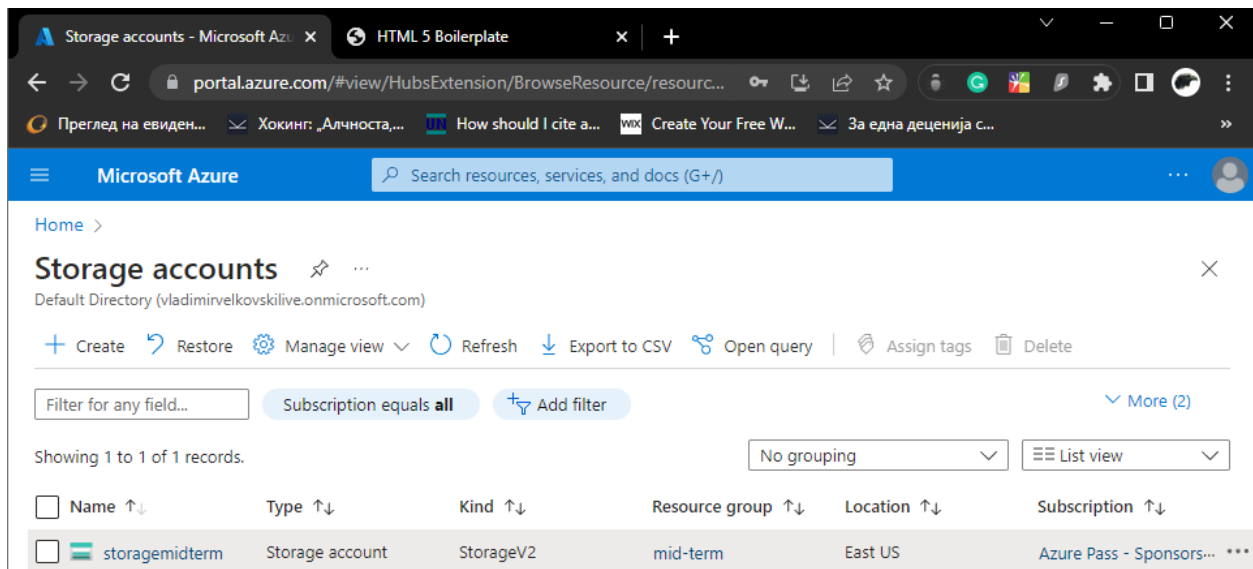


Mid-Term Task

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.

First I created a new storage account which I named "storagemidterm".



After that, I enabled the static website hosting where an Azure Storage blob container named “\$web” has been created to host the static website and uploaded the previous created html file called “index.html”. In the field “Index document name” I inserted the name of the file “index.html” and saved the configurations.

storagemidterm - Microsoft Azure

HTML 5 Boilerplate

portal.azure.com/#@vladimirvelkovskilive.onmicrosoft.com/resou...

Преглед на евиден... Хокинг: „Алчността... How should I cite a... Create Your Free W... За една деценија с...

Microsoft Azure

Search resources, services, and docs (G+/I)

Home > Storage accounts > storagemidterm

storagemidterm | Static website

Storage account

static website

Save Discard Give feedback

Data management

Static website

Enabling static websites on the blob service allows you to host static content. Webpages may include static content and client-side scripts. Server-side scripting is not supported. As data is replicated asynchronously from primary to secondary regions, files at the secondary endpoint may not be immediately available or in sync with files at the primary endpoint. [Learn more](#)

Static website

Disabled Enabled

An Azure Storage container has been created to host your static website. [\\$web](#)

Primary endpoint ⓘ
https://storagemidterm.z13.web.core.windows.net/

Secondary endpoint ⓘ
https://storagemidterm-secondary.z13.web.core.windows.net/

Index document name ⓘ
index.html

Error document path ⓘ

\$web - Microsoft Azure

HTML 5 Boilerplate

portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenu...

Преглед на евиден... Хокинг: „Алчността... How should I cite a... Create Your Free W... За една деценија с...

Microsoft Azure

Search resources, services, and docs (G+/I)

Home > Storage accounts > storagemidterm | Static website >

\$web

Container

Search

Upload Change access level Refresh Delete Change tier ...

