
Free Disk Space
Free Swap Spac
master
Linux (amd64)
In sync
6.21 GB
0
Data obtained
10 min
10 min
10 min
10 min
Build Queue
No builds in the queue.
Build Executor Status
1 Idle
2 Idle

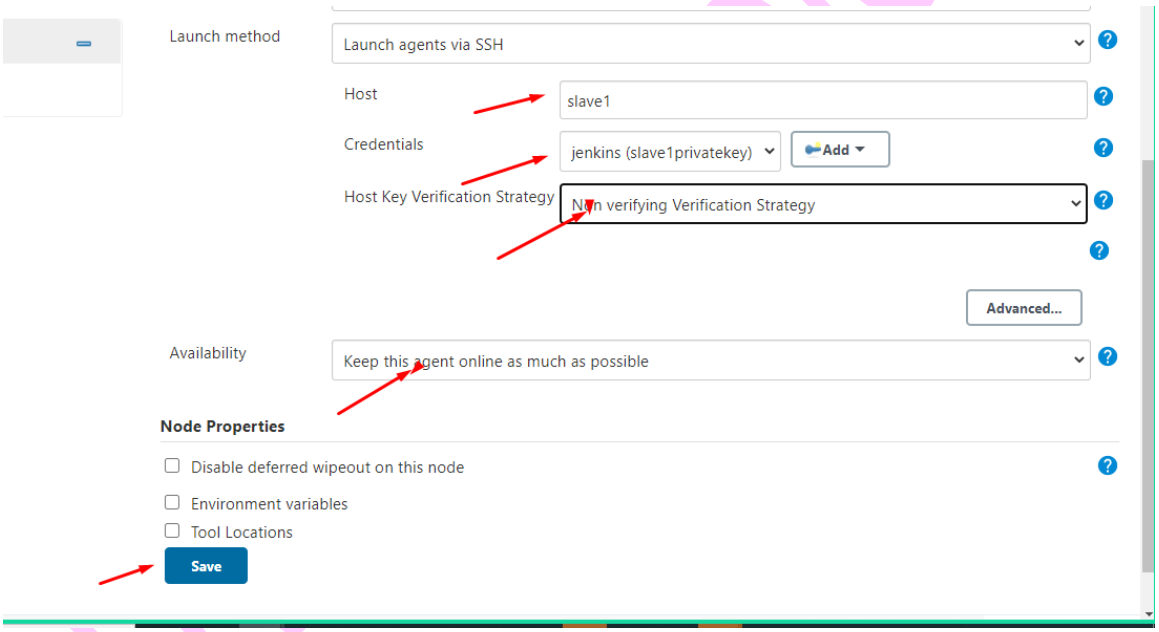

Node name
slave1
Permanent Agent
Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't provide highe
integration with these agents, such as dynamic provisioning. Select this type if no other agent types apply –
such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.
OK

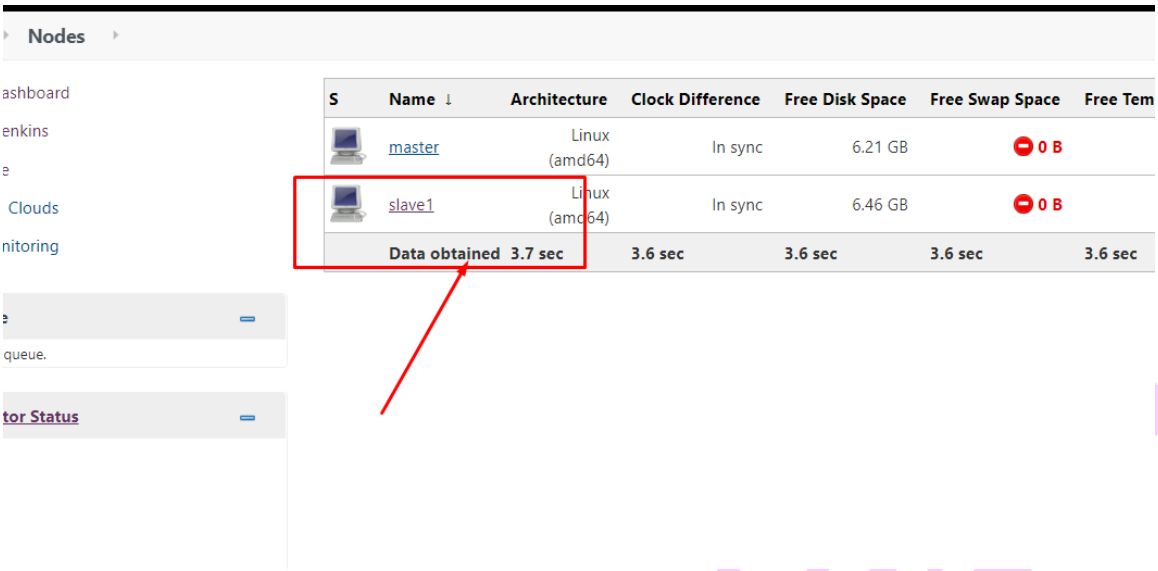

Name
slave1
Description
slave1
# of executors
4
Remote root directory
/home/jenkins
Labels
slave1
Usage
Use this node as much as possible
Launch method
Launch agents via SSH
Host


Launch method
Launch agents via SSH
Host
slave1
Credentials
- none -
Add
Jenkins
Host Key Verification Strategy
Jenkins Credentials Provider
Advanced...
Availability
Keep this agent online as much as possible
Node Properties
Disable deferred wipeout on this node

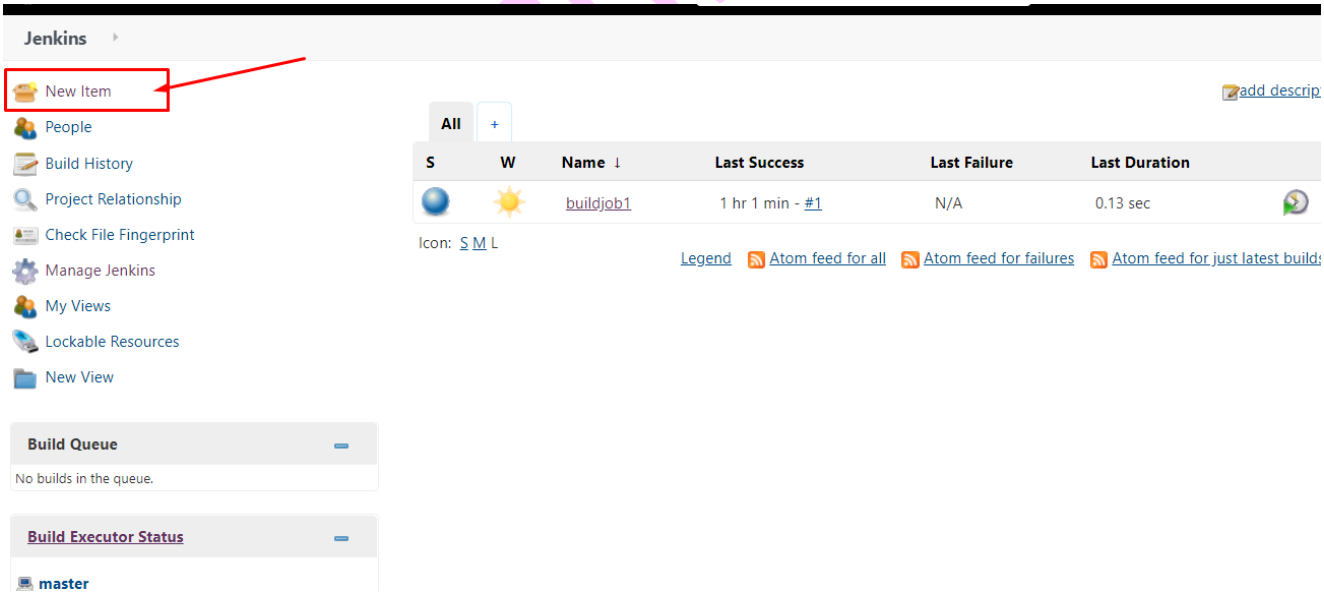

Add Credentials
Domain
Global credentials (unrestricted)
Kind
SSH Username with private key
Scope
Global (Jenkins, nodes, items, all child items, etc)
ID
slave1privatekey
Description
slave1privatekey
Username
jenkins
Private Key
Enter directly
Key
No Stored Value
Add

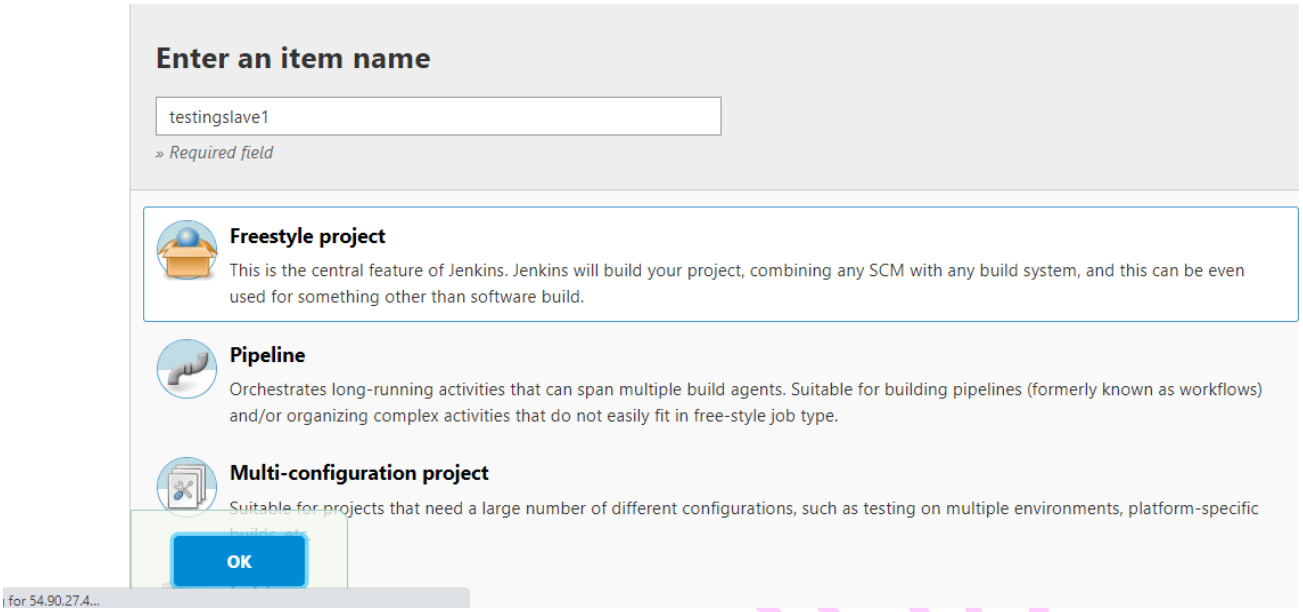

Usage
Use this node as much
Scope
Global (Jenkins, nodes, items, all child items, etc)
ID
slave1privatekey
Description
slave1privatekey
Username
jenkins
Private Key
Enter directly
Key
Copy the private key
Passphrase
Add
Cancel
Environment variables
[jenkins@slave1 ~]$
[jenkins@slave1 ~]$ logout
Connection to slave1 closed.
-bash-4.2$
-bash-4.2$
-bash-4.2$
-bash-4.2$
-bash-4.2$ hostname
jenkins-master
-bash-4.2$ cat ~/.ssh/id_rsa
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAz0WDd/i6mRpDK49FcYsckLSZejSvppbqJZl9
z0gdGQb4ao+j51KGUzORvXhVRomzGWWRoFH9jWlCyK/W4E8KPx8J
Arkud+BLPDCSJbQl3xF5wNgo9VbfZW32pXe2Y92aae3heQbMcFEQ
1IcU2U+SFyScCT4BOojtjS0cVnglTEpp6MqG3i08Ec4dnwSqOhKs
0RMfhep/XB2pGueBam9hLucWbBjPIZlQXrHA/5EvazeUamyXueNf
3m/SqC0LxyB2h6u6RuvePX6BHX8QZoj1SguCnQIDAQABAoIBAHmf
iGgv8PsYflavQ8LFG3AkuUGmXiXlxkrZVaRD9I8TAAHHd63tRtTb
2p/wfI/WDFImnDfTKXgQhkZzJ+VOAkhyGj5e212MR5lyBtAI/Y//
wbcmn+fJySoPZBbYXm4pozcE8tqGOaO+CG+SeZ5cw+S9aSO9DpZO
jel0QCzGiv8Tpb4muWqb1LPE3Vd1rUexGolL5KyZRts8GHnEn4eY
AqVg9HjL314a0op5uVzRHxGOtSf2SKSqH1vXUVHvttAVCYG82QFW
CXU+MwECgYEA8RJJd+AkBZpIPWXlV5j/u09luRKms5dYxZ8rvTIC
DTFYEhMV+0R6TfbRxKay7TwtXuOk0mLgg/e01L+echKzvEoye53V

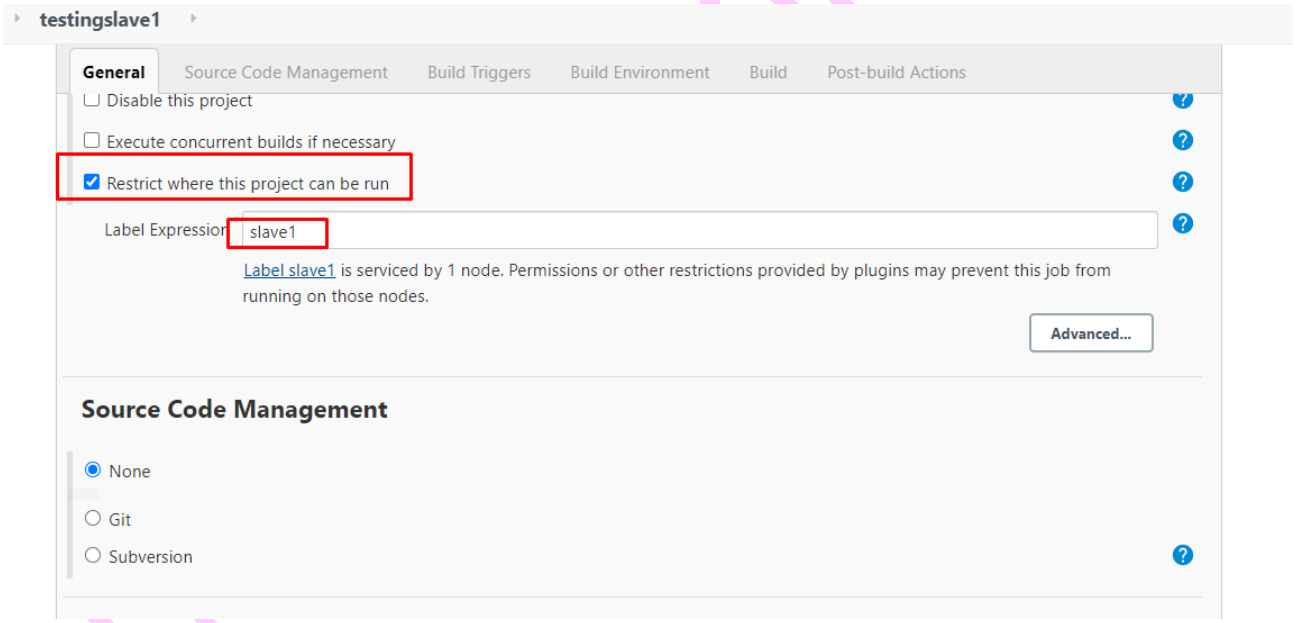

Launch method
Launch agents via SSH
Host
slave1
Credentials
jenkins (slave1privatekey)
Add
Host Key Verification Strategy
Non verifying Verification Strategy
Advanced...
Availability
Keep this agent online as much as possible
Node Properties
Disable deferred wipeout on this node
Environment variables
Tool Locations
Save

