

# Ansible Training Advanced



# Agenda

- Deploy 3 VMs on Scaleway
- Set up a three tiers Wordpress installation
  - Nginx reverse proxy
  - Nginx + PHP FPM Wordpress
  - Mysql backend

# Create your Ubuntu VM (1)

```
user@laptop:~#$ tree
├── playbook.yml
└── roles
    ├── scaleway_vm
    │   └── tasks
    │       └── main.yml
```

Ubuntu image: e20532c4-1fa0-4c97-992f-436b8d372c07

Organization: 43a3b6c8-916f-477b-b7ec-ff1898f5fdd9

Commercial Type: VC1S - Location: par1

Specify a custom name (ie not ansible/test/...)

[Module Documentation](#)

# Create your Ubuntu VM (2)

```
user@laptop:~#$ tree
├── playbook.yml
└── roles
    ├── scaleway_vm
    │   └── tasks
    │       └── main.yml
```

Ubuntu image: 6d7aabd0-a0b7-434a-95c8-b40aa3d5b973

Organization: 43a3b6c8-916f-477b-b7ec-ff1898f5fdd9

Commercial Type: VC1S - Location: ams1

Specify a custom name (ie not ansible/test/...)

[Module Documentation](#)

# Solution

```
#roles/scaleway/tasks/main.yml
- name: deploy ssh key to scaleway
  scaleway_sshkey:
    ssh_pub_key: "ssh-rsa ..."
    state: present

- name: Create front, middle, back scaleway servers
  scaleway_compute:
    name: "{{ item }}"
    state: "{{ state }}"
    image: "{{ image }}"
    organization: "{{ organization }}"
    region: "{{ location }}"
    commercial_type: "{{ commercial_type }}"
  with_items:
    - front-nginx
    - middle-wordpress
```

# Create your inventory file

Get the IP Address related to your instance and create your inventory file.

*You can take example on* `/etc/ansible/hosts`

Test your inventory file:

```
user@laptop:~#:~# ansible -i inventory all -m ping
51.15.235.20 | SUCCESS => {
    "changed": false,
    "ping": "pong"
}
```

**Make sure to connect with root user with** `ansible_user`

# Solution

```
[front]  
<SCW_IP> ansible_user=root
```

```
[middle]  
<SCW_IP> ansible_user=root
```

```
[back]  
<SCW_IP> ansible_user=root
```

# Nginx role



# Create an nginx role and create a new playbook

```
[ansible01@ansible ~]$ tree
├── inventory
├── playbook_wordpress.yml
└── roles
    ├── nginx_install
    │   ├── files
    │   │   └── nginx.conf
    │   ├── handlers
    │   │   └── main.yml
    │   ├── tasks
    │   │   └── main.yml
    │   └── templates
    │       └── nginx-wordpress.conf
```

Try: `ansible-playbook -i inventory playbook.yml`

# Solution

[Nginx Role](#)

[Playbook](#)

# Wordpress role

# Create a Wordpress role

```
[ansible01@ansible ~]$ tree
├── group_vars
│   └── all
├── inventory
├── playbook_wordpress.yml
└── roles
    ├── wordpress_install
    │   ├── files
    │   │   ├── nginx.conf
    │   │   └── wordpress.conf
    │   ├── handlers
    │   │   └── main.yml
    │   ├── tasks
    │   │   └── main.yml
    │   └── templates
    │       └── wp-config.php
```



# Solution

Wordpress Role

# Mysql role

# Create a Mysql role

```
[ansible01@ansible ~]$ tree
├── group_vars
│   └── all
├── inventory
├── playbook_scw.yml
├── playbook_wordpress.yml
└── roles
    ├── mysql_install
    │   ├── defaults
    │   │   └── main.yml
    │   ├── handlers
    │   │   └── main.yml
    │   ├── tasks
    │   │   └── main.yml
    │   └── templates
    │       └── my.cnf
```





# Solution

Mysql Role

**Thanks**