Lesson 02 Demo 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

Note: The host list might change as per your system.

Step 2: Create a file on the host

2.1 Use the following command to list the contents of the current working directory: ansible 172.31.44.85 -a "Is"

```
Typedshararales (eip-172-31-44-85:~$ ansible 172.31.44.85 -a "ls"
172.31.44.85 | CHANGED | rc=0 >>
Desktop
Documents
Downloads
Music
Pictures
Public
Templates
Videos
file1
thinclient drives
```

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 172.31.44.85 -a "touch file1"

```
The authenticity of host '172.31.44.85 (172.31.44.85)' can't be established.

ED25519 key fingerprint is SHA256:/TNj5v1UthviNPSVB0jksCbix6ZZ50sYDtj3nEEarjA.

This host key is known by the following other names/addresses:

~/.ssh/known_hosts:1: [hashed name]

~/.ssh/known_hosts:4: [hashed name]

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

172.31.44.85 | CHANGED | rc=0 >>
```

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"

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 dbservers -a "touch Ansible_learners"

```
syedsharozsimpl@ip-172-31-44-85:~$ ansible dbservers -a "touch Ansible_learners"
```

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

ansible dbservers -a "Is"

```
syedsharozsimpl@ip-172-31-44-85:~$ ansible dbservers -a "ls"
```

```
[DEPRECATION WARNING]: Distribution Ubuntu 20.04 on host localhost should use /usr/bin/python3, but is using /usr/bin/python for backward compatibility with prior Ansible releases. A future Ansible release will default to using the discovered platform python for this host. See https://docs.ansible.com/ansible/2.9/preference_appendices/interpreter_discovery.html for more information. This feature will be removed in version 2.12. Deprecation warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.

Ansible_learners

Desktop

Documents

Downloads

Music

Pictures

Public

Simplilearn

Templates

Videos

thinclient drives

[DEPRECATION WARNING]: Distribution Ubuntu 16.04 on host 172.31.18.193 should use /usr/bin/python3, but is using /usr/bin/python for backward compatibility with prior Ansible releases. A future Ansible release will default to using the discovered platform python for this host. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information. This feature will be removed in version 2.12. Deprecation warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.

Ansible_learners

Desktop

Devops

Simplilearn

Devops

Simplilearn

Devops

Simplilearn

Devops
```

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

```
@ip-172-31-44-85:~$ ansible dbservers -a "rm Ansible_learners"
```

Step 5: Update the hosts using the group

5.1 Run the following command to update the hosts using the group: ansible dbservers -a "sudo apt-get update"

```
| MARNING|: onsider using 'become', 'become method', and 'become user' rather than running sudo |
| IDEPRECATION WARNING|: Distribution Ubuntu 16.04 on host 172.31.18.193 should use /usr/bin/python3, but is using /usr/bin/python for backward compatibility with prior Ansible releases. A future Ansible release will default to using the discovered platform python for this host. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information. This feature will be removed in version 2.12. Deprecation warnings can be disabled by setting deprecation warnings=False in ansible.cfg.
| 172.31.18.193 | CHANGED | rcm0 >> | 170.21.18.193 | CHANGED | rcm0 >> | 170.21.18.193
```

By following these steps, you have successfully worked with hosts both individually and in the group for streamlined management and deployment across your network infrastructure.