Install Jenkins:

Add repository:

sudo wget -O /etc/yum.repos.d/jenkins.repo \

https://pkg.jenkins.io/redhat-stable/jenkins.repo

sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key

Add required dependencies for the jenkins package

sudo yum install java-11-openjdk

sudo yum install jenkins

sudo systemctl daemon-reload

Start Jenkins:

sudo systemctl enable Jenkins

sudo systemctl start Jenkins

Allow Firewall:

firewall-cmd --permanent --add-port=8080/tcp

firewall-cmd --reload

Unlocking Jenkins

Unlocking Jenkins

When you first access a new Jenkins instance, you are asked to unlock it using an automatically-generated password.

1. Browse to http://serverip:8080 (or whichever port you configured for Jenkins when installing it) and wait until the **Unlock Jenkins** page appears.

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:

/var/jenkins_home/secrets/initialAdminPassword

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

Administrator password

Continue

2. From the Jenkins console log output, copy the automatically-generated alphanumeric password (between the 2 sets of asterisks).

```
INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@24cf7404: defining beans [filter,legacy]; root of factory hierarchy
sep 30, 2017 7:18:39 AM jenkins.install.SetupWizard init
INFO:

Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:

27064d3663814887964b682940572567

This may also be found at: /var/jenkins_home/secrets/initialAdminFassword

--> setting agent port for jnlp
--> setting agent port for jnlp... done
sep 30, 2017 7:18:51 AM hudson.model.UpdateSite updateData
INFO: Obtained the latest update center data file for UpdateSource default
sep 30, 2017 7:18:52 AM hudson.wodal.UpdateSite updateData
INFO: Obtained the latest update center data file for UpdateSource default
sep 30, 2017 7:18:52 AM hudson.wodal.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tasks.Haven.Havenlinatsler
sep 30, 2017 7:18:52 AM hudson.wodal.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tasks.Haven.Havenlinatsler
sep 30, 2017 7:18:53 AM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tasks.Haven.Havenlinatsler
sep 30, 2017 7:18:59 AM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tasks.Haven.Havenlinatsler
sep 30, 2017 7:18:59 AM hudson.model.DownloadService$Downloadable load
INFO: Finished Download metadata. 25,543 ms
```

Note:

- The command: sudo cat /var/lib/jenkins/secrets/initialAdminPassword will print the password at console.
- On the Unlock Jenkins page, paste this password into the Administrator password field and click Continue.
 Notes:

Configure Ansible:

Set hostname For master

#hostnamectl set-hostname master

#visudo

root ALL=(ALL) NOPASSWD: ALL # Add this line end of the file

Save and exit

Add Host Record:

cat /etc/hosts

127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4

::1 localhost localhost.localdomain localhost6 localhost6.localdomain6

192.168.44.135 node1

192.168.44.136 node2

Install Ansible:

#yum install epel-release -y
#yum install ansible -y

vi /etc/ansible/ansible.cfg

host_key_checking = False #uncomment this line

Add Host to the Inventory File:

cat /etc/ansible/hosts

[test]

Node1 ansible_ssh_user=root ansible_ssh_pass=nopassG

Add SSH key:

#ssh-keygen

#ssh-copy-id root@node1

Check Ansible Reachability:

#ansible --version

#ansible all --list-hosts #Check host list

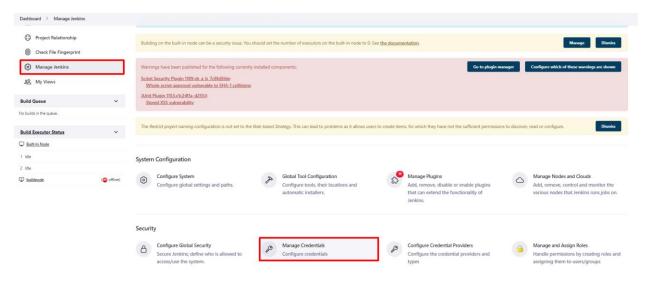
#ansible all -m ping #Check client node reachability

#ansible node1 -m command -a "uptime"

Add Credentials in Jenkins Server:

