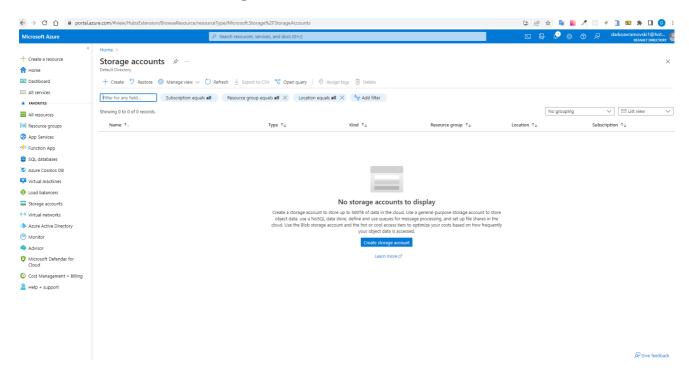
Mid-Term Task

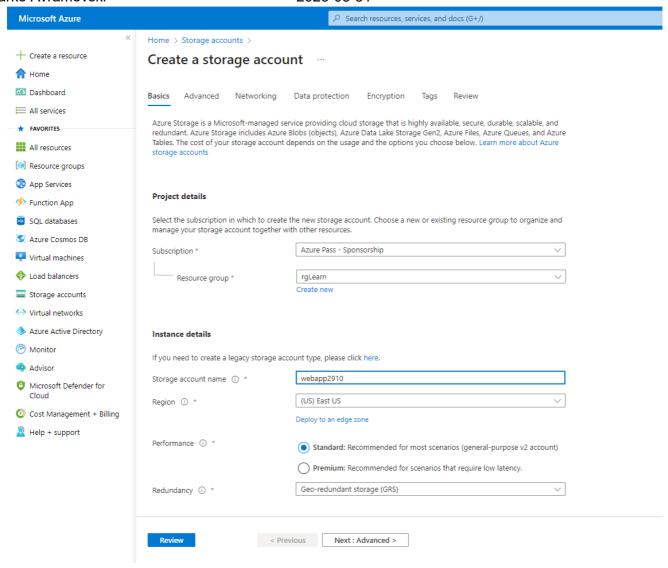
Part I

- 1. Host a static website on Blob Storage: build and deploy a static Hello World website to Azure Storage.
- 2. Verify that the default web page has the Hello World! page.
- 3. Provide the steps and results.

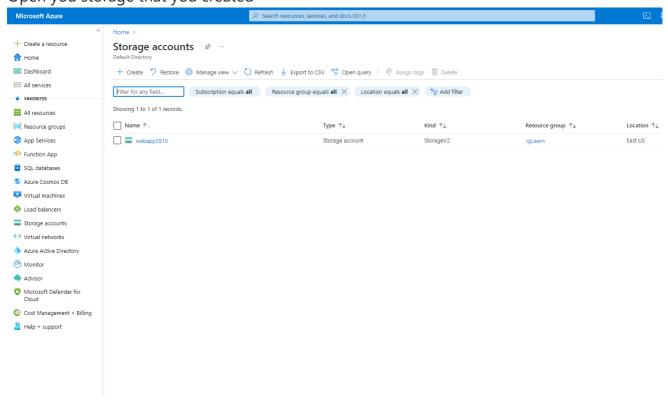
Login to your account in azure.portal navigate to Create a storage > Create a storage account then click Create storage account



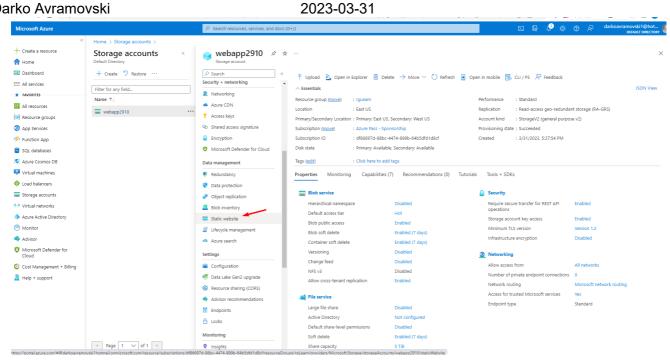
Fill required detailes Project details and Instance details and click Create



