

Changing port number using Ansible:

So, we all know that **httpd works on port number 80** and has the **default directory var/www/html**

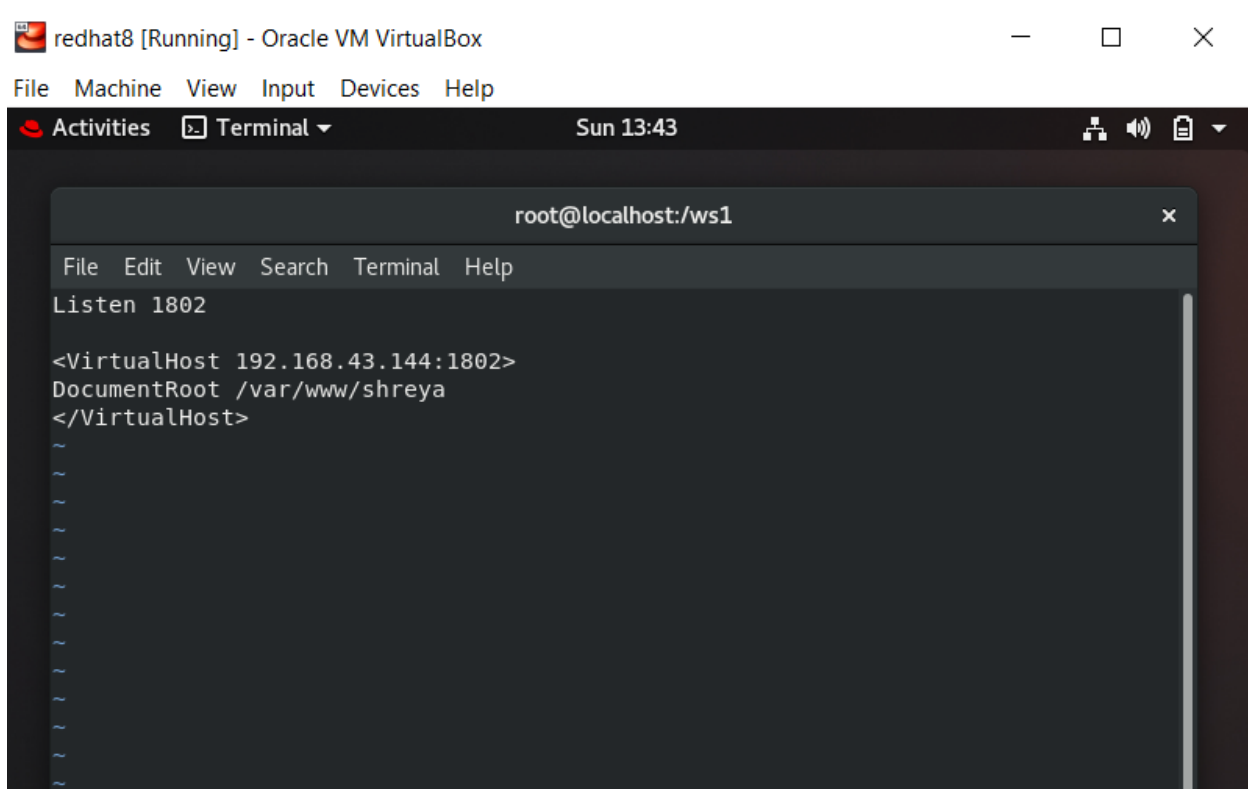
So, today, we shall change the **port number to 1802** and **directory to /var/www/shreya**. For doing these changes we need to do some changes in the configuration file.

On the control node, we create a configuration file named **ans.conf** and write the following lines.

Listen 1802 (new port number will be 1802)

<VirtualHost 192.168.43.144:1802> (Ip of the target node where we want to do the changes and the new port number)

DocumentRoot /var/www/shreya (path of the new directory)

