Azure Batch Service

Azure Batch Service Setup

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# About this solution

## Goals

The goal of this document is to building azure batch service to run custom application to process files in parallel to generate output file in very short time.

# Solution

## Solution details

Azure batch service solution has three projects.

1. FileprocessApp project is a utility to run the custom application on the batch service node and copy the output files to azure output directory upon completion.
2. ConsoleTest project is used to generate sample copy of files in azure storage for testing.
3. Jefff\_ProcessFiles project is the main project for batch service configuration and run the service.

You can setup the VM in your environment in two ways:

1. We have pre-installed and pre-configured the required products and demo assets for you on a VM. Replicate the Preconfigured VM into your own Azure subscription and use the vm with all Demo features built-in
2. Create your own VM with SQL Server 2016 CTP 3.3 Configured with SSAS and SSRS and download the BI Demo Content Package from this Shared Location with all the Configuration Instructions Included.
3. To access a preconfigured Report manger url without any configuration. Go to

[*http://bi2016ctp33-ss.cloudapp.net/reports\_preview/*](http://bi2016ctp33-ss.cloudapp.net/reports_preview/)with the following credentials

Username: biuser

Password: **Pass@word564**

## Replicating the VM into your Azure subscription

| Steps | Screenshot |
| --- | --- |
| 1. Download and install the **AzCopy** utility from the URL:   <https://azure.microsoft.com/en-in/documentation/articles/storage-use-azcopy/>   1. After the completion of the installation, open a **Command Prompt** window and change directory to the default installation path:   **C:\Program Files (x86) \Microsoft SDKs\Azure\AzCopy** |  |
| 1. You will need an **Azure Storage Account** to copy the VM into. 2. Login to your Azure subscription, then navigate to the **Storage** section. 3. Select **Quick Create**. |  |
| 1. Go to the newly created storage account and click on **Manage Access Keys** |  |
| 1. Copy the **Primary Access Key** to the clipboard. 2. Add a **Container** to the newly created storage. |  |
| 1. Switch back to the previous **Command Prompt** window. 2. Use the following command to copy the VM image into your subscription, with the edits below:   **AzCopy /Source:https://sourceaccount.blob.core.windows.net/mycontainer1 /Dest:https://destaccount.blob.core.windows.net/mycontainer2 /SourceKey:key1 /DestKey:key2 /Pattern:abc.txt**   1. Replace the source account container link **https://sourceaccount.blob.core.windows.net/mycontainer1**   with [**https://portalvhdsbcyd8t7bs4rdp.blob.core.windows.net/field/**](https://portalvhdsbcyd8t7bs4rdp.blob.core.windows.net/field/)   1. Replace the destination account container link with your azure blob storage container link. 2. Replace **key1** with **v9TMXT9OmePMcDcUISMT8ltCnxCtLBfISGj2qfRTpKFEEWKqD3j9EuG8SmpIFbGYBoTQwDx0BT1+EmPOsaPeAA==** 3. Replace **key2** with your blob storage access key. 4. Replac**e /pattern:abc.txt** wit**h /pattern: BI2016ctp33-VM.vhd** 5. Run the final command.   *Note: This activity can take some time as its copying a VM image file with 127GB from one subscription blob storage to your storage account.* |  |
| 1. Login to your Azure subscription, and navigate to **Virtual Machines** to register the copied VM file as an image. 2. Navigate to **Images**. 3. Select **Create.** |  |
| 1. Enter the following details:   **Name**: **Northwind Traders Demo VM**  **Description**: **Northwind Traders Demo VM**  **VHD URL**: Click on the folder icon and choose the copied VHD file from blob storage container.  **Operating System:** **Windows**   1. Check **I have run Sysprep on the virtual machine**. 2. Click on **OK**.   ***Note****: The registered image will be available for creating VM in few minutes* |  |
| 1. Navigate to **Virtual Machines**, and select **Create a virtual machine**. 2. Select from **gallery** option. |  |
| 1. Choose the newly registered VM name from the list. 2. Click on **Next** |  |
| 1. Provide valid **Virtual machine name** 2. Select the size as per requirement 3. Specify a **New User name** and **Password**   **Username**: **Choose your own Username**  **Password**: **Choose your own Password**  **\*\*\* *Use above credentials to access all the internal demo resources*.**   1. Click on **Next** |  |
| 1. Add new **Endpoints**, including for **HTTP** with default port **80**. 2. Click on **Next**. 3. **Complete** the **Virtual machine configuration**.   The Demo VM will be ready in a few minutes. |  |
| 1. Verify that the new VM is running in your subscription. Open the browser on your system. 2. Navigate to the following URL (replace {{yourvmname}} with your VM name) to browse the Report manager on any client devices over the Internet.   http://{{**yourvmname**}}. cloudapp.net/reports\_preview   1. When prompted, provide the **User Name** and **Password** that you configured in the previous step **29** |  |
| 1. Click on the **Preview the new Reporting Services** link on the top left corner of your browser page. |  |