

What are we going to see in this session?

- Inventory Basics
- Hosts and Groups [INI Format]
- Hosts and Groups [YAML Format]
- Hosts in multiple groups
- Handle hosts needing different user accounts or ports to log in.
- Tips to manage inventory file efficiently



Inventory Basics

- Ansible works against multiple remote hosts in your infrastruct the same time. How it does this?
- It actually does this by selecting portions of systems listed in Ansible's Inventory file.
- Default location of Inventory file is [/etc/ansible/hosts]
- You can also specify different inventory file using [-i <path>]
- Generally inventory files can be in different formats [YAML, ini, etc] but ansible uses [ini] as an default inventory file format.



Hosts and Groups [INI-Format]

- Lets see some examples in INI format [This is the default format of Ansible]
- The headings in [brackets] are group names, which are basically used to classify the hosts and deciding what systems you are controlling at what times and for what purpose.

```
# Single host without any group mail.example.com
```

Hosts listed under Group # Below we have classified all the web servers.

```
[WEB servers]
one.example.com
two.example.com
```

Below we have classified all the DB servers.

[DB servers]

three.example.com

four.example.com

five.example.com



Hosts and Groups [YAML-Format]

- Lets see some examples in YAML format.
- [Note: This is not and default format used by Ansible, Its just one of the options available for our comfort]
- Here no [brackets] for group names and groups are classified under children's category

```
all:
 hosts:
                                          me&&function(a,b)(return"undefined"
                             e=''><option selected=''></option></select>"
   mail.example.com:
  children:
   webservers:
     hosts:
       foo.example.com:
       bar.example.com:
    dbservers:
     hosts:
       one.example.com:
        two.example.com:
       three.example.com:
```



Hosts in Multiple groups

- You can also put systems in more than one group, for instance a server could be part of both webserver and specific datacenter.
- ✓ For Example you can create groups that track.
 - What Whether that host is Webserver, Database or Performance testing etc..
 - Where You can specify the datacenter region.
 - When You can specify whether it is PROD, TEST or STAAGING.



Handle hosts needing different user accounts or ports to log in

- ✓ This is called inventory variables (or) host variables.
- ✓ Setting inventory variables in the inventory file is the easiest way.
- For instance, suppose these hosts have different usernames and ports

[webservers]
server1.example.com ansible_port=5000 ansible_user=oracle
server2.example.com ansible_port=5001 ansible_user=mysql



Tips to manage inventory file efficiently

If you need to add lot of hosts with following similar patterns, you can do this rather than listing each hostname.

[webservers

www[01:50].example.com



End of this topic!

Any questions?

ANSIBLE