5.12 Azure Virtual Network



This section will guide you to:

* Create a Virtual Private Network and a gateway to implement network watchers

**Development Environment:**

* Windows 10
* Windows Azure cloud

This guide has four subsections, namely:

5.12.1 Creating a Virtual Network

5.12.2 Creating a VPN Gateway

5.12.3 Implementing Network Watcher

5.12.4 Pushing the code to GitHub repositories

**Step 5.12.1:** Creating a Virtual Network

* 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.
* From the portal page, search for **Virtual Networks** and click on it.
* In the Virtual Networks listing page, click on **+Add.**
* In the **Create Virtual Network** form, for **Name** enter a globally unique name using alphanumeric characters and hyphen.
* For **Resource Group,** use an existing one or click **Create New.**
* Enter Address space for your Network.
* Click **Create.**
* Once deployment is complete, it will show up in the list of Virtual Networks.

**Step 5.12.2:** Creating a VPN Gateway

* From the portal page, search for **Virtual Network Gateways** and click on it.
* In the Virtual Network Gateways listing page, click on **+Add.**
* In the **Create Virtual Network Gateway** form,for **Name** enter a globally unique name using alphanumeric characters and hyphen.
* For **Public IP Address Name,** enter a globally unique name using alphanumeric characters and hyphen.
* For **Virtual Network,** select the Virtual Network we created in step 1 above.
* Click **Review+Create.**
* Once validation completes click **Create.**

**Step 5.12.3:** Creating a VPN Gateway

* From the portal page, search for **Network Watcher** and click on it.
* In the Network Watcher page, click on **Topology** in the left bar.
* From the **Resource Group** dropdown, select a resource group.
* From the **Virtual Network** dropdown, select a virtual network.
* It will show a topology diagram of the virtual network.
* Click on a node in the diagram to see details of that node.

**Step 5.12.4:** 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