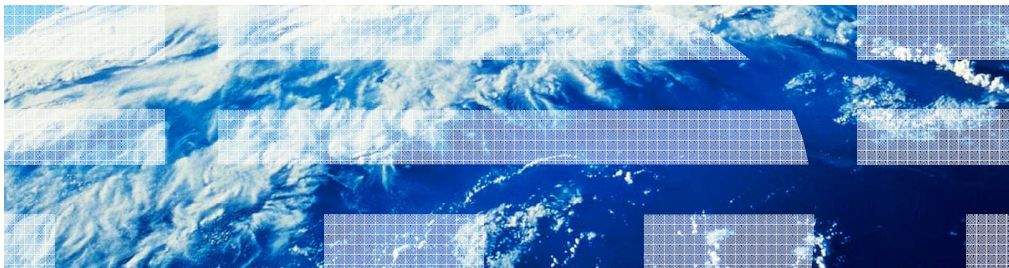


IBM WebSphere CloudBurst Appliance

Virtual image export and import



This presentation will cover the virtual image export and import features.

Agenda

- Exporting virtual images
- Importing virtual images

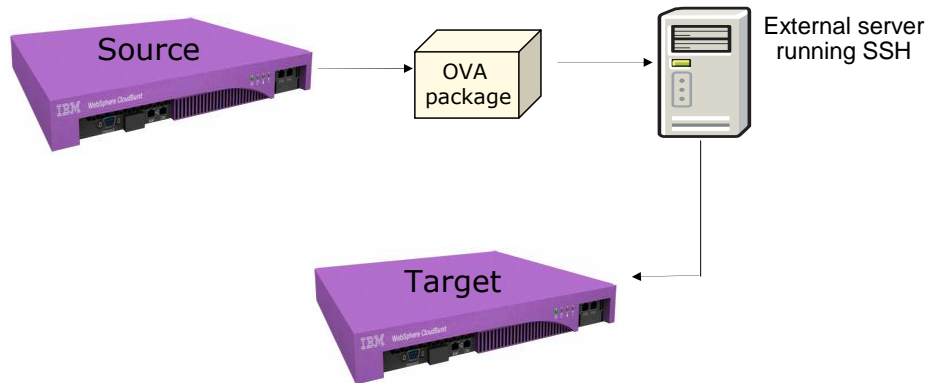
This presentation will cover the steps involved in both exporting and importing virtual images.

Exporting virtual images

The catalog on the WebSphere® CloudBurst™ Appliance provides the capability to export virtual images.

Exporting virtual images

- Used to copy or move virtual images to another appliance



The ability to import and export an image on WebSphere CloudBurst is now available. You can export a virtual image from one appliance and import into another appliance. You can use this feature as a way to transfer stand-alone virtual images or use it in conjunction with the pattern export and import feature.

Exporting images through the command-line

```
>>> image = cloudburst.virtualimages[0]
>>> image.export({
    'host': 'wca.yourcompany.com',
    'path': '/VirtualImages/exported',
    'userid': 'root',
    'password': 'secret'
})
```

There are two export methods available: the command-line interface and the graphical Web console. The information needed for both methods is identical. You need four pieces of information before you begin the process. The process will take between 45 and 60 minutes to complete depending on the speed of your network. The target host name is required. This host must support SCP. SCP protocol is a means of securely transferring files between two remote host machines using the SSH (Secure Shell) protocol. You must supply the path or location on the target system where you want the OVA placed. You must supply the user name and password of the target system. Once you have gathered this information you can begin the process. This page shows an example of how to provide these parameters and export an image using the command-line interface.

Exporting virtual images from the console

WebSphere Application Server 7.0.0.5

Description:	IBM WebSphere Application Server Hypervisor Edition 7.0.0.5
Hypervisor type:	ESX
Version:	7.0.0.5
Image reference number:	cf050935.13

To what location should the image be exported?