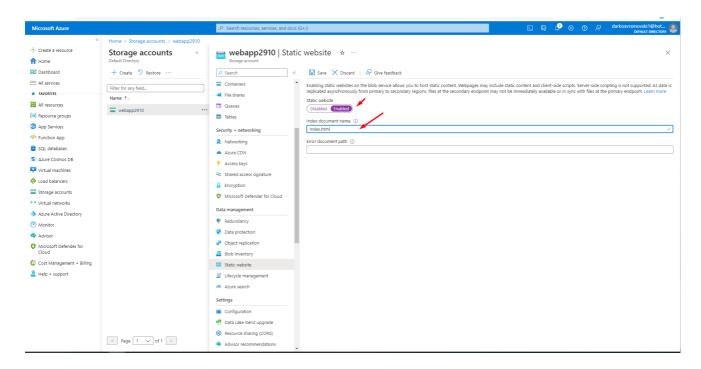
Open you storage that you created



From the left side menu select Data management/Static website

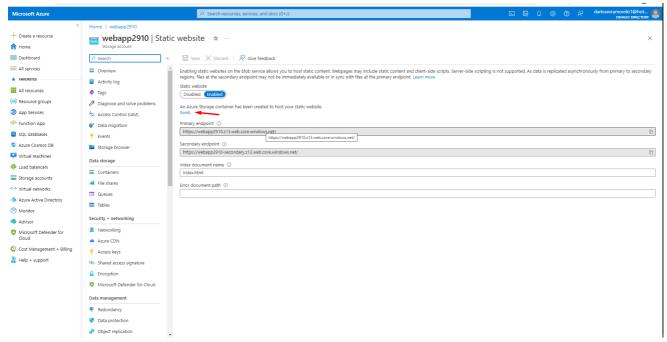


On toggle button click Enable Static website and fill Index document name index.html and click on the Save button

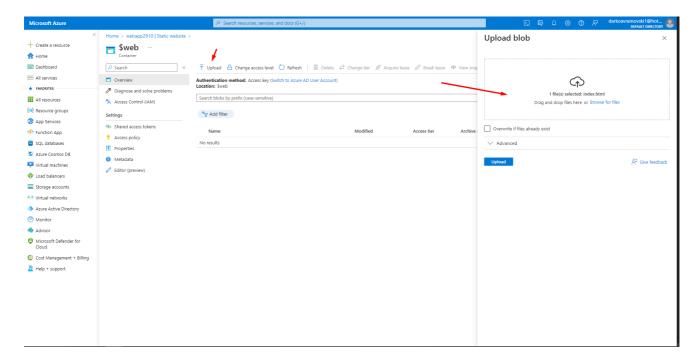


After we Successfully we creted the static page we can click on \$web to upload new file

