**Devops Ninja Program**

**Ansible Assignment Day 3:**

**Task 1 :**

**Create and delete ninja directory on host machine:**

**Command to create a directory :**

sudo ansible test -m file -a 'path=/tmp/priyanka state=directory'

**Logs-**

192.168.1.18 | SUCCESS => {

   "changed": true,

   "gid": 0,

   "group": "root",

   "mode": "0755",

   "owner": "root",

   "path": "/tmp/priyanka",

   "size": 4096,

   "state": "directory",

   "uid": 0

}

**Command to delete a directory :**

sudo ansible test -m file -a 'path=/tmp/priyanka state=absent'

**Logs :**

192.168.1.18 | SUCCESS => {

   "changed": true,

   "path": "/tmp/priyanka",

   "state": "absent"

}

**Task 2 -**

**Set hostname on all nodes from remote machine**

**Command -**

sudo ansible test -m hostname -a 'name=web01'

**Logs -**

192.168.1.18 | SUCCESS => {

   "ansible\_facts": {

       "ansible\_domain": "",

       "ansible\_fqdn": "web01",

       "ansible\_hostname": "web01",

       "ansible\_nodename": "web01"

   },

   "changed": true,

   "name": "web01"

}

**Task 3 :**

**Fetch os of all nodes and store o/p into a file, use min two different machine of different flavour of os.**

**Command :**

sudo ansible --become all  -m setup | grep ansible\_distribution &> file1

**Output** :

"ansible\_distribution": "CentOS",

       "ansible\_distribution\_file\_parsed": true,

       "ansible\_distribution\_file\_path": "/etc/redhat-release",

       "ansible\_distribution\_file\_variety": "RedHat",

       "ansible\_distribution\_major\_version": "7",

       "ansible\_distribution\_release": "Core",

       "ansible\_distribution\_version": "7.4.1708",

       "ansible\_distribution": "Ubuntu",

       "ansible\_distribution\_file\_parsed": true,

       "ansible\_distribution\_file\_path": "/etc/os-release",

       "ansible\_distribution\_file\_variety": "Debian",

       "ansible\_distribution\_major\_version": "14",

       "ansible\_distribution\_release": "trusty",

       "ansible\_distribution\_version": "14.04",

**Task 5 :**

Problem statement: Using Adhoc command  
Step 1:  
  
    \* Install apache on Debian machine  
    \* Cross check apache installed or not from remote machine  
    \* Apache run  on 8082 port  
    \* Create two virtual host  
    \* Restart apache from remote machine

Commands :

1. sudo ansible -i /etc/ansible/hosts web01 --become  -m apt -a 'pkg=apache2 state=installed'
2. sudo ansible web01 --become  -m lineinfile -a 'dest=/etc/apache2/ports.conf' regexp="^<VirtualHost \\*:80>" line="<VirtualHost \*:8082>" state=present’
3. sudo ansible web01 --become  -m lineinfile -a 'dest=/etc/apache2/sites-available/000-default.conf regexp="^<VirtualHost \\*:80>" line="<VirtualHost \*:8082>" state=present’
4. sudo ansible web01 -m service -a 'name=apache2 state=restarted' --become

 \* Install nginx on centos machine  
   \* Nginx run on 8080 port.

Commands :

sudo ansible web -m yum -a 'pkg=nginx state=installed' --become

sudo ansible web -m service -a "name=nginx state=restarted" --become

sudo ansible web -a "service nginx status"

sudo ansible web -m copy -a "src=/home/vagrant/nginx.conf dest=/etc/nginx/"

(Changed the port to 8080 and copied file to nginx)

\* Configure Nginx - configure it to run as reverse proxy to apache

**Installing httpd in centos :**

sudo ansible  centos --become  -m yum -a 'pkg=httpd state=latest'

sudo ansible  centos --become  -m service -a 'pkg=httpd state=restarted'

sudo ansible centos -a "service httpd status"

Now change the port of httpd.conf file and copy it to client node :

sudo ansible centos -m copy -a 'src=/etc/ansible/httpd.conf dest=/etc/httpd/conf'

sudo ansible  centos --become   -a '/bin/systemctl start httpd.service'

**Installing nginx centos:**

sudo ansible  centos -m yum -a 'name=http://nginx.org/packages/centos/6/noarch/RPMS/nginx-release-centos-6-0.el6.ngx.noarch.rpm state=present'

 sudo ansible centos -m yum -a 'name=epel-release state=latest'

 sudo ansible centos -b -m yum -a 'pkg=nginx state=latest'

sudo ansible centos -a "service nginx status" (it should not be running now)

(Create a nginx.conf file and change the server name and add proxy\_pass and then copy it to client node) :

sudo ansible centos -m copy -a 'src=/etc/ansible/nginx.conf dest=/etc/nginx'

sudo ansible  centos --become   -a '/bin/systemctl start nginx.service'