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Editor (preview)

Authentication method: Access key (Switch to Azure AD User Account)

Location: \$web

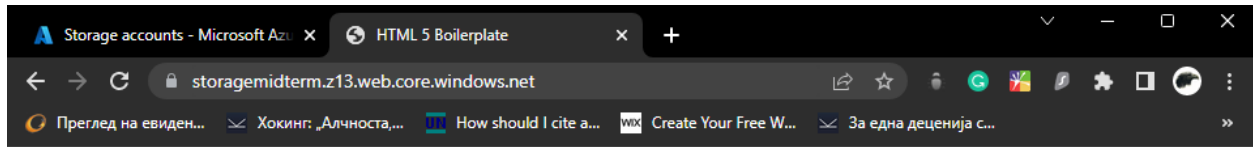
Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status
<input type="checkbox"/> index.html	3/31/2023, 5:27:13 PM	Hot (Inferred)	

In the end I copied the primary endpoint link and paste it in a new browser tab and verified that the website is working and displaying the "Hello World!" content.

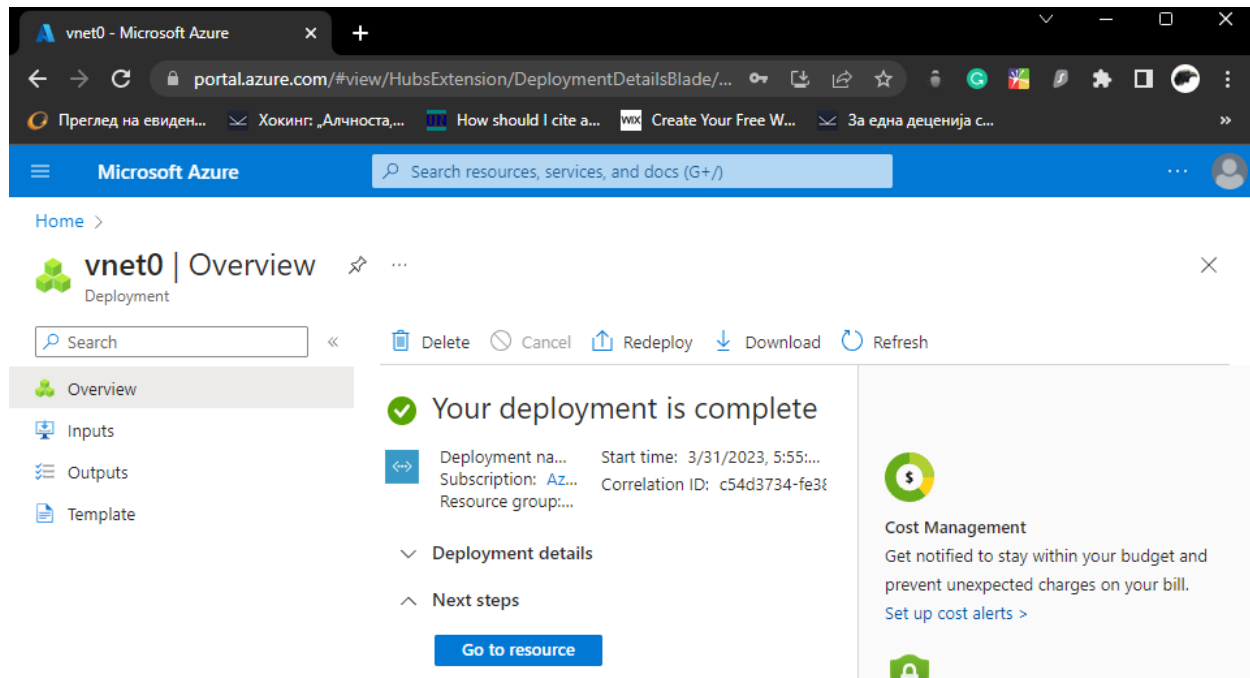


Hello World!

Part II

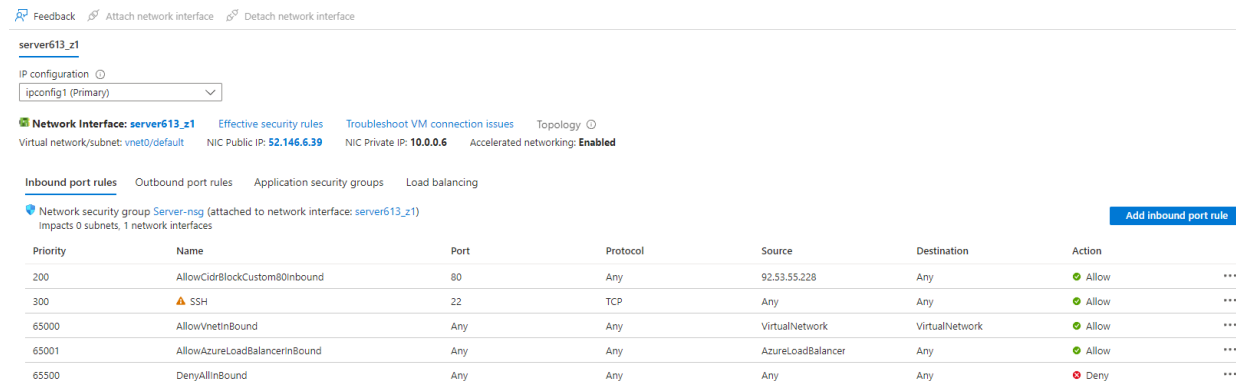
In this exercise we will setup a Linux based web server and will deploy a web page on it.

