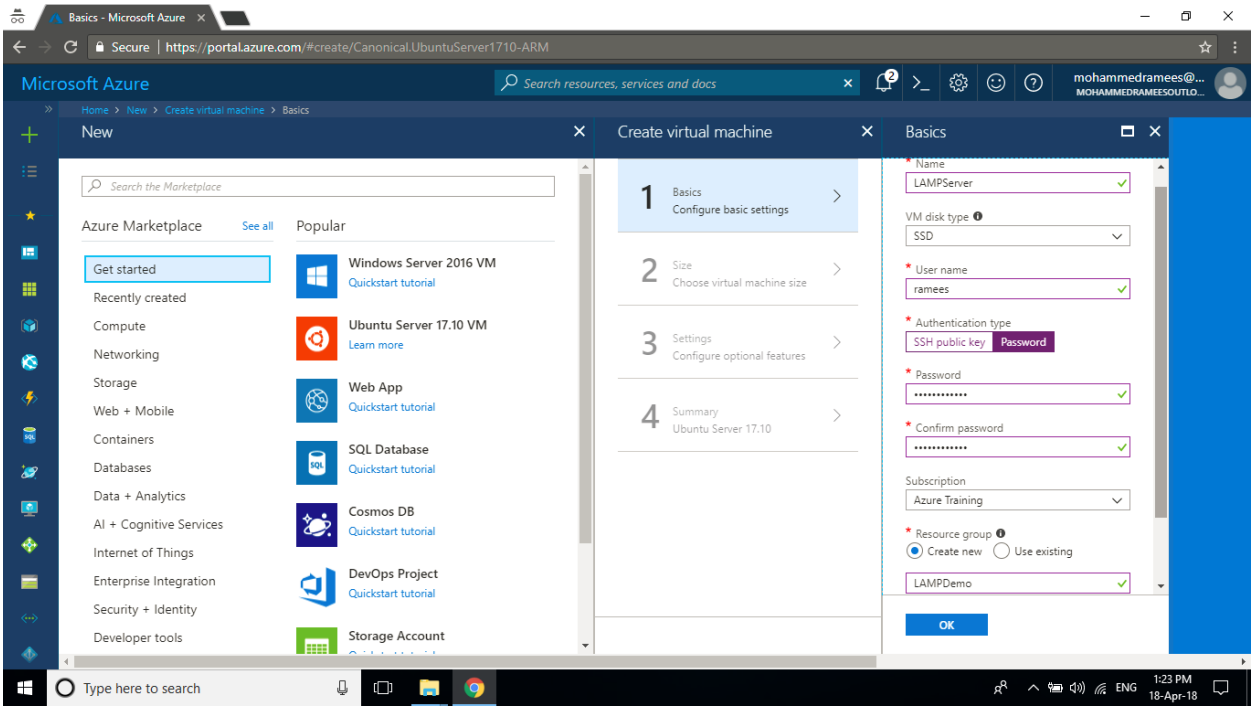
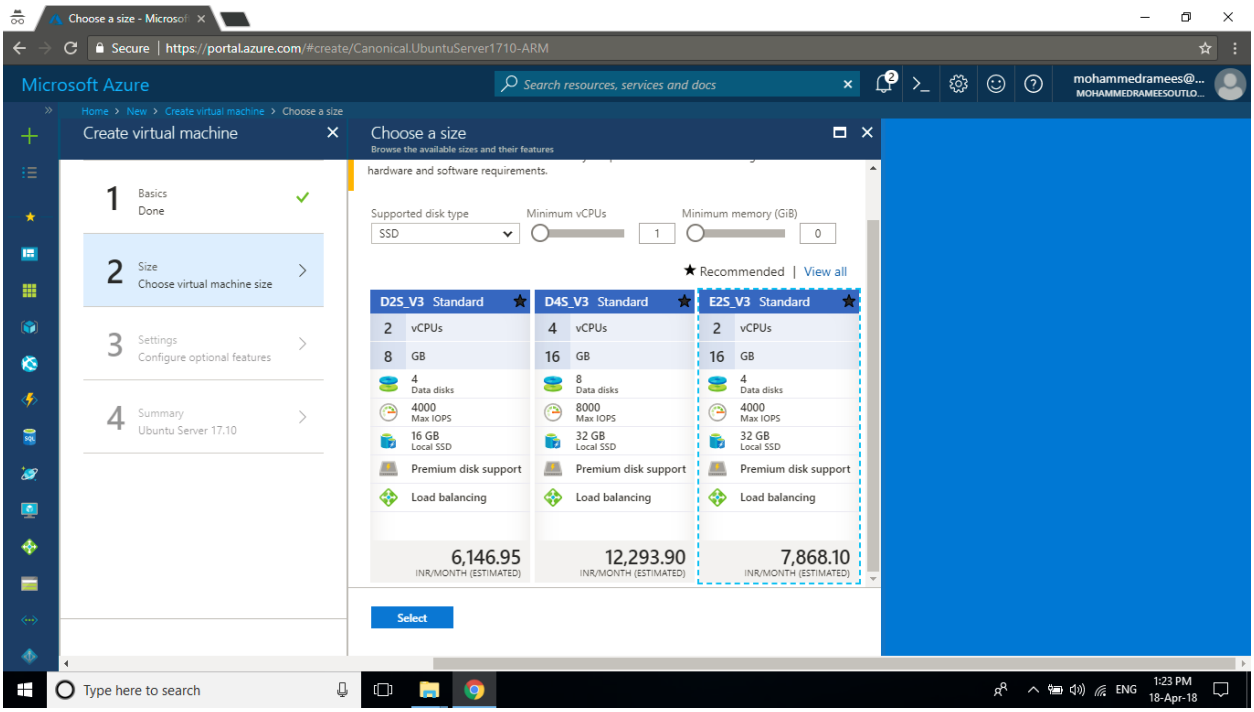
Configuring a LAMP Server

