Graded Project Cloud basics (Azure) Week 10

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Context

Creating web applications that are both resilient and scalable is an essential part of any application architecture. A well-designed application should scale seamlessly as demand increases and decreases, and be resilient enough to withstand the loss of one or more compute resources.

Learning Outcome

- Deploy Virtual Machine Scale sets
- Set up a web server on a virtual machine

Steps to be taken:

- 1) Create Virtual Machine
 - a) Region: East US 2
 - b) Instance: 1 (Ubuntu 18.04)
 - c) VM Size: D2s- V3
 - d) Storage: Standard HDD

Note: The VM size and region given here is for reference only. You are free to change these values as required.

- 2) Setup Apache and run default website:
 - a) Open Port using Inbound Ports
 - b) Install Apache Server on VM using the script below in Bash Shell
 - c) Configure Default Website(index.html)
 - d) Change Text ("Azure Project Great Learning") on default Page

Script for installing Apache

sudo apt-get update

sudo apt-get -y install apache2

sudo ufw allow 'Apache Full'

sudo systemctl start apache2.service

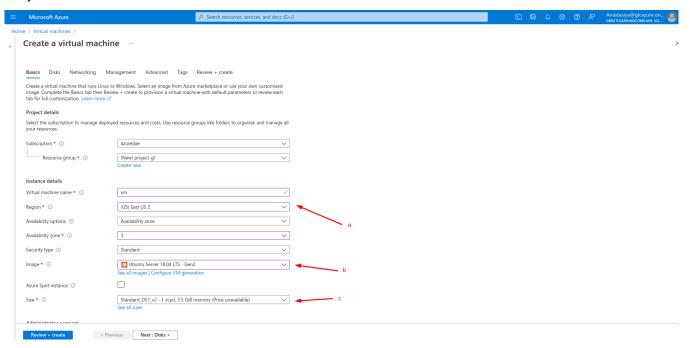
The file index.html is located in /var/www/html

1. Create Virtual Machine

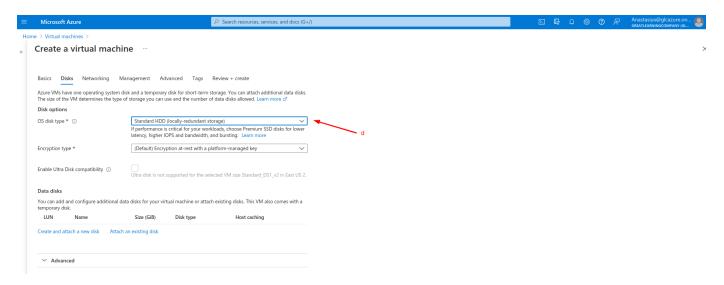
a) Region: East US 2

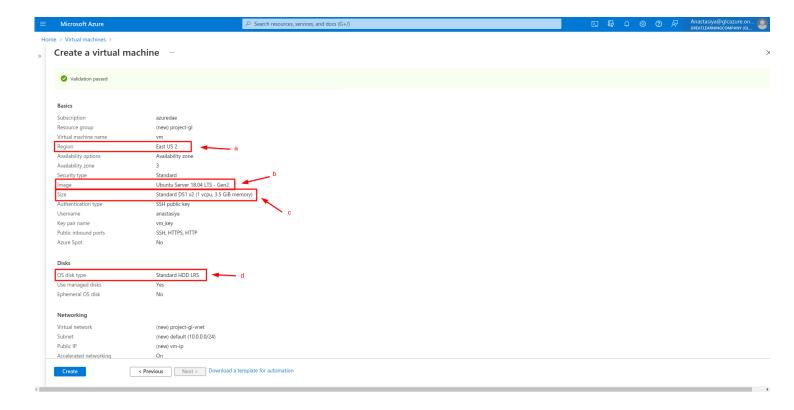
b) Instance: 1 (Ubuntu 18.04)

