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**Vagrant virtual box having private and public network which can be accessed from local machine**

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#Date: 11/3/2021

To have a private and public network accessible from our local machine in the Vagrant virtual box, we must perform the following:

**Step 1**: Configure both private and public network for vagrant box.

We need to make a few changes to the vagrant file, as shown below, to configure both the private and public networks.

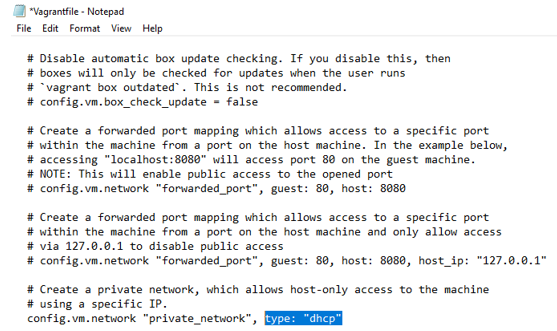


Figure 1: Configuring private network for vagrant box

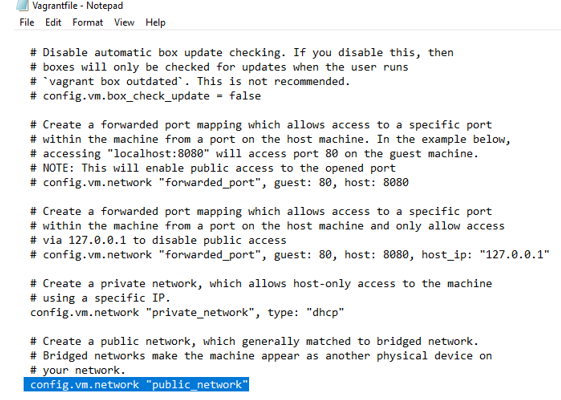


Figure 2: Configuring public network for vagrant box

**Step 2**: Install apache and ngnix web server both at same time with different port and must run on background and also restart if there is any process failure.

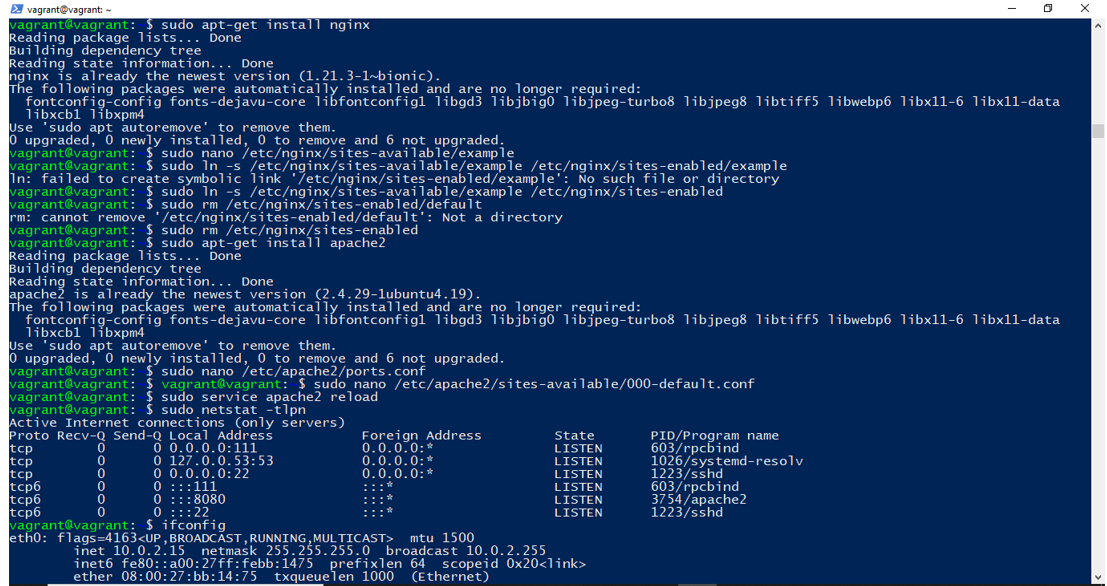


Figure 3: Insallation of apache and nginx

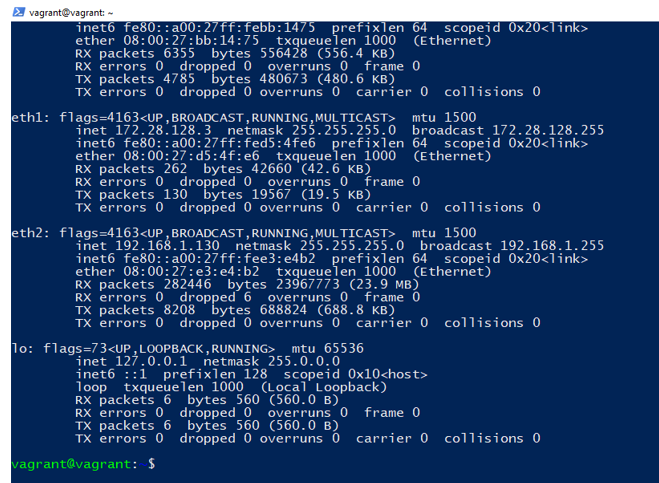


Figure 4: ifconfig

We need to give distinct ports to apache and nginx in order to run them both at the same time. Inside these followings, we need to do certain changes.

