

## How to Create a Barracuda F-Series Firewall Azure Image from a VHD Disk Image using ASM

<https://campus.barracuda.com/doc/48202643/>

To create your own custom Barracuda NextGen Firewall F-Series or NextGen Control Center images from the VHD disk images available in the Barracuda Download Portal, you must upload the VHD file to your Azure storage account. Then, you can create a custom image using the uploaded disk image.

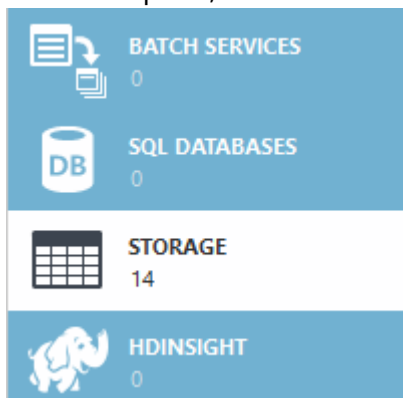
### Before you begin

- Download and install the latest version of [Azure PowerShell](#).
- Download the Barracuda NextGen Firewall F-Series or NextGen Control Center VHD disk image from the Barracuda Download Portal: <https://dlportal.barracudanetworks.com>

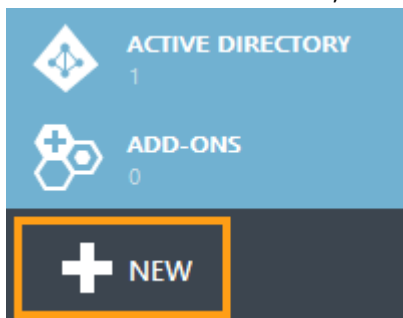
### Step 1. Create an Azure storage account

Create the storage account and a container as the upload destination.

1. Log into your Microsoft Azure Management Portal (<https://manage.windowsazure.com>).
2. In the left pane, click **STORAGE**.

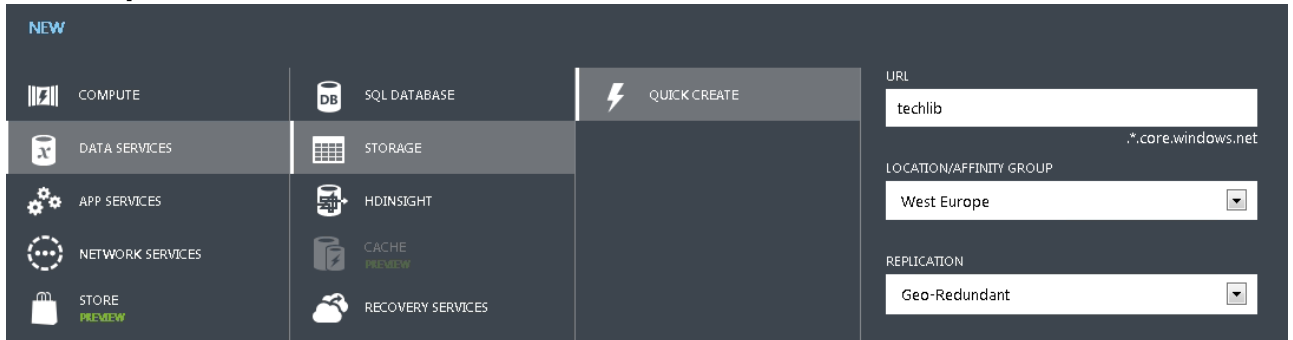


3. In the bottom left corner, click **+ NEW**. The **Storage Account** window opens.



4. Click **Quick Create**, and configure the following settings:

- **URL** – Enter a unique URL.
- **Location/Affinity Group** – Select your Location. E.g., **West Europe**
- **Replication** – Select **Geo-Redundant**.



NEW

COMPUTE | SQL DATABASE | QUICK CREATE

DATA SERVICES | STORAGE

APP SERVICES | HDINSIGHT

NETWORK SERVICES | CACHE (PREVIEW)

STORE (PREVIEW) | RECOVERY SERVICES

URL: techlib  
\*.core.windows.net

LOCATION/AFFINITY GROUP: West Europe

REPLICATION: Geo-Redundant

5. Click **CREATE STORAGE ACCOUNT**.

The storage account is ready when its status changes from **Creating** to **Online**.

