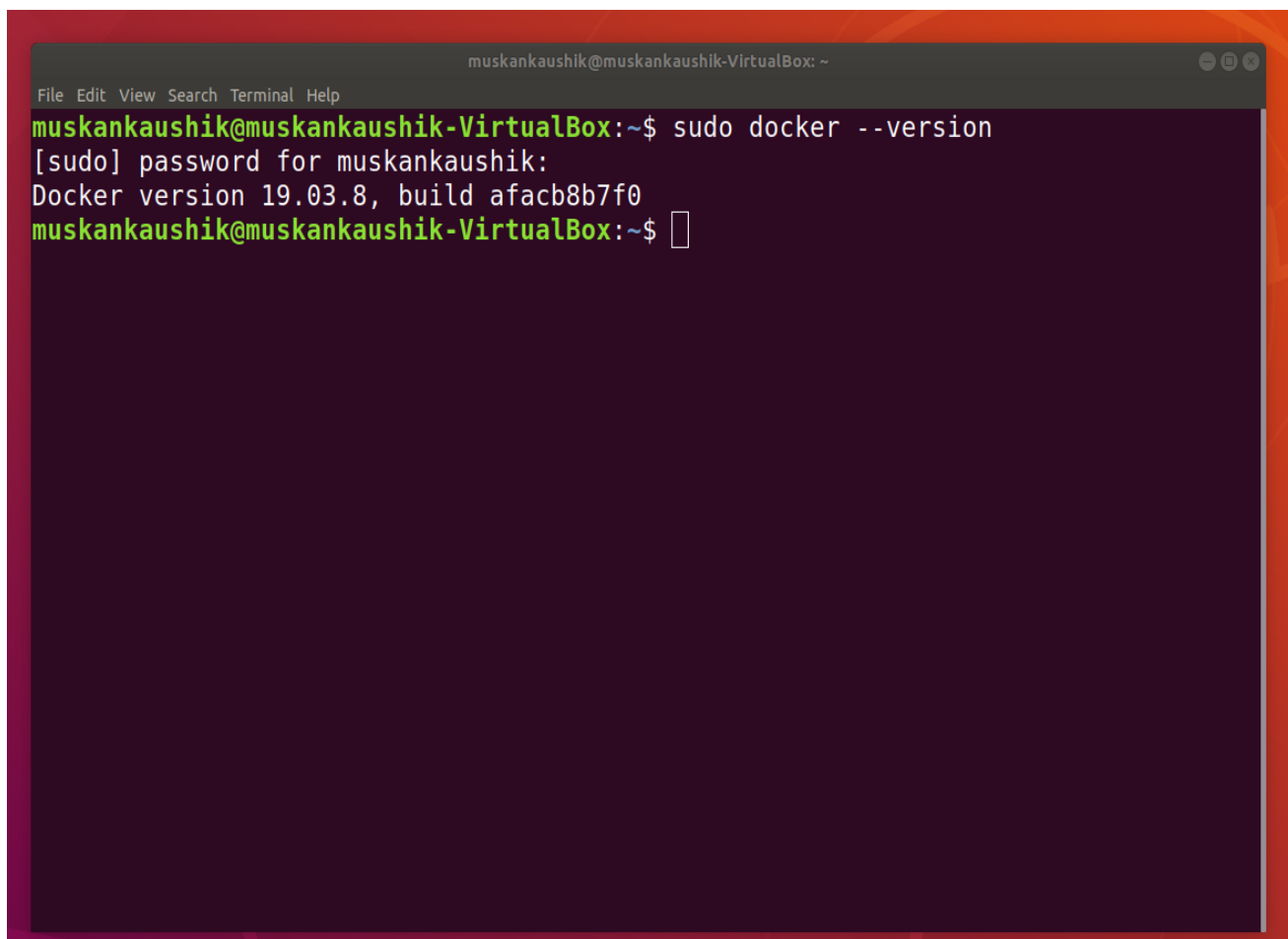


# VIRTUALIZATION LAB 2

## TASK 1:

- Installing docker CE on Linux Virtual Machine.
- Verifying the installation of doctor by checking doctor version.
- Running hello-world container.

