Implementing Ansible Inventory



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/etc/ansible/hosts

Ansible Inventory

[group01]

globo-web01 globo-web02 globo-db01

[group01:vars]

ansible_user=
ansible_password=

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Ansible Inventory Format

Popular hosts file formats: INI, YAML

```
[web]
globo-web01

[web:vars]
ansible_user=
ansible_password=
ansible_connection=
ansible_winrm_transport=
```

(ini)

/etc/ansible/hosts

```
all:
  children:
    web:
      hosts:
        globo-web01
      vars:
        ansible_user=
        ansible_password=
        ansible_connection=
        ansible_winrm_transport=
```

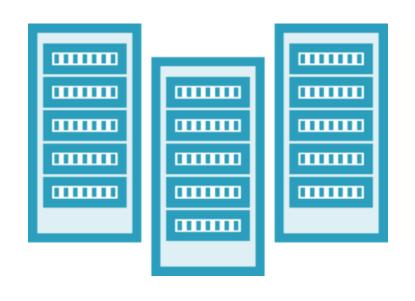
(yaml)

/etc/ansible/hosts

Ansible Groups

```
/etc/ansible/hosts
[databases]
globo-db01
globo-db02
globo-db03
globo-linux-db04
[webservers]
globo-web01
globo-web02
globo-web03
[linux_servers]
globo-linux-db04
```

Ansible Default Groups: All, Ungrouped



There are two important default groups: "all" and "ungrouped"

The all group will include all hosts listed in the inventory regardless of grouping

The ungrouped list will include all hosts not otherwise listed in a group



Nested Groups

```
/etc/ansible/hosts
[webservers]
globo-web01
globo-web02
[databases]
globo-db01
globo-db02
[windows_servers:children]
webservers
databases
$ ansible windows_servers -m win_ping
```

/etc/ansible/hosts

Ansible Variables

```
[web]
globo-web01
globo-web02
[web:vars]
ansible_username=<user>
ansible_password=<password>
```

/etc/ansible/hosts

Overriding Variables

```
[web]
globo-web01
globo-web01 ansible_port=5987
[web:vars]
ansible_username=<user>
ansible_password=<password>
```

Nested Group Variables

```
/etc/ansible/hosts
[webservers]
globo-web01
globo-web02
[databases]
globo-db01
globo-db02
[windows_servers:children]
webservers
databases
[windows_servers:vars]
ansible_username=<user>
ansible_password=<password>
```

Ansible Patterns





Demo



Organize our Globomantics inventory into functional groups

Separate into databases and webservers



Demo



We can also group by operating system

Connections to Linux hosts are different from Windows

Setup SSH connection to the Linux host



Summary



Inventory, variables, and host organization

Further reading: Dynamic inventory

Next: Ansible Playbooks