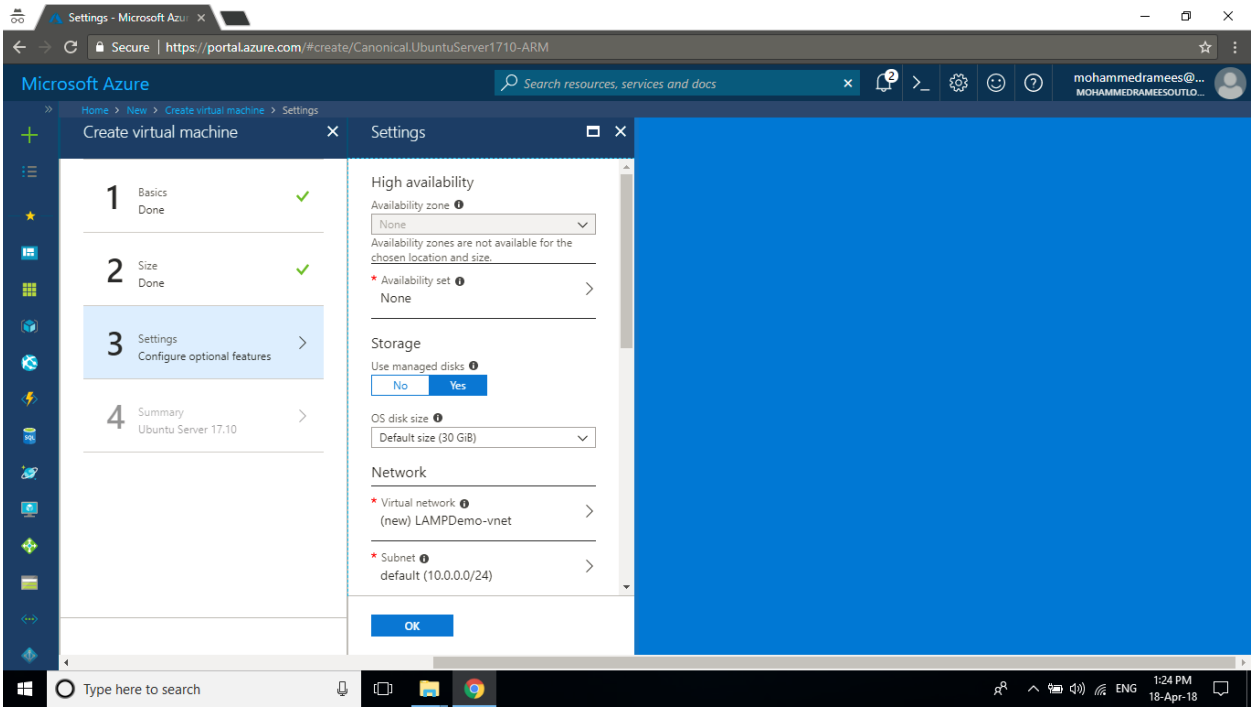
Step 1: Create a new **Ubuntu Server** from compute category. Fill the necessary details like **Name**, **Disk Type**(SSD/HDD), **Username** and **Password** for login credentials, **Subscription** (if you have multiple), **Location** and put the associated resources in a new **Resource Group**



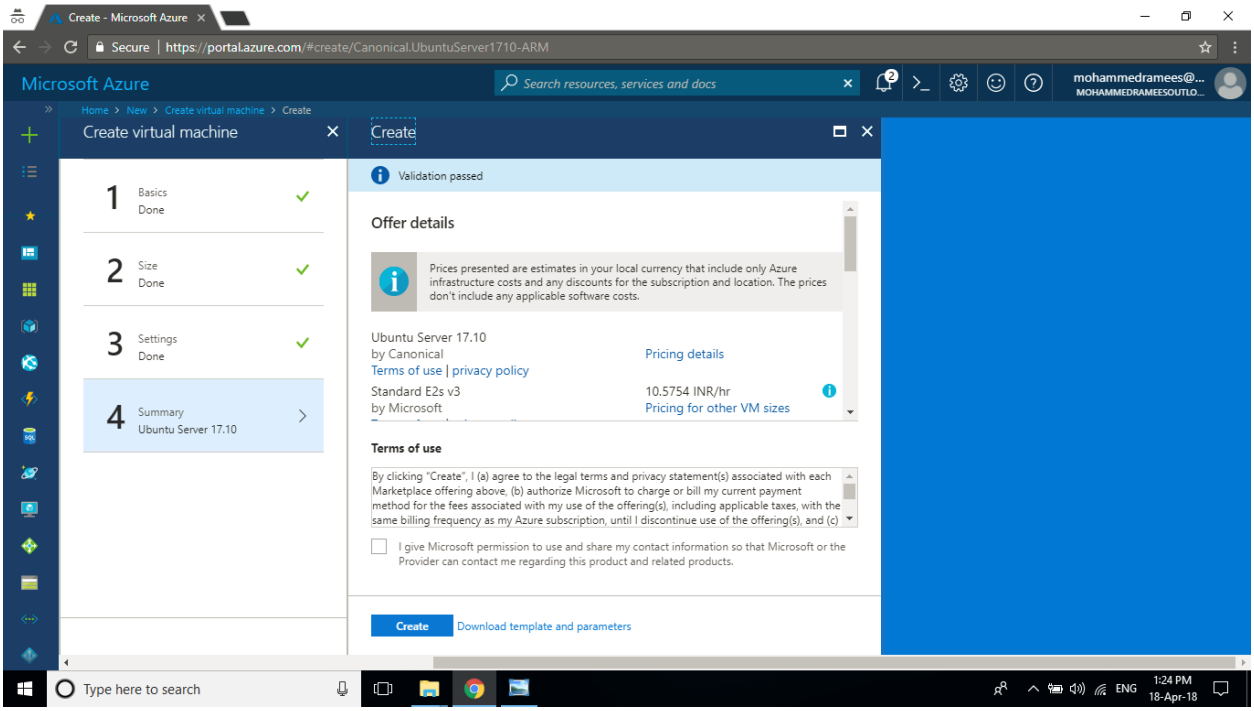
Step 2: In the second step select the **Size** of the required VM as per your business requirements. You can see what each size offers and how much it costs per month for the same.