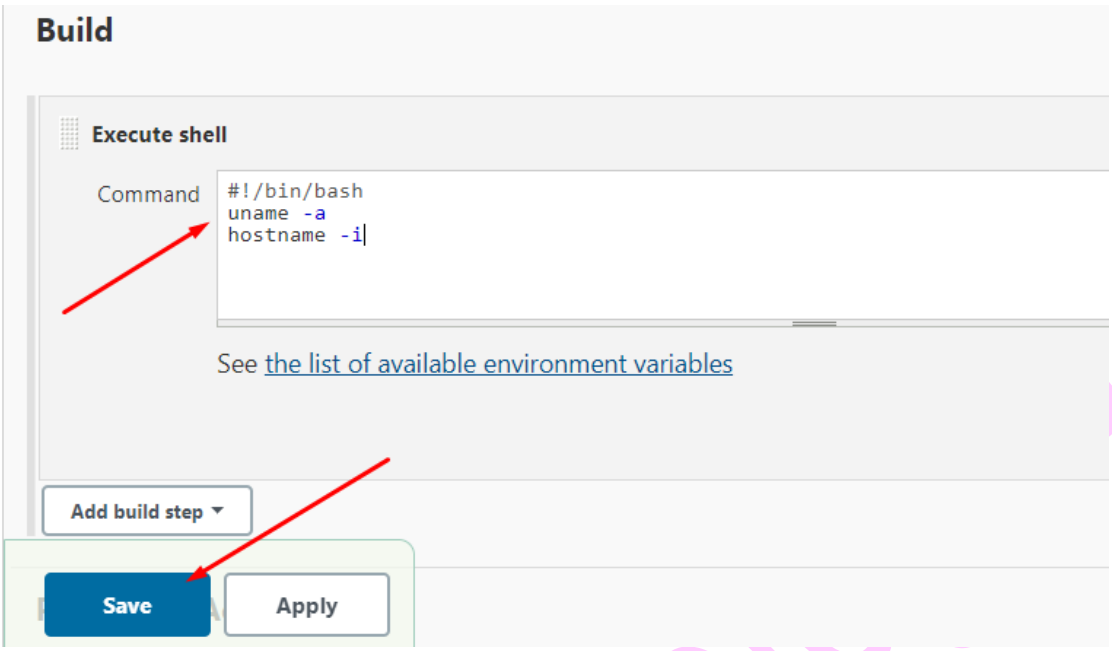


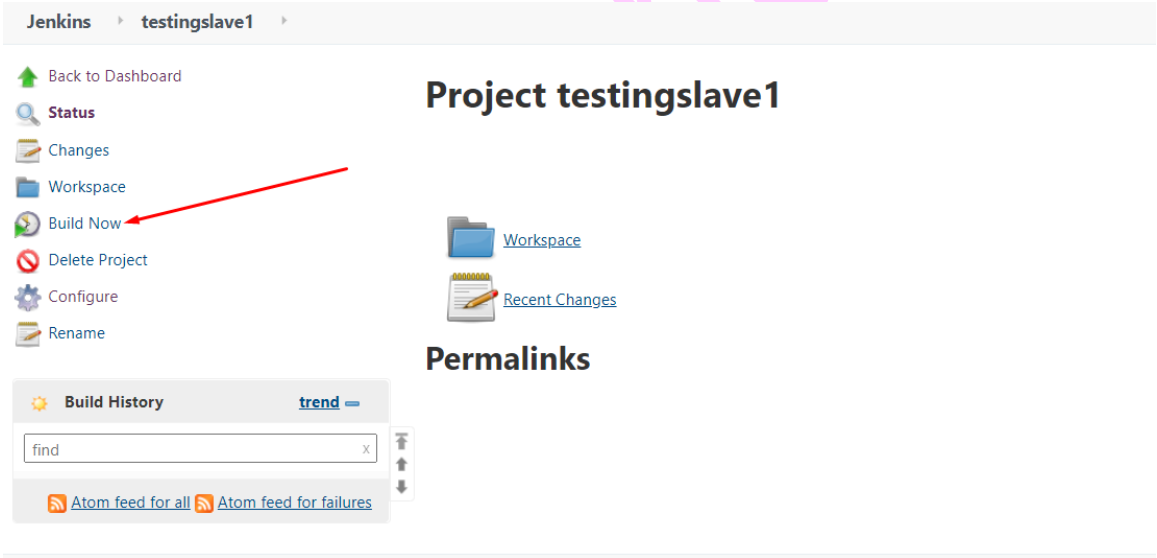
Executing build job in slave1

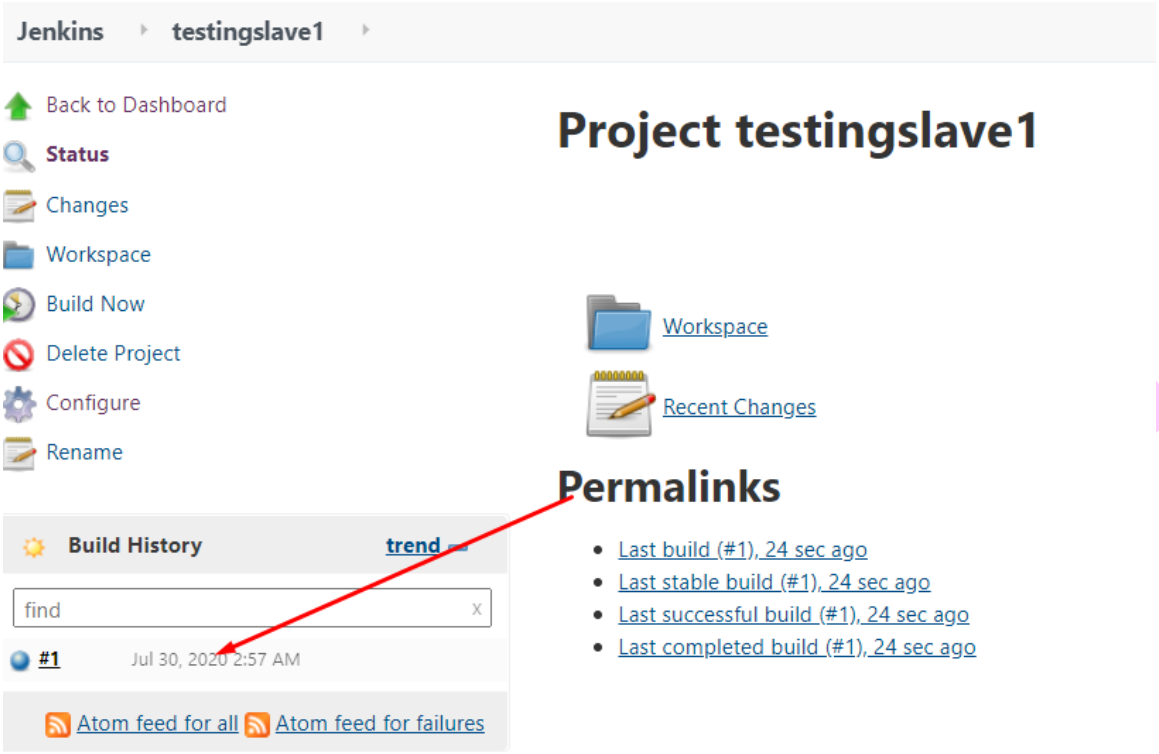


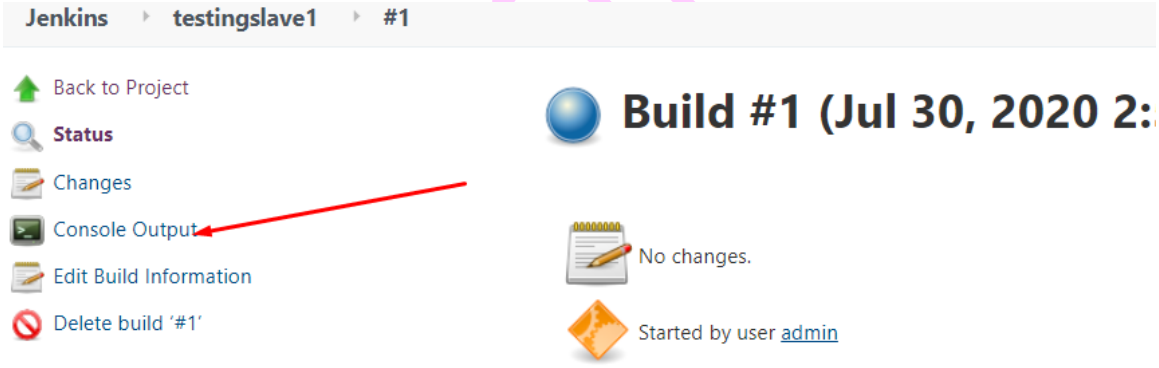

Enter an item name
testingslave1
» Required field
Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
Pipeline
Orchestrates long-running activities that can 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
OK


testingslave1
General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Disable this project
Execute concurrent builds if necessary
Restrict where this project can be run
Label Expression
slave1
Label slave1 is serviced by 1 node. Permissions or other restrictions provided by plugins may prevent this job from running on those nodes.
Advanced...
Source Code Management
None
Git
Subversion


Build
Execute shell
Command
#!/bin/bash
uname -a
hostname -i
See the list of available environment variables
Add build step
Save
Apply

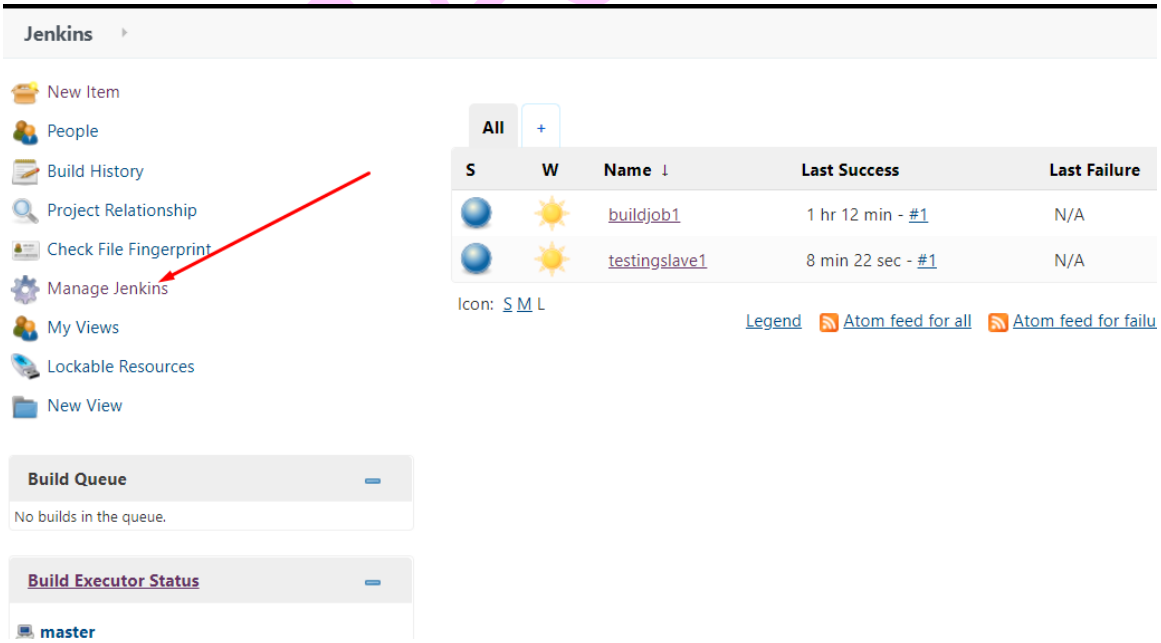

Jenkins
testingslave1
Back to Dashboard
Status
Changes
Workspace
Build Now
Delete Project
Configure
Rename
Project testingslave1
Workspace
Recent Changes
Permalinks
Build History
trend
find
Atom feed for all
Atom feed for failures

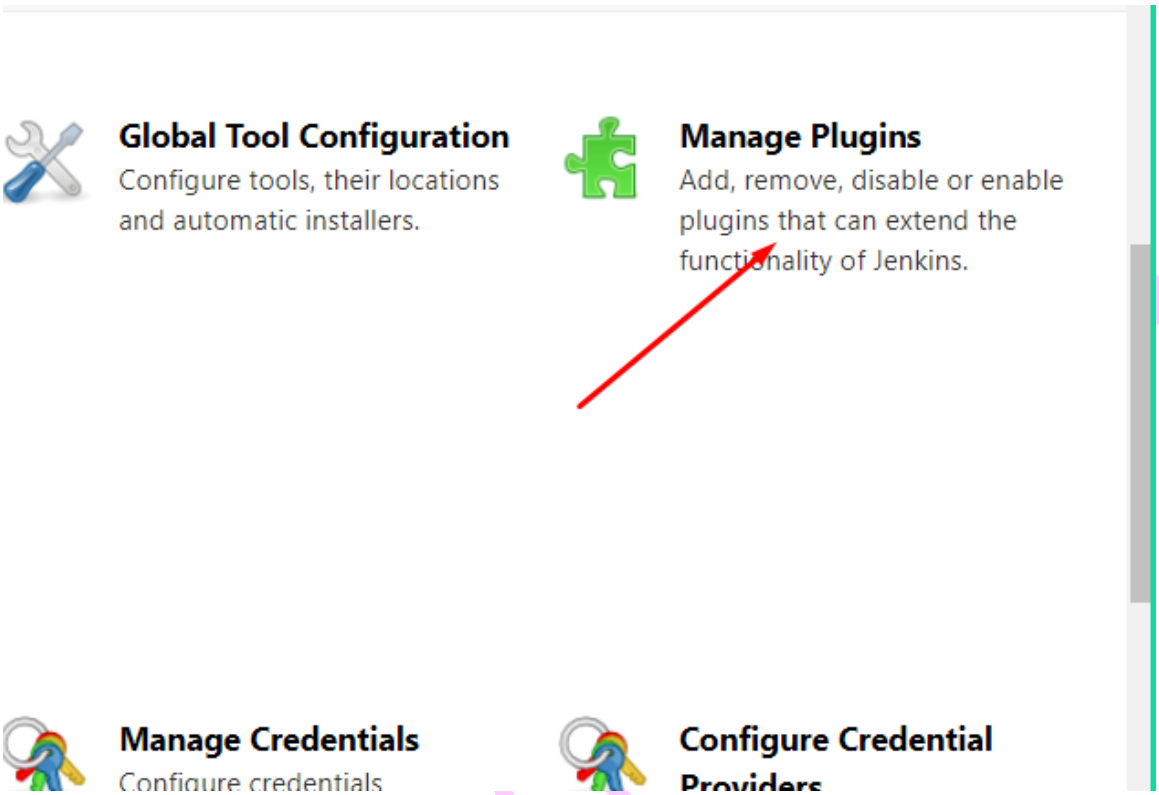

Jenkins
testingslave1
Back to Dashboard
Status
Changes
Workspace
Build Now
Delete Project
Configure
Rename
Build History
trend
find
#1
Jul 30, 2020 2:57 AM
Atom feed for all
Atom feed for failures
Project testingslave1
Workspace
Recent Changes
Permalinks
Last build (#1), 24 sec ago
Last stable build (#1), 24 sec ago
Last successful build (#1), 24 sec ago
Last completed build (#1), 24 sec ago

