**Mid-Term Task**

## **Filip Daskalovski**

## **Part 1**

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.

The first step that I took in completing this task was to create a Web App through the Azure Portal. This required me to create a new Resource Group for this Task – which I conveniently named FilipTask1. The instance also needs a specific name which in this case I used midtermtaskpart1.azurewebsite.net. The region in question is East Us. The runtime stack is PHP 8.0. And would like to mention that PHP is probably faster than Python and 8.0 is a stable release. All the other settings were left as Default.

Graphical user interface, text, application, email

Description automatically generated

The screenshot below provides the Overview, basic information regarding the Web App that was previously created.

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The next step that we need to take is add an deployment slot. To that Deployment Slot we need to add a Local Git source. Create a Local Git User Scope. We need this for the next step. The credentials used in this instance are:

**Username**:filipdaskalovski and the **password**:KEYkey@2022

Graphical user interface, text, application, email

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The next step is to create a Storage Account. That will be mounted to the subscription and resource group used. We need to have the storage mounted, so we can proceed with deploying code to the slot. To do that we PowerShell comes to hand. Here we got the code from the location: <https://github.com/Azure-Samples/php-docs-hello-world>

Next we use Set-Location to set the new path that contains the code.

After that the we add the remote git. And finally we push the Code.

Graphical user interface, text

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If we go to the URL we are forwarded to the default web page and we can see that our task is completed.

Shape

Description automatically generatedThe default domain is: <https://midtermtaskpart1-deploymentslot.azurewebsites.net/>

## Part 2

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.

We start off by creating a Virtual Network. Created a new resource group for this task and named the virtual network: virtualnetworkpart2

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We need to set the IP addresses and add a subnet.

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The virtual network and the subnet is successfully created:

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Description automatically generated

The next step is to create a network security group.

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Add the newly created Network Security Group to the Subnet.

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Description automatically generated

Creating a virtual machineGraphical user interface, text, application, email

Description automatically generated

SSH public key and download the private key as a pem file.

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Graphical user interface, text, application

Description automatically generated

Connecting a Virtual NetworkGraphical user interface, text, application, email

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The created Virtual Machine. The public IP address is 20.231.110.243

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Confirmation for the Network Security Group

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Graphical user interface, application

Description automatically generated

Testing the connectionGraphical user interface, application, email

Description automatically generated

Tried creating a new virtual machine. Because I had difficulties connecting with the first one. I had problems with the first one because I did not enable RDP service security rule. But added it now.

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The connected devices to the Virtual Network.

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Graphical user interface, text, application, email

Description automatically generated

I cannot successfully connect to the Virtual Machine at this moment. I will try to redo the task once again. In case I do not finish on time, I will upload this word file as it is.   
  
In case I did not manage to edit this file. EDIT:I did not manage to finish it on time.  
The next step that I would do is to install Apache Web Server through the Console – sudo apt-get install apache2. Use cd /var/www/html and create a file – sudo nano hello.html and write Hello World.

Add simple html code to it:

<!DOCTYPE html>

<html>

<head>

<title>Hello world</title>

</head>

<body>

<h1>Hello world </h1>

</body>

</html>

Open my phone to test the Web Page.