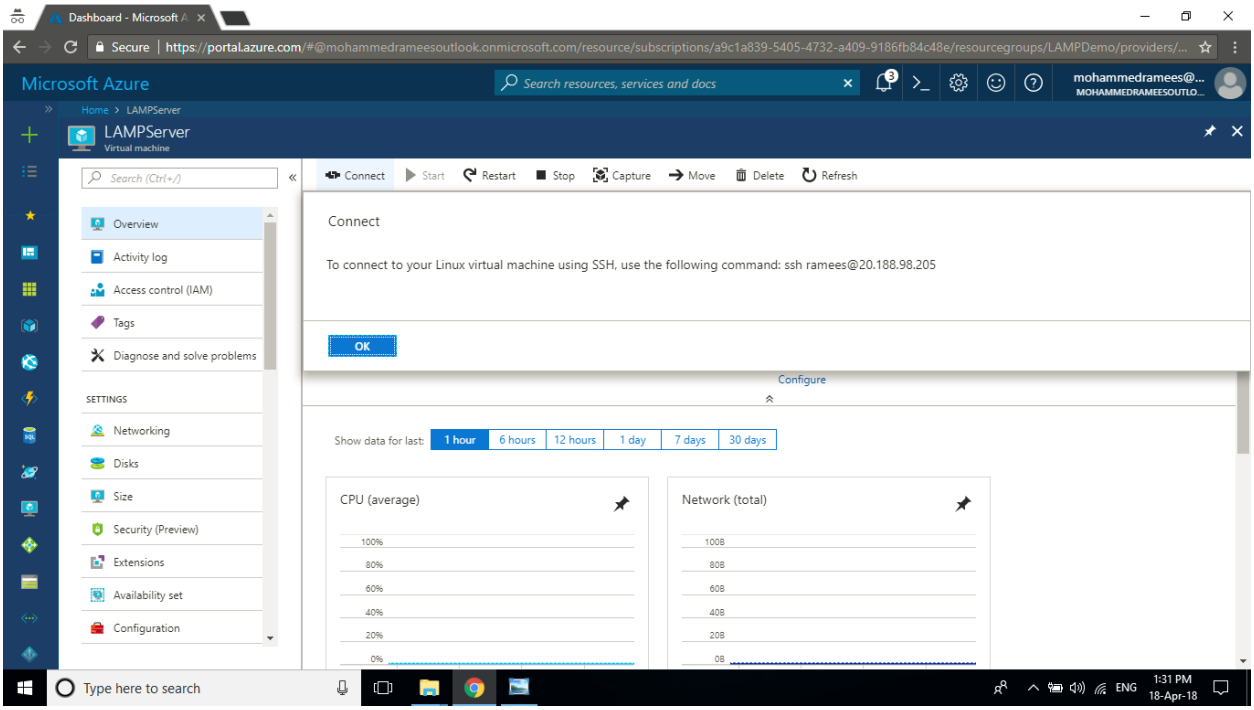
Step 3: In the third step you can specify the **Availability Zone** (only available in some regions), **Availability Set** (if required), opt for **Managed** or **Unmanaged Disks** (if unmanaged, have to create a new storage account also), **OS Disk size**, **Virtual Network** and **Subnet**, **Network Security Group**, **Public IP**, add any **Extensions**, enable or disable **Auto Shutdown**, **Boot Diagnostics**, **Guest OS Diagnostics**, **Backup** (In this demo we are going with the defaults)