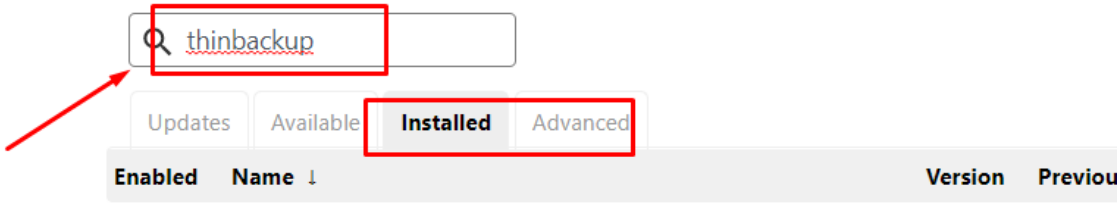

Jenkins
testingslave1
#1
Back to Project
Status
Changes
Console Output
Edit Build Information
Delete build '#1'
Build #1 (Jul 30, 2020 2:
No changes.
Started by user admin

Plugin Manager

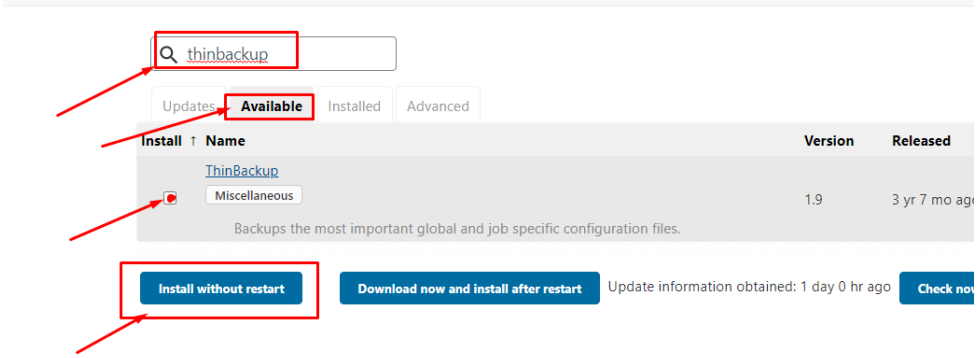
Installing thin backup plugin :

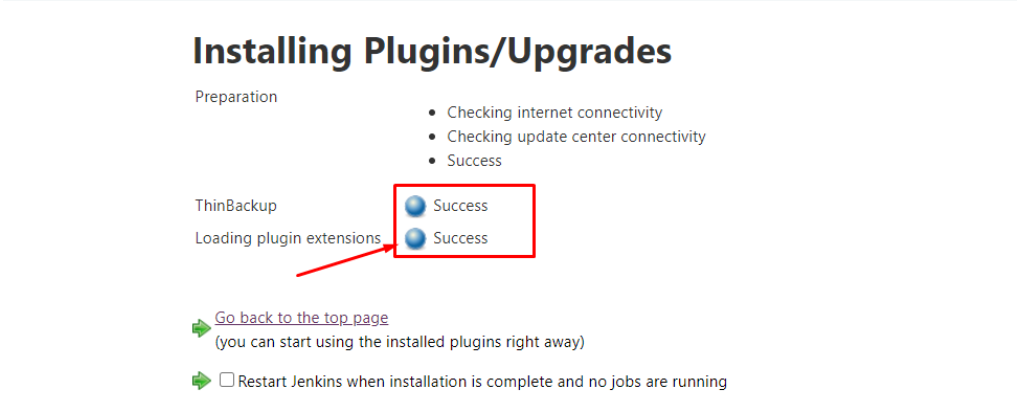


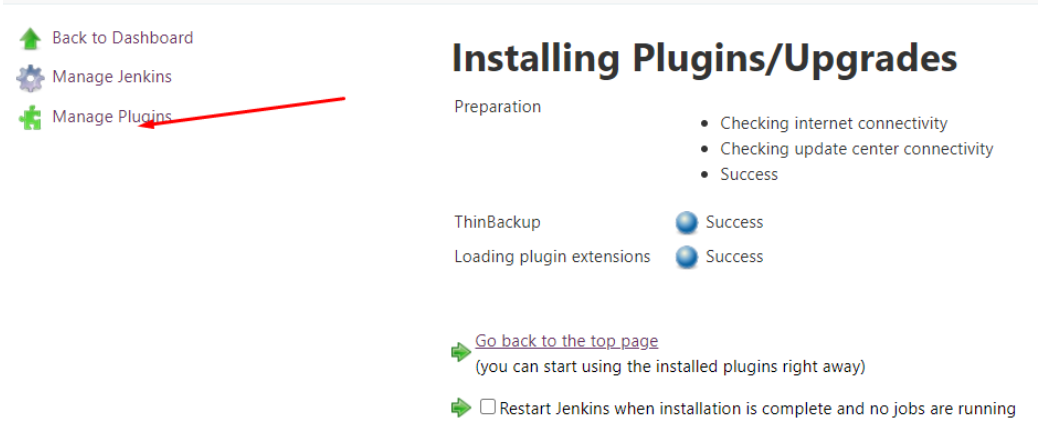


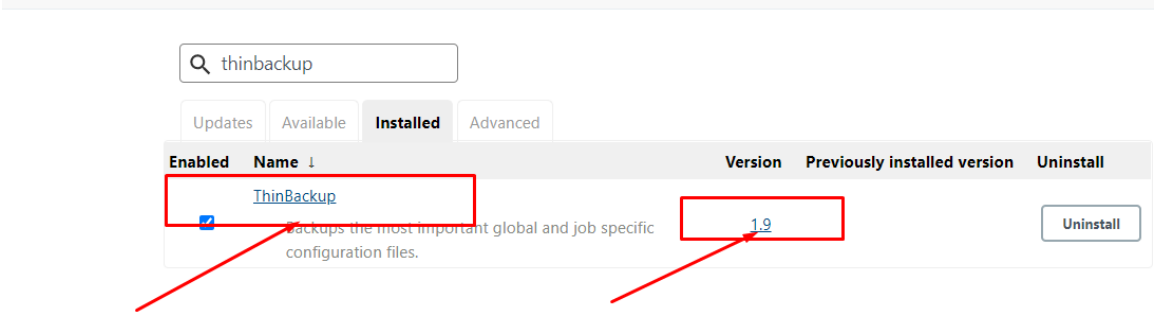


plug not Installed

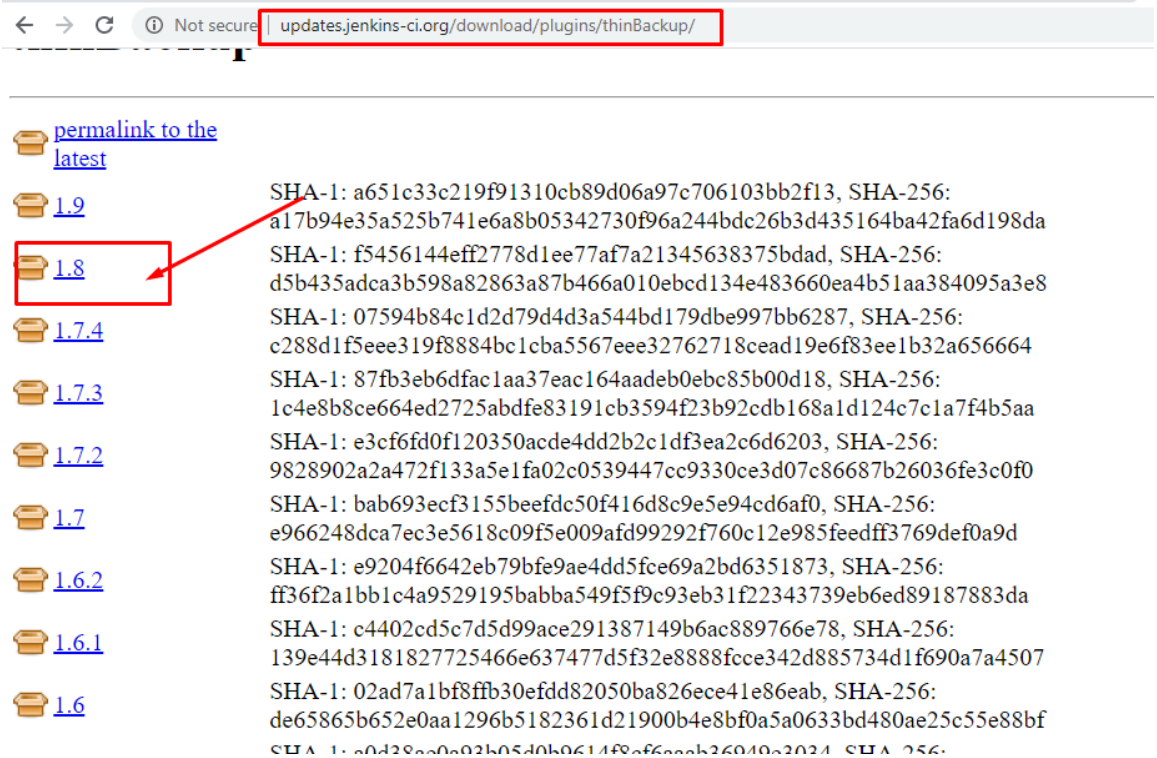

thinbackup
Updates
Available
Installed
Advanced
Install ↑ Name
Version
Released
ThinBackup
Miscellaneous
1.9
3 yr 7 mo ag
Backups the most important global and job specific configuration files.
Install without restart
Download now and install after restart
Update information obtained: 1 day 0 hr ago
Check no

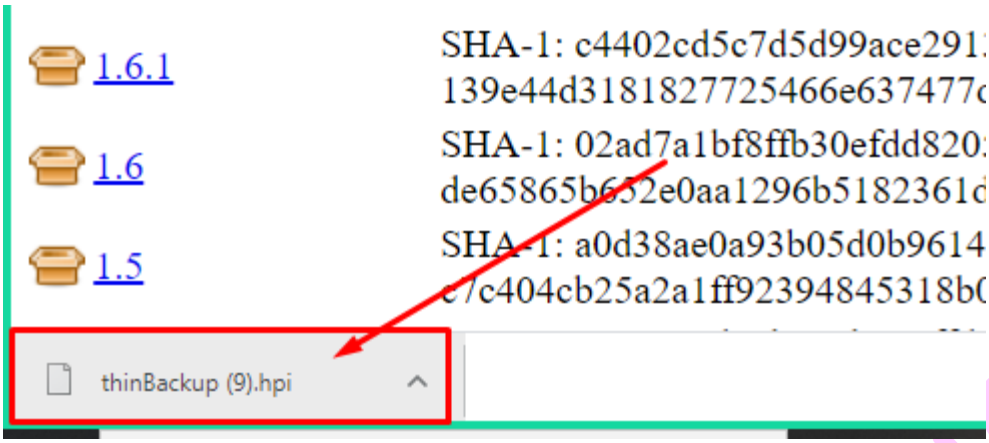

Installing Plugins/Upgrades
Preparation
Checking internet connectivity
Checking update center connectivity
Success
ThinBackup
Success
Loading plugin extensions
Success
Go back to the top page
(you can start using the installed plugins right away)
Restart Jenkins when installation is complete and no jobs are running

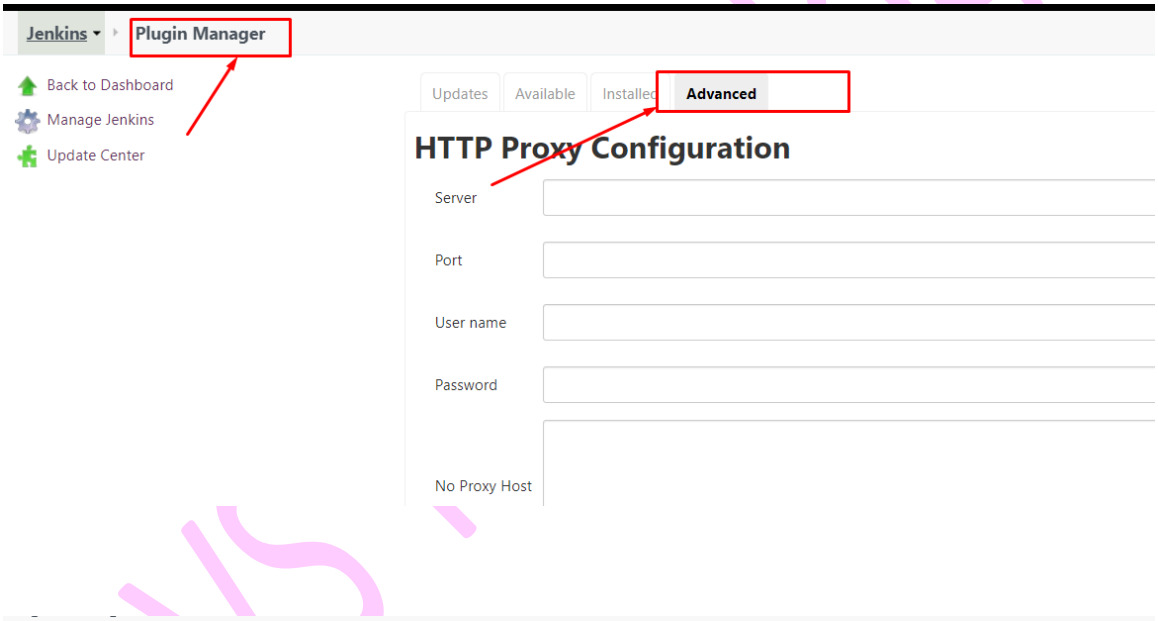

Back to Dashboard
Manage Jenkins
Manage Plugins
Installing Plugins/Upgrades
Preparation
Checking internet connectivity
Checking update center connectivity
Success
ThinBackup
Success
Loading plugin extensions
Success
Go back to the top page
(you can start using the installed plugins right away)
Restart Jenkins when installation is complete and no jobs are running