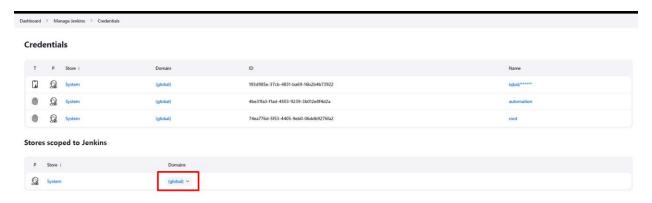
Login to the Jenkins server:

Step1: Click: Manage Jenkins>Manage Credentials



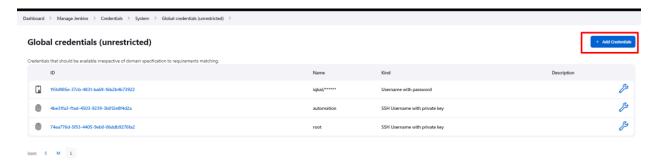
Step 2:

Click global under Stores scoped to Jenkins



Step 3:

Click Add Credentials:



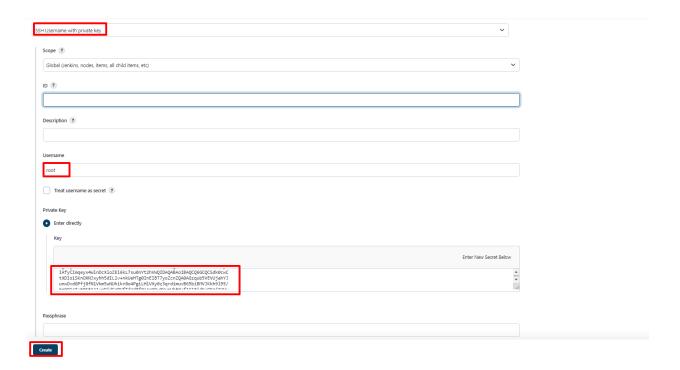
Step 4:

cat .ssh/id_rsa

----BEGIN RSA PRIVATE KEY-----

MIIEowIBAAKCAQEA4kgevsYUWTv4u3ERWq9/KTNIdYkNwkKBGw/2zrvoMF98venK tyopRSTSpGnQ2ulL2FfwuBBP3MNfEDXPg7kfc8DrlLVWOC9JQefSBti4CqO1qdQG EF0Jssmdcs4ZqR+erq6n3U1TBdbzBkgxgC/0gzgdgUmZ3sQ5XqENwHyeoIM/sx5b 7gOS0XfoYmFuYxgbEbF5/0cMyVQBryK93+UaurEpVFTFsl68i/bcQSBfm+sTz7GU ogaJjXTnlmuMEv+zzY/vIo5mBxtiB8Rxe9aI+hYk3UDgbAZ3erN+aIM3ZIZ6RJyw IAfyCImgeyx4WInDcXloZEi6kL7su0nYt2hVWQIDAQABAoIBAQCQ6GCQCSdk0cwC tXDIo1SKnOXNJxyhh5dILlv+nkUeHTg0InEIBT7yoZcnZQA0AGzqub5VEVUjahYJ unwOvdGPfj8fN1Vkm5uNUhik+8o4PgiLHIVXy0z3qrdimuvB65biBMVJKkh9l95/ 6mGQ1qT+F0SF1A1upDidCgRVfTjVd8f0sArM9w0YvmUbE0+f1K18idKyO9qj1VVu oHIWXtXXnWFpXLABuQD1by/zOefmcqymBSGKAZAoOJB4rTvjVXtfvA+syxI7JaL/ SFRDITLe56nk2Rfopr9QRvdP8Fh6OtR7rE/igLlqvYDv+NbOVLS8CxmKg7RcxQLb JRUQY84BAoGBAPpnCm/JLMseQgx3r6GX5CXxirNqaV/y7ez6FKOS7W2CINIIbnna LMNY2CUnqRWp0yU/nOwBULEuFpODmTpScLEchSV2sJcfw1I7/yi1CFsClYg/fTtt EJ1K8EfFAOMzT6vS7g/7jg/VzaaogqWzBby87q91kKTxlMQg9oiDMadBAoGBAOdX C5AUmjWTbxA2jGFBJUxD4cF2popVSrQhW0bg5be78d0Nm8LkARYBjwcECEj2llTT qstXLvXtVeTz/TpCNNPf7y2H9XTuYkcjsLf+YkOAegU605c5apCfoU0nRxwswNhl UbeN7kkRRZDoMNLcJ6shoXJLM6wLZvzMta0qzwAZAoGAKxoriLx3Umtd8Sl0+Prd Uc63EIUh2FtHq0AM5282IWCB58V9xsnQZLvZUOP3zfvSlZnSmClNy4HkbvX7HTft