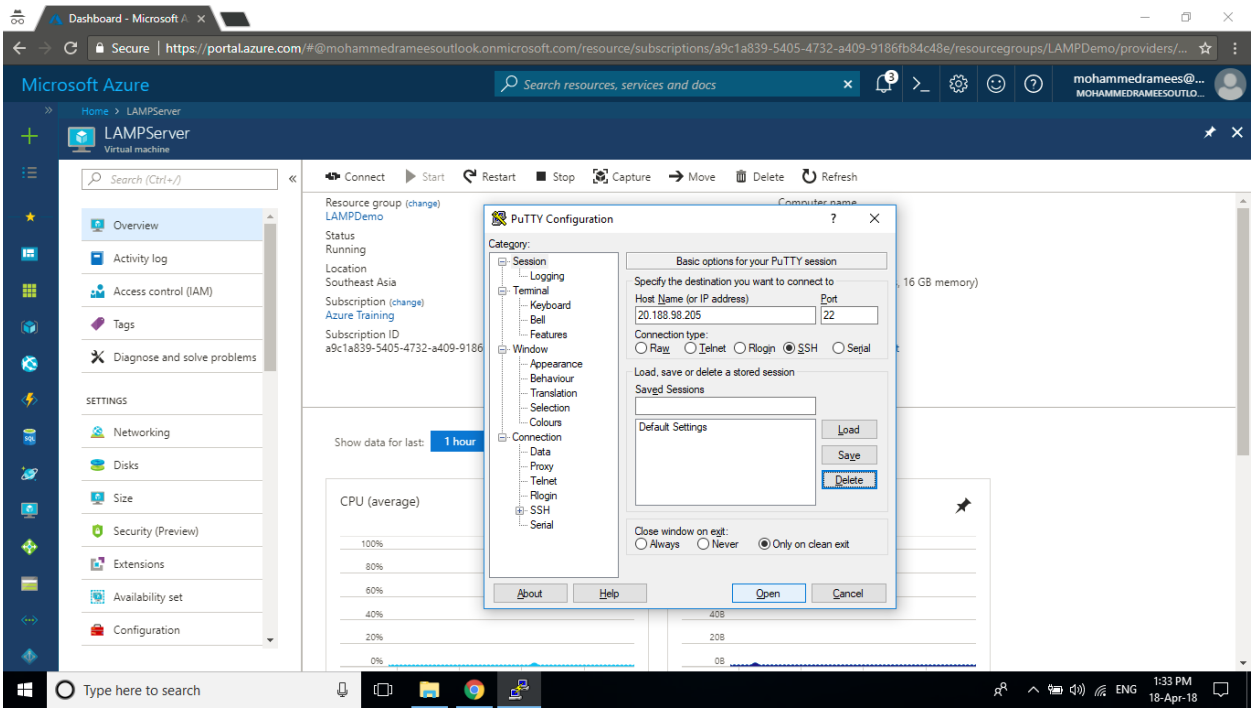
Step 4: On the final step wait for the final **Validation** to be passed and clicking on create will initiate the deployment of the VM. This may take few minutes and you can check the status from the notification bar.

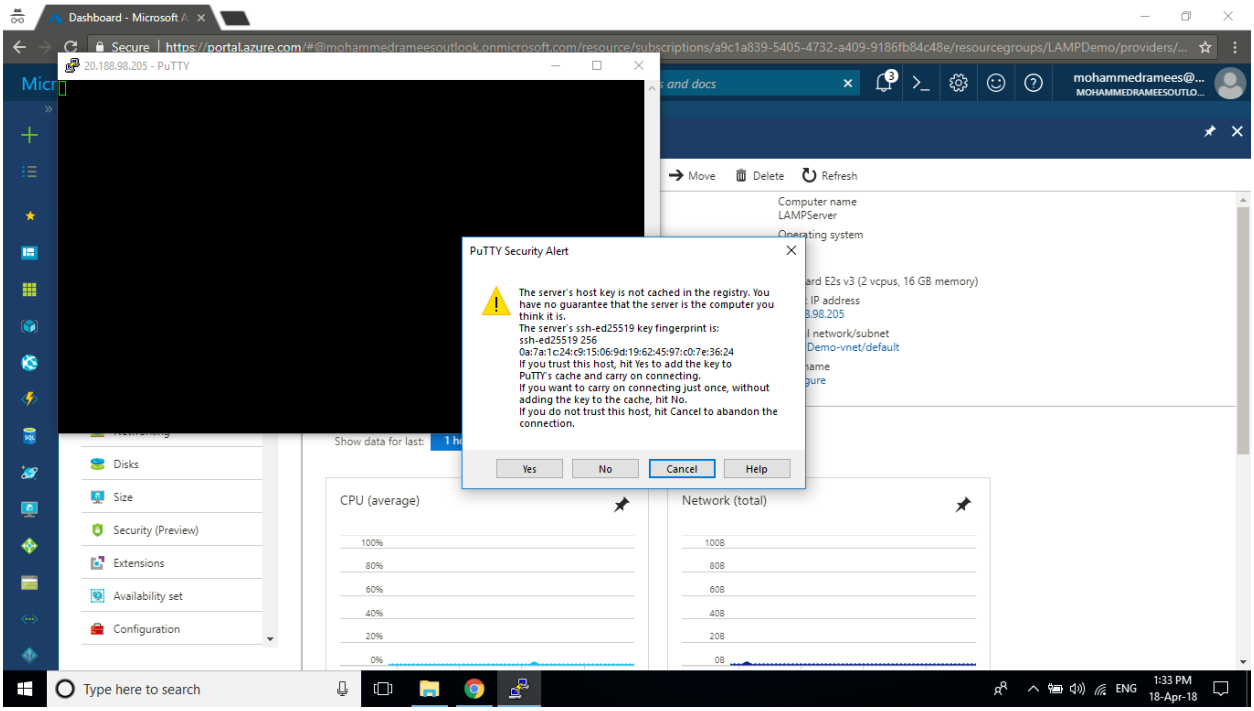


Step 5: Once the deployment is completed the dashboard for the new VM will be opened. The same you can access from the Virtual Machine listing or through Resource Group from the portal. Click on **Connect** option will show the command to connect via the terminal. Here we are using Putty to connect.