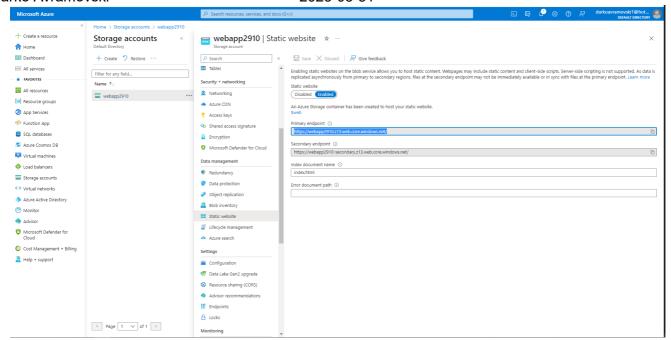
Darko Avramovski 2023-03-31



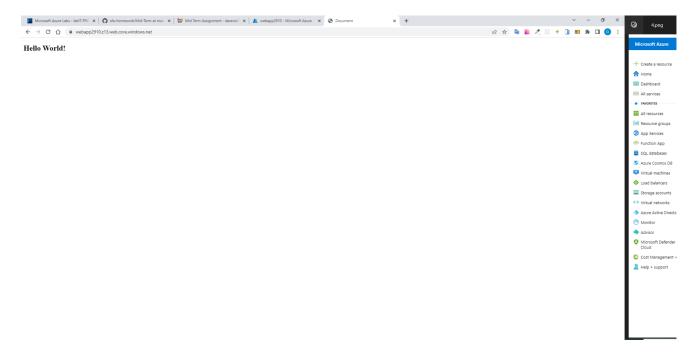
On the next screen click **upload** and new popup windows from the right side will apear select the file that we created *index.html* and click upload



Navigate back to Static website select storage account / static website from the left side menu and copy **Primary endpoint**



Verify that the static web page is working.



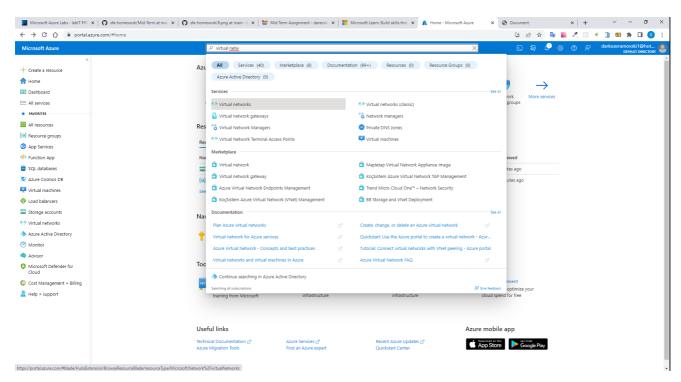
Part II

In this exercise we will setup a Linux based web server and will deploy a web page on it.

- 1. Create a Virtual Network where you will deploy your Linux Based Web Server.
- 2. Modify the network security group for your virtual machine that will allow you to remotely manage your machine only from your local machine and nowhere else.
- 3. Create a Linux Virtual Machine that will be your Web Server which is publicly available for web publishing (not SSL) only from your machine and nowhere else.
- 4. Connect to the VM.
- 5. Install Apache Web Server.

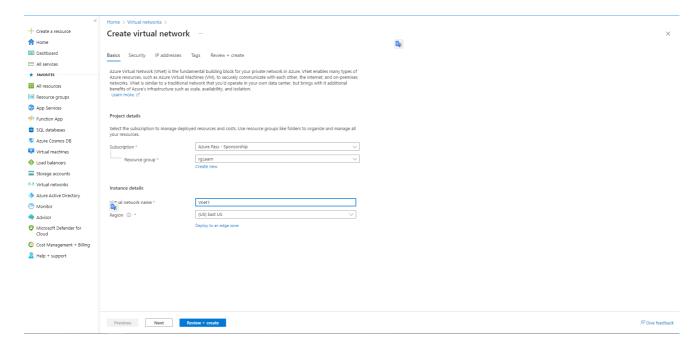
- 6. Deploy the "Hello World" web page.
- 7. Provide Testing from your cellphone.
- 8. Provide the steps and results.

