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Course: Ansible - Lab3

Loop over a list of packages and install the latest versions.

```
| Sindex.html | Sinventory | Sin
```

Loop over a list of packages and use different states as per input.

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Install nginx or httpd depending on distribution Restart nginx service if distribution is ubuntu. Restart httpd service if distribution is centos.

```
    Iab3-playbook-task2.yaml

     - name: lab3 playbook - Ziad
       hosts: all
      tasks:
        - name: Install Nginx
         package:
           name: nginx
            state: latest
        when: "'ubuntu' in ansible_facts.distribution.lower()"
        - name: Install httpd (Apache)
        package:
           name: httpd
            state: latest
       when: "'centos' in ansible_facts.distribution.lower()"
       - name: Restart Nginx
         name: nginx
            state: restarted
        when: "'ubuntu' in ansible facts.distribution.lower()"
        - name: Restart httpd (Apache)
         service:
            name: httpd
            state: restarted
          when: "'centos' in ansible_facts.distribution.lower()"
```

```
F lab3-playbook-task2.yaml

1  - name: lab3 playbook - Ziad

2  | hosts: all

3  | tasks:
5  | - name: Install Nginx
6  | package:
7  | name: nginx

PROBLEMS OUTPUT DEBUGCONSOLE TERMINAL PORTS

2 tawfikeztawfik:-/Desktop/ITI/Ansible/Ansible-Labs/Lab3$ ansible-playbook lab3-playbook-task2.yaml

EECOME password:

PLAY [lab3 playbook - Ziad]

TASK [Install Nginx]
ok: [172.17.0.2]

TASK [Install Nginx]
changed: [172.17.0.2]

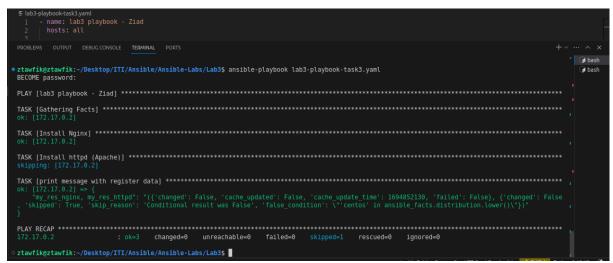
TASK [Restart Nginx]
changed: [172.17.0.2]

TASK [Restart Nginx]
changed: [172.17.0.2]
```

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View the value of your register variable using debug module



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Restart service if the installation task was changed or was not failed

```
    ■ lab3-playbook-task3.yaml

           - name: Install Nginx
            name: nginx
state: latest
             when: "'ubuntu' in ansible_facts.distribution.lower()"
         package:
| name: httpd
| state: latest
| when: "'centos' in ansi
| register: my_res_httpd
             when: "'centos' in ansible_facts.distribution.lower()"
           - name: Restart Nginx
            name: nginx
                state: restarted
               - "'ubuntu' in ansible_facts.distribution.lower()"
            - "'ubuntu' in ansible_facts.uistribuction.teme.t/
- my_res_nginx.changed == True or my_res_nginx.failed == False
           - name: Restart httpd (Apache)
             name: httpd
                state: restarted
               - "'centos' in ansible facts.distribution.lower()"
               - my_res_httpd.changed == True or my_res_httpd.failed == False
```

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Install a package *(get the package name from vars)*Copy a list of files *(index.html & file.css & file.js)* from controller to host using loop

- (get the list of file names from vars)
- (the actual files will be stored in ./your_current_directory)
- (will be defined as Handler)
- (will be triggered by step 1)

Restart the service of the installed package

- (will be defined as Handler)
- (will be triggered by step 2)

```
e ztawfik@ztawfik:-/Desktop/ITI/Ansible/Ansible-Labs/Lab3$ ansible-playbook lab3-playbook-task4.yaml

BECOME password:

TASK [Gathering Facts]
ok: [172.17.0.2]

TASK [Install the Package]
changed: [172.17.0.2]

RUNNING HANDLER [Copy Files]
changed: [172.17.0.2] ⇒ (item=./file.css)
changed: [172.17.0.2] ⇒ (item=./file.js)

RUNNING HANDLER [Restart Service]
changed: [172.17.0.2] ⇒ (item=./file.js)

PLAY RECAP

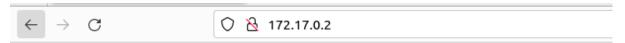
172.17.0.2 : ok=4 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

□ Ztawfik@ztawfik:~/Desktop/ITI/Ansible/Ansible-Labs/Lab3$

Ln 26,Col 28 Spaces: 2 UTF-8 LF Ansible Δ 215.4 Python 3.10.12 C
```

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Hello from ITI || Ansible-Lab-3

Ziad Tawfik

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Installing a package *(get the package name from vars)*Copying index.html from controller to host using template

- (get the template name & template message from vars)
- (the actual template file will be stored in ./your_current_directory)
- (will trigger step 4)

Copying a list of files (file.css & file.js) from controller to host using loop

- (get the list of file names from vars)
- (the actual files will be stored in ./your_current_directory)
- (will be defined as Handler)
- (will be triggered by step 1)

Restart the service of the installed package

- (will be defined as Handler)
- (will be triggered by step 3)

```
index.htmLj2
1 <h1>Hello from ITI || Ansible-Lab-3 </h1>
2 <h2> {{ template_msg }} </h2>
3 <h2>Ziad Tawfik</h2>
```

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Hello from ITI || Ansible-Lab-3

This is the task 5 in ansible lab 3 Ziad Tawfik