A terminal window titled 'muskankaushik@muskankaushik-VirtualBox: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The prompt is 'muskankaushik@muskankaushik-VirtualBox:~\$'. The command 'sudo docker --version' is entered. The output is '[sudo] password for muskankaushik: Docker version 19.03.8, build afacb8b7f0'. The prompt returns to 'muskankaushik@muskankaushik-VirtualBox:~\$' with a cursor.

```
muskankaushik@muskankaushik-VirtualBox: ~  
File Edit View Search Terminal Help  
muskankaushik@muskankaushik-VirtualBox:~$ sudo docker --version  
[sudo] password for muskankaushik:  
Docker version 19.03.8, build afacb8b7f0  
muskankaushik@muskankaushik-VirtualBox:~$
```

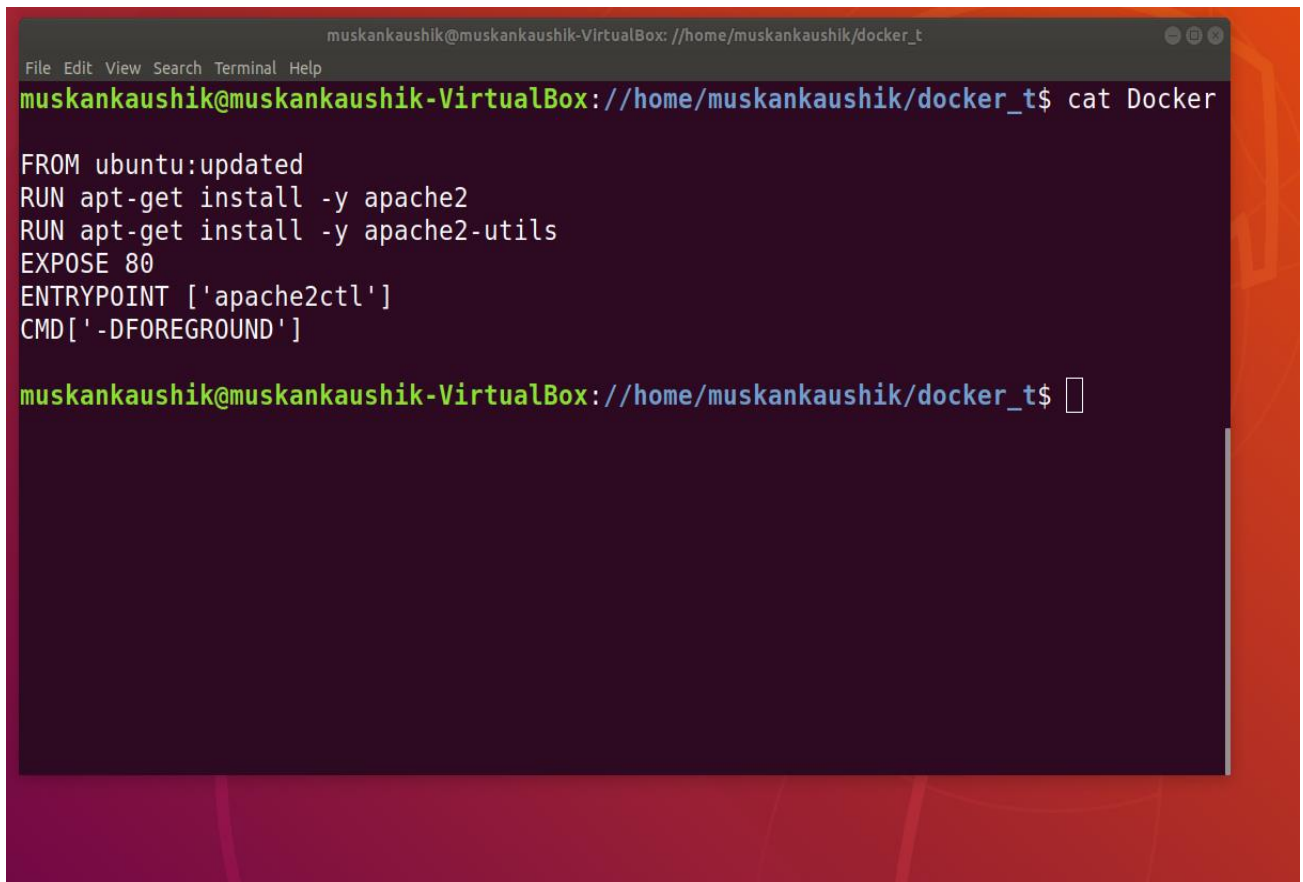
Figure verifying doctor installation by checking docker version

```
muskankaushik@muskankaushik-VirtualBox: ~  
File Edit View Search Terminal Help  
Status: Downloaded newer image for hello-world:latest  
  
Hello from Docker!  
This message shows that your installation appears to be working correctly.  
  
To generate this message, Docker took the following steps:  
1. The Docker client contacted the Docker daemon.  
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.  
   (amd64)  
3. The Docker daemon created a new container from that image which runs the  
   executable that produces the output you are currently reading.  
4. The Docker daemon streamed that output to the Docker client, which sent it  
   to your terminal.  
  
To try something more ambitious, you can run an Ubuntu container with:  
$ docker run -it ubuntu bash  
  
Share images, automate workflows, and more with a free Docker ID:  
https://hub.docker.com/  
  
For more examples and ideas, visit:  
https://docs.docker.com/get-started/  
  
muskankaushik@muskankaushik-VirtualBox:~$
```

Figure running docker hello-world container

## TASK 2:

- Creating a docker file and showing the content of Dockerfile.