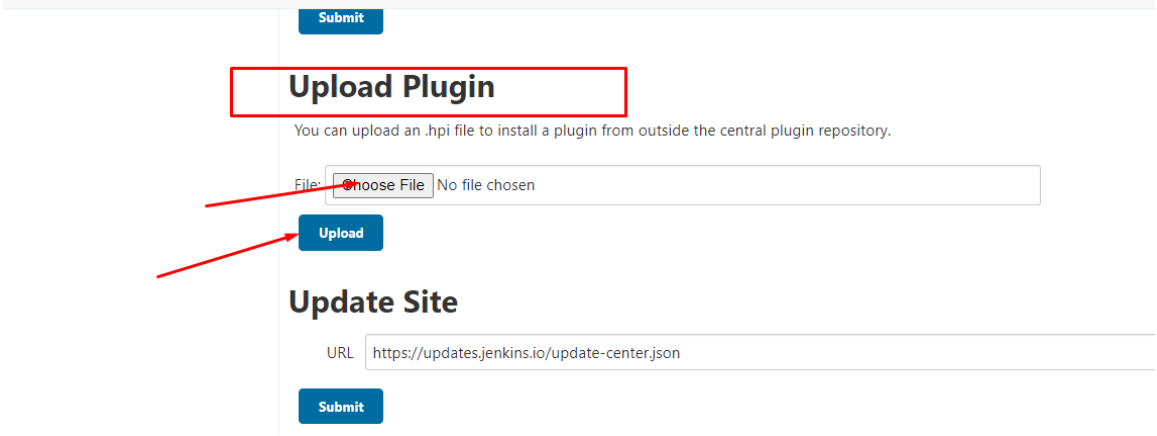


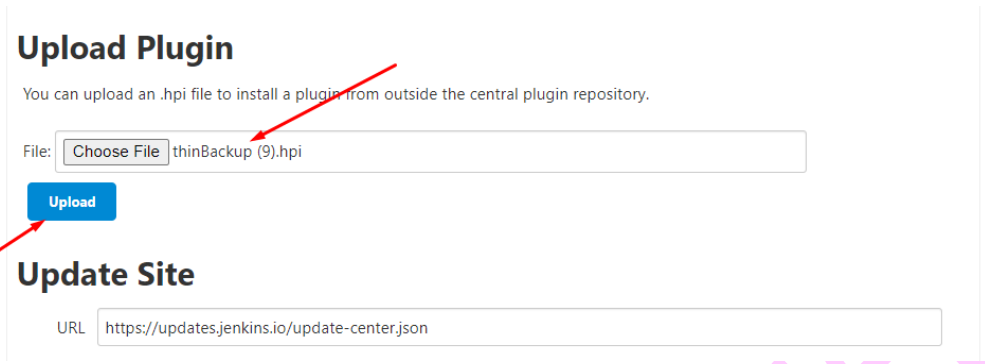
Downgrade the plugin version:

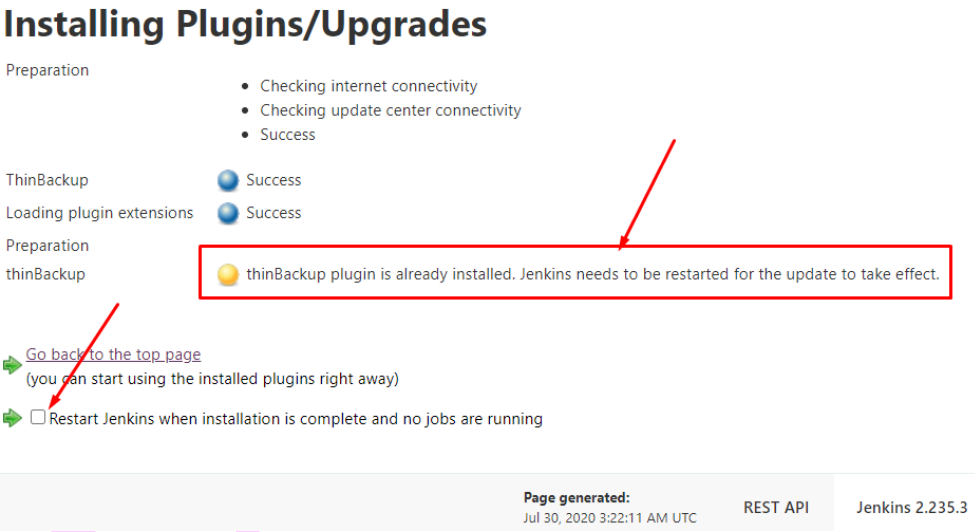



1.6.1
1.6
1.5
SHA-1: c4402cd5c7d5d99ace291
139e44d3181827725466e637477c
SHA-1: 02ad7a1bf8ffb30efdd820
de65865b632e0aa1296b5182361d
SHA-1: a0d38ae0a93b05d0b9614
e7c404cb25a2a1ff92394845318b0
thinBackup (9).hpi


Jenkins
Plugin Manager
Back to Dashboard
Manage Jenkins
Update Center
Updates
Available
Installed
Advanced
HTTP Proxy Configuration
Server
Port
User name
Password
No Proxy Host

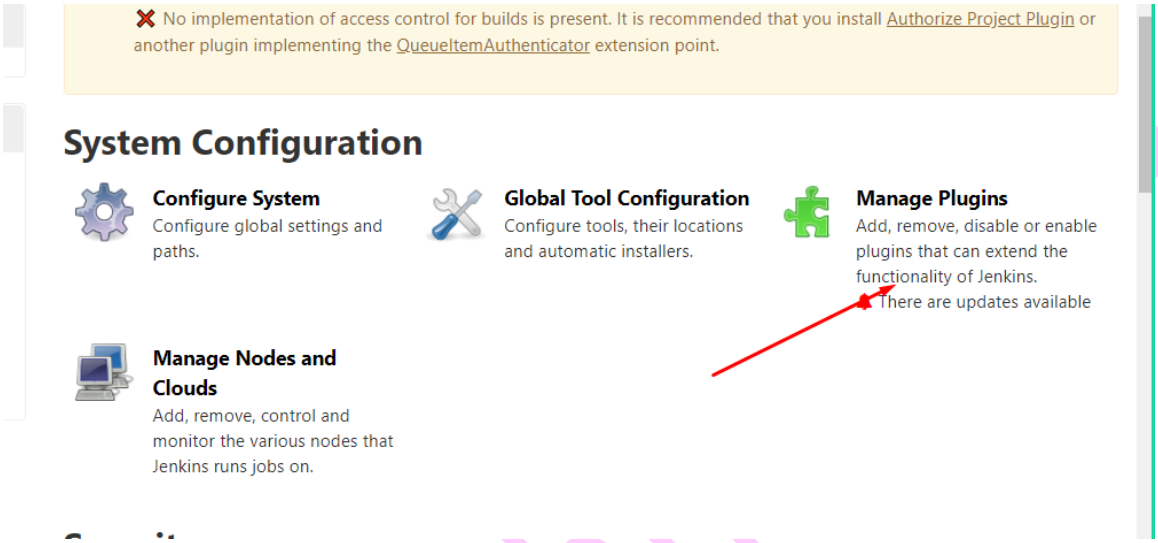

Submit
Upload Plugin
You can upload an .hpi file to install a plugin from outside the central plugin repository.
File:
Choose File
No file chosen
Upload
Update Site
URL
https://updates.jenkins.io/update-center.json
Submit

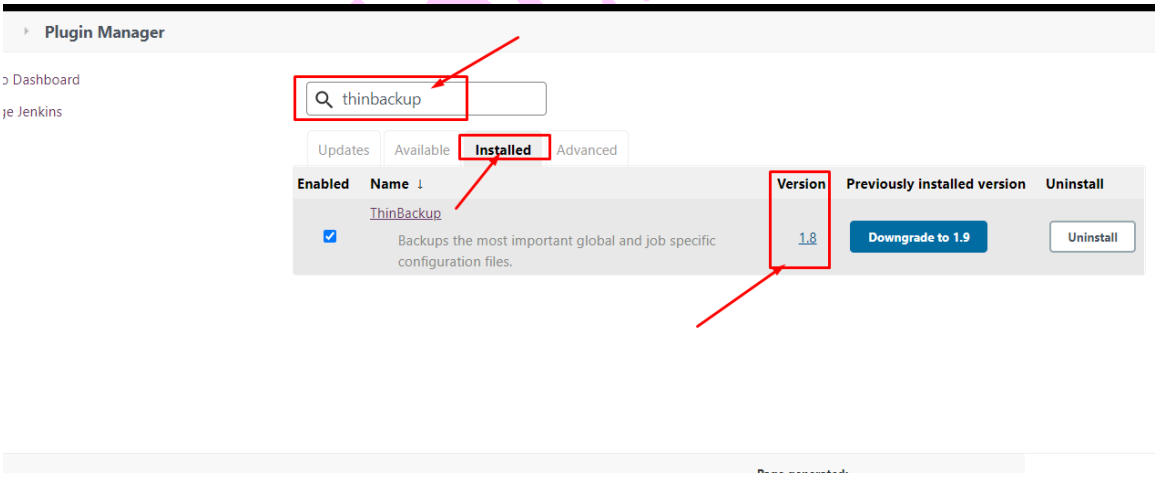




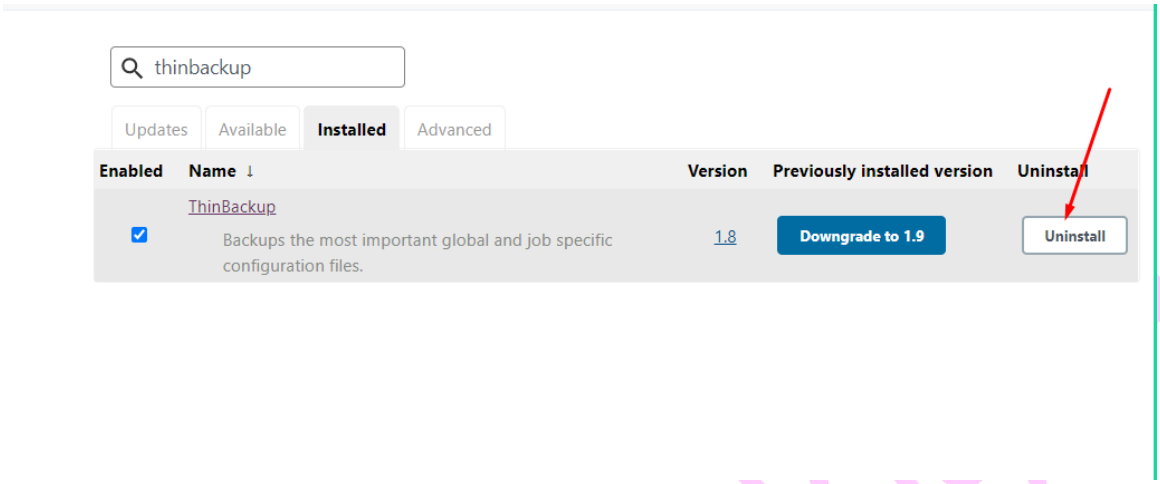
Your browser will reload automatically when Jenkins is ready.

Verification:

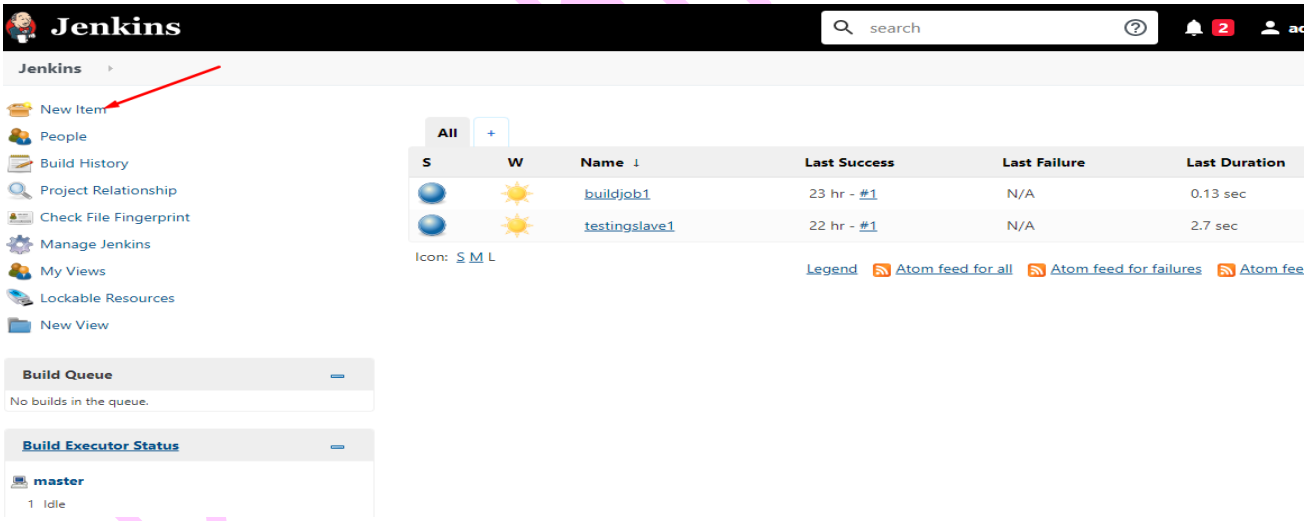


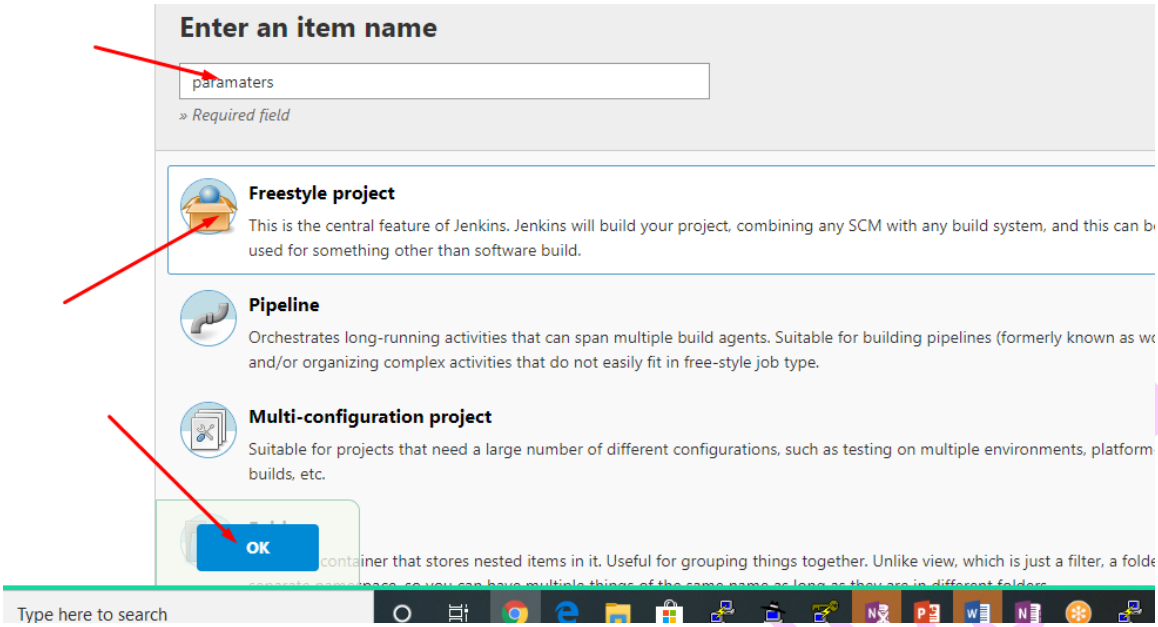


Uninstall:

