Ansible Assignment

**Assignment - 1**

write a playbook to install Nginx on the node/host machine.

**Step 1:** Connect to your hosts using SSH. For that, you need to generate a public SSH key.

**Step 2:** Your next task is to copy the public SSH key on your hosts.

**Step 3:** List the IP addresses of your hosts/nodes in your inventory.

**Step 4:** Let’s ping to ensure a connection has been established.

**Step 5:** Let us now write a playbook to install Nginx on the host machine. You can write your playbook in the vi editor.

**Step 6:** Now let’s run this playbook, using the command below:

**ansible-playbook <name of your file>.yml**

**Step 7:** Let’s check if Nginx is installed on my host machine. Use the command below:

**ps waux | grep nginx**

**Assignment – 2**

1. Create 2 Ansible roles.
2. Install Apache2 on slave1 using one role and NGINX on slave2 using the other role.
3. Above should be implemented using different Ansible roles.

* Create 2 Ansible roles.
* Install Apache2 on slave1 using one role and NGINX on slave2 using the other role.
* finally create a playbook to execute the tasks of the role.

**Assignment – 3**

1. Creating a Host server.
2. Install Ansible to the Host server.
3. Creating 2 more EC2 instances (servers)
4. Add these EC2s to the inventory file.
5. Configure the servers using the command method.
6. Uses of playbooks.
7. Deployment of a simple webpage using Ansible.

**Assignment – 4**

Variables are used to store values. In the below Example, I am declaring the variable **name** with the value **Happiestminds**. The output will be **Happiestminds**.

**Assignment – 5**

Write a playbook that will automate to the installation of JDK 8 on all target machines or servers. JDK is a pre-requisite for most of the other software packages like Maven or Tomcat.

**Assignment – 6**

The tasks performed are to download the maven file from the URL using the **get\_url** module, extract the file downloaded, move it to a smaller directory, and update and run the profile where the maven is added to the path.