A screenshot of a terminal window with a dark background and light-colored text. The window title bar at the top reads "muskankaushik@muskankaushik-VirtualBox: //home/muskankaushik/docker\_t". Below the title bar is a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal shows the command "cat Docker" being executed. The output of the command is a Dockerfile with the following content: "FROM ubuntu:updated", "RUN apt-get install -y apache2", "RUN apt-get install -y apache2-utils", "EXPOSE 80", "ENTRYPOINT ['apache2ctl']", and "CMD ['-DFOREGROUND']". The prompt "muskankaushik@muskankaushik-VirtualBox: //home/muskankaushik/docker\_t\$" is visible at the bottom of the terminal, followed by a cursor.

```
muskankaushik@muskankaushik-VirtualBox: //home/muskankaushik/docker_t
File Edit View Search Terminal Help
muskankaushik@muskankaushik-VirtualBox: //home/muskankaushik/docker_t$ cat Docker

FROM ubuntu:updated
RUN apt-get install -y apache2
RUN apt-get install -y apache2-utils
EXPOSE 80
ENTRYPOINT ['apache2ctl']
CMD ['-DFOREGROUND']

muskankaushik@muskankaushik-VirtualBox: //home/muskankaushik/docker_t$
```

Figure showing Dockerfile content

- Building the container and verifying the installation of web server container.