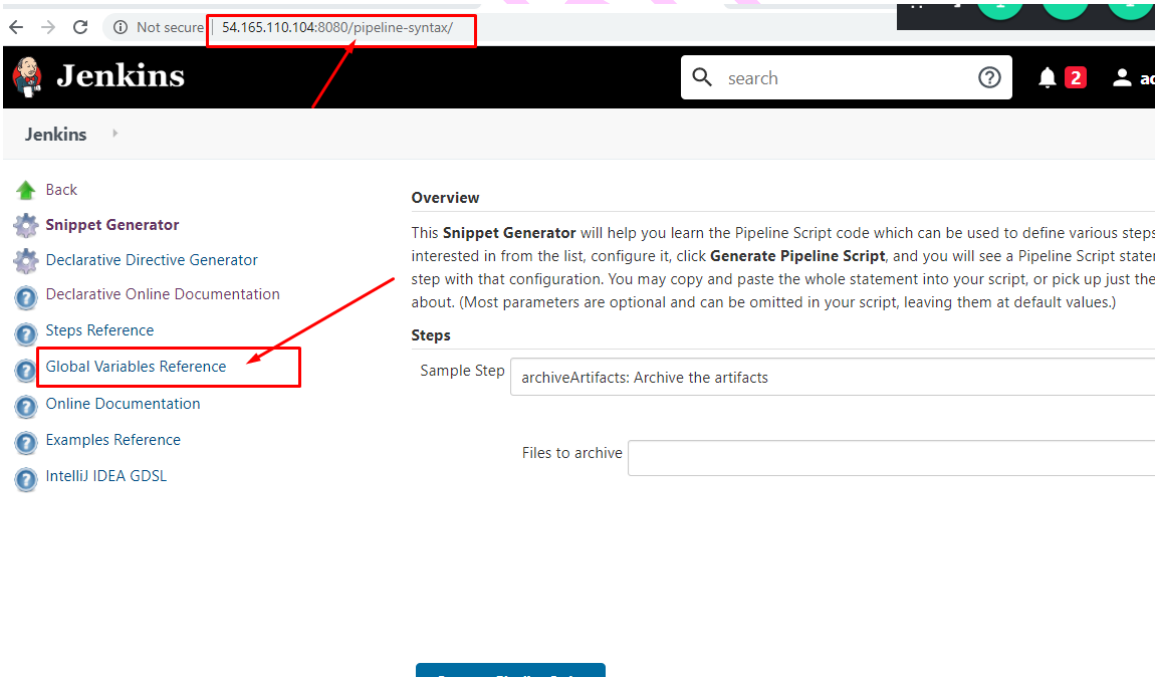


Working with Parameters

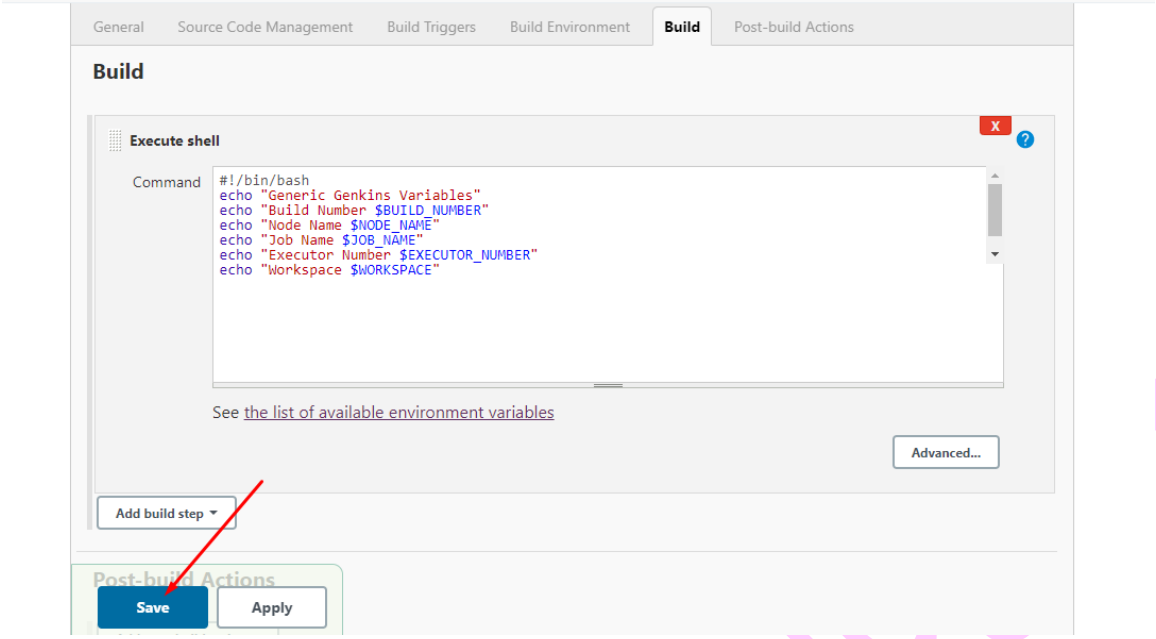


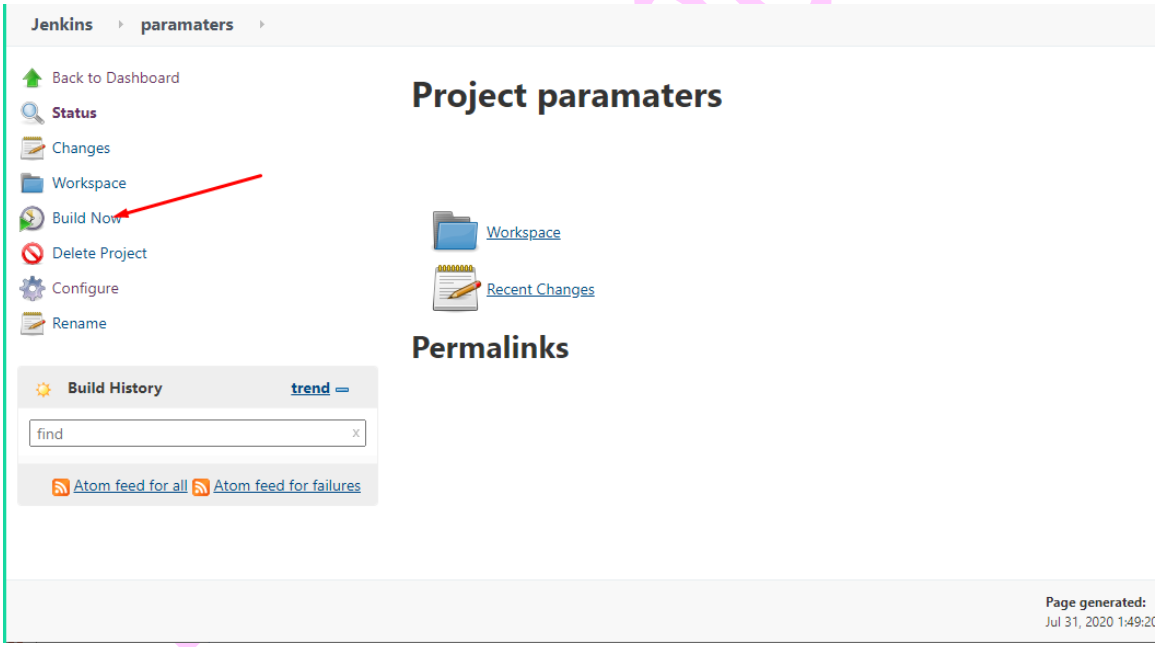


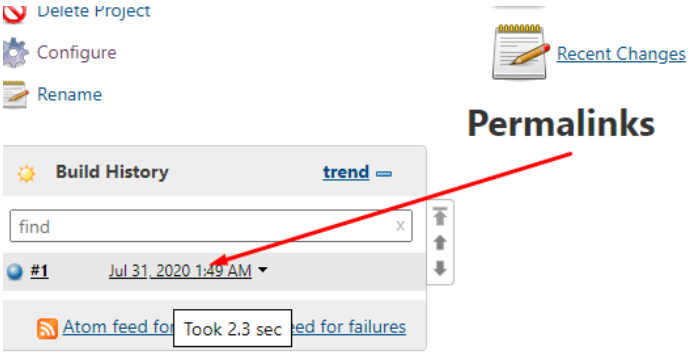
GLOBAL VARIBALE REFERENCE:

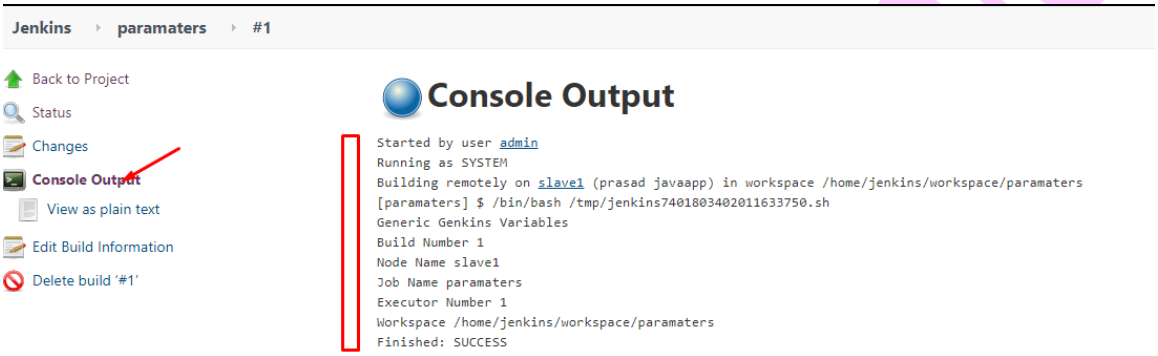


PRINTING DEFAULT VARIABLES/PARAMETERS:

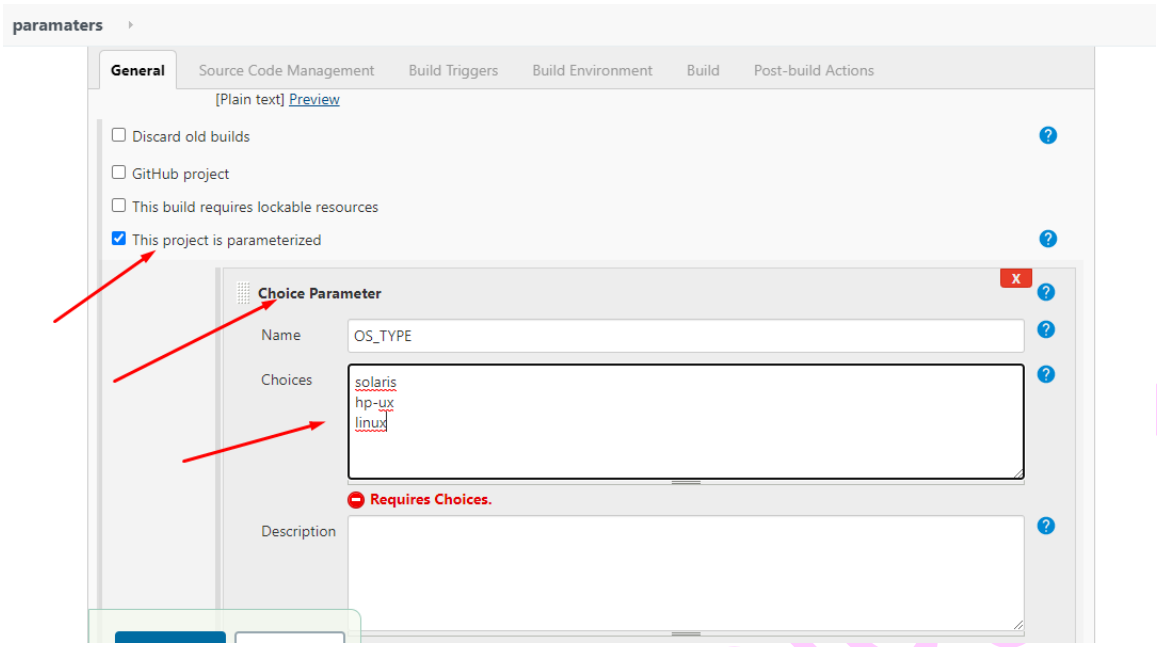

General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Build
Execute shell
Command
#!/bin/bash
echo "Generic Genkins Variables"
echo "Build Number $BUILD_NUMBER"
echo "Node Name $NODE_NAME"
echo "Job Name $JOB_NAME"
echo "Executor Number $EXECUTOR_NUMBER"
echo "Workspace $WORKSPACE"
See the list of available environment variables
Advanced...
Add build step
Save
Apply

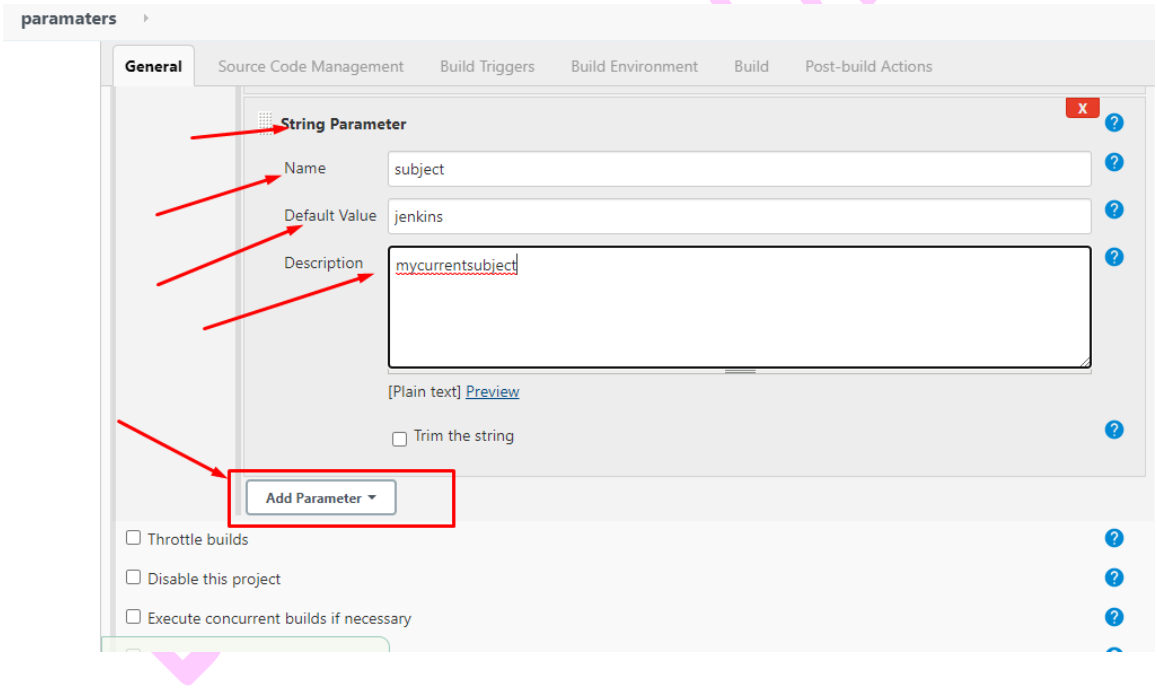

Jenkins
paramaters
Back to Dashboard
Status
Changes
Workspace
Build Now
Delete Project
Configure
Rename
Build History
trend
find
Atom feed for all
Atom feed for failures
Project paramaters
Workspace
Recent Changes
Permalinks
Page generated:

