

Project: Azure

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

Grading Criteria:

Creation of Virtual Machine	15 Marks
Installation of Apache	15 Marks
Changing of default text	20 Marks