

## Lab Exercise 02

### Working With Hosts and Groups

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**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. Use the following command to list the hosts in your inventory file:  
**ansible all --list-hosts**

```
~  
> ansible all --list-hosts  
hosts (2):  
    172.31.6.104  
    172.31.5.230
```

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

## Step 2: Create a file on the host

1. Use the following command to list the contents of the current working directory:

**ansible 172.31.6.104 -a "ls"**

```
Last login: Thu Apr 10 16:41:51 UTC 2025 on pts/0
[do@ip-172-31-8-236 ~]$ ansible 172.31.6.104 -a "ls"
[WARNING]: Platform linux on host 172.31.6.104 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.
172.31.6.104 | CHANGED | rc=0 >>
file.txt
```

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

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

**ansible 172.31.44.85 -a "touch file1"**

```
[do@ip-172-31-8-236 ~]$ ansible 172.31.6.104 -a "touch file1"
[WARNING]: Consider 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_warnings=False' in ansible.cfg to get rid of this message.
[WARNING]: Platform linux on host 172.31.6.104 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.
172.31.6.104 | CHANGED | rc=0 >>
[do@ip-172-31-8-236 ~]$
```

## Step 3: Remove the file from the host

1. Now, run the following command to remove the file from the host:

**ansible 172.31.44.85 -a "rm file1"**

```
[do@ip-172-31-8-236 ~]$ ansible 172.31.6.104 -a "rm file1"
[WARNING]: Consider using the file module with state=absent rather than running 'rm'. If you need to use command because file is insufficient you can add 'warn: false' to this command
task or set 'command_warnings=False' in ansible.cfg to get rid of this message.
[WARNING]: Platform linux on host 172.31.6.104 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.
172.31.6.104 | CHANGED | rc=0 >>
[do@ip-172-31-8-236 ~]$
```

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

1. Run the following command to create a new file on both the hosts using the group:

**ansible dbservers -a "touch Ansible\_learners"**

```
[do@ip-172-31-8-236 ~]$ ansible dbservers -a "touch Ansible_learners"
[WARNING]: Consider 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_warnings=False' in ansible.cfg to get rid of this message.
[WARNING]: Platform linux on host 172.31.5.230 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.
172.31.5.230 | CHANGED | rc=0 >>
[WARNING]: Platform linux on host 172.31.6.104 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.
172.31.6.104 | CHANGED | rc=0 >>
```

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 "ls"**

```
[do@ip-172-31-8-236 ~]$ ansible dbservers -a "ls"
[WARNING]: Platform linux on host 172.31.6.104 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.
172.31.6.104 | CHANGED | rc=0 >>
Ansible_learners
fl.txt
[WARNING]: Platform linux on host 172.31.5.230 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.
172.31.5.230 | CHANGED | rc=0 >>
Ansible_learners
fl.txt
[do@ip-172-31-8-236 ~]$
```

3. Run the following command to remove the file on both hosts using the group:

**ansible dbservers -a "rm Ansible\_learners"**

```
[do@ip-172-31-8-236 ~]$ ansible dbservers -a "rm Ansible_learners"
[WARNING]: Consider using the file module with state=absent rather than running 'rm'. If you need to use command because file is insufficient you can add 'warn: false' to this command ta
or set 'command_warnings=False' in ansible.cfg to get rid of this message.
[WARNING]: Platform linux on host 172.31.6.104 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.
172.31.6.104 | CHANGED | rc=0 >>
[WARNING]: Platform linux on host 172.31.5.230 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.
172.31.5.230 | CHANGED | rc=0 >>
```