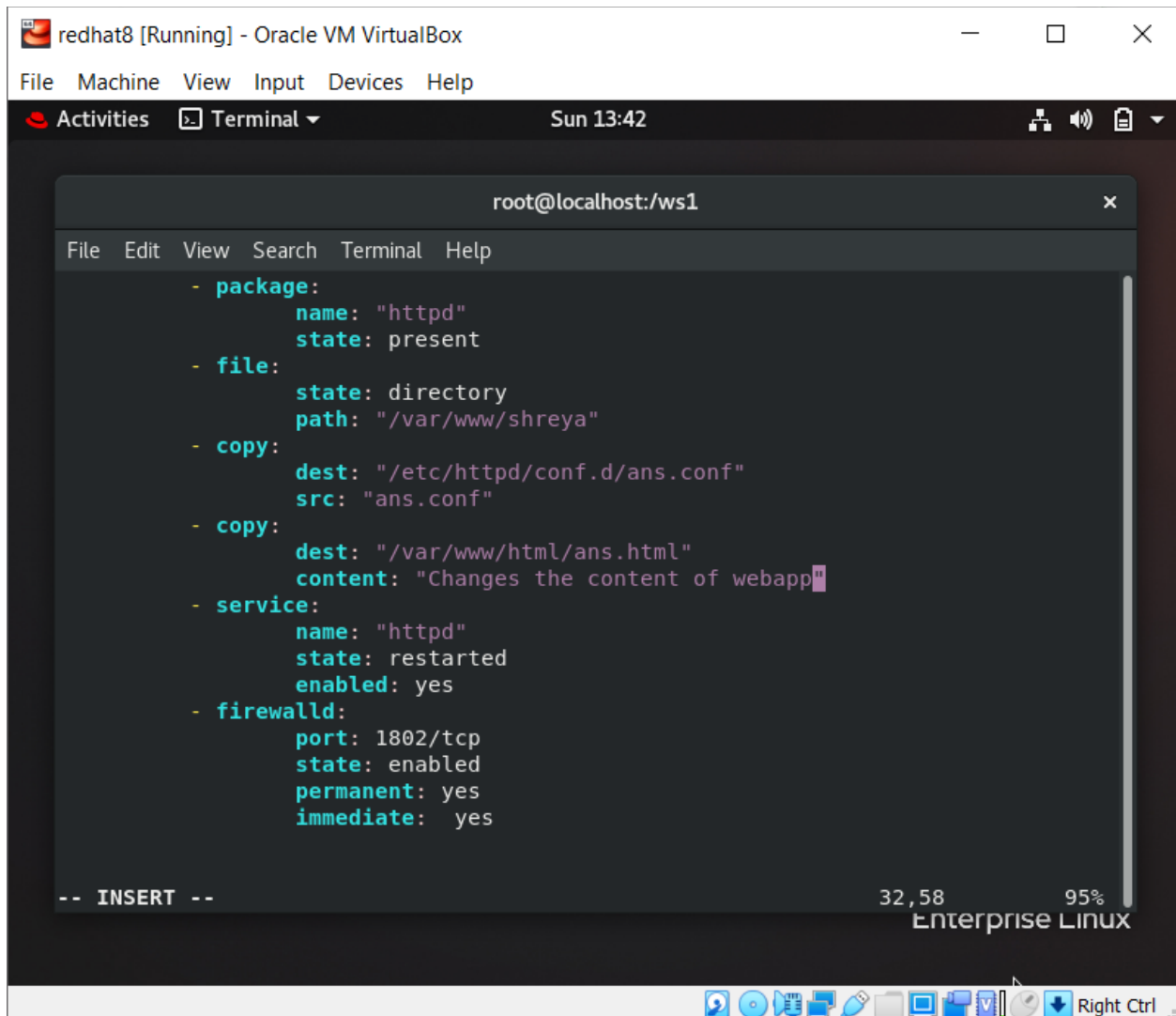


The screenshot shows a terminal window titled "redhat8 [Running] - Oracle VM VirtualBox". The terminal is running as root on localhost. The configuration being entered is as follows:

```
root@localhost:~#  
File Edit View Search Terminal Help  
Listen 1802  
  
<VirtualHost 192.168.43.144:1802>  
DocumentRoot /var/www/shreya  
</VirtualHost>
```

After doing the changes in the configuration file, we shall write the playbook.

- Package module installs and configures httpd
- File module creates a directory of the name shreya
- Copy module copies the new configuration file i.e. ans.conf in the target node
- Copy module copies the content that we need to be displayed on the browser.
- Service module starts the service of httpd
- Firewall allows the new port number.



The screenshot shows a terminal window titled "redhat8 [Running] - Oracle VM VirtualBox". The terminal is running an Ansible playbook. The playbook content is as follows:

```
root@localhost:/ws1
File Edit View Search Terminal Help
- package:
  name: "httpd"
  state: present
- file:
  state: directory
  path: "/var/www/shreya"
- copy:
  dest: "/etc/httpd/conf.d/ans.conf"
  src: "ans.conf"
- copy:
  dest: "/var/www/html/ans.html"
  content: "Changes the content of webapp"
- service:
  name: "httpd"
  state: restarted
  enabled: yes
- firewall:
  port: 1802/tcp
  state: enabled
  permanent: yes
  immediate: yes

-- INSERT --
32,58 95%
Enterprise Linux
```

The terminal window also shows a taskbar at the bottom with various icons and a "Right Ctrl" button.

Run the playbook on the control node. After playing it, go to the target node just to verify if the changes have been made. However, there is no need to do it.

```
TASK [package] *****
ok: [192.168.43.144]

TASK [file] *****
ok: [192.168.43.144]

TASK [copy] *****
ok: [192.168.43.144]

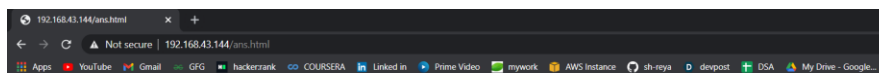
TASK [copy] *****
changed: [192.168.43.144]

TASK [service] *****
changed: [192.168.43.144]

TASK [firewalld] *****
ok: [192.168.43.144]

PLAY RECAP *****
192.168.43.144 : ok=11  changed=2  unreachable=0  failed=0  s
kipped=0  rescued=0  ignored=0
```

We have written everything on the control node, but our target node is successfully running httpd on port number 1802. To verify that, go to the browser, write the ip of the target node and the file name.



Changes the content of webapp

```
5527/tcp6
tcp6      0      0 :::1802
6279/httpd
tcp6      0      0 :::111
1/systemd
tcp6      0      0 :::80
6279/httpd
```

On the target node, use `netstat -tnlp` to see that httpd is running on port number 1802 and 80 both