## Step 2. Create a storage container

You must create a storage container because you cannot create virtual machine images from files that are uploaded to the root directory of the storage account.

1. Log into your Microsoft Azure Management Portal (<https://manage.windowsazure.com>).
2. In the left pane, click **STORAGE**.
3. Click the storage account that you created in Step 1.
4. Click on the **CONTAINERS** tab.
5. Click **CREATE A CONTAINER**.

techlib

DASHBOARD | MONITOR | CONFIGURE | CONTAINERS

This storage account has no containers.

CREATE A CONTAINER →

6. Enter a **NAME** for the container (e.g., vhd).
7. From the **ACCESS** list, select **Private**.

## New container

NAME

vhd

ACCESS ?

Private

8. Click the check mark icon (✓).



techlib

DASHBOARD MONITOR CONFIGURE CONTAINERS

NAME	URL	LAST MODIFIED
vhd	→ http://techlib.blob.core.windows.net/vhd	12/19/2013 10:54:24 AM

### Step 3. Upload the F-Series Firewall VHD image

Upload the Barracuda NextGen Firewall F-Series Azure VHD image to a Microsoft Azure storage container.

You only need to import the publishsettings file when using Azure PowerShell for the first time.

1. Launch the Azure PowerShell.
2. At the PS prompt, download your Azure Publish Settings file:  
`Get-AzurePublishSettingsFile`
3. Your default browser opens. Save the publish settings file.
4. Import the publishsettings file by typing:

```
Import-AzurePublishSettingsFile c:\path-to-  
settingsfile\settingsfile.publishsettings
```

5. Verify the Azure account subscription by typing:  
`Get-AzureSubscription`

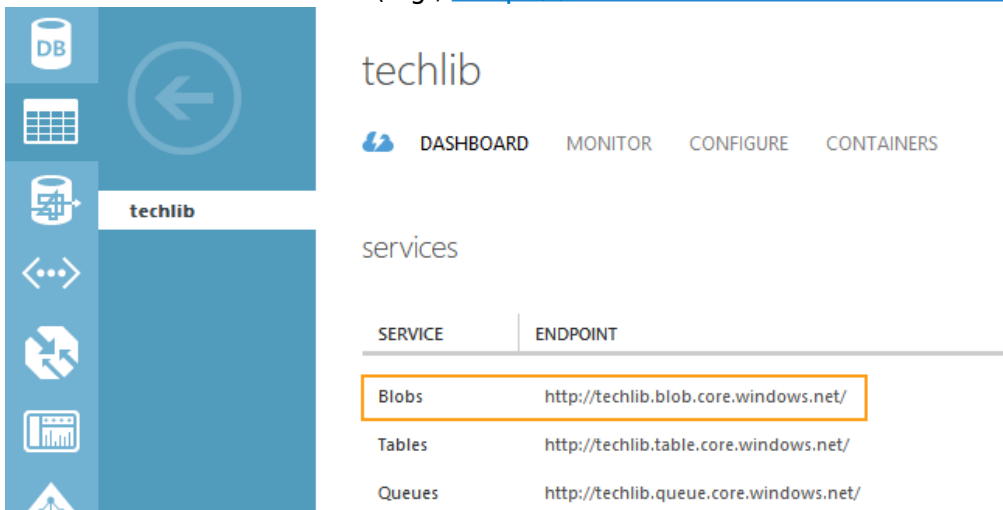
```

Select Windows Azure PowerShell
PS C:\> Get-AzureSubscription

SubscriptionName      : Free Trial
SubscriptionId       : 1a422a4e-          -deb3fdc6e6f8
Certificate           : [Subject]
                     CN=Windows Azure Tools
                     [Issuer]
                     CN=Windows Azure Tools
                     [Serial Number]
                     16E5
                     [Not Before]
                     17.12.2013 11:40:21
                     [Not After]
                     17.12.2014 11:40:21
                     [Thumbprint]

ServiceEndpoint      : https://management.core.windows.net
SqlAzureServiceEndpoint :
CurrentStorageAccount :
IsDefault            : True
CurrentCloudStorageAccount :
    
```

6. Log into your Microsoft Azure Management Portal (<https://manage.windowsazure.com>).
7. On the **DASHBOARD** page of the storage account, click **Storage** in the left pane and get the URL of the Blob destination (e.g., <http://techlib.blob.core.windows.net> ).



