5.1 Creating a VM, Adding a Web Role, and Downloading a Template



This section will guide you to:

* Login to your Azure account, create a Windows VM, and connect the VM using RDP

**Development Environment:**

* Windows 10
* Windows Azure cloud

This guide has six subsections, namely:

5.1.1 Logging into your Azure account

5.1.2 Creating a Windows VM

5.1.3 Connecting to the VM using RDP

5.1.4 Adding a Web Role to the server

5.1.5 Downloading an ARM template

5.1.6 Pushing the code to GitHub repositories

**Step 5.1.1:** Logging into your Azure account

* An Azure account has been enabled in your practice lab. Refer DotNet Lab guide: Phase 4 to learn how to use the practice lab.
* Login to the Azure Portal with the Azure/Microsoft credentials provided in the lab.

**Step 5.1.2:** Creating a Windows VM

* From the portal dashboard, click on **Virtual Machines.**
* Click on **Create Virtual Machine.**
* In the next screen, enter **Virtual Machine Name** with a globally unique name. For **Resource Group** click on **Create New** and enter a globally unique name.
* Select **Image** as Windows Server 2012 R2 Datacenter.
* Under **Administrator Account,** enter your desired **Username** and **Password.**
* For Region, select EAST US or WEST US.
* Click on **Next:Disks.**
* For OS Disk Type select **Standard HDD.**
* Click on **Next:Networking.**
* Clickon **Next:Management.**
* For **Diagnostics Storage Account** click **Create New**. Enter a globally unique name and click **Ok.**
* Click on **Next:Advanced.**
* Click on **Next:Tags.**
* Clickon **Next: Review+Create.**
* In the final Review page, if it shows **Validation Passed,** click **Create.**
* Wait until the virtual machine is created.
* From the Azure dashboard, go to **Virtual Machines.**
* In the row where your VM is listed, in the last column, click on the VM name.
* In the VM setup screen, click **Networking** in the left bar.
* Click on **Add Inbound Port Rule.**
* Set **Destination Port Ranges** to 80.
* Set **Name** to Port\_80.
* Click **Add.**
* Wait till the new inbound rule shows in the Rules list.

**Step 5.1.3:** Connecting to the VM using RDP

* From the Azure dashboard, go to **Virtual Machines.**
* In the row where your VM is listed, in the last column, click on the three dots and choose **Connect.**
* In the next screen, select **RDP** and click **Download RDP File.**
* In your local machine, double click the downloaded file and click **Connect.**
* For the **Unknown Publisher** dialog, click **Connect.**
* In the login window, click **More Choices->Use Different Account.**
* Enter the username and password that you have set for the VM and click **Ok.**
* The RDP connection will be established, and you will have access to the VM.

**Step 5.1.4:** Adding a Web Role to the server

* In the VM, open a PowerShell prompt and type the following to setup Web Server services: *Install-WindowsFeature -name Web-Server -IncludeManagementTools*
* From the Start Menu, open Internet Explorer and type in <http://localhost>.
* It should show the IIS welcome page.
* Exit the RDP session.
* In the Overview page of the VM, locate the **Public IP Address** and copy it.
* In your local browser type http:// followed by the IP address. It should show the same IIS welcome page.

**Step 5.1.5:** Downloading an RM template

* In the VM listing page, locate your VM item and click on the name.
* In the VM overview page, locate **Export Template** in the left bar.
* This will generate and display the export template content for the VM. Click on **Download** at the top. This will download a zip file.
* Open the zip file locally and extract **template.json.** This will contain the template data.

**Step 5.1.6:** Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add .

Commit the changes using the following command:

git commit -m “Changes have been committed.”

Push the files to the folder you created initially using the following command:

git push -u origin master