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

<https://campus.barracuda.com/doc/72515958/>

To use the VHD disk images from the [Barracuda Download Portal](#) to deploy your CloudGen Firewall or Firewall Control Center in Azure, you must upload the images to your storage account. It is currently not possible to deploy user-defined images via the Azure web portal; instead, use PowerShell or template-based deployment methods.

### Before You Begin

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- 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

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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

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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 Europe"

ResourceGroupName : doc-storage
StorageAccountName : docstorage1
Id                : /subscriptions/.../resourceGroups/doc-storage/providers/Microsoft.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
[.....]
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-Storage -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.

## Next Steps

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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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