* /etc/nginx/sites-available/example
* /etc/apache2/ports.conf
* /etc/apache2/sites-available/000-default.conf



Figure 5: /etc/nginx/sites-available/example

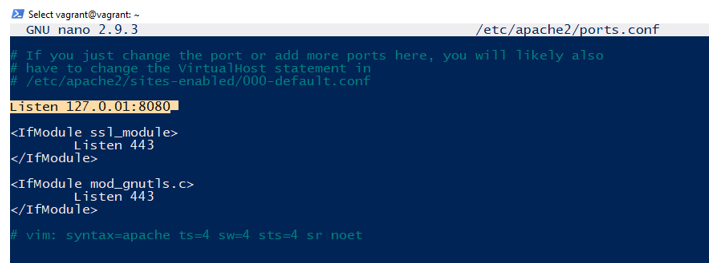


Figure 6: /etc/apache2/ports.conf

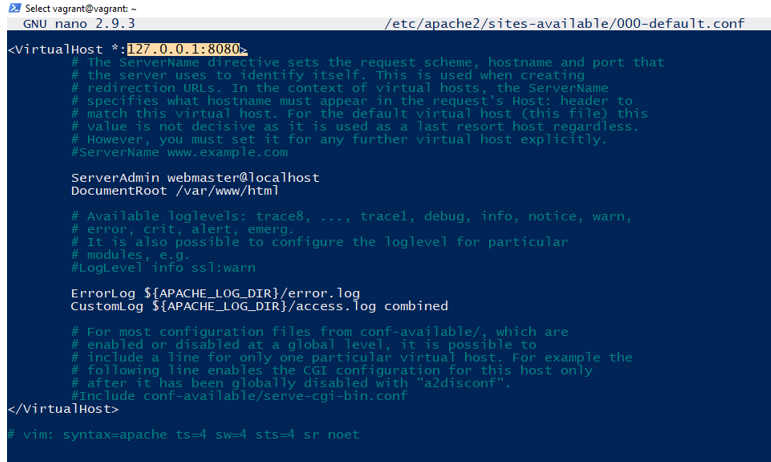


Figure 7:/etc/apache2/ports.conf

**Step 3**: Checking the status if it is running or not from systemmd.

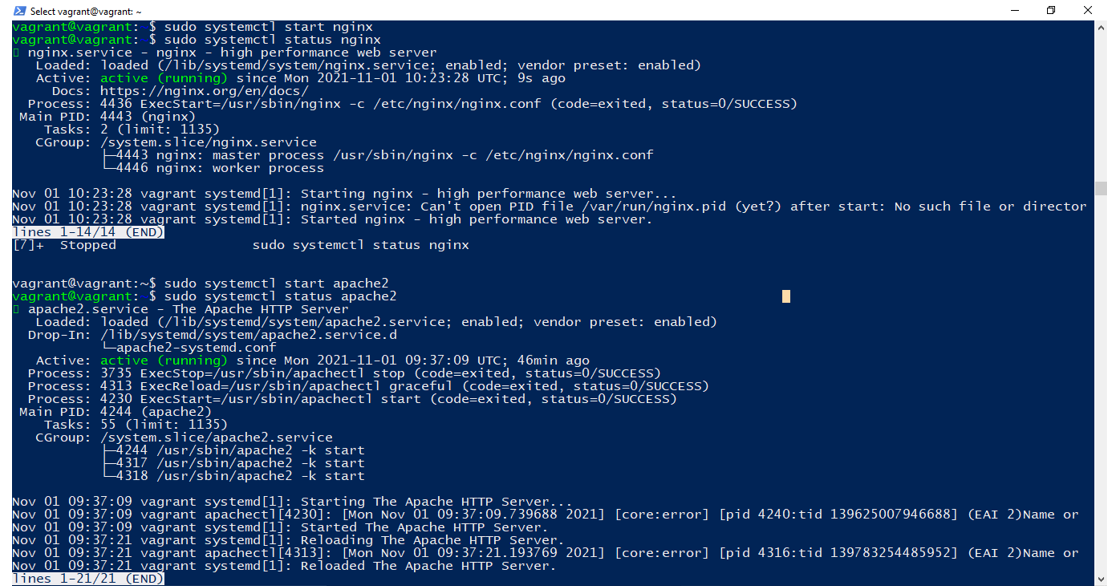


Figure 8: Running both apache and nginx at same time with different port