1. Create a Virtual Network where you will deploy your Linux Based Web Server.



The screenshot shows the Microsoft Azure portal interface. The main heading is "vnet0 | Overview". Below it, a status message says "Your deployment is complete" with a green checkmark. To the right of this message, deployment details are listed: "Deployment name: vnet0", "Subscription: Azure", "Start time: 3/31/2023, 5:55...", and "Correlation ID: c54d3734-fe38...". A "Go to resource" button is located below these details. On the right side of the page, there is a "Cost Management" section with a green icon and text: "Get notified to stay within your budget and prevent unexpected charges on your bill. Set up cost alerts >". The left sidebar shows navigation options: Overview, Inputs, Outputs, and Template.

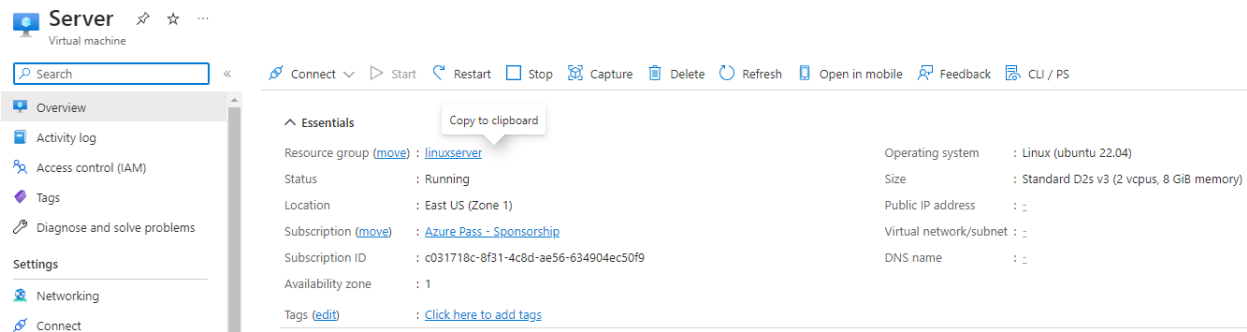
2. Modify the network security group for your virtual machine that will allow you to remotely manage your machine only from your local machine and nowhere else.



The screenshot shows the Microsoft Azure portal interface for the "server613_z1" network interface. The "Inbound port rules" tab is selected, displaying a table of rules. The rules include "AllowCidrBlockCustom80Inbound", "SSH", "AllowVnetInBound", "AllowAzureLoadBalancerInBound", and "DenyAllInBound". The "SSH" rule is highlighted, showing it allows traffic on port 22 from any source to any destination. The table has columns for Priority, Name, Port, Protocol, Source, Destination, and Action.

Priority	Name	Port	Protocol	Source	Destination	Action
200	AllowCidrBlockCustom80Inbound	80	Any	92.53.55.228	Any	Allow
300	SSH	22	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

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.