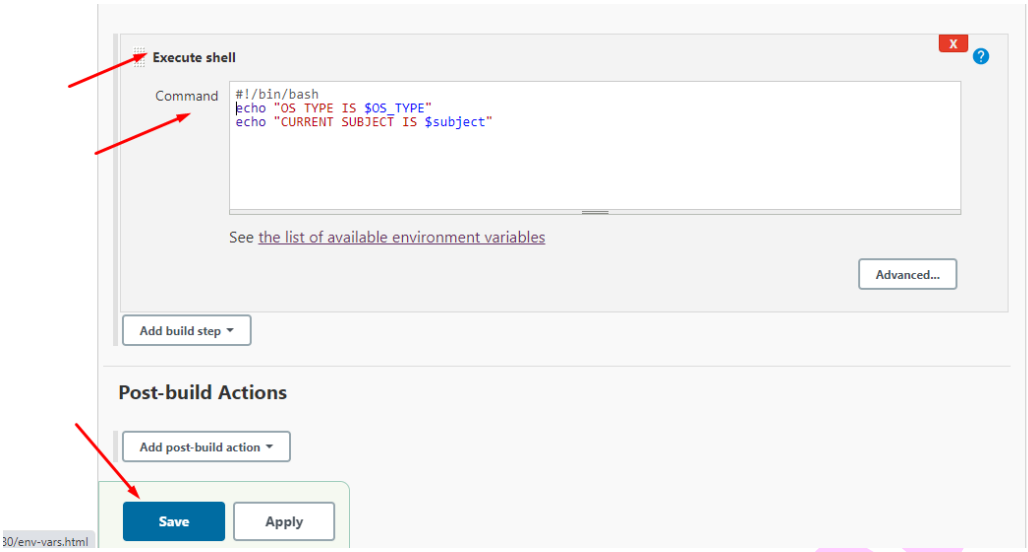


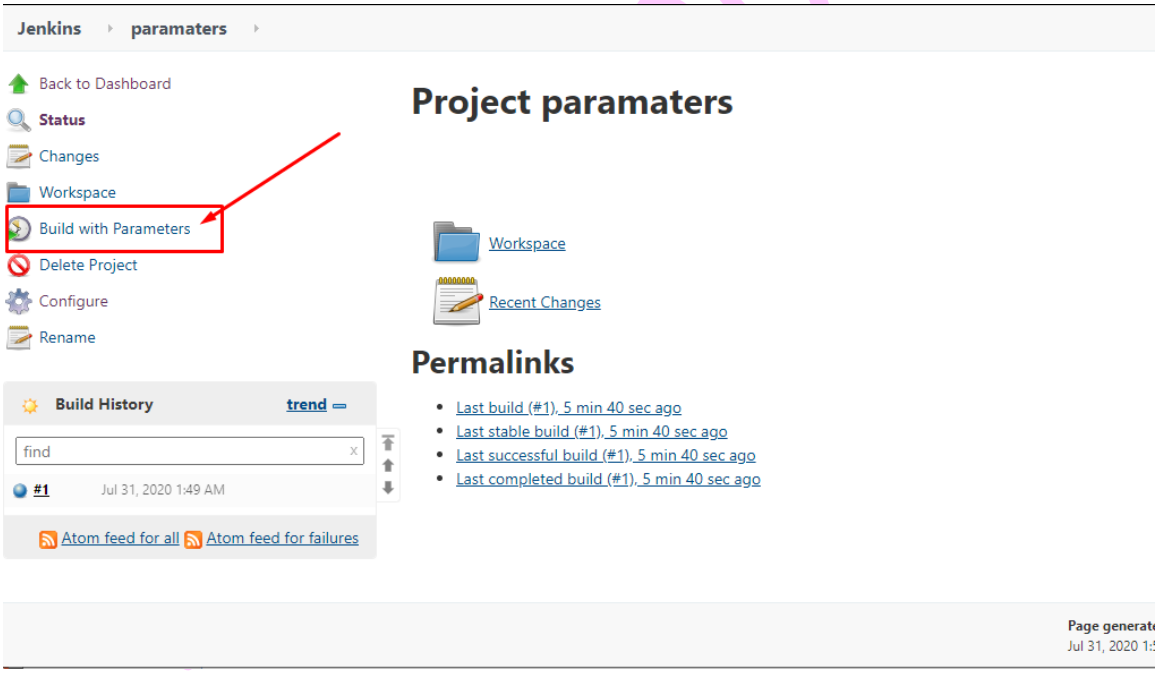


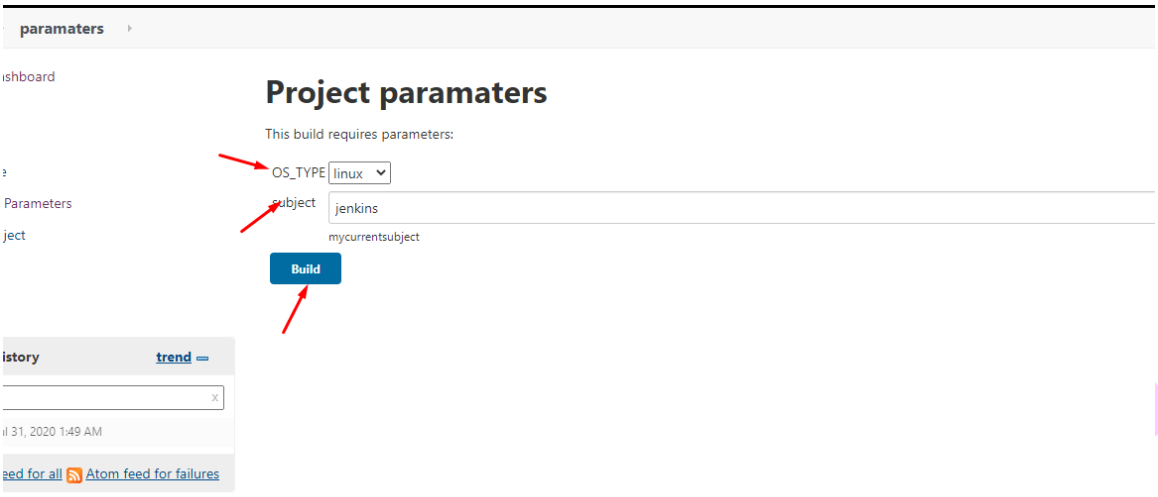
USER DEFINED PARAMETERS:

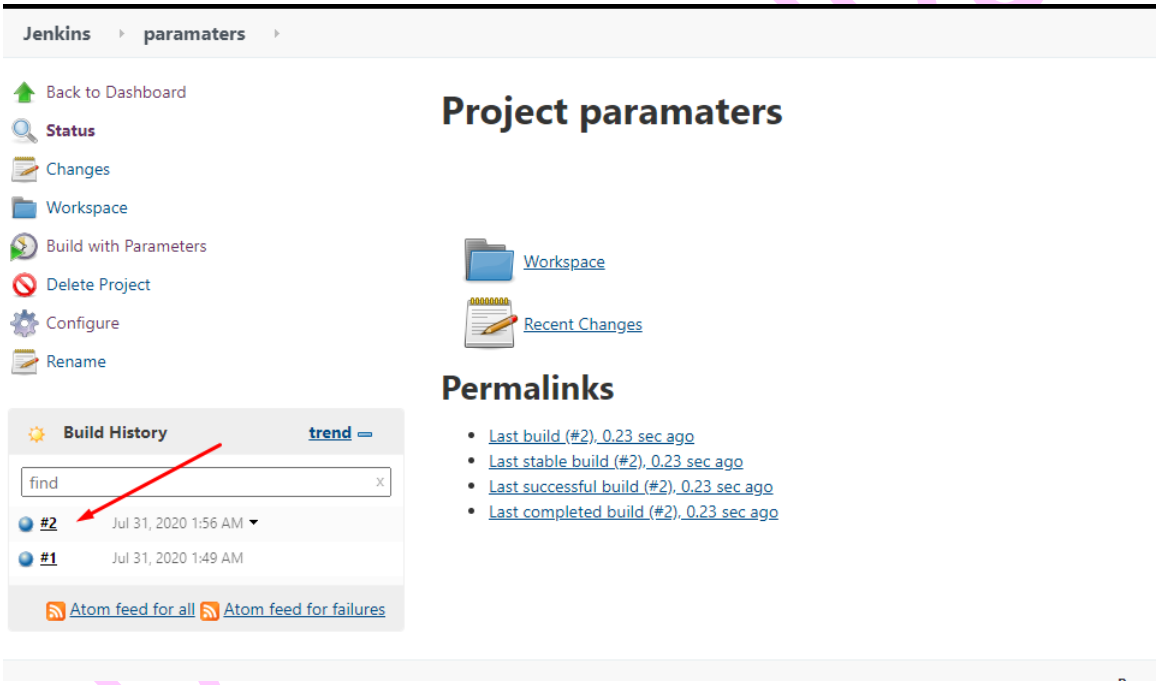

paramaters
General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
[Plain text] Preview
Discard old builds
GitHub project
This build requires lockable resources
This project is parameterized
Choice Parameter
Name
OS_TYPE
Choices
solaris
hp-ux
linux
Requires Choices.
Description

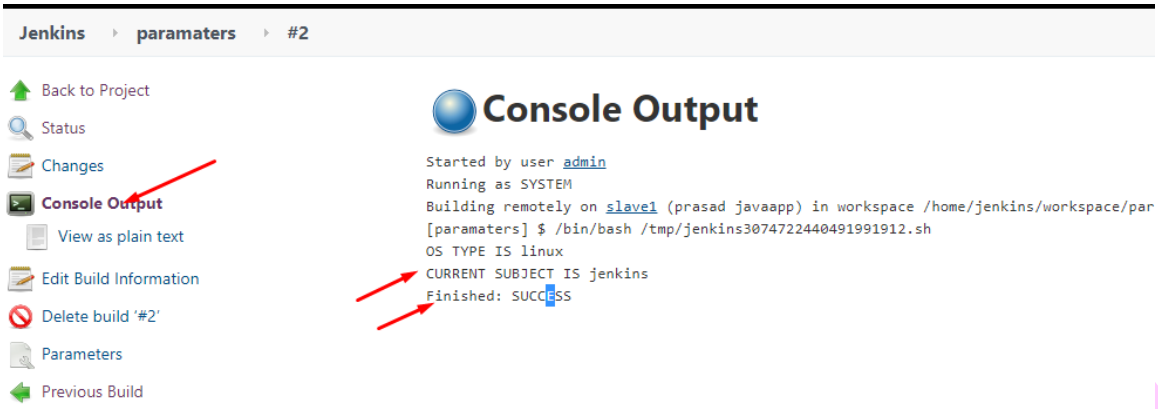

paramaters
General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
String Parameter
Name
subject
Default Value
jenkins
Description
mycurrentsubject
[Plain text] Preview
Trim the string
Add Parameter
Throttle builds
Disable this project
Execute concurrent builds if necessary


Execute shell
Command
#!/bin/bash
echo "OS TYPE IS $OS_TYPE"
echo "CURRENT SUBJECT IS $subject"
See the list of available environment variables
Advanced...
Add build step
Post-build Actions
Add post-build action
Save
Apply


Jenkins
paramaters
Back to Dashboard
Status
Changes
Workspace
Build with Parameters
Delete Project
Configure
Rename
Project paramaters
Workspace
Recent Changes
Permalinks
Last build (#1), 5 min 40 sec ago
Last stable build (#1), 5 min 40 sec ago
Last successful build (#1), 5 min 40 sec ago
Last completed build (#1), 5 min 40 sec ago
Build History
trend
find
#1
Jul 31, 2020 1:49 AM
Atom feed for all
Atom feed for failures

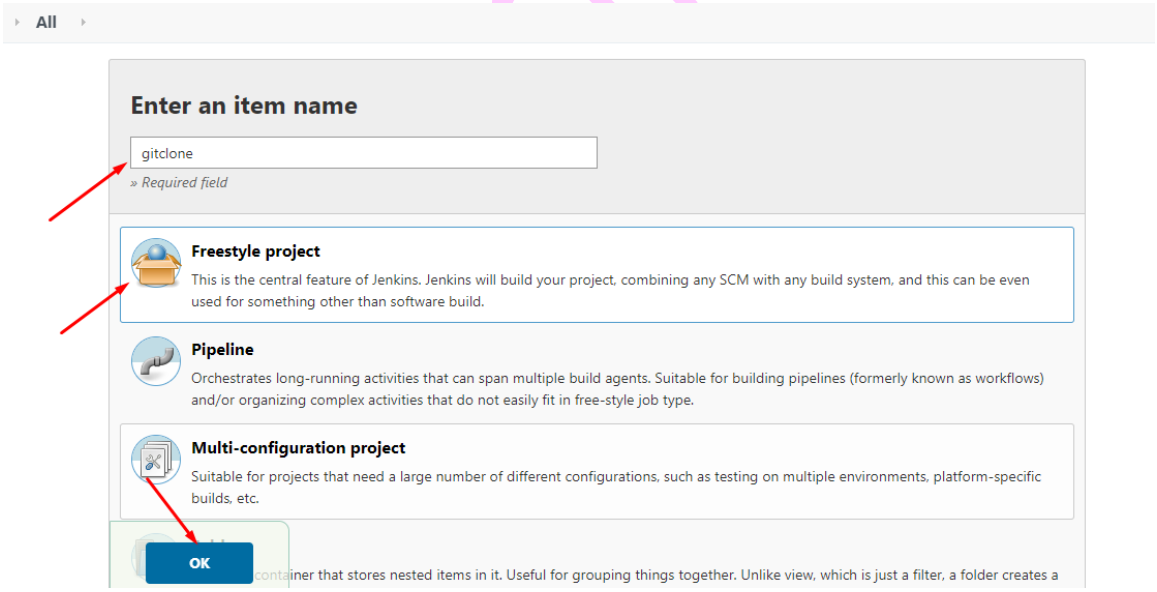

paramaters
Project paramaters
This build requires parameters:
OS_TYPE
linux
jenkins
mycurrentsubject
Build
Parameters
trend
Atom feed for failures

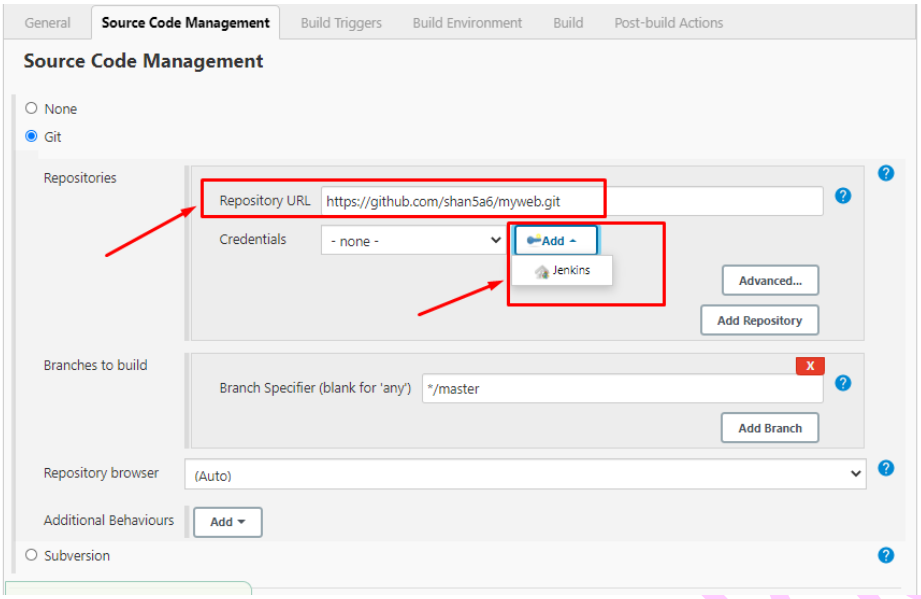

Jenkins
paramaters
Back to Dashboard
Status
Changes
Workspace
Build with Parameters
Delete Project
Configure
Rename
Project paramaters
Workspace
Recent Changes
Permalinks
Last build (#2), 0.23 sec ago
Last stable build (#2), 0.23 sec ago
Last successful build (#2), 0.23 sec ago
Last completed build (#2), 0.23 sec ago
Build History
trend
find
#2
Jul 31, 2020 1:56 AM
#1
Jul 31, 2020 1:49 AM
Atom feed for all
Atom feed for failures

