5.9 Managing Azure Storage



This section will guide you to:

* Create an Azure Storage account, use Azure Backup Service, and access data using CDN

**Development Environment:**

* Windows 10
* Windows Azure cloud

This guide has five subsections, namely:

5.9.1 Creating an Azure Storage account

5.9.2 Using Azure Backup Service

5.9.3 Accessing data using a CDN

5.9.4 Transfering data using Import/Export service

5.9.5 Pushing the code to GitHub repositories

**Step 5.9.1:** Creating an Azure Storage 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.
* From the portal dashboard, click **More Services.**
* In the next, page click **Storage Accounts.**
* On the Storage Accounts page, click **Add** at the top.
* For **Resource Group,** either select an existing one or click **Create New.**
* For **Storage Account Name,** choose a globally unique name.
* Make sure that the storage account is in East US or West US.
* For the Replication field, select Locally Redundant Storage.
* Click **Next:Networking.**
* Click **Next:Advanced.**
* Click **Next:Tags.**
* Click **Next:Review+Create.**
* Click **Create** after it has passed the validation tests.
* Wait till the deployment is complete.
* Click on **Go to Resource** to view the storage.

**Step 5.9.2:** Using Azure Backup Service

* From the portal page, click **Virtual Machines.**
* Click on a VM entry from the list of VMs.
* From the left bar look for **Backup** and click on it.
* In the next screen, select **Create New** for **Recovery Services vault.**
* Click on **Enable Backup.**
* After validation, the backup service will be enabled for this VM.

**Step 5.9.3:** Accessing data using a CDN

* Search for subscriptions in the search bar.
* Select your current subscription from the list of subscriptions.
* On the left menu, select Resource providers.
* Type in Microsoft.CDN in the **Filter by name** field.
* Make sure that the status of Microsoft.Cdn is registered. If it’s not then click on the **Register** button on the top bar.
* Search for CDN in the search bar and click on it.
* Click on **Create.**
* In the CDN profile section enter a globally unique nameusing only lowercase alphabets, numbers or a hyphen.
* For **Resource Group,** select an existing one or click **Create New.**
* Make sure that the location is set on East US or West US.
* For **Pricing** select Standard Microsoft.
* Click **Create.**
* It takes some time to create the CDN. Once it is listed in your CDN Profiles, click on it.
* Click **Endpoint** and then click **+Endpoint.**
* In the Endpoint popup, for **Name** enter a globally unique name using only lowercase alphabets, numbers or a hyphen.
* For **Origin Type** choose **Storage.**
* For **Origin-Hostname,** enter a globally unique nameusing only lowercase alphabets, numbers or a hyphen.
* Click **Add.**
* On successful completion, the new endpoint will be displayed in the list of endpoints.

**Step 5.9.4:** Transfering data using Import/Export service

* From the portal page search for Import/Export and click on **Import/Export Jobs.**
* In the Import/Export jobs listing page, click **Create import/export job.**
* In the Create screen, set **Type** as Export from Azure.
* For **Name,** enter a globally unique nameusing only lowercase alphabets, numbers or a hyphen.
* For **Resource Group,** select an existing one or click **Create New.**
* Click **Ok.**
* In the next screen for **Data Source,** click on Storage Account and select a storage account from the displayed list.
* For **Blobs to Export** select All.
* Click **Ok.**
* For **Return Shipping Info,** choose a Carrier and enter the contact fields as required.
* In the next screen for **Summary,** provide the relevant Azure Data Centre address details for return shipping.
* Click **Ok.**
* After the drives containing the data have been physically shipped, return to the Import/Export jobs list and click on the job item.
* Click **Update Job Status and tracking info once drives are shipped.**
* Check **Mark as shipped.**
* Enter correct values for **Carrier** and **Tracking number.**
* Click **Ok.**
* The job can be tracked from the portal by going into **View the Job Status** option for the job.
* Once a job shows as completed, verify that the data has been uploaded to Azure.

**Step 5.9.5:** 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