**Part I**

**1. Create a Storage Account in Azure:**

a. Sign into the Azure portal (https://portal.azure.com)

b. Click on "Create a resource" and search for "Storage Account"

c. Fill in the required details like subscription, resource group, account name, location, and performance tier.

d. Click on "Review + Create" and then "Create" once the validation has passed.

**2. Create a Blob container for hosting the static website:**

a. Navigate to your Storage Account.

b. In the left menu, click on "Static website" under "Settings."

c. Set "Static website" to "Enabled" and enter the name of your default document (e.g., index.html).

d. Click "Save" and copy the "Primary endpoint" URL.

**3. Upload your "Hello World" HTML file:**

a. Create a simple HTML file with the content "Hello World!" and save it as "index.html."

b. In the left menu, click on "Containers" under "Blob service."

c. Open the container named "$web" and click "Upload."

d. Select your "index.html" file and click "Upload."

**4. Verify the default web page:**

a. Open a web browser and visit the "Primary endpoint" URL you copied earlier.

b. You should see the "Hello World!"

**Part II**

**1. Create a Virtual Network:**

a. Sign into the Azure portal (https://portal.azure.com).

b. Click on "Create a resource" and search for "Virtual Network."

c. Fill in the required details like subscription, resource group, name, region, and IP address range.

d. Click "Review + Create" and then "Create" once the validation has passed.

**2. Modify the Network Security Group (NSG):**

a. In the Azure portal, navigate to the newly created Virtual Network.

b. Click on "Subnets" and then the default subnet.

c. Click on the associated Network Security Group.

d. Add an inbound rule for SSH (*port 22*) with your local machine's IP address as the source.

e. Add an inbound rule for HTTP (*port 80*) with your local machine's IP address as the source.

f. Save the changes.

**3. Create a Linux Virtual Machine:**

a. Click on "Create a resource" and search for "Ubuntu Server" or your preferred Linux distribution.

b. Fill in the required details like subscription, resource group, virtual machine name, region, and administrator account.

c. In the "Networking" tab, select the Virtual Network and subnet you created earlier, and associate the NSG you modified.

d. Click "Review + Create" and then "Create" once the validation has passed.

**4. Connect to the VM:**

a. Once the VM is deployed, navigate to its "Overview" page.

b. Copy the public IP address and use an SSH client like PuTTY or your terminal to connect to the VM using the provided administrator account and your chosen authentication method (password or SSH key).

**5. Install Apache Web Server:**

a. Update the package list on the VM by running: **sudo apt-get update**

b. Install the Apache Web Server by running: **sudo apt-get install apache2 -y**

c. Enable the Apache service to start on boot: **sudo systemctl enable apache2**

**6. Deploy the “Hello World” web page:**

a. Create a simple "Hello World!" HTML file by running:

echo '<!DOCTYPE html>

<html>

<head>

<title>Hello World</title>

</head>

<body>

<h1>Hello World!</h1>

</body>

</html>' > index.html

b. Move the file to the default Apache web directory: **sudo mv index.html /var/www/html/**

**7. Testing from your cellphone:**

a. Temporarily allow inbound traffic from your cellphone's IP address to your VM in the NSG settings for HTTP (port 80).

b. On your cellphone, open a web browser and visit the public IP address of your Linux VM.

c. You should see the "Hello World!" web page.

d. Remember to remove the temporary rule from the NSG once the testing is complete.

**8. Provide the steps and results:**

a. Document the steps you took in each part of the exercise.

b. Include screenshots or descriptions of the results for each step, such as the "Hello World!" web page displayed on your local machine and cellphone.

Note: This test environment assumes that you have an Azure subscription with enough resources available for the tasks.

If you face any issues or limits, you may need to adjust your subscription or remove unused resources.

If you have successfully completed Part I and Part II, you should now have a static "Hello World!" website hosted on Azure Blob Storage and a Linux-based web server with the same "Hello World!" web page deployed using Apache.