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Guided Exercise: Selecting Hosts with Host Patterns



In this exercise, you will explore how to use host patterns to specify hosts from the inventory for plays or ad hoc commands. You will be provided with several example inventories to explore host patterns.

Outcomes

You will be able to use different host patterns to access various hosts in an inventory.

Log in to workstation as student using student as the password.

On workstation, run the lab projects-host start command. The script creates the projects-host project directory, and then downloads the Ansible configuration file and the host inventory file needed for this exercise.

[student@workstation ~]\$ lab projects-host start

Procedure 6.1. Instructions

1. On workstation, change to the working directory for the exercise, /home/student/projects-host, and review the contents of the directory.

[student@workstation ~]\$ cd ~/projects-host
[student@workstation projects-host]\$

1.1. List the contents of the directory.

[student@workstation projects-host]\$ ls
ansible.cfg inventory1 inventory2 playbook.yml

1.2. Inspect the example inventory file, inventory1. Notice how the inventory is organized. Explore which hosts and groups are in the inventory, and which domains are used.

```
srv1.example.com
srv2.example.com
s1.lab.example.com
s2.lab.example.com
[web]
jupiter.lab.example.com
saturn.example.com
[db]
db1.example.com
db2.example.com
db3.example.com
[lb]
lb1.lab.example.com
1b2.lab.example.com
[boston]
db1.example.com
jupiter.lab.example.com
1b2.lab.example.com
[london]
db2.example.com
db3.example.com
file1.lab.example.com
lb1.lab.example.com
[dev]
web1.lab.example.com
db3.example.com
[stage]
file2.example.com
db2.example.com
[prod]
1b2.lab.example.com
db1.example.com
jupiter.lab.example.com
[function:children]
web
db
1b
city
[city:children]
boston
london
environments
[environments:children]
dev
stage
prod
new
[new]
172.25.252.23
172.25.252.44
172.25.252.32
```

1.3. Inspect the example inventory file, inventory2. Notice how the inventory is organized. Explore which hosts and groups are in the inventory, and which domains are used.

```
workstation.lab.example.com

[london]
servera.lab.example.com

[berlin]
serverb.lab.example.com

[tokyo]
serverc.lab.example.com

[atlanta]
serverd.lab.example.com

[europe:children]
london
berlin
```

1.4. Lastly, inspect the contents of the playbook, playbook.yml. Notice how the playbook uses the debug module to display the name of each managed host.

```
---
- name: Resolve host patterns
hosts:
  tasks:
    - name: Display managed host name
    debug:
        msg: "{{ inventory_hostname }}"
```

2. Using an ad hoc command, determine if the db1.example.com server is present in the inventory1 inventory file.

```
[student@workstation projects-host]$ ansible db1.example.com -i inventory1 \
> --list-hosts
hosts (1):
   db1.example.com
```

3. Using an ad hoc command, reference an IP address contained in the inventory1 inventory with a host pattern.

```
[student@workstation projects-host]$ ansible 172.25.252.44 -i inventory1 \
> --list-hosts
hosts (1):
    172.25.252.44
```

4. With an ad hoc command, use the all group to list all managed hosts in the inventory1 inventory file.

```
[student@workstation projects-host]$ ansible all -i inventory1 --list-hosts
 hosts (17):
   srv1.example.com
   srv2.example.com
   s1.lab.example.com
   s2.lab.example.com
   jupiter.lab.example.com
    saturn.example.com
    db1.example.com
    db2.example.com
    db3.example.com
   lb1.lab.example.com
   1b2.lab.example.com
   file1.lab.example.com
    web1.lab.example.com
    file2.example.com
   172.25.252.23
   172.25.252.44
    172.25.252.32
```

5. With an ad hoc command, use the asterisk (*) character to list all hosts that end in .example.com in the inventory1 inventory file.

```
[student@workstation projects-host] ansible '*.example.com' -i inventory1 \
> --list-hosts
 hosts (14):
    jupiter.lab.example.com
    saturn.example.com
    db1.example.com
    db2.example.com
    db3.example.com
   lb1.lab.example.com
   1b2.lab.example.com
    file1.lab.example.com
   web1.lab.example.com
    file2.example.com
    srv1.example.com
    srv2.example.com
    s1.lab.example.com
    s2.lab.example.com
```

6. As you can see in the output of the preceding command, there are 14 hosts in the *.example.com domain. Modify the host pattern in the previous ad hoc command so that hosts in the *.lab.example.com domain are ignored.

```
[student@workstation projects-host]$ ansible '*.example.com, !*.lab.example.com' \
> -i inventory1 --list-hosts
hosts (7):
    saturn.example.com
    db1.example.com
    db2.example.com
    db3.example.com
    file2.example.com
    srv1.example.com
    srv2.example.com
```

7. Without accessing the groups in the inventory1 inventory file, use an ad hoc command to list these three hosts: lb1.lab.example.com, s1.lab.example.com, and db1.example.com.

```
[student@workstation projects-host]$ ansible \
> lb1.lab.example.com,s1.lab.example.com,db1.example.com -i inventory1 \
> --list-hosts
hosts (3):
   lb1.lab.example.com
   s1.lab.example.com
   db1.example.com
```

8. Use a wildcard host pattern in an ad hoc command to list hosts that start with a 172.25. IP address in the inventory1 inventory file.

```
[student@workstation projects-host]$ ansible '172.25.*' -i inventory1 --list-hosts
hosts (3):
172.25.252.23
172.25.252.44
172.25.252.32
```

9. Use a host pattern in an ad hoc command to list all hosts in the inventory1 inventory file that start with the letter "s."

```
[student@workstation projects-host]$ ansible 's*' -i inventory1 --list-hosts
hosts (7):
    saturn.example.com
    srv1.example.com
    srv2.example.com
    s1.lab.example.com
    s2.lab.example.com
    file2.example.com
    db2.example.com
```

Notice the file2.example.com and db2.example.com hosts in the output of the preceding command. They appear in the list because they are both members of a group called stage, which also begins with the letter "s."

O. Using a list and wildcard host patterns in an ad hoc command, list all hosts in the inventory1 inventory in the prod group, those hosts with an IP address beginning with 172, and hosts that contain lab in their name.

```
[student@workstation projects-host]$ ansible 'prod,172*,*lab*' -i inventory1 \
> --list-hosts
hosts (11):
    lb2.lab.example.com
    db1.example.com
    jupiter.lab.example.com
172.25.252.23
172.25.252.44
172.25.252.32
lb1.lab.example.com
file1.lab.example.com
web1.lab.example.com
s1.lab.example.com
s2.lab.example.com
```

11. Use an ad hoc command to list all hosts that belong to both the db and london groups.

```
[student@workstation projects-host]$ ansible 'db,&london' -i inventory1 \
> --list-hosts
hosts (2):
   db2.example.com
   db3.example.com
```

2. Modify the hosts value in the playbook.yml file so that all servers in the london group are targeted. Execute the playbook using the inventory2 inventory file.

```
...output omitted...
hosts: london
...output omitted...
```

3. Modify the hosts value in the playbook.yml file so that all servers in the europe nested group are targeted. Execute the playbook using the inventory2 inventory file.

```
...output omitted...
hosts: europe
...output omitted...
```

4. Modify the hosts value in the playbook.yml file so that all servers that do not belong to any group are targeted. Execute the playbook using the inventory2 inventory file.

```
...output omitted...
hosts: ungrouped
...output omitted...
```

Finish

On workstation, run the lab projects-host finish script to clean up this exercise.

```
[student@workstation ~]$ lab projects-host finish
```

This concludes the guided exercise.

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