Login to your account, in the search bar type **Virtual networks** open virtual network and click create new virtual network now we are going to create new virtual network

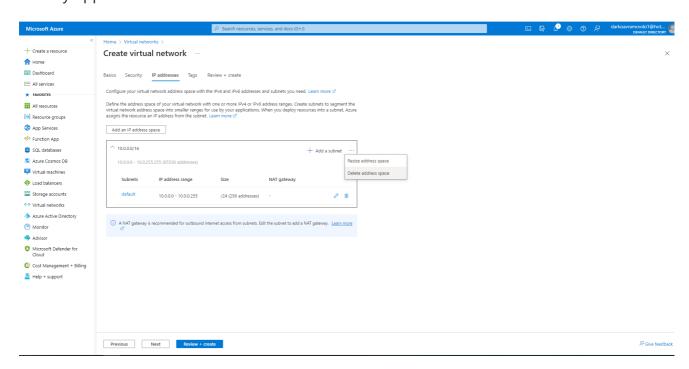


on the next screen fill required fields

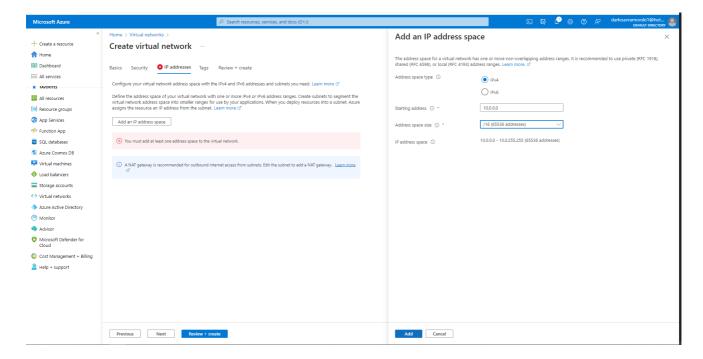
- Subscription: Choes Subscription
- Resource group: Select resource group or create new one Instance details
- Virtual network name: Type virtual network name
- Region: Select Region



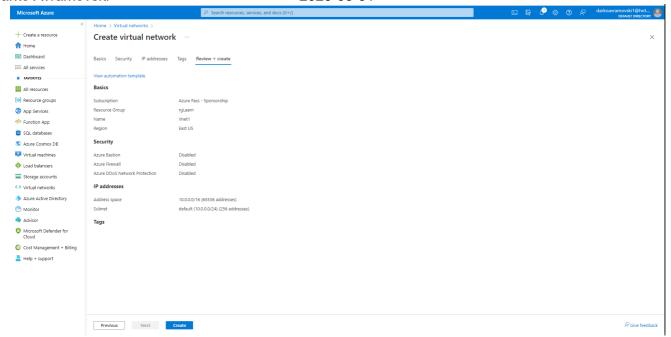
Click next Secuirty tab will apear click Next **IP addresses** delete default address space that already appears.



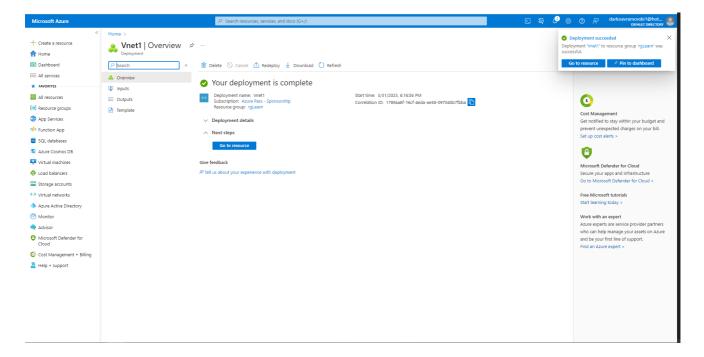
Click on the button Add an IP address space, and new window we apear on the right side on the screen and fill the address space for new Ip address



Now Select Add subnet and create new subnet for our virtual network. And click **Review and** create + Create



Your deployment is complete



Next Step: Modify the network security group for your virtual machine that will allow you to remotely manage your machine only from your local machine and nowhere else.

Create a Linux Virtual Machine that will be your Web Server which is publicly available for web publishing (not SSL) only from your machine and nowhere else.