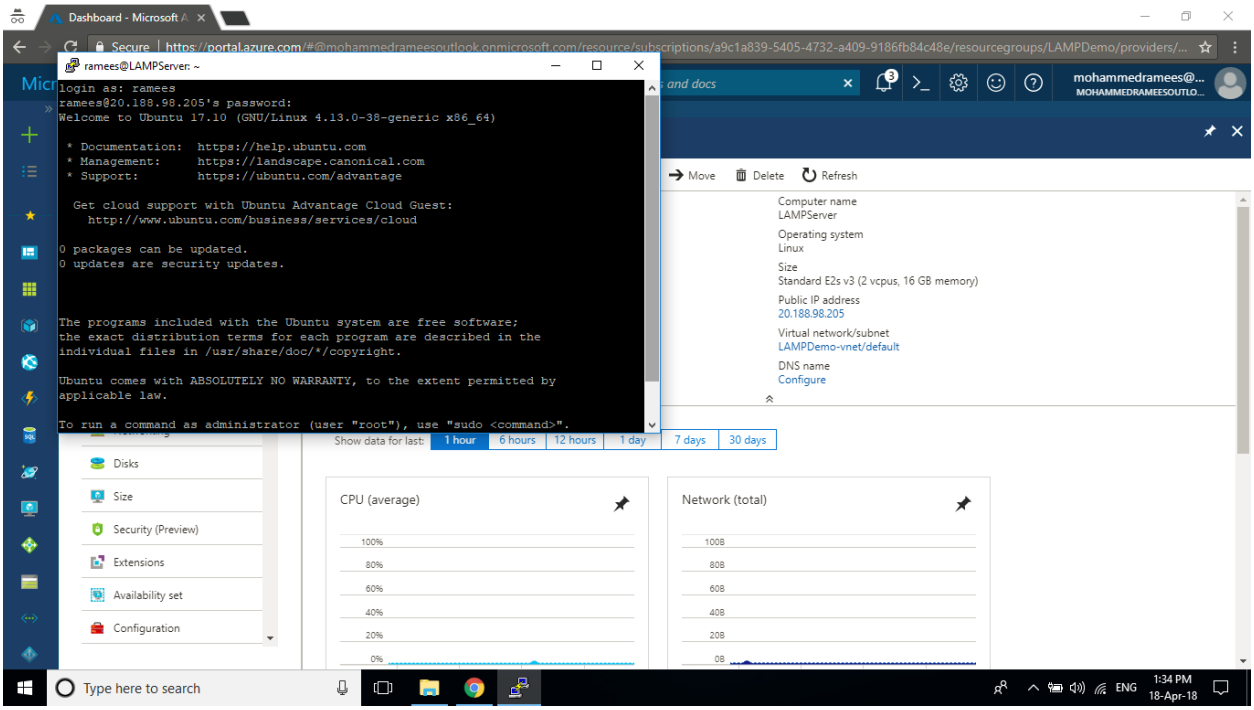


Step 6: Copy the Public IP address to the **Putty** and click on open. Click on yes to add the key to the Putty's cache as you are login in for the first time



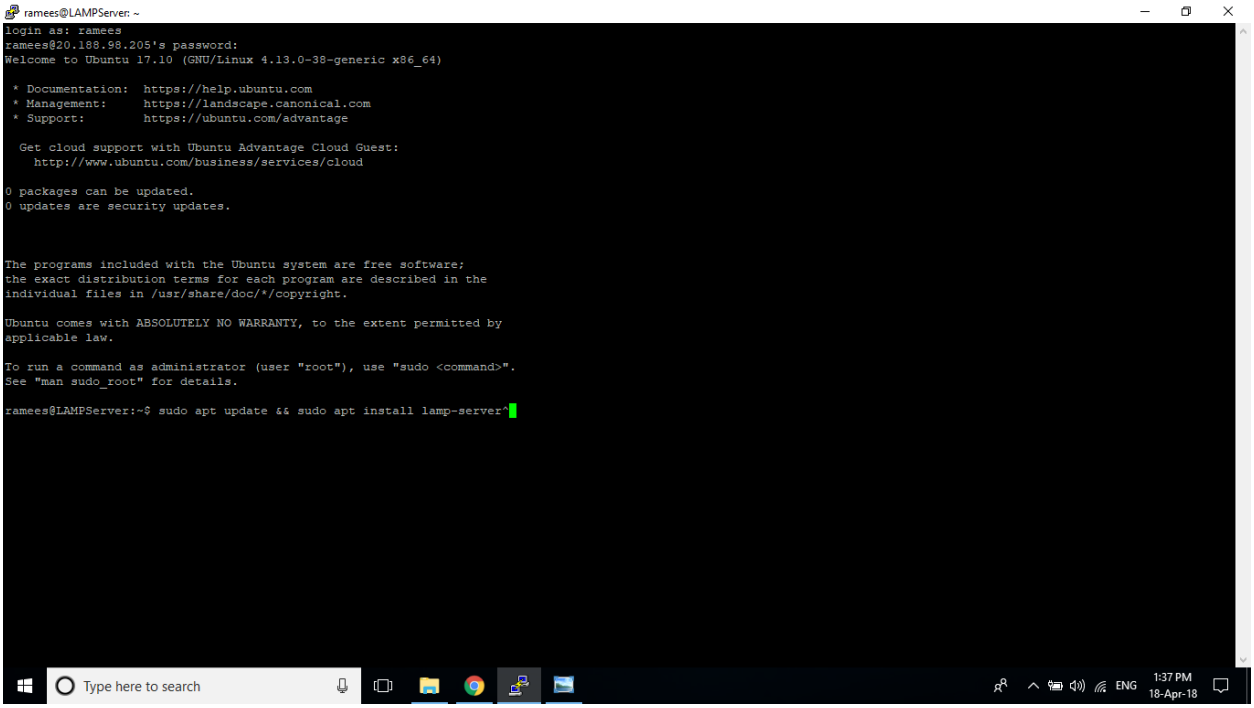


Step 7: Give the same **Username** and **Password** that you assigned while you created the VM. Now you have logged in to your new Ubuntu VM.