**Step 4**: Install mysql database in vagrant box and configure a user and password for a specific user and pwd.

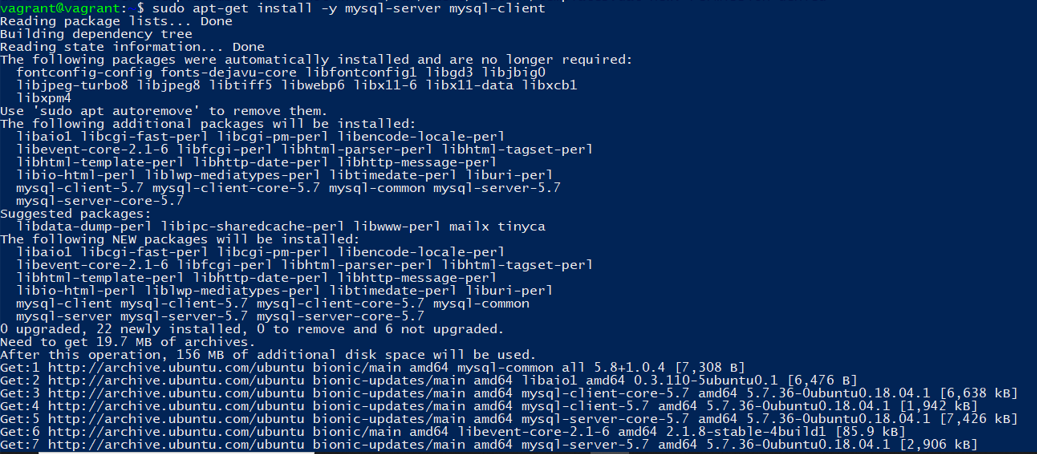


Figure 9: Installing mysql database

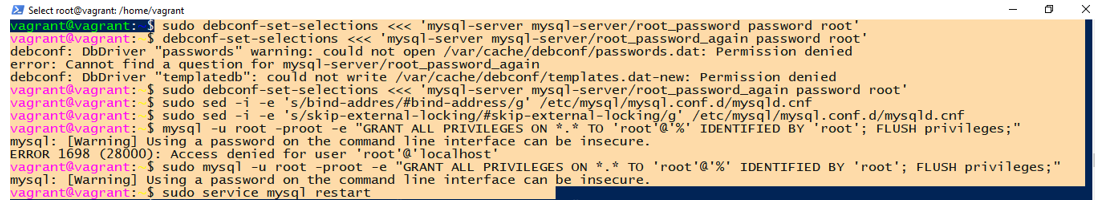


Figure 10: Grant Permissions

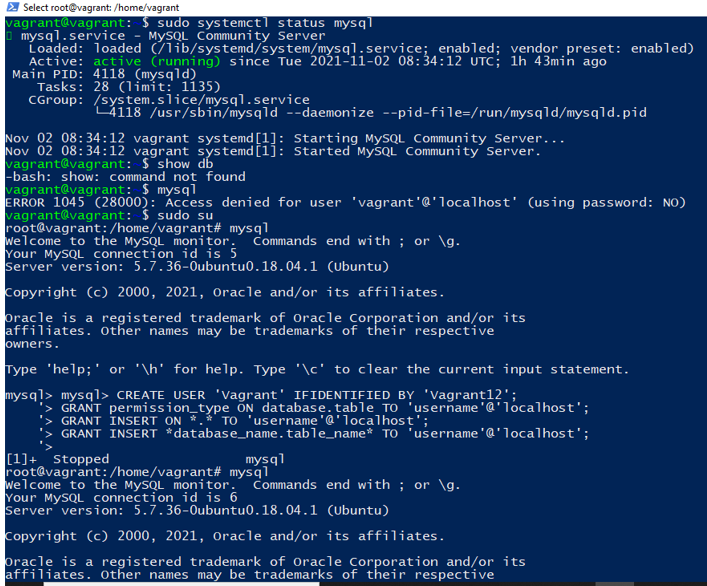


Figure 11: Running mysql database

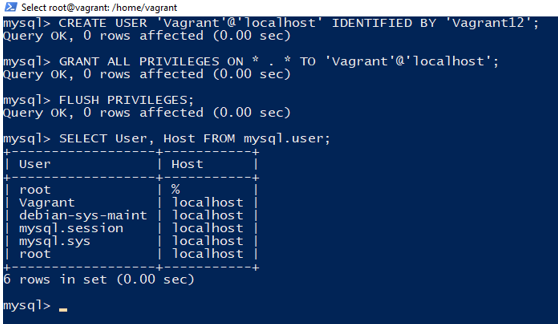


Figure 12: Configuring a user and password for a specific user and pwd.

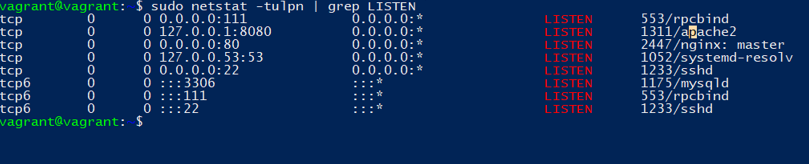


Figure : Port checking