

Jenkins Integration with Ansible

Install Jenkins on CentOS 7

```
>sudo yum install java-1.8.0-openjdk-devel
```

```
>curl --silent --location http://pkg.jenkins-ci.org/redhat-stable/jenkins.repo | sudo tee /etc/yum.repos.d/jenkins.repo
```

```
>sudo rpm --import https://jenkins-ci.org/redhat/jenkins-ci.org.key
```

```
>sudo yum install jenkins
```

```
>sudo systemctl start jenkins
```

```
>sudo systemctl enable jenkins
```

Ansible

- Powerful Configuration Management tool that can be used to fire SSH commands & Playbooks to control software/configurations on a bunch of servers/nodes
- Jenkins can be configured to run Ansible Playbooks or Adhoc commands
- Jenkins – Ansible Plugin available for easy integration

Ansible Set-Up

>sudo yum install epel-release

>sudo yum install ansible

- Add hosts in /etc/ansible/hosts

[webapp]

35.200.174.161 ansible_user=SPECIFY_USER_NAME

- Add SSH PEM key location in /etc/ansible/ansible.cfg

private_key_file = /etc/ansible/keys/anand.pem

Jenkins Configuration Check

- Jenkins user must be properly set-up to use Ansible
- Please ensure that Jenkins user can access the SSH Keys (PEM file) folder
- Verify if Jenkins user can Ansible commands by first logging in as Jenkins user and manually running ansible adhoc commands

```
>sudo su jenkins
```

```
>whoami
```

```
>ansible webapp -a "hostname"
```

Jenkins Adhoc command

Put up a Free style Job & check if it invokes any Adhoc Ansible command

Build

 **Execute shell**

X

?

Command `ansible webapp -a "hostname"`

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

Advanced...

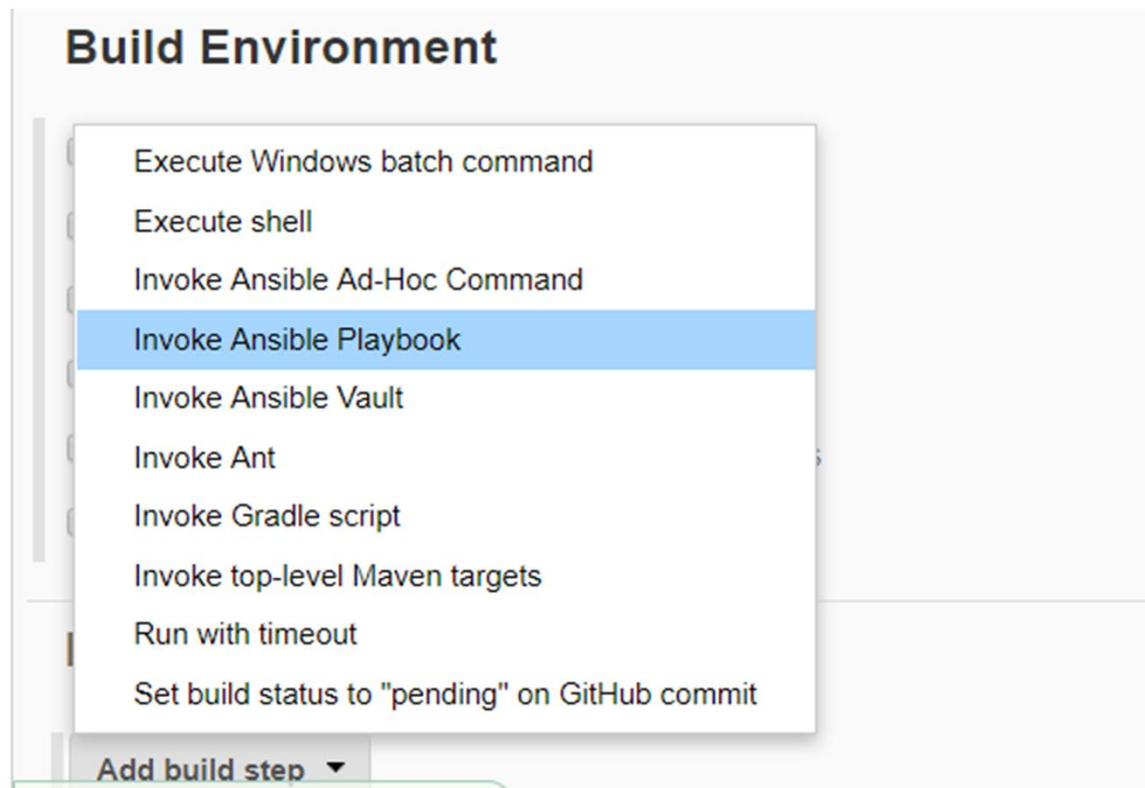
Jenkins Ansible Plugin

Install Ansible Plugin for better control

Enabled	Name ↓	Version
<input checked="" type="checkbox"/>	Ansible plugin Invoke Ansible Ad-Hoc commands and playbooks.	1.0

Jenkins Ansible Plugin

Can Invoke Adhoc Commands or Playbooks as Build Step



Ansible as Pipeline Step

- <https://github.com/rchidana/Nginx-PlayBook/blob/master/Jenkinsfile>

```
>ansiblePlaybook 'nginx_playbook.yml'
```