

1. INSTALLING A PACKAGE WITHOUT USING HANDLERS - WHEN ONLY
2. COPYING A LIST OF FILES FROM CONTROLLER TO HOST USING LOOP
3. RESTART THE SERVICE OF THE INSTALLED PACKAGE

```
Day 4 > roles > web > tasks > main.yml
1  - name: Install Latest Apache
2    package:
3      name: "{{ package_name }}"
4      state: latest
5      register: apache_install_result
6      changed_when : true
7
8  - name: CopyingFiles
9    copy:
10     src: "{{ item }}"
11     dest: "/var/www/html/{{ item }}"
12     loop: "{{ file_list }}"
13     when: apache_install_result.changed
14
15 - name: Restart Apache
16   service:
17     name: "{{ package_name }}"
18     state: restarted
19
```

```
● mohamedamr@mohamedamr:~/ansible/Day 4$ ansible-playbook iti-playbook.yml

PLAY [play1] *****

TASK [Gathering Facts] *****
ok: [52.56.166.196]

TASK [web : Install Latest Apache] *****
changed: [52.56.166.196]

TASK [web : CopyingFiles] *****
changed: [52.56.166.196] => (item=index.html)
ok: [52.56.166.196] => (item=style.css)
ok: [52.56.166.196] => (item=script.js)

TASK [web : Restart Apache] *****
changed: [52.56.166.196]

PLAY RECAP *****
52.56.166.196 : ok=4    changed=3    unreachable=0    failed=0
```

# Ansible Lab 4 - USING WHEN ONLY

1. INSTALLING A PACKAGE USING HANDLERS
2. COPYING A LIST OF FILES FROM CONTROLLER TO HOST USING LOOP
3. RESTART THE SERVICE OF THE INSTALLED PACKAGE

```
Day 4 > roles > web > tasks > main.yml
1  - name: Install Latest Apache
2    package:
3      name: "{{ package_name }}"
4      state: latest
5    notify: CopyingFiles
6    changed_when: true
```

```
Day 4 > roles > web > handlers > main.yml
1  - name: CopyingFiles
2    copy:
3      src: "{{ item }}"
4      dest: "/var/www/html/{{ item }}"
5    loop : "{{file_list}}"
6    notify: Restart Apache
7
8  - name: Restart Apache
9    service:
10     name: "{{ package_name }}"
11     state: restarted
```

```
Day 4 > roles > web > vars > main.yml
1  package_name: "apache2"
2  file_list:
3    - index.html
4    - style.css
5    - script.js
```

```
PLAY [play1] *****

TASK [Gathering Facts] *****
ok: [52.56.166.196]

TASK [web : Install Latest Apache] *****
changed: [52.56.166.196]

RUNNING HANDLER [web : CopyingFiles] *****
changed: [52.56.166.196] => (item=index.html)
ok: [52.56.166.196] => (item=style.css)
ok: [52.56.166.196] => (item=script.js)


RUNNING HANDLER [web : Restart Apache] *****
changed: [52.56.166.196]

PLAY RECAP *****
52.56.166.196 : ok=4    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```


← → ↻ ⚠ Not secure | 52.56.166.196

# Ansible Lab 4 - USING HANDLERS


1. INSTALLING A PACKAGE USING HANDLERS & TEMPLATES
2. COPYING A LIST OF FILES FROM CONTROLLER TO HOST USING LOOP
3. RESTART THE SERVICE OF THE INSTALLED PACKAGE

Day 4 >  iti-playbook.yml

```
1 ---
2 - name: play1
3   hosts: web_servers
4   roles:
5     - web
```

Day 4 > roles > web > vars >  main.yml

```
1 template_name : "html_template"
2 myMessage : "Lab 4 - TEMPLATES & HANDLERS"
3 package_name: "apache2"
4 file_list:
5   - style.css
6   - script.js
```

Day 4 > roles > web > tasks >  main.yml

```
1 - name: Install Latest Apache
2   package:
3     name: "{{ package_name }}"
4     state: latest
5   notify: "{{ template_name }}"
6   changed_when: true
```

```

Day 4 > roles > web > handlers > main.yml
1  - name: "{{ template_name }}"
2    template:
3      src: index.html.j2
4      dest: "/var/www/html/index.html"
5      notify: CopyingFiles
6
7  - name: CopyingFiles
8    copy:
9      src: "{{ item }}"
10     dest: "/var/www/html/{{ item }}"
11     loop: "{{ file_list }}"
12     notify: Restart Apache
13
14  - name: Restart Apache
15    service:
16      name: "{{ package_name }}"
17      state: restarted

```

```

Day 4 > roles > web > templates > index.html.j2
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>ANSIBLE LAB 4</title>
7
8    <!-- Link to your CSS file -->
9    <link rel="stylesheet" type="text/css" href="style.css">
10
11    <!-- Include your JavaScript file -->
12    <script src="script.js"></script>
13  </head>
14  <body>
15    <h1>{{ myMessage }}</h1>
16  </body>
17  </html>

```

```

● mohamedamr@mohamedamr:~/ansible/Day 4$ ansible-playbook iti-playbook.yml

```

```

PLAY [play1] *****

TASK [Gathering Facts] *****
ok: [52.56.166.196]

TASK [web : Install Latest Apache] *****
changed: [52.56.166.196]

RUNNING HANDLER [web : html_template] *****
changed: [52.56.166.196]

RUNNING HANDLER [web : CopyingFiles] *****
ok: [52.56.166.196] => (item=style.css)
ok: [52.56.166.196] => (item=script.js)

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

```

← → ↻ ⚠ Not secure | 52.56.166.196

## Lab 4 - TEMPLATES & HANDLERS