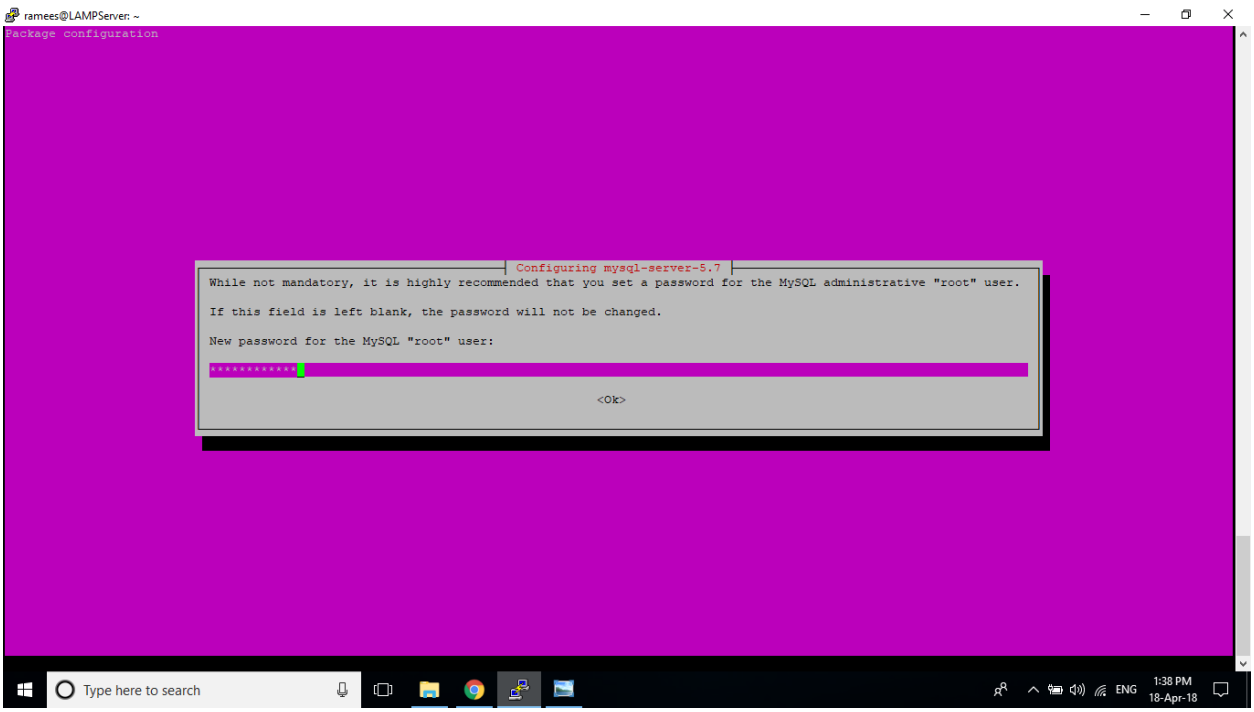


Step 8: Now we have **Ubuntu** and have to install **Apache**, **MySQL**, and **PHP**. Run the following command to update Ubuntu package sources and install the same. It may take few minutes and may ask for permission sin some steps.

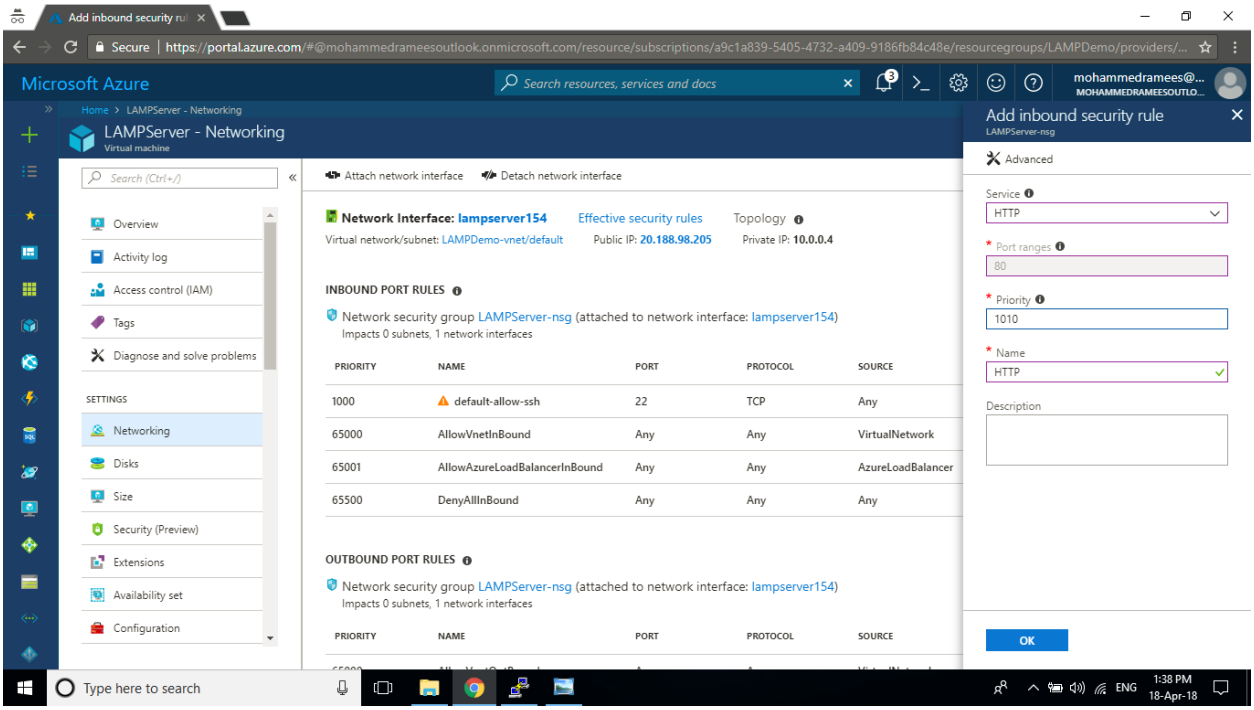
```
sudo apt update && sudo apt install lamp-server^
```