Navigate to Virtual machine > Create a virtual machine and click a new virtual machine

Create new virtual machine and Connect to the VM.

```
💋 ds@dsApp01: /var/www/html
                                                                                                                П
                                                                                                                      ×
  login as: ds
  ds@74.235.161.221's password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1035-azure x86 64)
 * Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Management: https://landscape.com/

* Support: https://ubuntu.com/advantage
 System information as of Fri Mar 31 17:36:37 UTC 2023
 System load: 0.5
Usage of /: 5.2% of 28.89GB
                                      Processes:
                                                                106
                                     Users logged in:
 Memory usage: 8%
                                     IPv4 address for eth0: 10.0.0.9
 Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
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.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ds@dsApp01:~$ sudo apt update
Hit:1 http://azure.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:5 http://azure.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8628
```

install apache web server

```
sudo apt update
sudo apt install apache2
```

```
ds@dsApp01: 

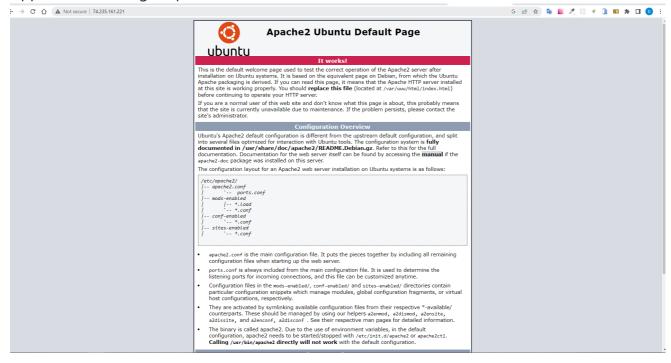
√

                                                                                                              X
    Setting up libaprutill-dbd-sqlite3:amd64 (1.6.1-4ubuntu2.1) ...
    Setting up apache2-utils (2.4.41-4ubuntu3.14) ...
   Setting up apache2-bin (2.4.41-4ubuntu3.14) ...
   Setting up apache2 (2.4.41-4ubuntu3.14) ...
   Enabling module mpm_event.
   Enabling module authz_core.
   Enabling module authz host.
   Enabling module authn core.
   Enabling module auth basic.
Enabling module access_compat.

N V Enabling module authn_file.
Enabling module authz_user.
   Enabling module alias
Enabling module dir.
Enabling module autoindex.
   Enabling module env.
   Enabling module mime.
   Enabling module negotiation.
   Enabling module setenvif.
OSEnabling module filter.
   Enabling module deflate.
   Enabling module status.
   Enabling module reqtimeout.
   Enabling conf charset.
   Enabling conf localized-error-pages.
   Enabling conf other-vhosts-access-log.
   Enabling conf security.
   Enabling conf serve-cgi-bin.
   Enabling site 000-default.
    Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service - /1
   ib/systemd/system/apache2.service.
   Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.
   service - /lib/systemd/system/apache-htcacheclean.service.
   Processing triggers for ufw (0.36-6ubuntul) ..
   Processing triggers for systemd (245.4-4ubuntu3.20) ...
   Processing triggers for man-db (2.9.1-1) ...
   Processing triggers for libc-bin (2.31-Oubuntu9.9) ...
   ds@dsApp01:~$ sudo apt install apache2
```

cd /var/www/oci/

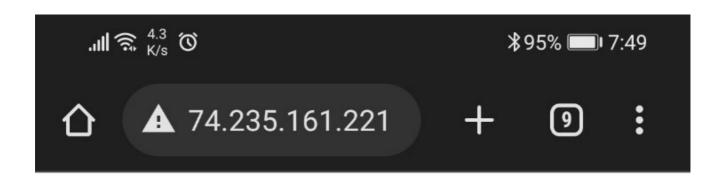
Appache is working on port 80



cd /var/wwww
sudo mkdir hello_world
cd /var/www/hello_world
nano index.html

Darko Avramovski 2023-03-31

Hello World!



Hello World!

