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Lab 2

1. Write your first playbook file
2. Stop gather_facts and update cache
3. Update cache

```
- name: play1
  gather_facts: false
  hosts: all
  tasks:
    - name: updating pkm
      apt:
        update_cache: true
```

```
seif@seif-Alienware-17-R5:~/Documents/Ansible/Day01$ ansible-playbook iti-playbook.yml
BECOME password:

PLAY [play1] *****

TASK [updating pkm] *****
changed: [172.17.0.2]

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

seif@seif-Alienware-17-R5:~/Documents/Ansible/Day01$
```

4. Install latest nginx

```
- name: play1
  gather_facts: false
  hosts: all
  tasks:
    - name: updating nginx
      apt:
        name: nginx
        state:
          latest
```

```
seif@seif-Alienware-17-R5:~/Documents/Ansible/Day01$ ansible-playbook iti-playbook.yml
BECOME password:

PLAY [play1] *****

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

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

5. Copy index.html from controller to host 1

```
1$ echo "Hello From Seif Hendawy, DevOps Engineer" > index.html
1$
```

```
- name: Copy index.html from controller to host
  copy:
    src: /home/seif/Documents/Ansible/Day01/index.html
    dest: /var/www/html/index.html
    remote_user: ansibleusr
```

```
seif@seif-Alienware-17-R5:~/Documents/Ansible/Day01$ ansible-playbook iti-playbook.yml
BECOME password:

PLAY [play1] *****

TASK [Copy index.html from controller to host] *****
changed: [172.17.0.2]

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

6. Restart nginx service

```
- name: Restart Nginx service
  ansible.builtin.sysvinit:
    name: nginx
    state: restarted
```

```
seif@seif-Alienware-17-R5:~/Documents/Ansible/Day01$ ansible-playbook iti-playbook.yml
BECOME password:

PLAY [play1] *****

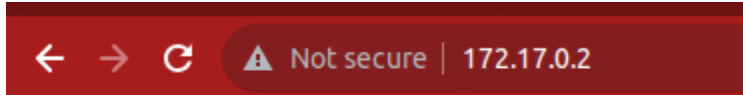
TASK [Installing Nginx] *****
ok: [172.17.0.2]

TASK [Copy index.html from controller to host] *****
ok: [172.17.0.2]

TASK [Restart Nginx service] *****
changed: [172.17.0.2]

PLAY RECAP *****
172.17.0.2      : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

7. Can you see your index.html file when you hit host 1 on port 80



Hello From Seif Hendawy, DevOps Engineer

8. Write simple playbook file
9. Add two tasks (apt update – apt install nginx)
10. Add tags to first task: update
11. Add tags to second task: install

```
1  - name: play1
2    gather_facts: false
3    hosts: all
4    tasks:
5      - name: Installing Nginx
6        apt:
7          name: nginx
8          state: latest
9          tags:
10         - install
11
12     - name: Copy index.html from controller to host
13       copy:
14         src: /home/seif/Documents/Ansible/Day01/index.html
15         dest: /var/www/html/index.html
16         remote_user: ansibleusr
17         tags:
18         - copy
19
20     - name: Restart Nginx service
21       ansible.builtin.sysvinit:
22         name: nginx
23         state: restarted
24         tags:
25         - restart
26
```

```
seif@seif-Alienware-17-R5:~/Documents/Ansible/Day01$ ansible-playbook iti-playbook.yml --tags install,copy,restart
BECOME password:
```

```
PLAY [play1] *****
TASK [Installing Nginx] *****
ok: [172.17.0.2]
TASK [Copy index.html from controller to host] *****
ok: [172.17.0.2]
TASK [Restart Nginx service] *****
changed: [172.17.0.2]
PLAY RECAP *****
172.17.0.2      : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

12. Run only the (apt update) task

```
- name: Copy index.html from controller to host
  copy:
    src: /home/seif/Documents/Ansible/Day01/index.html
    dest: /var/www/html/index.html
    remote_user: ansibleusr
    tags:
      - update
```

```
seif@seif-Alienware-17-R5:~/Documents/Ansible/Day01$ ansible-playbook iti-playbook.yml --tags update
BECOME password:

PLAY [play1] *****

TASK [Copy index.html from controller to host] *****
ok: [172.17.0.2]

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

13. Add one task with “tags: always” and run the previous command again

```
- name: This task always runs
  debug:
    msg: "This task always runs"
  tags:
    - always
```

```
seif@seif-Alienware-17-R5:~/Documents/Ansible/Day01$ ansible-playbook iti-playbook.yml --tags always
BECOME password:

PLAY [play1] *****

TASK [This task always runs] *****
ok: [172.17.0.2] => {
  "msg": "This task always runs"
}

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

14. Define these variables (package_name, package_version)

15. on playbook level

```
1 - name: play1
2   gather_facts: false
3   hosts: all
4   vars:
5     package_name: nginx
6     package_version: latest
7   tasks:
8     - name: Installing Nginx
9       apt:
10         name: "{{ package_name }}"
11         state: "{{ package_version }}"
12       tags:
13         - install
14
```

16. on inventory level

```
inventory x  A iti-playbook.yml
Day01 > inventory
1 [all]
2 172.17.0.2
3
4 [all:vars]
5 package_name=nginx
6 package_version=latest
```

17. on command line level

```
ansible-playbook iti-playbook.yml --extra-vars "package_name=nginx
package_version=latest"
```

18. Use apt module with the package name and version from your variables

```
BECOME password:

PLAY [play1] *****

TASK [Installing Nginx] *****
ok: [172.17.0.2]

TASK [Copy index.html from controller to host] *****
ok: [172.17.0.2]

TASK [Restart Nginx service] *****
changed: [172.17.0.2]

TASK [This task always runs] *****
ok: [172.17.0.2] => {
  "msg": "This task always runs"
}
```