Integrate Jenkins with terraform

For this project we are going to use the regular jenkins.

Modify the following in your terraform script so that you can have the most updated java jdk container

echo "Install Java JDK 8"
yum remove -y java
#yum install -y java-1.8.0-openjdk
sudo yum install java-11-openjdk

- * Run the terraform life cycle after modification and provision the regular Jenkins
- ❖ Double check to make sure terraform is installed by the script

Run the command

Which terraform

- ❖ Go to jenkins console and in the section of plugins, get the following,
- ❖ Terraform plugin install without restart
- ❖ Cloudbee aws credentials plugin install without restart
- Go to global tool configuration and configure terraform path that you just downloaded
- ❖ Path of terraform (obtain this by running the command # which terraform)
- ❖ My path is /usr/bin/terraform
- ❖ Give terraform a name, for example **terraform-11**
- Uncheck automatically install box
- ❖ This will create a place to enter the path where terraform is in your jenkins terminal

- ❖ For my case the path is: /usr/bin/
- ❖ Do not include **terraform** in the path
- **❖** Apply and save
- ❖ Go to new item and create a terraform jenkins declarative pipeline
 - ❖ Save and run it

Credentials

You can do this in two ways

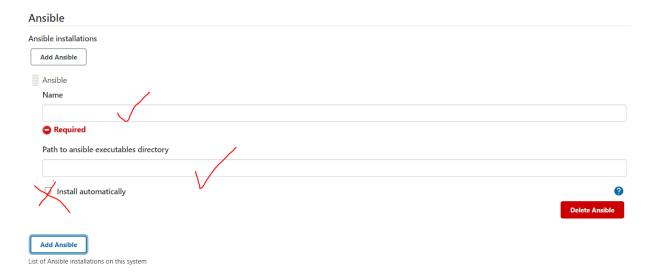
- ❖ Since terraform is in **jenkins instance** provisioned on aws, we can use **IAM**role to give terraform access to deploy resources in your aws account.
- ❖ The second method is by using cloudbee aws credentials plugin
- ❖ Integrate Jenkins with ansible
- ❖ We are going to use the regular jenkins again to save time
- ❖ We are going to start by creating a server on aws.
- ❖ Go to aws console and create an instance
- ❖ Open port: 22
- ❖ Open port: 80
- ❖ Go to jenkins terminal and make sure ansible is installed
- * Run the command

Which ansible

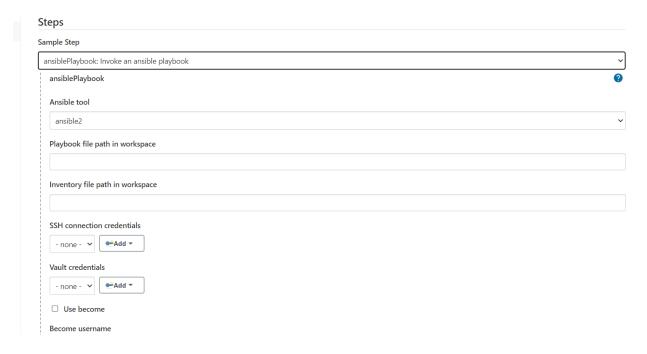
and the path where ansible is installed should be available

- **❖** Make sure you can ssh to the installed instance on aws (**be sure to enable the allocation of ip address during the process of configuring your server**)
- ❖ Make sure your private key is hidden from the public by running chmod 400 (name of your pemkey)
- ❖ Go to manage plugins and install the ansible plugin install without restart.

❖ Go to global tool configuration and configure ansible

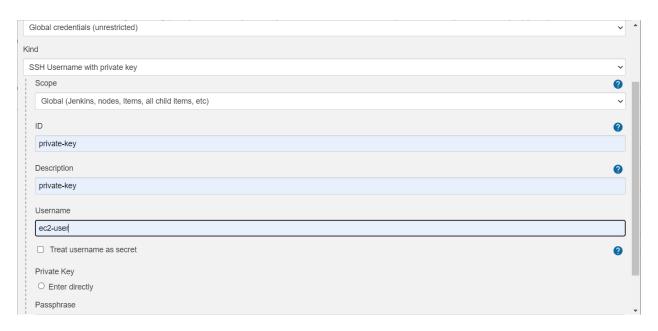


- Uncheck install automatically box
- ❖ Fill the information and save
- ❖ It is time to create a new job
- ❖ Let us write the jenkins-ansible declarative pipeline script
- Use snippet generator to create the playbook declarative command

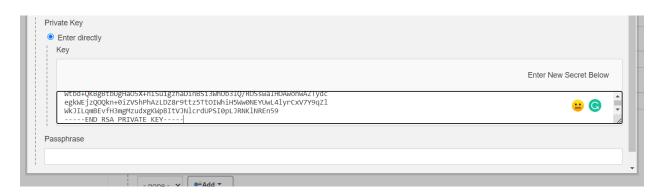


❖ Add the playbook space

- ❖ Add inventory file path
- Ssh connection credentials
- ❖ Select SSH Username with private key



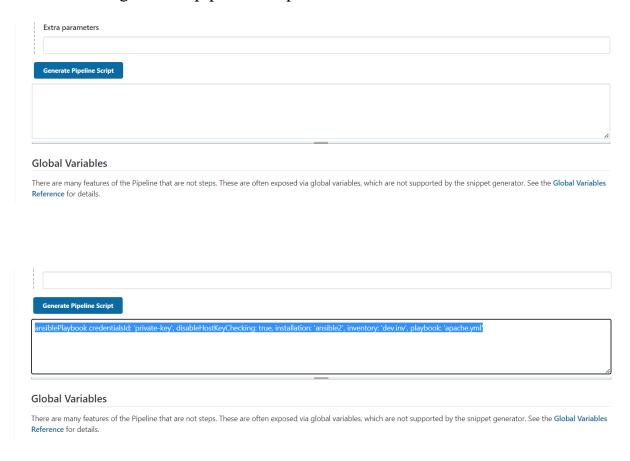
❖ Enter the ssh key directly



Very Important



- ❖ Disable ssh key. Otherwise, it is going to fail
- ❖ The click generates pipeline script



- ❖ Copy and take the generated script to the ansible pipeline
- Build your job