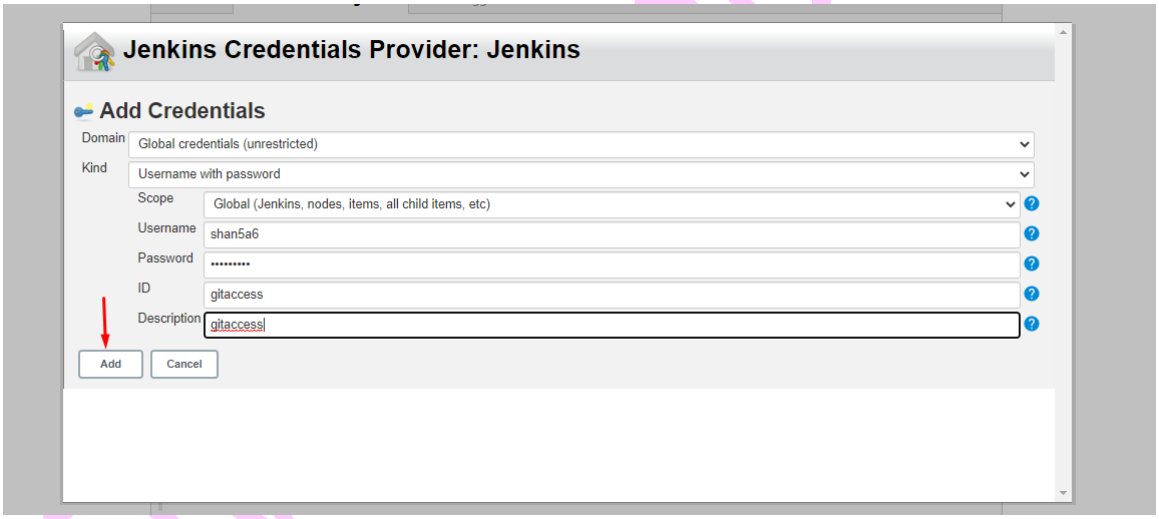


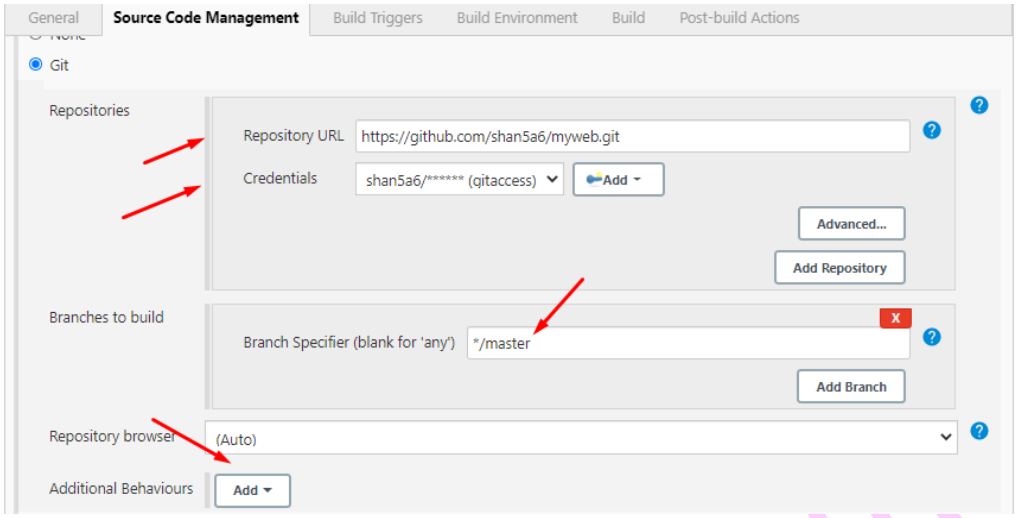
Working with Git integration

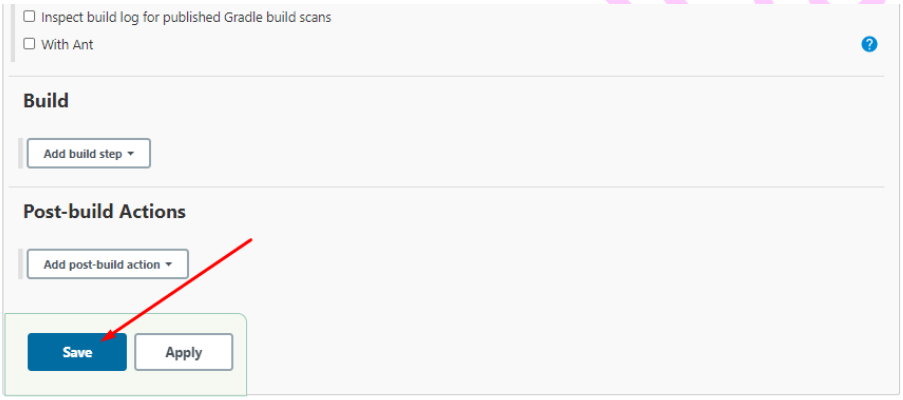
GIT CLONE:

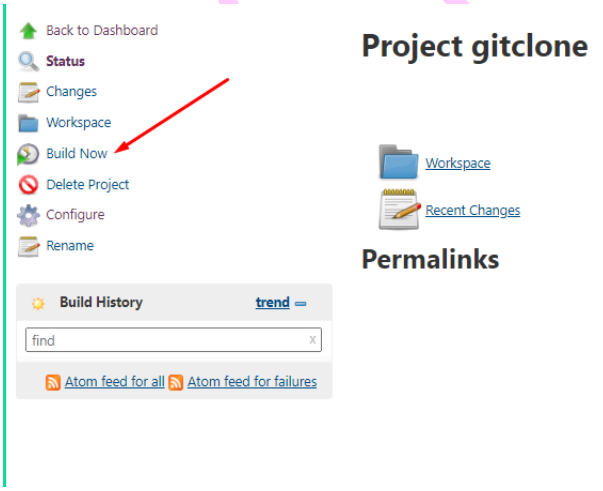


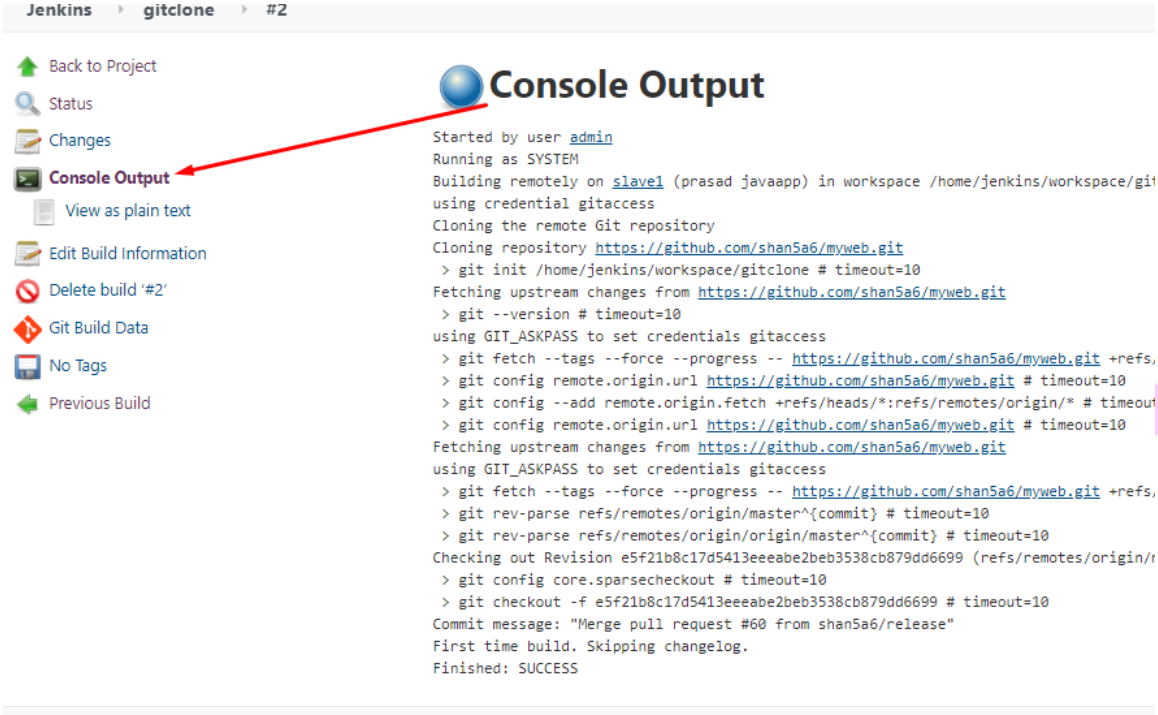

General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Source Code Management
None
Git
Repositories
Repository URL
https://github.com/shan5a6/myweb.git
Credentials
- none -
Add
Jenkins
Advanced...
Add Repository
Branches to build
Branch Specifier (blank for 'any')
*/master
Add Branch
Repository browser
(Auto)
Additional Behaviours
Add
Subversion


Jenkins Credentials Provider: Jenkins
Add Credentials
Domain
Global credentials (unrestricted)
Kind
Username with password
Scope
Global (Jenkins, nodes, items, all child items, etc)
Username
shan5a6
Password
ID
gitaccess
Description
gitaccess
Add
Cancel

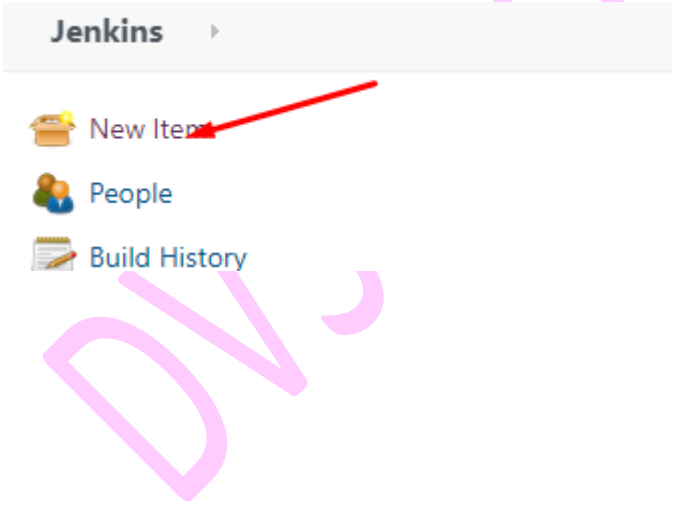

General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Git
Repositories
Repository URL
https://github.com/shan5a6/myweb.git
Credentials
shan5a6/****** (qitaccess)
Add
Advanced...
Add Repository
Branches to build
Branch Specifier (blank for 'any')
*/master
Add Branch
Repository browser
(Auto)
Additional Behaviours
Add

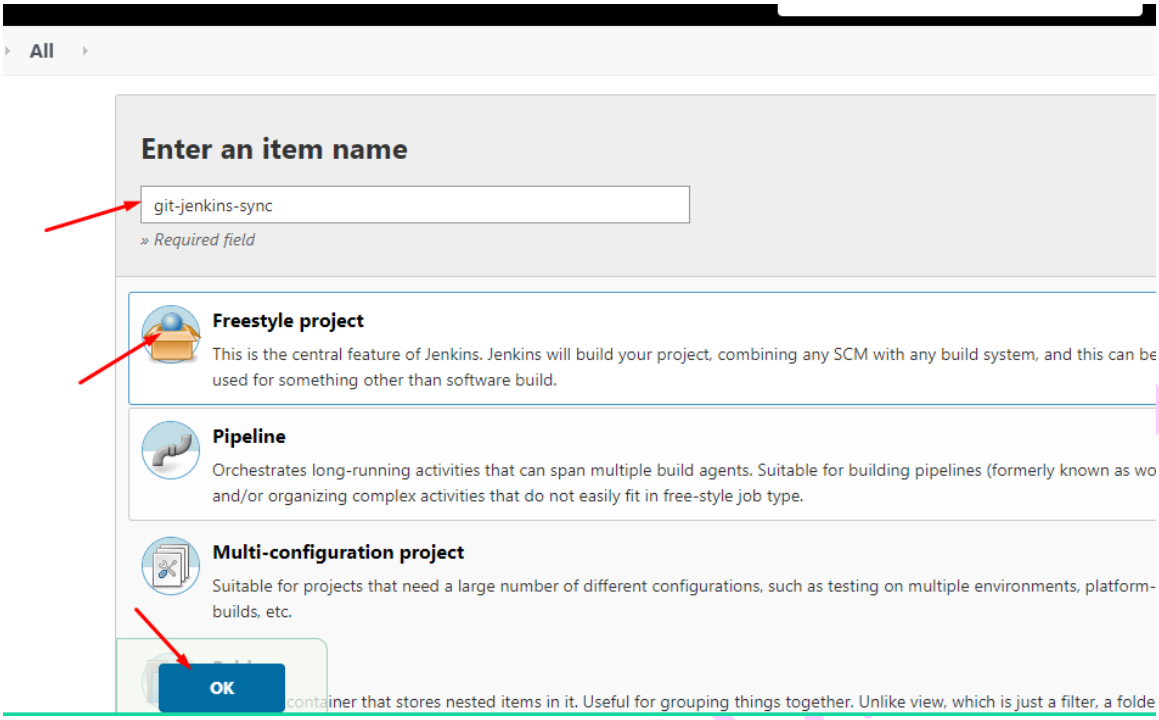

Inspect build log for published Gradle build scans
With Ant
Build
Add build step
Post-build Actions
Add post-build action
Save
Apply