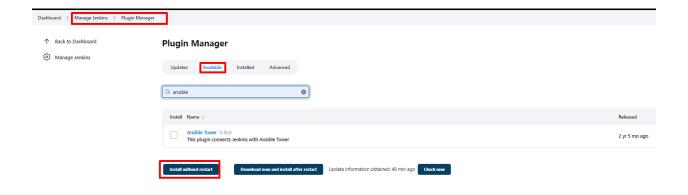
n/8JyD4a/ZiBFZmwPUCUNJ40SXCsTNtkPb8VhzUZBwLhFvGS+vtRl9aotKRTANTF
Cwz2hQtWn53Z/ryx0yPKG0ECgYAoYsDJAV++dKOR8APnwoixXLRfosgGJEerVJtr
rz1LKwtZLNQBXO53mgQPFHwhyJ5LsrwBTZIMKsew9YtCjWZNiq1lhHOsWyVbB/cE
1+rtn9MtclyZvNNGtidhoba/S2zLGjz+z09HADXlyzMizH48WN2nZ0t5AHCVN2OL
/lowmQKBgBZw/PTD4EFgQgqUUf2WsOnGlUpFEZ3KMMcX1UQAbsJTdwm3rlvgTdO/
ilxMrTmshbB2++zt4xluddQwvd9z2/PvnPWDzGlwlbZa6epoylFe/tpQvF6s23nK
Tn0bDQfE5SRLu0sAiNAWhazdf9rKVjMd+jaTxW1f4dEgmjZVpRl7
-----END RSA PRIVATE KEY-----



Install Ansible Plugin:

Click> Manage Jenkins>Plugin Manger> Available

Search Ansible



Add Webhook in GitHub:

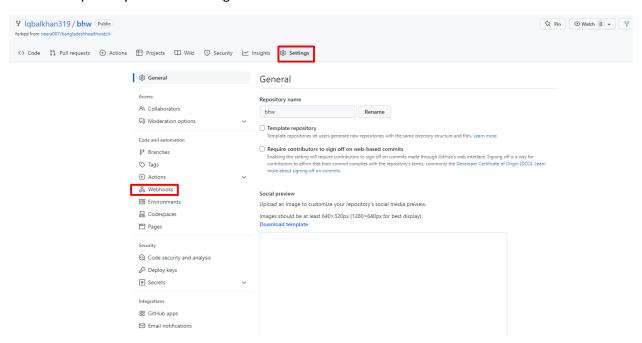
Login GitHub

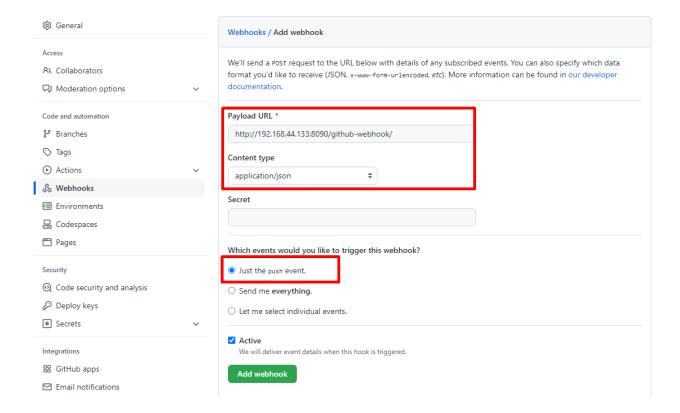
Step 1:

https://github.com/

Step 2:

