Ansible Hosts Configuration

Note: Skip host configuration for Lab We have already configured.

Prerequisites

1. Ansible Master node = 1
   (For Lab Your Machine will be Master Node)
2. Ansible Client nodes = 3
3. Username and password for master/Client We are using “devops user for all master & nodes”
   UserName = devops
   Password =

We are using 3 machines as ansible hosts

1. Ansible Client1
   Name = node1
   IP = 13.251.51.26
2. Ansible Client2
   Name = node2
   IP = 18.136.185.168

3. Ansible Client3
   Name = node3
   IP = 3.0.42.21

Configure hosts file on Master node:

Steps to follow:

1. Login to master node (Ansible Controller)
2. Create a directory
   mkdir platform
3. Copy everything of /ect/ansible/ to directory “platform”
   cp -R /etc/ansible/* platform
4. Platform folder should have following structure (ls -las):
   ls -las

```
devops@master:~$ cp -R /etc/ansible/* platform/
devops@master:~$ ls -las
total 48
4 drwxr-xr-x 7 devops devops 4096 Oct 26 10:42 .
4 drwxr-xr-x 5 root   root   4096 Oct 25 07:50 ..
4 drwx------ 3 devops devops 4096 Oct 25 11:28 .ansible
4 -rw------- 1 devops devops 1165 Oct 26 09:23 .bash_history
4 -rw-r--r-- 1 devops devops  220 Oct 25 07:50 .bash_logout
4 -rw-r--r-- 1 devops devops 3771 Oct 25 07:50 .bashrc
4 drwx------ 3 devops devops 4096 Oct 25 09:12 .cache
4 drwx------ 4 devops devops 4096 Oct 25 09:12 .local
4 drwxrwxr-x 3 devops devops 4096 Oct 26 10:53 platform
4 -rw-r--r-- 1 devops devops  655 Oct 25 07:50 .profile
4 drwx------ 2 devops devops 4096 Oct 26 10:31 .ssh
4 -rw------- 1 root   root   1112 Oct 25 11:35 .viminfo
devops@master:~$
```

5. Edit the ansible.cfg to update ansible inventory file path to use the hosts file present directory:
   vim platform/ansible.cfg
   Add below line
   inventory = hosts

6. Press **escape**
7. Type **wq!**

```
[defaults]

# some basic default values...

inventory       = hosts
#inventory      = /etc/ansible/hosts
#library        = /usr/share/my_modules/
#module_utils   = /usr/share/my_module_utils/
#remote_tmp     = ~/.ansible/tmp
#local_tmp      = ~/.ansible/tmp
#plugin_filters_cfg = /etc/ansible/plugin_filters.yml
#forks          = 5
#poll_interval  = 15
#sudo_user      = root
#ask_sudo_pass = True
#ask_pass      = True
#transport      = smart
#remote_port    = 22
#module_lang    = C
#module_set_locale = False

# plays will gather facts by default, which contain informat
# the remote system.
#
# smart - gather by default, but don't regather if already g
# implicit - gather by default, turn off with gather_facts:
# explicit - do not gather by default, must say gather_facts
#gathering = implicit

:wq
```

8. Now Clear the content of “hosts” file in platform directory or remove and create new hosts file.
9. Enter the nodes details

```
#localhost config
[local]
localhost


#Groups of web servers
[webservers]

#nodes in webserver group
node1 ansible_host=18.219.30.124 ansible_connection=ssh ansible_user=devops

node2 ansible_host=18.217.170.61 ansible_connection=ssh ansible_user=devops

#Dockerhost group
[dockerhost]
node3 ansible_host=18.191.52.216 ansible_connection=ssh ansible_user=devops
~
```

10. Save the hosts file (follow Steps 6,7)

11. We have Created 3 Groups

    I. **Local**
    (Local includes localhost)

    II. Webservers
    (Includes node1 & node2)

    III. **Dockerhost**
    (node3)

12. Let's test it out with Ansible ping module

```
devops@master:~/platform$ ansible all -i hosts -m ping
localhost | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
node1 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
node2 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
node3 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
devops@master:~/platform$
```