- * Remote host: 9.76.107.163
- * Remote path: /VirtualImages/Exported
- * User name: UserName
- * Password:
- * Verify password:

Current status: Task is queued for image export

OK Cancel


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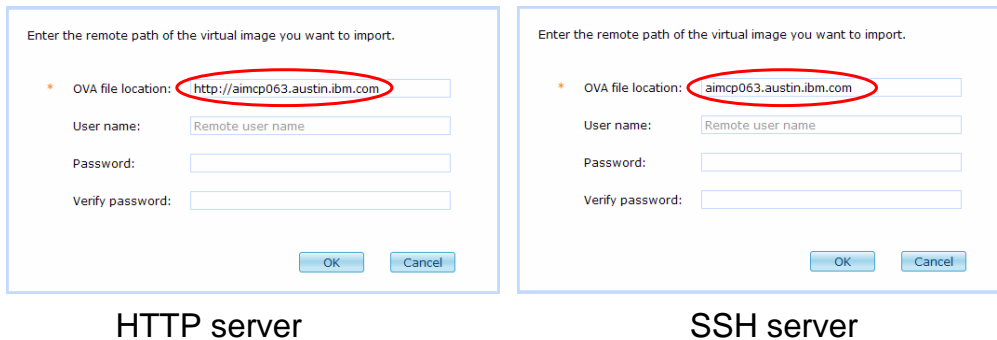
The second method of exporting virtual images is through the console. Item one shows the icon used to start the export process. As with the command-line interface method, the administrator must know the host name or IP address of the SSH server that has SCP enabled. This is where the exported virtual image is stored. The remote path indicates the location on the host where the OVA file is copied. The user name is used to establish a connection with the SSH server. The password is associated with the user name. Once the administrator starts the export process, the virtual image export is placed into the task flow for the appliance as shown with item three. The status of the export is “queued for image export”. When the export is complete, the status of the virtual image is changed appropriately.

Importing virtual images

This section will cover how to import a virtual image into the WebSphere CloudBurst catalog.

Importing images through the user interface

- Navigate to **Catalog > Virtual Imag**  >
- No longer required to host the virtual image on an HTTP server when importing by way of the UI
- Import virtual images using SCP
- Remove the "http://" prefix from URL entered in the "OVA file location" field



Enter the remote path of the virtual image you want to import.

* OVA file location:

User name:

Password:

Verify password:

OK Cancel

HTTP server

Enter the remote path of the virtual image you want to import.

* OVA file location:

User name:

Password:

Verify password:

OK Cancel

SSH server

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Virtual image export and import

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To import a virtual image (OVA) into WebSphere CloudBurst's catalog you navigate to Catalog > Virtual Images and click the green plus icon. This will open up a window where you are required to enter the host hosting the virtual image. This can be an HTTP server or an SSH server. If the HTTP server is secure then you will need to enter a user name and password. Also, WebSphere CloudBurst has the ability to import virtual images hosted on a SSH server using the command-line interface. The virtual image import panel is the same for both server types. To specify a SSH server you just do not pre-pend "http://" to the host name. This is shown in the graphic on the right.

Importing images through the command-line

- Equivalent to using user interface and importing from an external HTTP server

```
>>> cloudburst.virtualimages.create(  
    'http://server.company/path/to/foo.ova')
```

- Upload virtual image from machine hosting the command-line interface

```
>>> cloudburst.virtualimages.create( '/path/to/foo.ova')
```

The command-line interface supports uploading virtual images to the WebSphere CloudBurst catalog either from an HTTP server or the local host running the command-line. The first sample snippet on this page gives an example of the syntax for importing an image from an HTTP server. The command-line interface also lets you upload virtual images locally. In this case, no external HTTP server is required for the upload. In either case, HTTP is the protocol that WebSphere CloudBurst will use to transfer the virtual images to the catalog.

Summary

- Virtual image export and import operations were covered
- The HTTP server requirement can be removed by using the command-line interface

Exporting and importing virtual images into the WebSphere CloudBurst catalog requires only a few pieces of information to complete. With the addition of the export feature, you can now export your virtual image from one appliance and import into another appliance or use the feature as a way to back up your virtual images. The biggest obstacle of importing a virtual image is the HTTP server requirement. This requirement can be removed by using the command-line interface which does not require an external HTTP server.

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