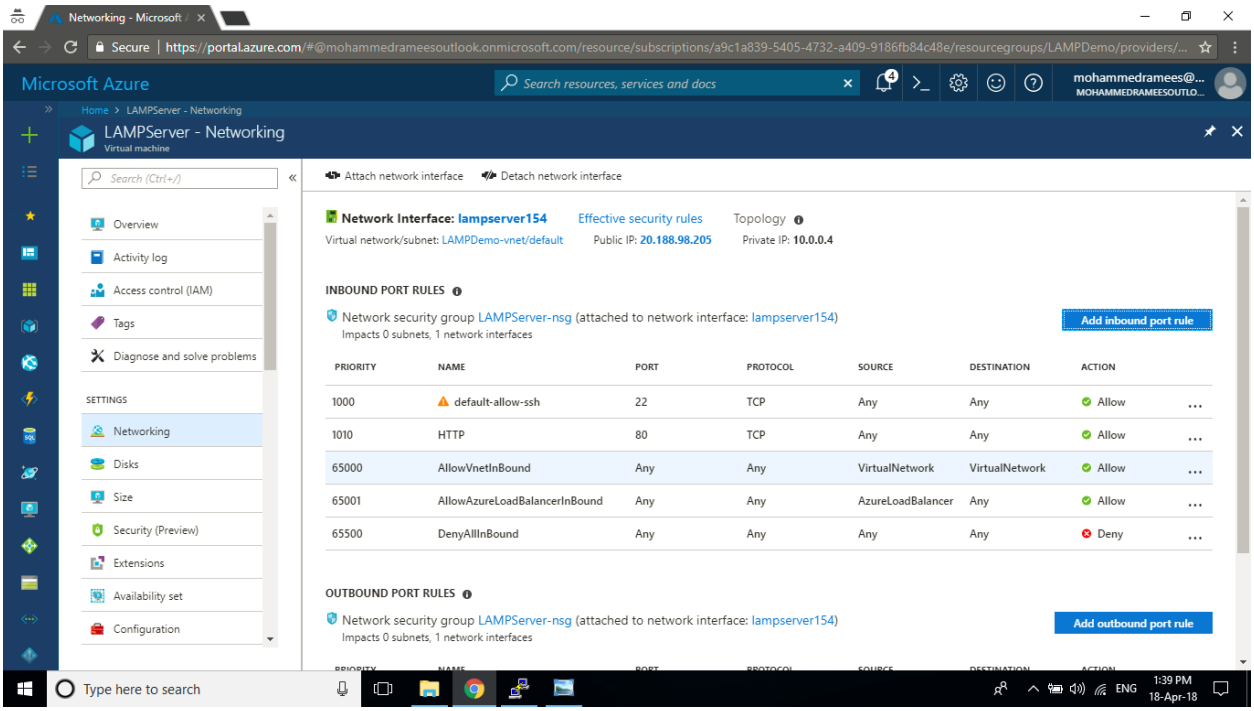


Step 9: During the installation it will prompt for **Password** for **MySQL database**. Give the password and you may have to confirm your password.