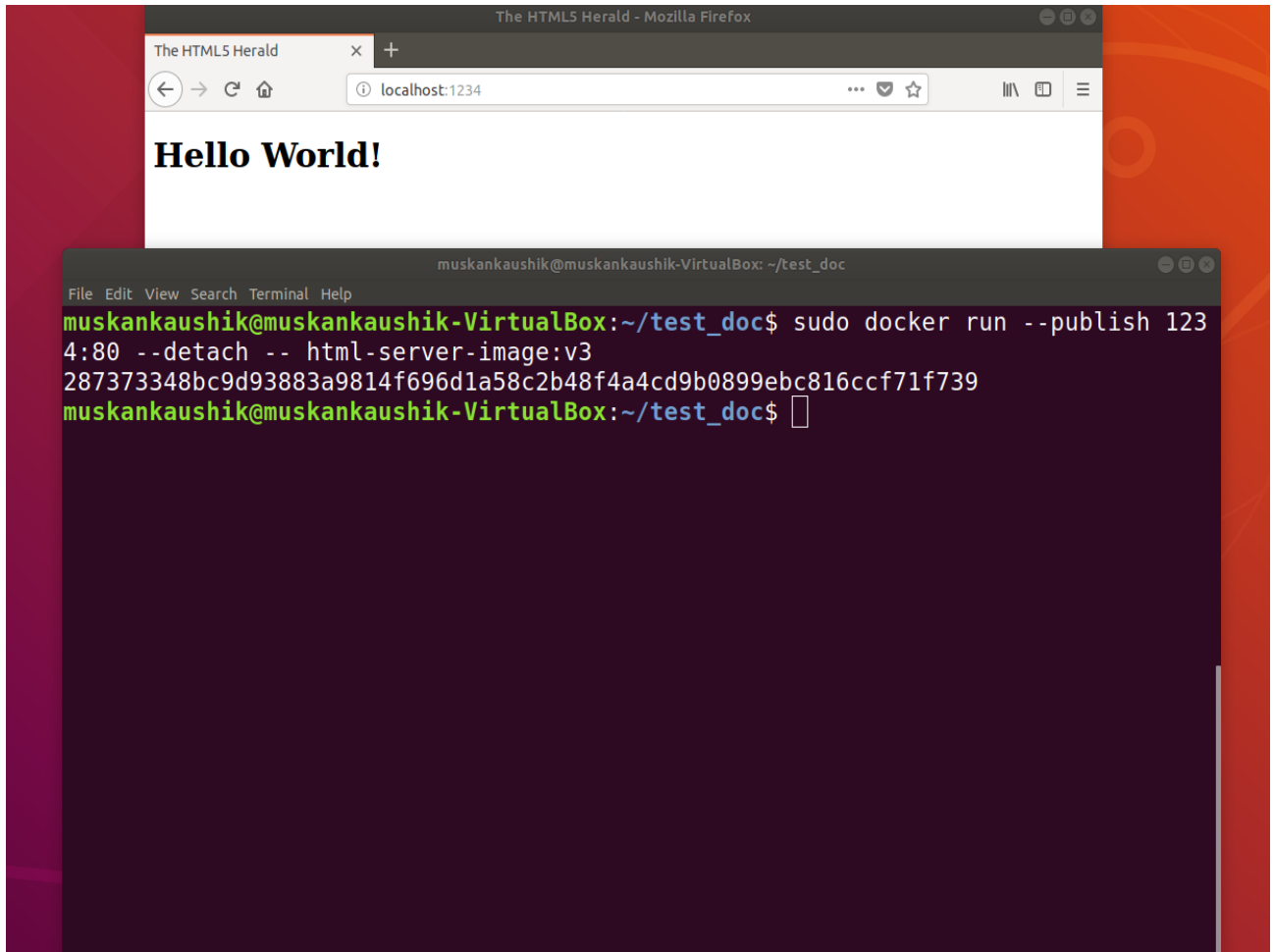


Figure showing access to web server from different VM.

### TASK 3 :

- Creating the page that maintains the number of hit count of the web server.

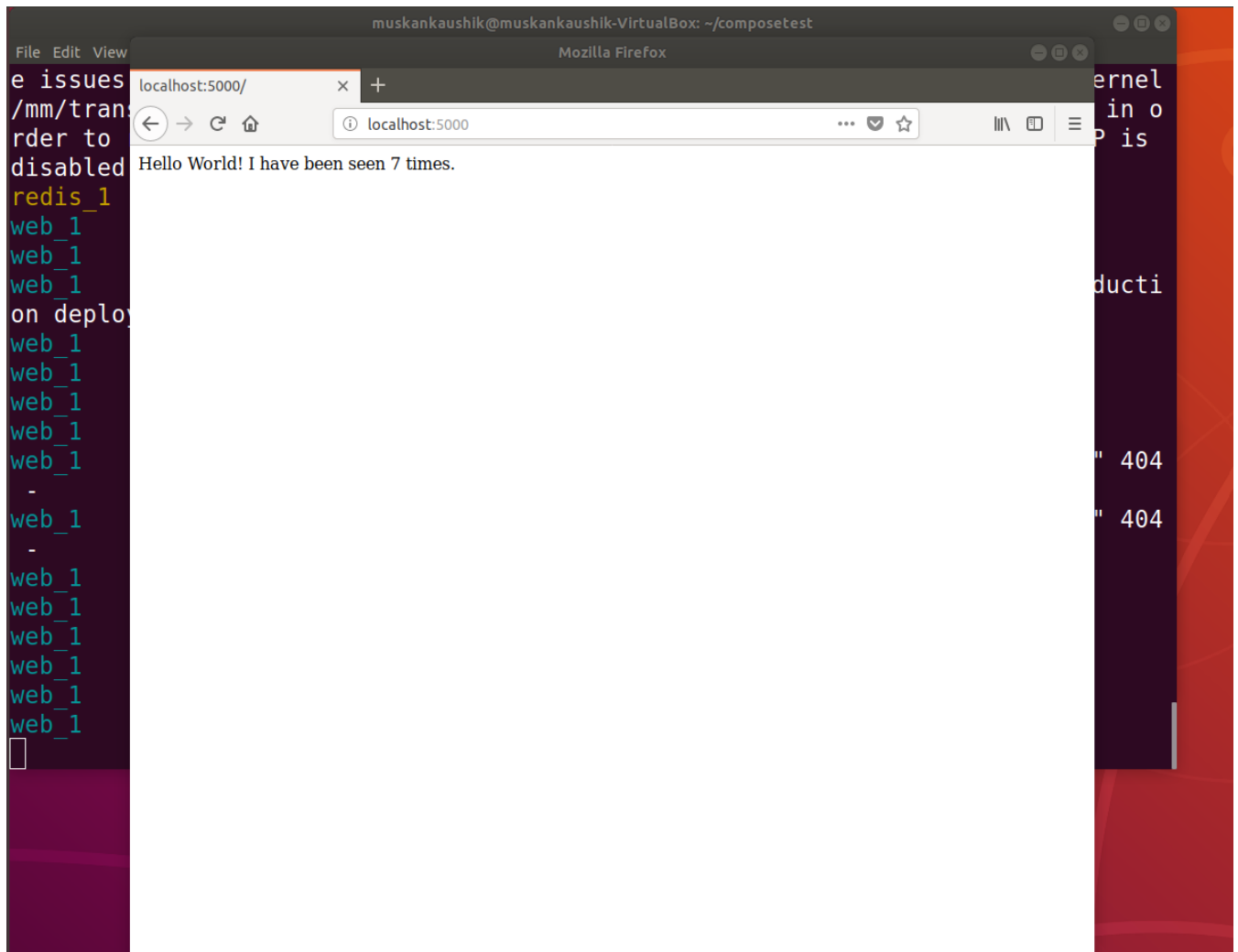


Figure showing hit count of web server.