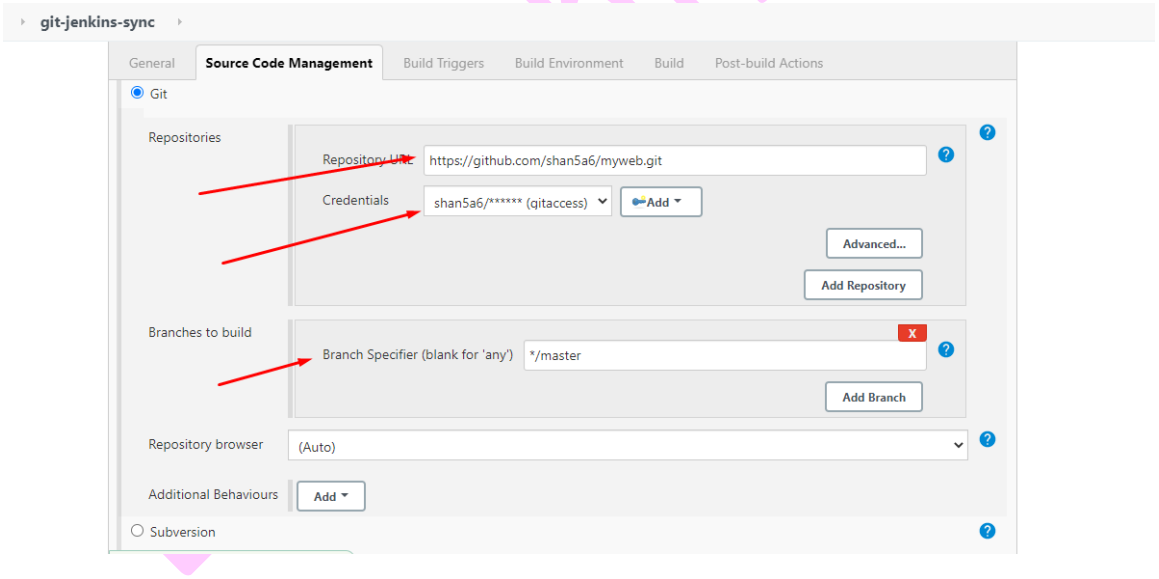

Back to Dashboard
Status
Changes
Workspace
Build Now
Delete Project
Configure
Rename
Build History
trend
find
Atom feed for all
Atom feed for failures
Project gitclone
Workspace
Recent Changes
Permalinks

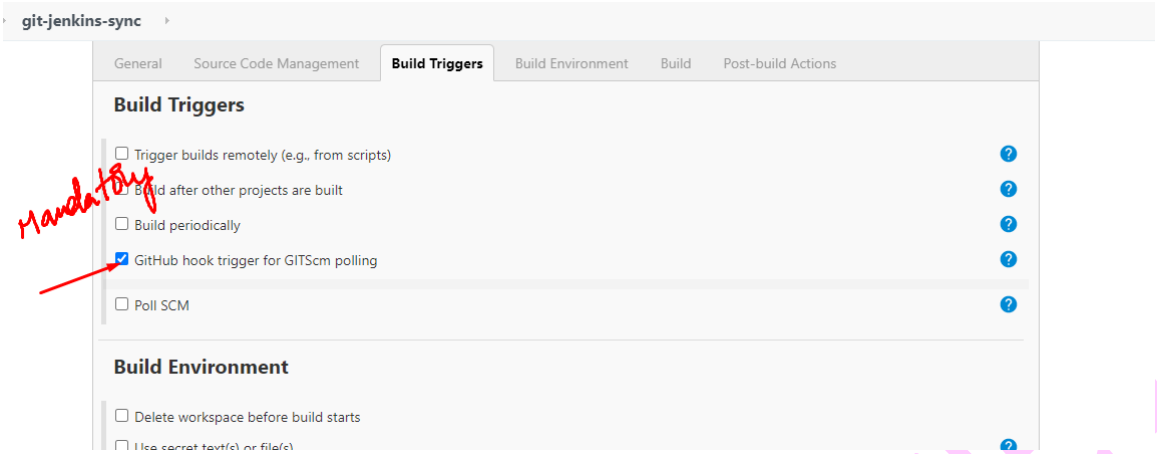


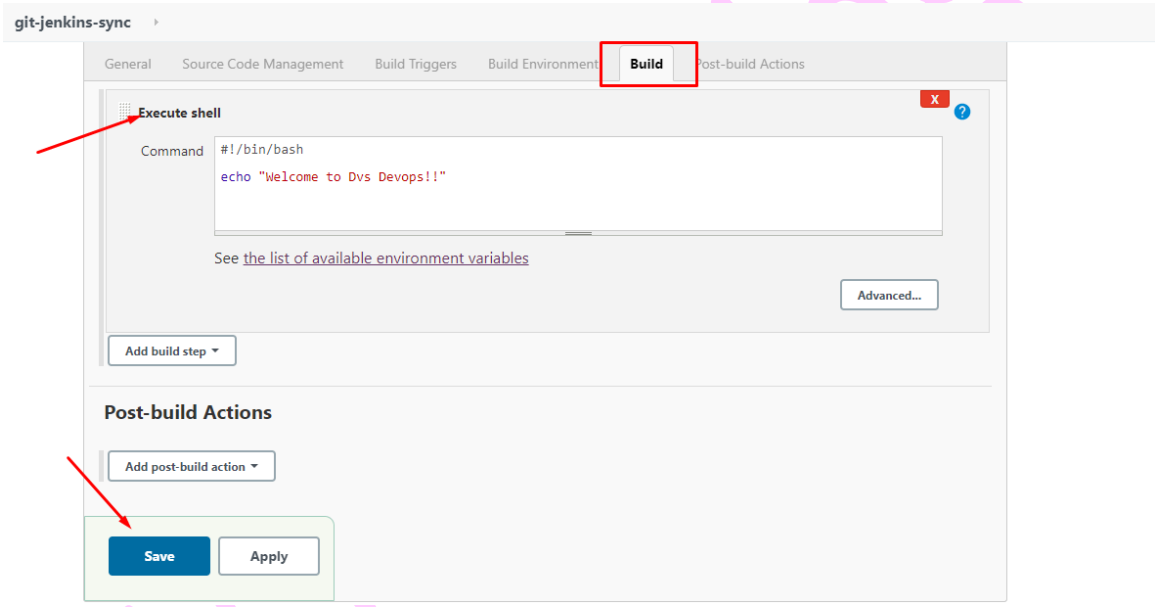
GITHUB with JENKINS Integration:



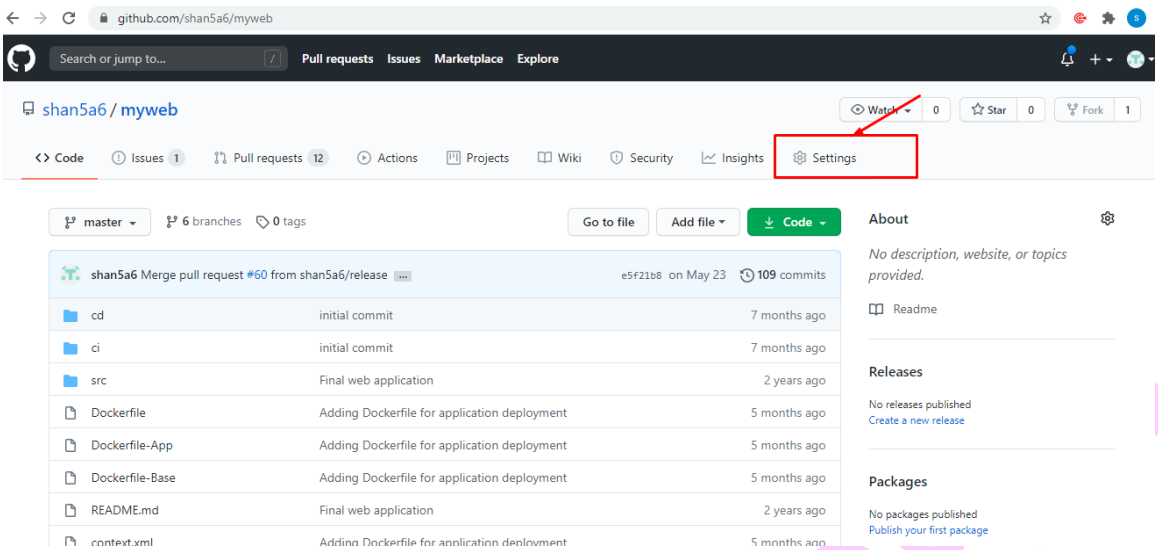

All
Enter an item name
git-jenkins-sync
» Required field
Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be used for something other than software build.
Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as wo 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-builds, etc.
OK
iner that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folde

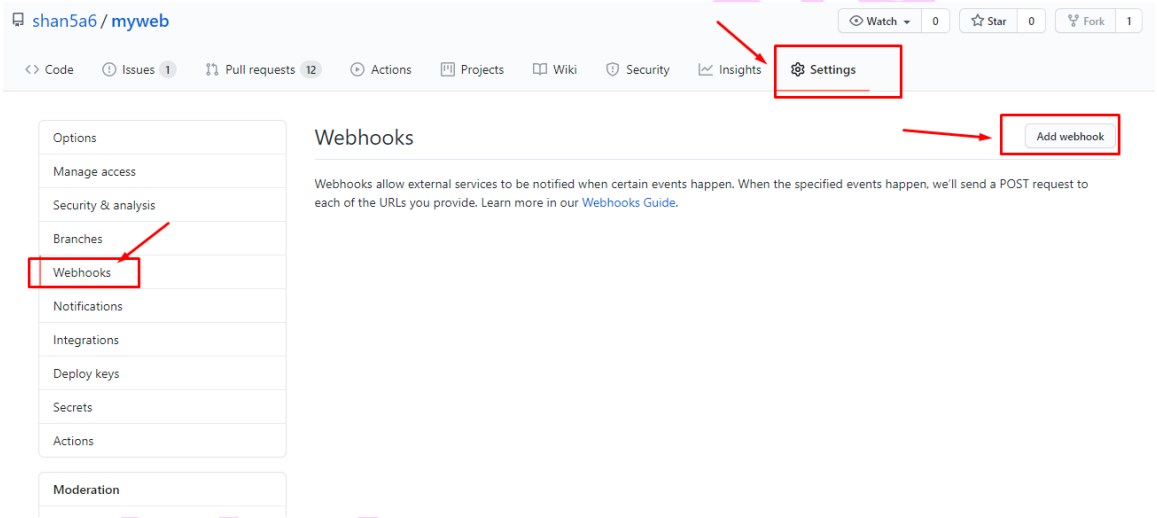

git-jenkins-sync
General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Git
Repositories
Repository URL
https://github.com/shan5a6/myweb.git
Credentials
shan5a6/****** (qitaccess)
Add
Advanced...
Add Repository
Branches to build
Branch Specifier (blank for 'any')
*/master
Add Branch
Repository browser
(Auto)
Additional Behaviours
Add
Subversion

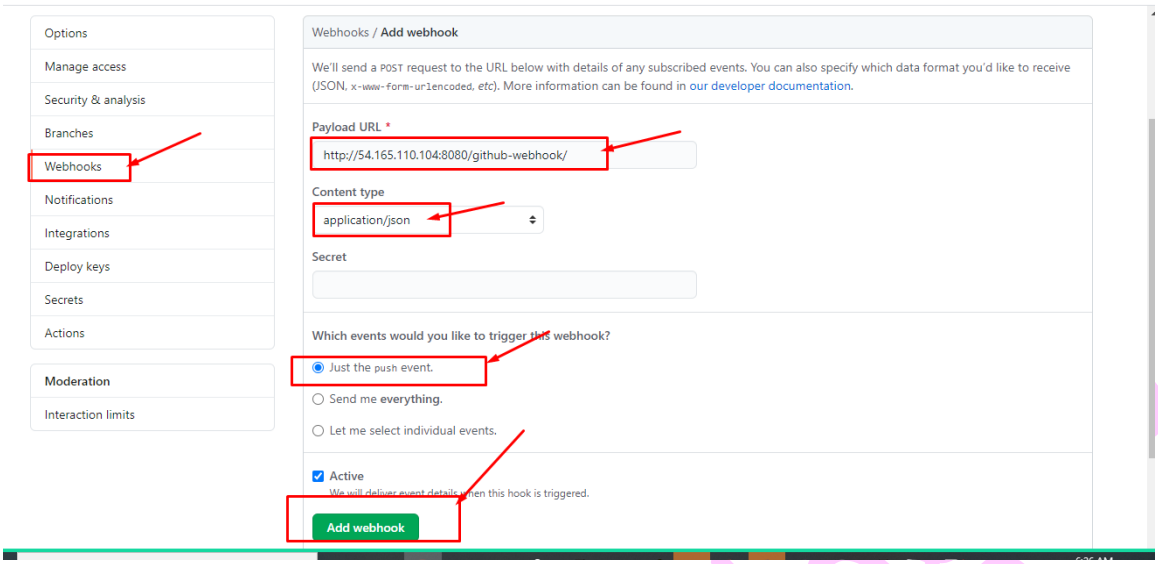


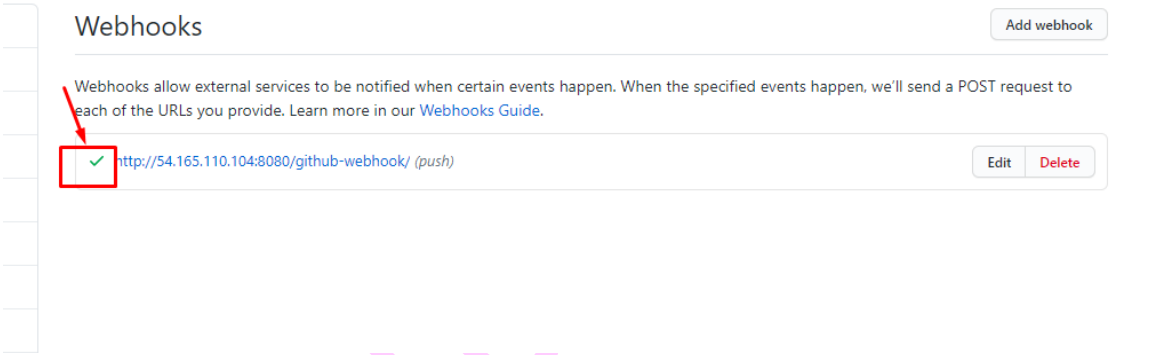


In Git repo do the below:


github.com/shan5a6/myweb
Search or jump to...
Pull requests
Issues
Marketplace
Explore
shan5a6 / myweb
Watch 0
Star 0
Fork 1
Code
Issues 1
Pull requests 12
Actions
Projects
Wiki
Security
Insights
Settings
master
6 branches
0 tags
Go to file
Add file
Code
shan5a6 Merge pull request #60 from shan5a6/release
e5f21b8 on May 23
109 commits
cd initial commit 7 months ago
ci initial commit 7 months ago
src Final web application 2 years ago
Dockerfile Adding Dockerfile for application deployment 5 months ago
Dockerfile-App Adding Dockerfile for application deployment 5 months ago
Dockerfile-Base Adding Dockerfile for application deployment 5 months ago
README.md Final web application 2 years ago
About
No description, website, or topics provided.
Readme
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package


shan5a6 / myweb
Watch 0
Star 0
Fork 1
Code
Issues 1
Pull requests 12
Actions
Projects
Wiki
Security
Insights
Settings
Options
Manage access
Security & analysis
Branches
Webhooks
Notifications
Integrations
Deploy keys
Secrets
Actions
Moderation
Webhooks
Add webhook
Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our Webhooks Guide.


Options
Manage access
Security & analysis
Branches
Webhooks
Notifications
Integrations
Deploy keys
Secrets
Actions
Moderation
Interaction limits
Webhooks / Add webhook
We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, etc). More information can be found in our developer documentation.
Payload URL *
http://54.165.110.104:8080/github-webhook/
Content type
application/json
Secret
Which events would you like to trigger this webhook?
Just the push event.
Send me everything.
Let me select individual events.
Active
Add webhook


Webhooks
Add webhook
Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our Webhooks Guide.
http://54.165.110.104:8080/github-webhook/ (push)
Edit
Delete

Final Testing:

Perform the below to test the connectivity