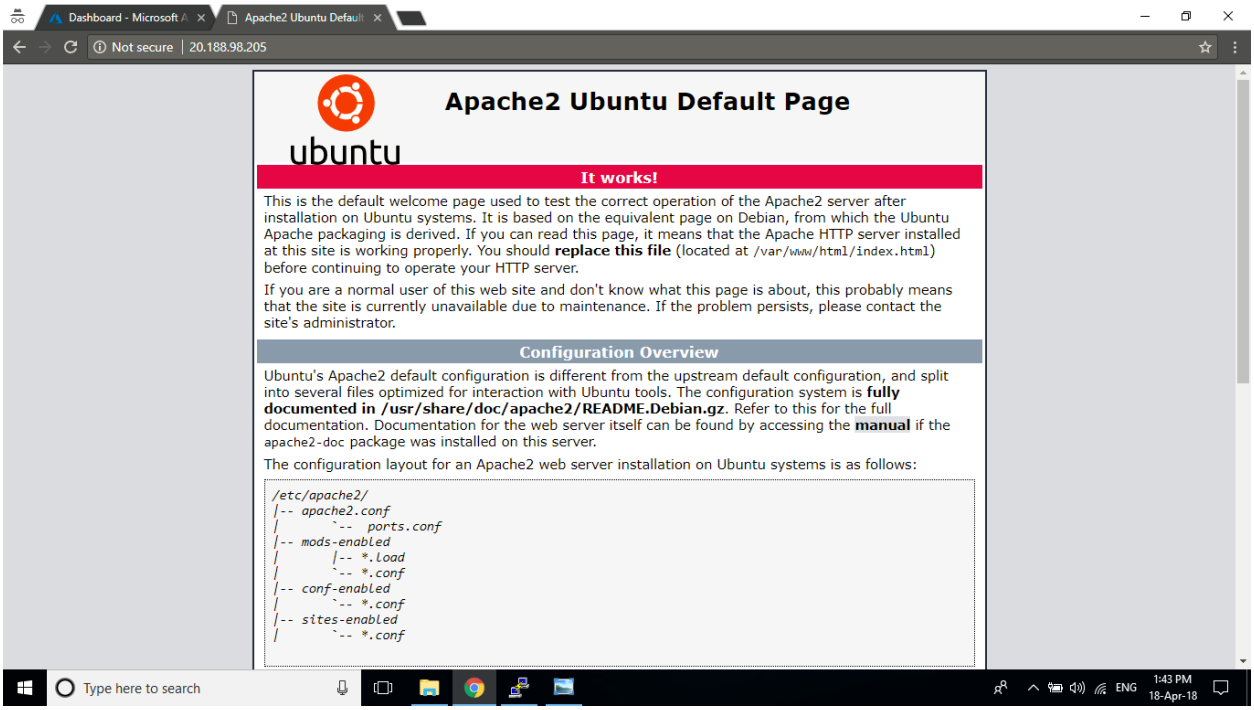


Step 10: Enable **Port 80** by adding an inbound rule in networking tab from portal to allow HTTP requests as our VM is a Web Server. By default, only SSH connections are allowed into Linux VMs deployed in Azure.



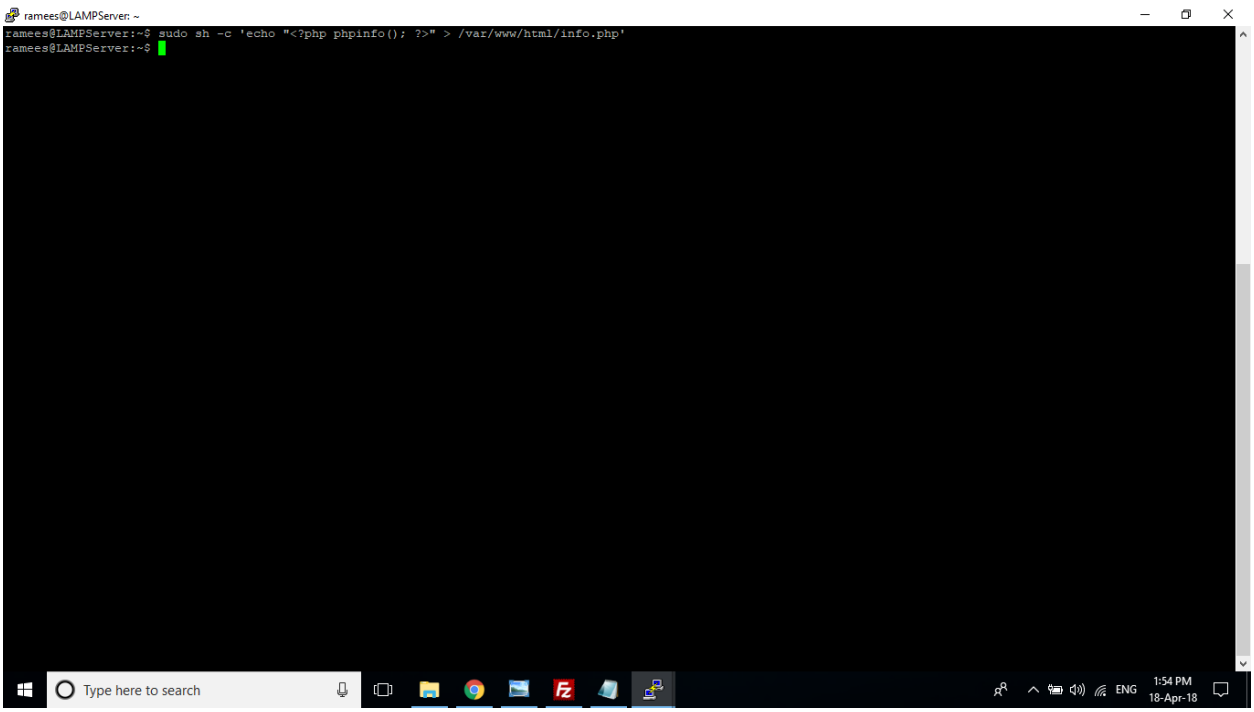


Step 11: With Apache installed, and port 80 open to your VM, the web server can now be accessed from the internet. To view the Apache2 Ubuntu Default Page, open a web browser, and enter the public IP address of the VM.



Step 12: To test PHP, create a quick PHP info page to view in a browser by using the following command in the terminal

```
sudo sh -c 'echo "<?php phpinfo(); ?>" > /var/www/html/info.php'
```



Step 13: You can verify the existence of the PHP page that you just created by visiting [http://[yourPublicIPAddress]/info.php](http://[yourPublicIPAddress]/info.php) in a browser and it should show a similar page as below.