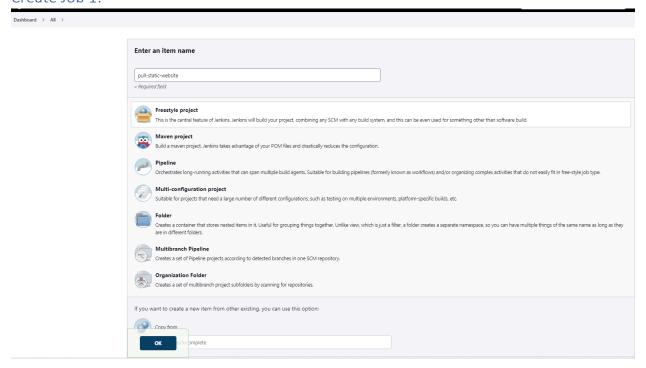
Go to the repository and click Setting:

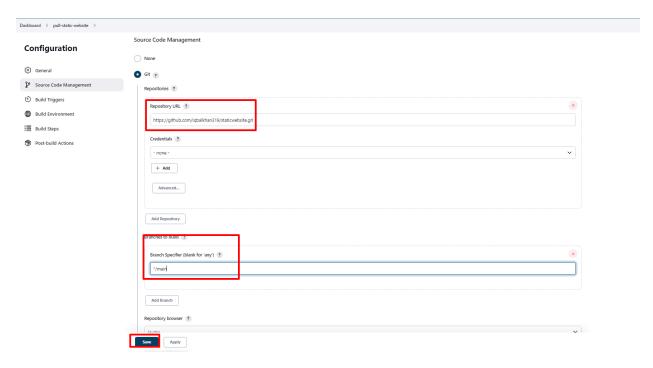




Create Chain Job:

Create Job 1:





Step 2: Ready Server

Create a playbook for ready sever:

Log in to the Jenkins server:

cat /playbook/readyserver.yaml

- name: This is my first playbook

hosts: test

tasks:

- name: Install apache

yum:

name: httpd

state: latest

- name: Start apache service

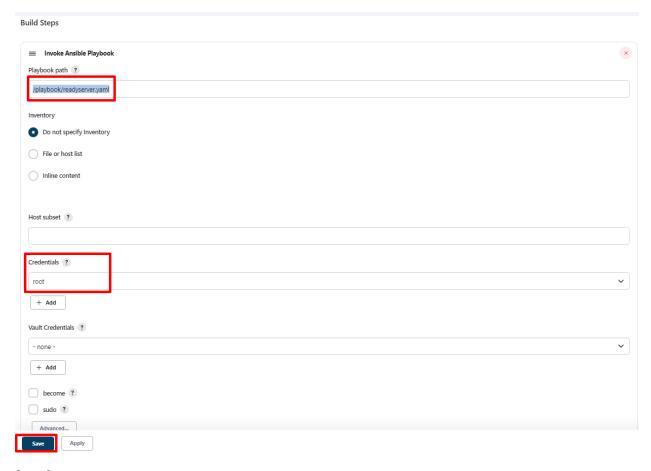
service:

name: httpd

state: started

enabled: yes

- name: Enable http traffic in the the firewall						
firewalld:						
S	service: http					
р	permanent: yes					
s	state: enabled					
Crea	te Job:					
Creat	te new freestyle job:					
Build Triggers						
_ т	Trigger builds remotely (e.g., from scripts) ?					
Build after other projects are built ?						
P	Projects to watch					
	pull-static-website					
	Trigger only if build is stable					
	Trigger even if the build is unstable					
	Trigger even if the build fails					
	Always trigger, even if the build is aborted					
B	Build periodically ?					
	SitHub hook trigger for GITScm polling ?					
Poll SCM ?						



Step 3:

Create deploy job

Create a deploy playbook.

cat /playbook/deploycode.yaml

- name: Deploy Source Code

hosts: test

tasks:

- name: Copy Source Code

copy:

src: /var/lib/jenkins/workspace/pull-static-website/

dest: /var/www/html/

...

Dashboard > deploycode >						
			Bui	ld Triggers		
	Configuration			Trigger builds remotely (e.g., from scripts) ?		
	63	Consul	$\langle \cdot \rangle$	Build after other projects are built ?		
	φ,	General		Projects to watch		
	go.	Source Code Management		readyserver		
	0	Build Triggers				
	(Build Environment		Trigger only if build is stable		
	000	Build Steps		Trigger even if the build is unstable		
	Ů	Build Steps	Trigger even if the build fails			
	(Post-build Actions				
				Always trigger, even if the build is aborted		
				Build periodically ?		
				GitHub hook trigger for GITScm polling ?		
				Poll SCM ?		