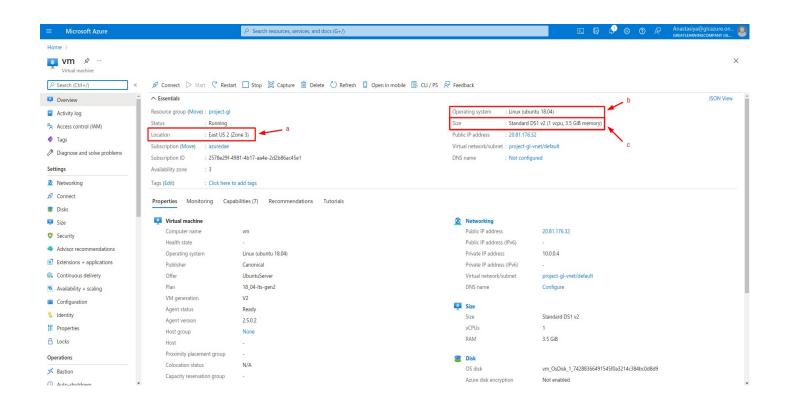
c) VM Size: D2s- V3

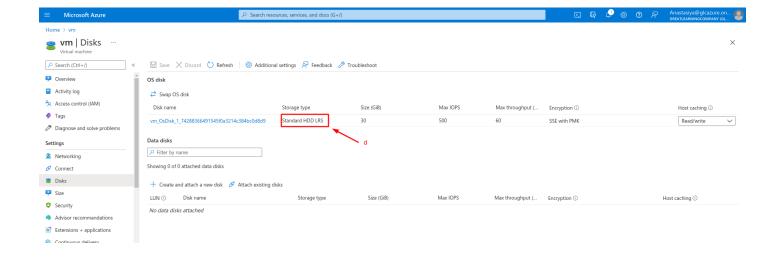


d) Storage: Standard HDD



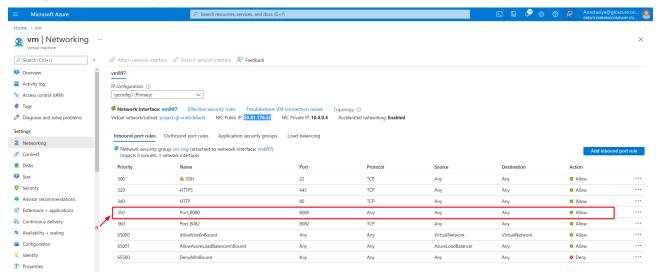






2. Setup Apache and run default website

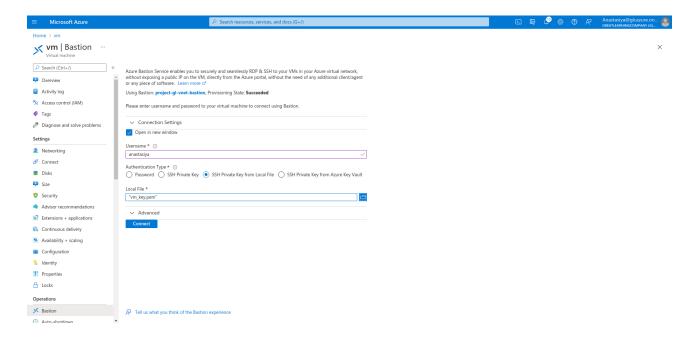
a) Open Port using Inbound Ports



b) Install Apache Server on VM using the script below in Bash Shell

For instalation Apache Server I have used Bastion

Checking my credentials for Bastion



```
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 5.4.0-1064-azure x86 64)
 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support:
                   https://ubuntu.com/advantage
 System information as of Sun Dec 5 20:35:16 UTC 2021
  System load: 0.08
                                  Processes:
                                                        107
  Usage of /: 4.7% of 28.90GB
                                  Users logged in:
 Memory usage: 6%
                                  IP address for eth0: 10.0.0.4
  Swap usage:
               0%
O updates can be applied immediately.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
\overline{	extsf{To}} run a command as administrator (user "root"), use "sudo <command>".
🎥e "man sudo root" for details.
anastasiya@vm:~$
```

Check Apache version on VM

```
anastasiya@vm:~$ apache2 -v
Server version: Apache/2.4.29 (Ubuntu)
Server built: 2021-11-14T23:52:18
```

c) Configure Default Website(index.html)

Check file location

```
anastasiya@vm:~$ cd /var/www/html/
anastasiya@vm:/var/www/html$ ls
index.html
```

d) Change Text ("Azure Project - Great Learning") on default Page

For changing text I have used sudo nano comand

```
anastasiya@vm:~$
anastasiya@vm:~$ sudo nano /var/www/html/index.html∎
```