8. Upload the VHD to your Azure storage container by typing:

```
Add-AzureVhd -Destination <BLOBS-URL/container/FILENAME.vhd> -
LocalFilePath <path-to-vhd-file/filename.vhd>
```

```

Select Windows Azure PowerShell

Calculating MDS Hash
80.8% complete; Remaining Time: 00:01:24; Throughput: 1495.3Mbps
|-----| 1
00:01:24 remaining.

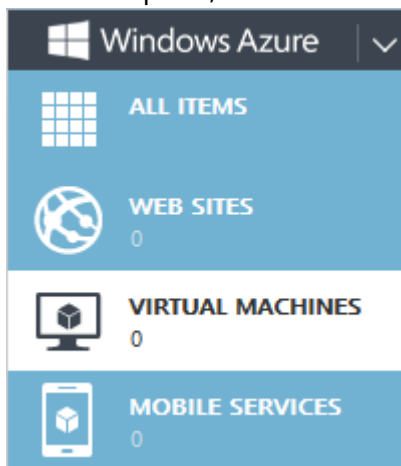
PS C:\>> Add-AzureVhd -Destination "http://techlib.blob.core.windows.net/vhd/GWAY_NEW.vhd" -LocalFilePath "C:\azure\GWAY543077NEW.vhd"
MDS hash is being calculated for the file C:\azure\GWAY543077NEW.vhd.
    
```

Upload the VHD to a storage container. Microsoft Azure does not allow a virtual machine to be created from a VHD file in the root (\$root) directory.

## Step 4. Create a virtual machine from a VHD image

Create a virtual image from the uploaded VHD image.

1. Log into your Microsoft Azure Management Portal (<https://manage.windowsazure.com>).
2. In the left pane, click **VIRTUAL MACHINES**.



3. Click **IMAGES**.

virtual machines

VIRTUAL MACHINE INSTANCES IMAGES DISKS

No images have been created. To get started, click Create an image or Browse VM Depot.

CREATE AN IMAGE →

BROWSE VM DEPOT →

4. Click **CREATE AN IMAGE**.
5. In the **Create an image from a VHD** window:
  1. Enter the **NAME** for the virtual image (e.g., BNG).
  2. Either enter the **VHD URL**, or click the folder icon to select the image that you uploaded in Step 3 from the storage container.
  3. From the **OPERATING SYSTEM FAMILY** list, select **Linux**.
  4. Select the check box to confirm that the Microsoft Azure Linux Agent has been run on the virtual machine associated with the VHD.

## Create an image from a VHD


NAME

BNG

DESCRIPTION

Barracuda NG Firewall Vx

VHD URL

 [http://techlib.blob.core.windows.net/vhd/GWAY\\_](http://techlib.blob.core.windows.net/vhd/GWAY_)

OPERATING SYSTEM FAMILY

Linux

 I have run the Windows Azure Linux Agent on the virtual machine associated with this VHD.

6. Click the check mark icon (✓).

You can now select your custom Barracuda NextGen Firewall F-Series or NextGen Control Center image when deploying the VM.

### virtual machines

VIRTUAL MACHINE INSTANCES IMAGES DISKS

NAME	SUBSCRIPTION	STATUS	LOCATION
BNG	Free Trial	✓ Available	<a href="http://techlib.blob.core.windows.net/vhd">http://techlib.blob.core.windows.net/vhd</a>

### Next step

- [How to Deploy the Barracuda F-Series Firewall in Azure via PowerShell and ASM](#)

## Figures

1. Azure\_Upload\_VHD\_01.png
2. Azure\_Upload\_VHD\_02.png
3. Azure\_Upload\_VHD\_03.png
4. Azure\_Upload\_VHD\_04.png
5. Azure\_Upload\_VHD\_05.png
6. AzureOK.png
7. Azure\_Upload\_VHD\_06.png
8. Azure\_Upload\_VHD\_07.png
9. Azure\_Upload\_VHD\_08.png
10. Azure\_Upload\_VHD\_09.png
11. Azure\_Upload\_VHD\_10.png
12. Azure\_Upload\_VHD\_11.png
13. Azure\_Upload\_VHD\_12.png
14. AzureOK.png
15. Azure\_Upload\_VHD\_13.png

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