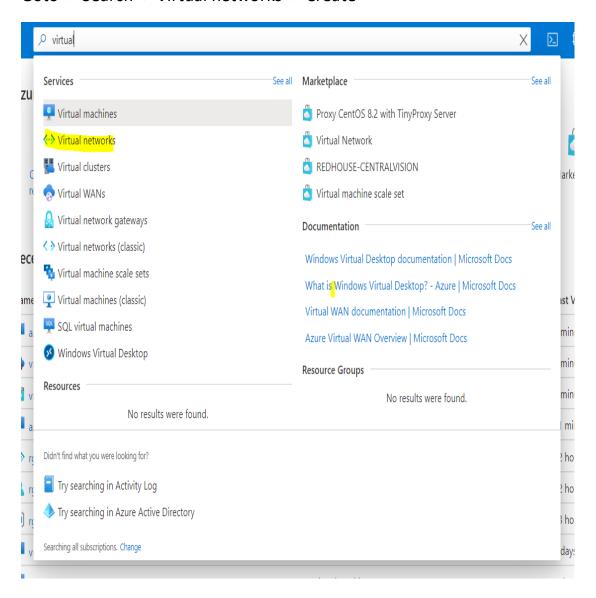
### **CREATING VNET**

### Goto -> Search -> Virtual networks -> Create



Resource group : rg1Name : Rg1-vnet1Region : East US

Subnet name : Rg1-vnet1-subnet1Subnet address : 10.3.0.0/24

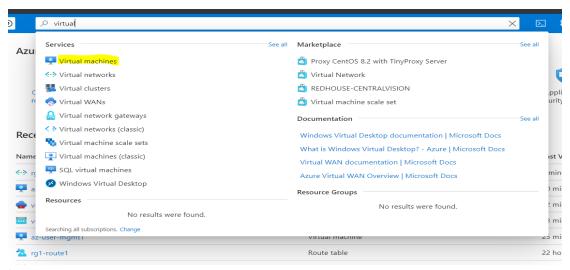
Create another subnet by clicking on add

Subnet name : Rg1-vnet1-subnet2Subnet address : 10.3.1.0/24

## **REST ALL LEAVE AS DEFAULTS AND CLICK REVIEW & CREATE.**

### **CREATING VMs**

### Goto -> Search -> Virtual Machines -> Create



- Resource group rg1
- Virtual Machine name: rg1-vm1-mgmt1
- Region : East US
- > Avialiablity options : No infrastructure redundancy required.
- Image: Keep Default, i.e. Ubuntu server 18.04 LTS Gen1
- Size : Standard B1s
- Authentication Type: Password
- Username : azuser-mgnt1
- Password : 16 character password of your choice.
- Select inbound ports: SSH, RDP
- Virtual network : Rg1-vnet1
- Subnet: Rg1-vnet1-subnet1

#### REPEAT SAME FOR VM2 WITH SAME DETAILS AS

Virtual Machine name: Rg1-web1

Username: azuser-mgnt1

Password : 16 character password of your choice.

Subnet: Rg1-vnet1-subnet1

### **REST ALL LEAVE AS DEFAULTS AND CLICK REVIEW & CREATE.**



# **INSTALLING APACHE WEB SERVER IN Rg1-web1 VM**

Login into server via ssh using below command

# ssh <Username>@public ip address password: Pa\$\$word

Using below commands install Apache web server.

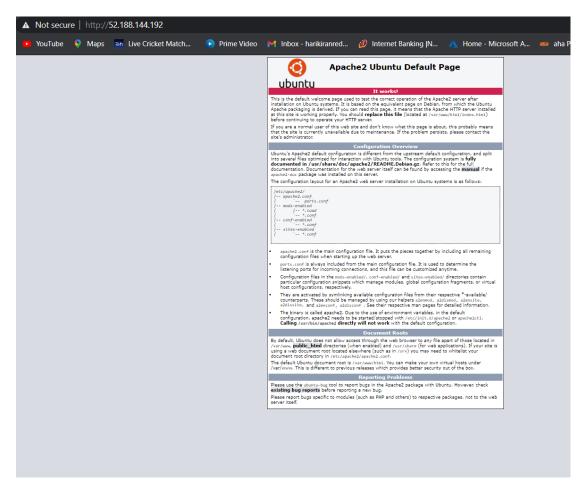
# sudo apt update

# sudo apt install apache2

That's it, Apache is installed and automatically started. You can check the Apache service status by issuing:

# sudo systemctl status apache2

Paste the public ip address of Rg1-web1 VM in web browser and you should see below page.



You can access VMs using SSH, if you need to access VMs via RDP please use below procedure to install **xrdp** to login VMs using RDP.

Install xfce using apt as follows:

# sudo apt-get update sudo apt-get -y install xfce4

Now that you have a desktop environment installed, configure a remote desktop service to listen for incoming connections. xrdp is an open source Remote Desktop Protocol (RDP) server that is available on most Linux distributions, and works well with xfce. Install xrdp on your Ubuntu VM as follows:

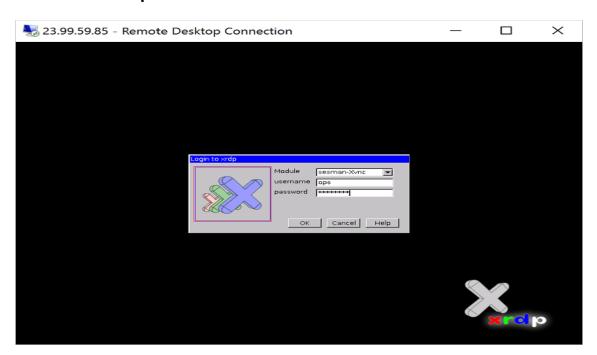
# sudo apt-get -y install xrdp sudo systemctl enable xrdp

Tell xrdp what desktop environment to use when you start your session. Configure xrdp to use xfce as your desktop environment as follows:

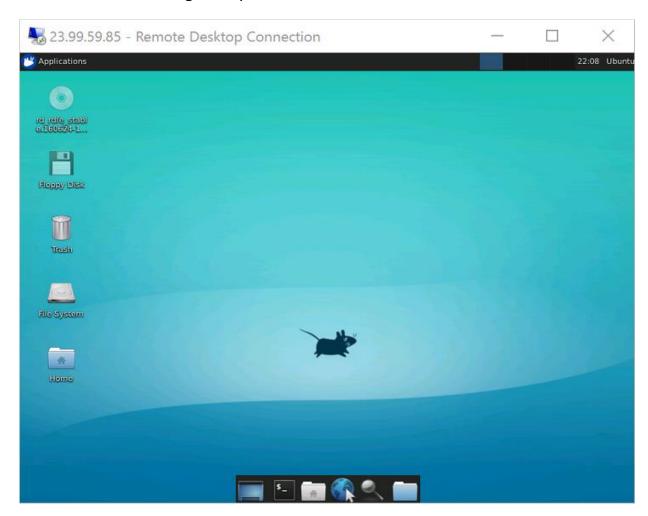
## echo xfce4-session >~/.xsession

Restart the xrdp service for the changes to take effect as follows:

## sudo service xrdp restart



After authenticating, the xfce desktop environment will load and look similar to the following example:



If your local RDP client uses network level authentication (NLA), you may need to disable that connection setting. XRDP does not currently support NLA. You can also look at alternative RDP solutions that do support NLA, such as FreeRDP.