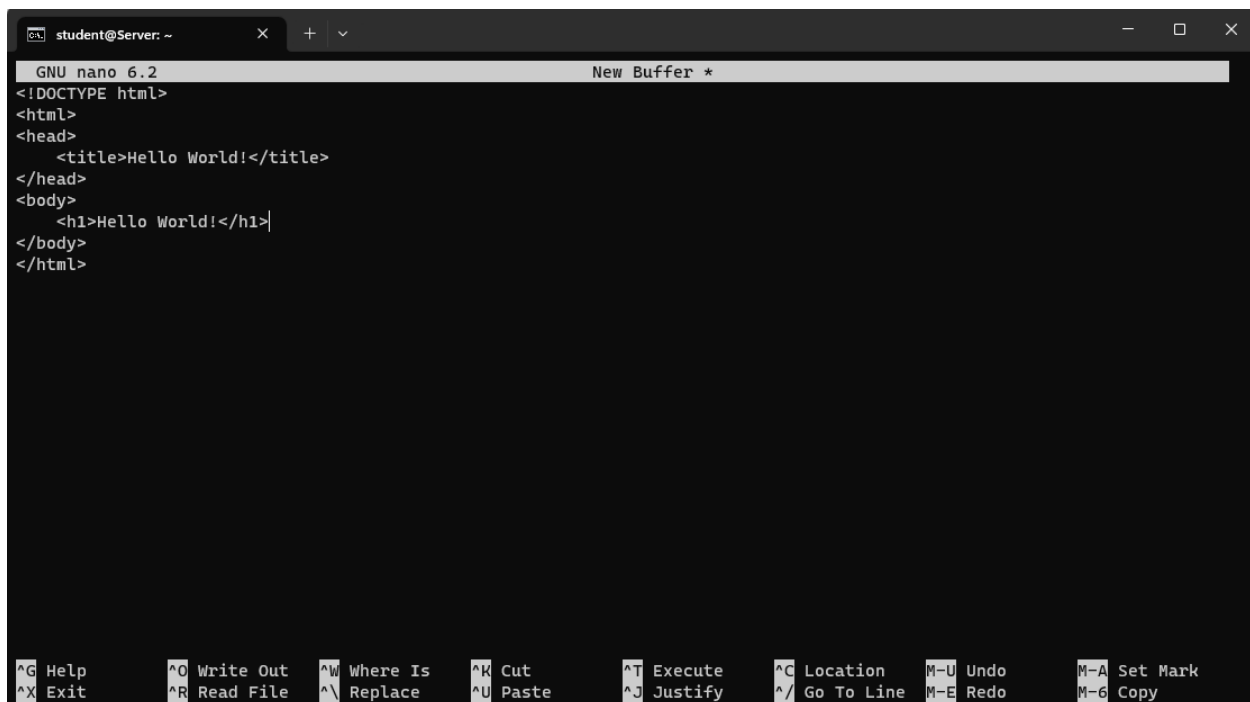
4. Connect to the VM.

```
student@Server: ~  
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-1035-azure x86_64)  
  
* Documentation: https://help.ubuntu.com  
* Management:   https://landscape.canonical.com  
* Support:      https://ubuntu.com/advantage  
  
System information as of Fri Mar 31 16:53:51 UTC 2023  
  
System load: 0.0224609375    Processes:            130  
Usage of /:  5.0% of 28.89GB    Users logged in:      0  
Memory usage: 3%              IPv4 address for eth0: 10.0.0.6  
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.  
  
student@Server:~$ sudo apt-get update
```

5. Install Apache Web Server.

```
student@Server:~$ sudo apt-get install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

6. Deploy the “Hello World” web page.



```
student@Server: ~
GNU nano 6.2
New Buffer *
<!DOCTYPE html>
<html>
<head>
  <title>Hello World!</title>
</head>
<body>
  <h1>Hello World!</h1>
</body>
</html>
```

Terminal window showing the nano text editor interface. The editor is editing a file with the following content:

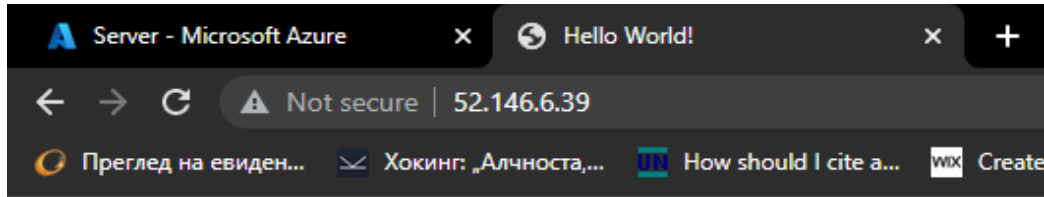
```
<!DOCTYPE html>
<html>
<head>
  <title>Hello World!</title>
</head>
<body>
  <h1>Hello World!</h1>
</body>
</html>
```

The terminal window title is "student@Server: ~". The nano editor status bar at the bottom shows various keyboard shortcuts: ^G Help, ^O Write Out, ^W Where Is, ^K Cut, ^T Execute, ^C Location, M-U Undo, M-A Set Mark, ^X Exit, ^R Read File, ^\ Replace, ^U Paste, ^J Justify, ^_ Go To Line, M-E Redo, M-6 Copy.

```
student@Server:~$ ls /var/www/html
index.html
student@Server:~$ ls -l /var/www/html/index.html
-rw-r--r-- 1 root root 119 Mar 31 17:00 /var/www/html/index.html
```

7. Provide Testing from your cellphone.

The first screenshot is from my machine whose IP address is allowed to access the virtual machine.



Hello World!

The second screenshot is from my mobile phone which is connected to 4G and can't connect to the VM because it has a different IP address from the PC and the inbound rule block it.

