

Task1

❏ Write your first playbook file

❏ Stop gather_facts and update cache

```
root@ip-10-2-0-220:~/lab1# cat ansible.cfg
[defaults]
inventory = ./inventory
private_key_file = /root/ansible.pem
remote_user = ubuntu

[privilege_escalation]
become_ask_pass = true
become = true
root@ip-10-2-0-220:~/lab1#
```

```
root@ip-10-2-0-220:~/lab1# cat inventory
[servers]
10.2.0.67
10.2.0.220 (1/1)
```

```
- name: create-task1
  hosts: servers
  gather_facts: false
  tasks:

    #apt update
    - name: update servers
      tags: update
      apt:
        update_cache: true
~
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~
~
~
~
```

```

root@ip-10-2-0-220:~/lab1# vim inventory
root@ip-10-2-0-220:~/lab1# vim ansible.cfg
root@ip-10-2-0-220:~/lab1# ansible-playbook create-task.yaml
BECOME password:

PLAY [create-task1] *****

TASK [update servers] *****
The authenticity of host '10.2.0.67 (10.2.0.67)' can't be established.
ED25519 key fingerprint is SHA256:hSVBj5fYinLBMwEYQRWUPvNaTeoCy2VfLdEtc/s/xnk.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:3: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
changed: [10.2.0.67]

PLAY RECAP *****
10.2.0.67 : ok=1 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

root@ip-10-2-0-220:~/lab1# █

```

Task2

- ☐ Explore some built-in modules like: (apt, dnf, package, service, command, copy, user, group, lineinfile, authorized_key, etc.) ansible-builtin modules
- ☐ 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

```

root@ip-10-2-0-220:~/lab1# ansible-playbook task2.yaml
BECOME password:

PLAY [task2] *****

TASK [update servers] *****
changed: [10.2.0.67]

TASK [install latest nginx] *****
ok: [10.2.0.67]

TASK [copy index file] *****
ok: [10.2.0.67]

TASK [restart nginx] *****
changed: [10.2.0.67]

PLAY RECAP *****
10.2.0.67 : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

root@ip-10-2-0-220:~/lab1# curl 10.2.0.67
<h1> Hello, This Message is deployed From Ansible </h1>
root@ip-10-2-0-220:~/lab1# █

```

```

- name: task2
  hosts: servers
  gather_facts: false
  tasks:
    - name: update server
      tags: update
      apt:
        update_cache: true

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

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

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

Task3

- ☐ Write simple playbook file
- ☐ Add two tasks (apt update – apt install nginx)
- ☐ Add tags to first task: update
- ☐ Add tags to second task: install
- ☐ Run only the (apt update) task
- ☐ Example: `ansible-playbook my-playbook.yml --tags update`
- ☐ Add one task with “tags: always” and run the previous command again

```
root@ip-10-2-0-220:~/lab1# ansible-playbook task2.yaml --tags update
BECOME password:

PLAY [task2] *****

TASK [update servers] *****
changed: [10.2.0.67]

PLAY RECAP *****
10.2.0.67 : ok=1    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@ip-10-2-0-220:~/lab1#
```

```
- name: task2
  hosts: servers
  gather_facts: false
  tasks:
    - name: update servers
      tags: update
      apt:
        update_cache: true

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

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

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

```
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```

Task4

Define these variables (package_name, package_version)

- ☐ on playbook level
- ☐ on inventory level
- ☐ on command line level Use apt module with the package name and version from your variable

```

root@ip-10-2-0-220:~/lab1$ ansible-playbook task4.yaml
BECOME password:

PLAY [task4] *****

TASK [update servers] *****
changed: [10.2.0.67]

TASK [Ensure the package "nginx" is not installed] *****
changed: [10.2.0.67]

TASK [install "nginx=1.18.0-6ubuntu14.4"] *****
changed: [10.2.0.67]

TASK [copy index file] *****
ok: [10.2.0.67]

TASK [restart nginx] *****
changed: [10.2.0.67]

PLAY RECAP *****
10.2.0.67      : ok=5    changed=4    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@ip-10-2-0-220:~/lab1$ curl 10.2.0.67
<h1> Hello, This Message is deployed From Ansible </h1>
root@ip-10-2-0-220:~/lab1$ █

```

```

- name: task4
  hosts: servers
  gather_facts: false
  tags: task4
  vars:
    - package_name: nginx
      package_state: present
      package_version: 1.18.0-6ubuntu14.4
  tasks:

    - name: update servers
      apt:
        update_cache: true

    - name: Ensure the package "{{ package_name }}" is not installed
      package:
        name: "{{ package_name }}"
        state: absent

    - name: install "{{ package_name }}={{ package_version }}"
      package:
        name: "{{ package_name }}={{ package_version }}"
        state: "{{ package_state }}"
        become: yes

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

    - name: restart nginx
      service:
        name: nginx
        state: restarted
~
~
"task4.yaml" 35L, 796B

```