

Day 1

- Install ansible

\$Sudo dnf -y install ansible-core

- Create the server container which will be managed through our ansible controller (local host).

```
FROM ubuntu:20.04
RUN apt update -y && apt install ssh -y && apt install sudo -y
RUN adduser ansible ; echo "ansible:123" | chpasswd
RUN usermod -aG sudo ansible
RUN mkdir -p /home/ansible/.ssh
COPY id_rsa.pub /home/ansible/.ssh/authorized_keys
RUN chown ansible:ansible /home/ansible/.ssh/authorized_keys
RUN chmod 600 /home/ansible/.ssh/authorized_keys
ENTRYPOINT service ssh restart && bash
```

- ▶ Create the inventory file
- ▶ Put the IP of host 1 in the inventory file
- ▶ Use the inventory file path in your ad-hoc command instead of using the IP hard-coded
- ▶ Example:
ansible all -i inventory --private-key ~/.ssh/devops -u ubuntu -m ping



```
#the_inventory_file
```

```
[myservers]  
172.17.0.2
```

- ▶ Create the configuration file
- ▶ Insert some values in the configuration file
- ▶ Run the minimized ad-hoc command
- ▶ Example: ansible all -m ping



```
#the_ansible.cfg_file  
[defaults]  
inventory = ./inventory  
remote_user = ansible  
[privilege_escalation]  
become = true  
become_ask_pass = true
```



- ▶ Update cache
- ▶ Install latest nginx
- ▶ Copy index.html from controller to host 1
- ▶ Restart nginx service
- ▶ Can you see your index.html file when you hit host 1 on port 80 ?

```
- name: my first play
hosts: myservers
gather_facts: false
tasks:
- name: update cache
  apt:
    update_cache: true

- name: install nginx
  apt:
    name: nginx
    state: latest

- name: copy index
  copy:
    src: ./index.html
    dest: /var/www/html/index.html

- name: restart nginx
  service:
    name: nginx
    state: restarted
    use: sysvini
```

```
PLAY [my first play] *****
TASK [update cache] *****
ok: [172.17.0.2]

TASK [install nginx] *****
ok: [172.17.0.2]

TASK [copy index] *****
ok: [172.17.0.2]

TASK [restart nginx] *****
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2 : ok=4    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```