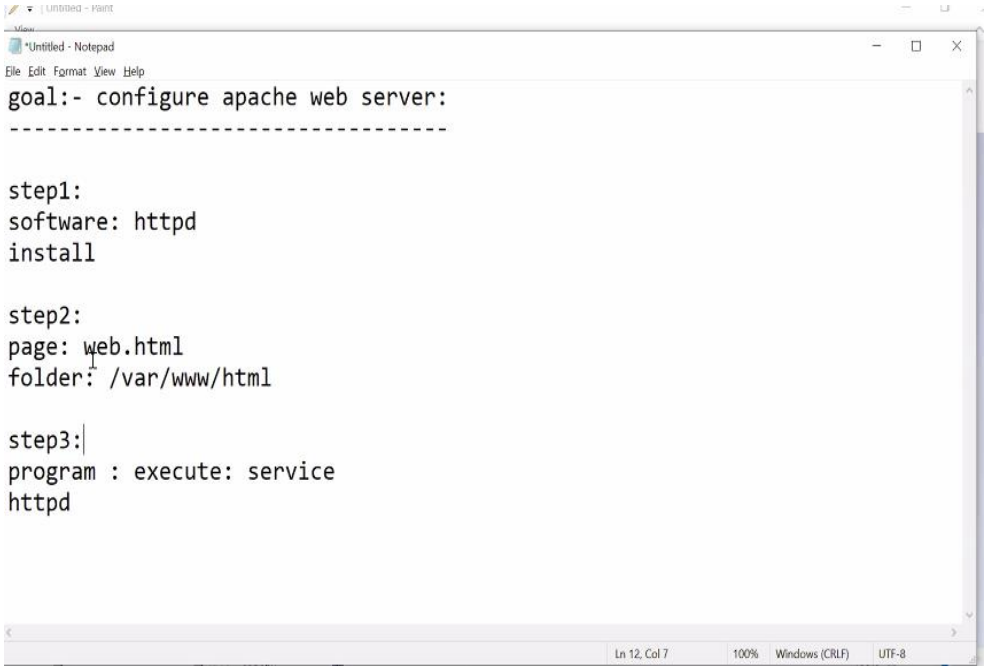
AIM: To configure Apache Web Server with Ansible.

## 1. *Create a goal and step by step process:*




## 2. *Installing httpd in TN via ansible*

### a. *Checking the networking with TN.*

### b.

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```
[root@localhost ~]# ansible all -m package -a "name=httpd  state=present"
192.168.0.108 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/libexec/platform-python"
    },
    "changed": false,
    "msg": "Nothing to do",
    "rc": 0,
    "results": []
}
```

***By chance, httpd package was already there in TN:***

```
[root@localhost html]# rpm -q httpd
httpd-2.4.37-10.module+el8+2764+7127e69e.x86_64
```

***"changed" : false  => software is already there, and the message will come in green colour, else in yellow. This is also known as Current State.***

***Else:***

```
[root@localhost ~]# ansible all -m package -a "name=httpd state=present"
192.168.0.162 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/libexec/platform-python"
    },
    "changed": true,
    "msg": "",
    "rc": 0,
    "results": [
        "Installed: httpd-tools-2.4.37-10.module+el8+2764+7127e69e.x86_64",
        "Installed: apr-util-openssl-1.6.1-6.el8.x86_64",
        "Installed: httpd-2.4.37-10.module+el8+2764+7127e69e.x86_64",
        "Installed: mod_http2-1.11.3-1.module+el8+2443+605475b7.x86_64",
        "Installed: httpd-filesystem-2.4.37-10.module+el8+2764+7127e69e.noarch",
        "Installed: apr-1.6.3-9.el8.x86_64",
        "Installed: redhat-logos-httpd-80.7-1.el8.noarch",
        "Installed: apr-util-1.6.1-6.el8.x86_64",
        "Installed: apr-util-bdb-1.6.1-6.el8.x86_64"
    ]
}
[root@localhost ~]#
```

***"changed" : true => package httpd was not present in CN , so Ansible installed it.***

***This is also known as Desired State. And this also implies that Ansible works on the concept of Idempotence.***

***NOTE: if something comes up in red colour, then some error is there in command.***

3. ***Vim web.html :*** ***Making a html file in CN: web.html having the text " well done user"***

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### *a. Checking in TN: cd /var/www/html : web.html is not present*

```
[root@localhost ~]# cd /var/www/html
[root@localhost html]# ls
add.html     date.hm    drun.html  jack.html  my.html
client.html  date.html  in.html    lw.html
```

### *b. Sending the file from CN*

```
[root@localhost ~]# ansible all -m copy -a "src=web.html dest=/var/www/html"
192.168.0.108 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/libexec/platform-python"
    },
    "changed": true,
    "checksum": "977ce08fca2b3c94dfbb5c5395fc1cfaa7279ddb",
    "dest": "/var/www/html/web.html",
    "gid": 0,
    "group": "root",
    "md5sum": "fa20b7281ec0207b4f62272461f10c6e",
    "mode": "0644",
    "owner": "root",
    "secontext": "system_u:object_r:httpd_sys_content_t:s0",
    "size": 16,
    "src": "/root/.ansible/tmp/ansible-tmp-1604595214.421097-3709-22346373731410
4/source",
    "state": "file",
    "uid": 0
}
[root@localhost ~]#
```

### *c. Checking again in CN:*

