

System Provisioning and Configuration Module Lab

Working with Hosts and Groups

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Lab Exercise 02

Working With Hosts and Groups

Objective: To work with hosts both individually and in groups for streamlined management and deployment across your network infrastructure

Tools required: Ubuntu OS

Prerequisites: You need to have Ansible, and the nodes connected with it installed to proceed with this demo. Refer Demo 1 of Lesson 3.

Steps to be followed:

- 1. List the hosts present in your host file
- 2. Create a file on the host
- 3. Remove the file from the host
- 4. Create and remove the file on the hosts using the group
- 5. Update the hosts using the group

Step 1: List the hosts present in your host file

1.1 Use the following command to list the hosts in your inventory file:

ansible all --list-hosts

```
[ec2-user@ip-172-31-3-184 ~]$ ansible all --list-hosts
hosts (3):
    172.31.2.18
    172.31.1.82
    localhost
[ec2-user@ip-172-31-3-184 ~]$
```

i-01aece664b34b6423 (ANSIBLE-SERVER)

PublicIPs: 13.203.86.113 PrivateIPs: 172.31.3.184

Step 2: Create a file on the host

2.1 Use the following command to list the contents of the current working directory: ansible 172.31.3.184 -a "Is"

```
-bash: 2.lansible: command not found
[sc2-user8ip-172-31-3-184 -]S ansible 172.31.3.184 -a "ls"
[MARNING]: Could not match supplied thost pattern, ignoring: 172.31.3.184
[MARNING]: No hosts matched, nothing to do
[sc2-user8ip-172-31-3-1-31-4] **, ansible 172.31.2.18 -a "ls"
[MARNING]: Platform linux on host 172.31.2.18 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

[sc2-user8ip-172-31.2.18 | CHANGED | rc=0 >> 
[sc3-user8ip-172-31.2.18 | CHANGED | rc=0 >> 
[sc3-user8ip-172-31.2.18 | CHANGED | rc=0 | rc=0
```

Note: You can create the file on any other host as per your host list.

2.2 Use the following command to create a file named **file1** on the host:

ansible 172.31.3.184 -a "touch file1"

```
(ec2-user@ip-172-31-3-184 ~|§ ansible 172.31.2.18 -a "la"
(MARNING): Platform linux on host 172.31.2.18 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.2.18 | CHANGED | rc=0 >>
file!
(ec2-user@ip-172-31-3-184 ~|§ ansible 172.31.2.18 -m file -a "path=file! state=touch"
(MARNING): Platform linux on host 172.31.2.18 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.2.18 | CHANGED | rc=0

"discovered_interpreter_python": "/usr/bin/python" |
"changed": true,
"dest": "file1",
"qid": loo1,
"group": "devopes",
"sodes": "6664",
"owner": "devopes",
"size": 0,
"state": "file5,
"uid": 1001
[sc2-user@ip-172-31-3-184 ~|§
```

Step 3: Remove the file from the host

3.1 Now, run the following command to remove the file from the host: ansible 172.31.44.85 -a "rm file1"

```
[ec2-user&ip-172-31-3-184 ~]$ ansible 172.31.2.18 -m file -a "path-file] state-absent"
[WARNING]: Platform linux on host 172.31.2.18 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

| "ansible facte": |
    "state": | "discovered_interpreter_python": "/usr/bin/python"
    ",
    "changed": false,
    "path": "file",
    "state": "absent"
| [cc2-user&ip-172-31-3-184 ~]$ |

i-Olaece664b34b6423 (ANSIBLE-SERVER)
```

Step 4: Create and remove the file on the hosts using the group

4.1 Run the following command to create a new file on both the hosts using the group: ansible spcm -a "touch Ansible_learners"

```
[ec2-user8ip-172-31-3-184 -]$ guido vi /etc/ansible/hosts
[ec2-user8ip-172-31-3-184 -]$ ansible spum -a "Louch Ansible learners"
[ec2-user8ip-172-31-3-184 -]$ guido vi /etc/ansible/hosts
[ec2-user8ip-172-31-3-184 -]$ guido vi /etc/ansible spum -a "Louch Ansible learners"
[EMANNING]: Sensider using the file module with state=touch rather than running 'touch'. If you need to use command because file is insufficient you can add 'warn:
false' to this command task or set 'command warning=False' in ansible.ofg to get rid of this message.
[RANNING]: Platform linux on host localhost is using the discovered Python interpreter discovery.html for more information.
[RANNING]: Flatform linux on host 172.31.2.18 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

[RANNING]: Flatform linux on host 172.31.2.18 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.

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```

4.2 Use the following command to list the contents of the current working directory of all the hosts present in the group:

ansible spcm -a "ls"

4.3 Run the following command to remove the file on both hosts using the group: ansible spcm -a "rm Ansible_learners"