How to Upload Azure VHD Images for User Defined Images using ARM

https://campus.barracuda.com/doc/79463339/

To use the VHD disk images from the Barracuda Download Portal to deploy your CloudGen Firewall or Control Center in Azure, you must upload the images to your storage account.

If you prefer to use the Microsoft Azure Portal, download the CloudGen Firewall or Control Center VHD disk images from the Barracuda Download Portal , then upload the VHD to a storage container as a page blob. Follow the instructions at Microsoft to create an image, but instead of using a virtual machine, use the VHD uploaded before. For more information, see https://docs.microsoft.com/en-us/azure/virtual-machines/windows/create-vm-generalized-managed.

Before You Begin

- Download the CloudGen Firewall or Control Center VHD disk images from the Barracuda Download Portal.
- Install Azure PowerShell version 1.1.0 or higher.
- Log into your Azure account with `Login-AzureRmAccount`.

Step 1. Create a Resource Group for Storage

Create an Azure resource group for the storage account. Skip this step to use an existing Azure resource group.

1. Open an Azure PowerShell.
2. Create a resource group:

```
New-AzureRmResourceGroup -Name RESOURCE_GROUP_NAME -Location LOCATION
```

Step 2. Create a Storage Account

Create an Azure storage account in the resource group created in Step 1. Skip this step to use an existing Azure storage account.

1. Open an Azure PowerShell.

2. Create a storage account:

```
New-AzureRmStorageAccount -ResourceGroupName RG_NAME -Name
STORAGE_ACCOUNT_NAME -Type Standard_LRS -Location YOUR_LOCATION
```

```
PS C:\> New-AzureRmStorageAccount -ResourceGroupName DOC-Storage -Name docstorage1 -Type Standard_LRS -Location "West Eu
rope"

ResourceGroupName   : doc-storage
StorageAccountName  : docstorage1
Id                  : /subscriptions/[redacted]/resourceGroups/doc-storage/providers/Microsof
                      t.Storage/storageAccounts/docstorage1
Location            : westeurope
AccountType         : StandardLRS
CreationTime        : 11.01.2016 13:55:29
CustomDomain        :
LastGeoFailoverTime :
PrimaryEndpoints    : Microsoft.Azure.Management.Storage.Models.Endpoints
PrimaryLocation     : westeurope
ProvisioningState   : Succeeded
SecondaryEndpoints  :
SecondaryLocation   :
StatusOfPrimary     : Available
StatusOfSecondary   :
Tags                : {}
Context             : Microsoft.WindowsAzure.Commands.Common.Storage.AzureStorageContext
```

Step 3. Create a Container and Upload the VHD Disk Image

Create a Blob container and then upload the VHD disk image to the storage account.

1. Open an Azure PowerShell.
2. Create a Blob container:

```
$storageAcc = Get-AzureRmStorageAccount -ResourceGroupName
RESOURCE_GROUP_NAME -Name STORAGE_ACCOUNT_NAME
New-AzureStorageContainer -Name CONTAINER_NAME -Context
$storageAcc.Context -Permission Blob
```

```
PS C:\> $storageAcc = Get-AzureRmStorageAccount -ResourceGroupName DOC-Storage -Name docstorage1
PS C:\> New-AzureStorageContainer -Name images -Context $storageAcc.Context -Permission Blob

   Blob End Point: https://docstorage1.blob.core.windows.net/

Name                                                 PublicAccess         LastModified
----                                                 ------------         ------------
images                                               Blob                 12.01.2016 08:07:19 +00:00
```

3. Upload the VHD disk image:

```
Add-AzureRmVhd -LocalFilePath PATH_TO_LOCAL_DISK_IMAGE_FILE -
ResourceGroupName RESOURCE_GROUP_NAME -Destination
"$($storageAcc.PrimaryEndpoints.Blob)CONTAINER_NAME/DISK_IMAGE_NAME.vhd"
```

```
Windows PowerShell
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 Uploading
    42,8% complete; Remaining Time: 00:07:35; Throughput: 47,1Mbps
    [ooooooooooooooooooooooooooooooooooooooooooooooooo                                                    ]
    00:07:35 remaining.

PS C:\Users\mzoller\Desktop>
PS C:\Users\mzoller\Desktop> Add-AzureRmVhd -LocalFilePath E:\azure\GWAY-6.2.0-216-Azure.vhd -ResourceGroupName DOC-Stor
age -Destination "$($storageAcc.PrimaryEndpoints.Blob)vhds/NGImage.vhd"
MD5 hash is being calculated for the file  E:\azure\GWAY-6.2.0-216-Azure.vhd.
MD5 hash calculation is completed.
Elapsed time for the operation: 00:03:28
Creating new page blob of size 85899346432...
```

You can now use the uploaded VHD disk image for your custom PowerShell or template-based Azure deployments using the Azure Resource Manager.

To create a reusable image that can be paired with managed disks, you can use the following commands:

```
$imageConfig = New-AzureRmImageConfig -Location $location
$imageConfig = Set-AzureRmImageOsDisk -Image $imageConfig -OsState
Generalized -OsType Linux -BlobUri
"$($storageAcc.PrimaryEndpoints.Blob)CONTAINER_NAME/DISK_IMAGE_NAME.vhd"
$image = New-AzureRmImage -ImageName IMAGE_NAME -ResourceGroupName
RESOURCE_GROUP_NAME -Image $imageConfig
```

Next Steps

Deploy a CloudGen Firewall F VM using the uploaded source image via Azure PowerShell. For more information, see How to Deploy a CloudGen Firewall in Microsoft Azure Using PowerShell and ARM.

Figures

1. azure_vhd_upload_02.png
2. azure_vhd_upload_03.png
3. azure_vhd_upload_04.png

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