```
[root@localhost html]# ls
add.html     date.hm    drun.html  jack.html  my.html
client.html  date.html  in.html    lw.html    web.html
[root@localhost html]#
```

## *4. Starting the httpd:*

```
[root@localhost ~]# ansible all -m service -a "name=httpd state=started"
192.168.0.108 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/libexec/platform-python"
    },
    "changed": true,
    "name": "httpd",
    "state": "started",
    "status": {
        "ActiveEnterTimestampMonotonic": "0",
        "ActiveExitTimestampMonotonic": "0",
        "ActiveState": "inactive",
        "After": "network.target system.slice systemd-tmpfiles-setup.service -.m
ount sysinit.target nss-lookup.target httpd-init.service remote-fs.target system
d-journald.socket basic.target tmp.mount",
```

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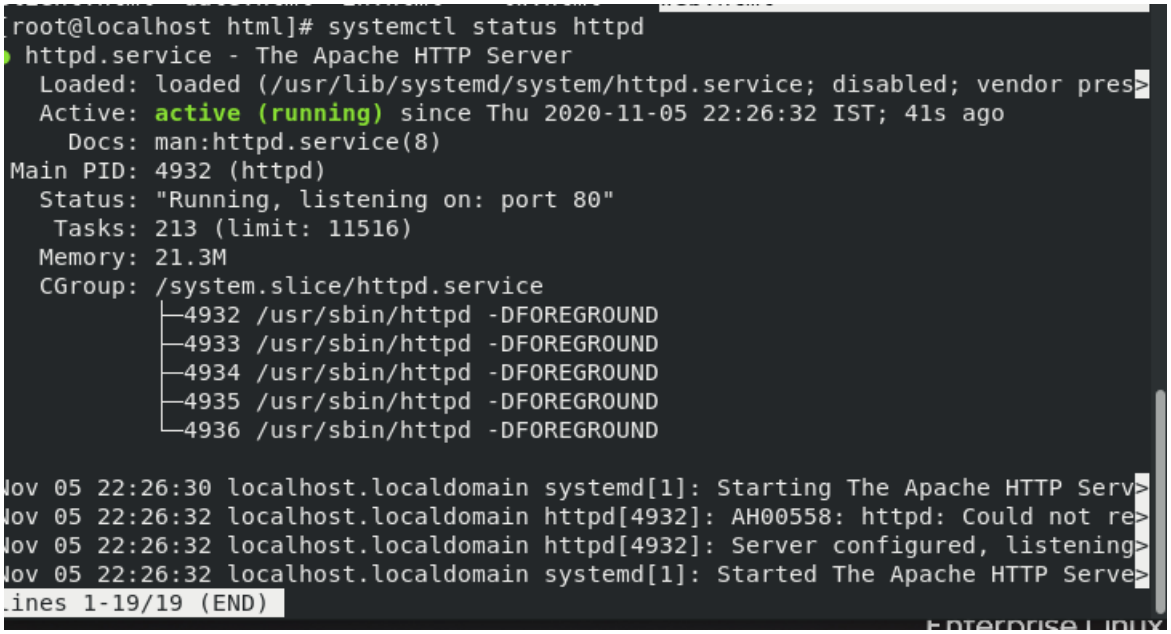
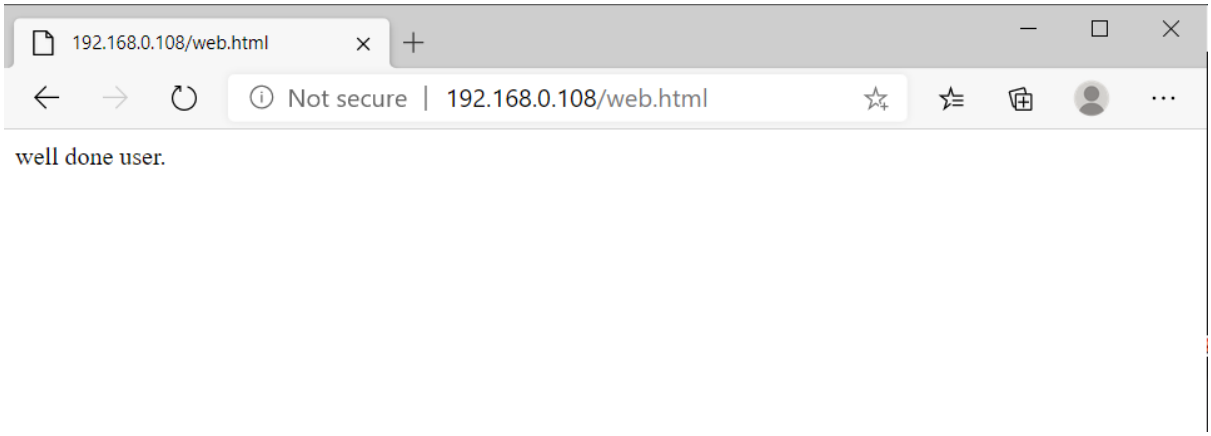
***Checking in TN:***




***Successfully configured.***