



Provisioning Servers: Installing NTP

1. Now in this lab you are going to install NTP on all your servers.
2. Now in your machine create a new directory.
3. Then go into that new directory and remove the YAML files.

```
ubuntu@ip-172-31-12-170:~/demodirectory$ ls
exc1 exc2 exc3 exc4 exc5 exc6 exc7 exc8
ubuntu@ip-172-31-12-170:~/demodirectory$ cp -r exc8/ exc9
ubuntu@ip-172-31-12-170:~/demodirectory$ ls
exc1 exc2 exc3 exc4 exc5 exc6 exc7 exc8 exc9
ubuntu@ip-172-31-12-170:~/demodirectory$ cd exc9
ubuntu@ip-172-31-12-170:~/demodirectory/exc9$ ls
demo_prec.yaml demourkey.pem facts.yaml group_vars inventory
ubuntu@ip-172-31-12-170:~/demodirectory/exc9$ rm -rf facts.yaml demo_prec.yaml
ubuntu@ip-172-31-12-170:~/demodirectory/exc9$ ls
demourkey.pem group_vars inventory
ubuntu@ip-172-31-12-170:~/demodirectory/exc9$ |
```

4. After make a test to ping all. Just check if everything is working fine.

```
ubuntu@ip-172-31-12-170:~/demodirectory/exc9$ ansible -m ping all -i inventory
demoweb01 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
demodb01 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
demoweb02 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
demoweb03 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-12-170:~/demodirectory/exc9$ |
```

5. Now you need to create a new YAML file and a write a code in it.

vim demoprovision.yaml

- name: Provisioning Server
 - hosts: all
 - become: yes
 - tasks:
 - name: Install ntp agent on centos
 - yum:
 - name: chrony
 - state: present
 - when: ansible_distribution == "CentOS"
 - name: Install ntp agent on ubuntu
 - apt:
 - name: ntp
 - state: present
 - when: ansible_distribution == "Ubuntu"
 - name: Start service on centos
 - service:
 - name: chronyd
 - state: started
 - enabled: yes
 - when: ansible_distribution == "CentOS"
 - name: Start service on ubuntu
 - service:
 - name: ntp
 - state: started
 - enabled: yes
 - when: ansible_distribution == "Ubuntu"

6. Now run the ansible playbook command.

ansible-playbook -i inventory demoprovision.yaml

```

ubuntu@ip-172-31-12-170:~/demodirectory/exc9$ ansible-playbook -i inventory demoprovision.yaml

PLAY [Provisioning Server] *****

TASK [Gathering Facts] *****
ok: [demoweb01]
ok: [demodb01]
ok: [demoweb02]
ok: [demoweb03]

TASK [Install ntp agent on centos] *****
skipping: [demoweb03]
ok: [demoweb02]
ok: [demoweb01]
ok: [demodb01]

TASK [Install ntp agent on ubuntu] *****
skipping: [demoweb01]
skipping: [demoweb02]
skipping: [demodb01]
ok: [demoweb03]

TASK [Start service on centos] *****
skipping: [demoweb03]
ok: [demodb01]
ok: [demoweb01]
ok: [demoweb02]

TASK [Start service on ubuntu] *****
skipping: [demoweb01]
skipping: [demoweb02]
skipping: [demodb01]
ok: [demoweb03]

PLAY RECAP *****
demodb01      : ok=3    changed=0    unreachable=0    failed=0    skipped=2    rescued=0    ignored=0
demoweb01     : ok=3    changed=0    unreachable=0    failed=0    skipped=2    rescued=0    ignored=0
demoweb02     : ok=3    changed=0    unreachable=0    failed=0    skipped=2    rescued=0    ignored=0
demoweb03     : ok=3    changed=0    unreachable=0    failed=0    skipped=2    rescued=0    ignored=0

ubuntu@ip-172-31-12-170:~/demodirectory/exc9$ |

```