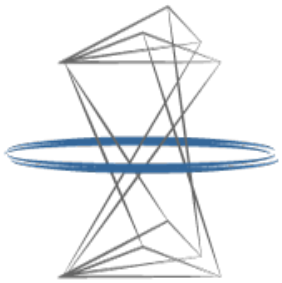
MIGRATE2IAAS CLOUDSCRAPER™v0.6
USER MANUAL



20 Oct 2015

http://www.migrate2iaas.com

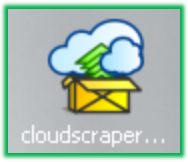
Contents

Download and install

1. Go to Download page, fill the required information and click **Download** button.
   You will be directed to next page. Click the provided link to start downloading.

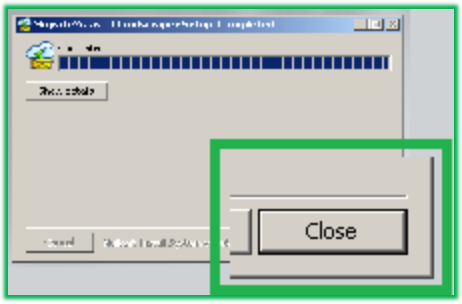
(!)Note: Install Cloudscraper directly to the server you want to transfer.
In virtualized environments, install Cloudscraperto your guest operating system.

2. Install Cloudscraper by double-clicking the downloaded file.



Note: If you're prompted for an administrator password or confirmation, type the password or provide confirmation.

3. Review the license agreement on the first page. If you accept all the terms, click **I Agree** button.
4. Follow the instructions on your screen.
5. Once installation completed, click **Close**.

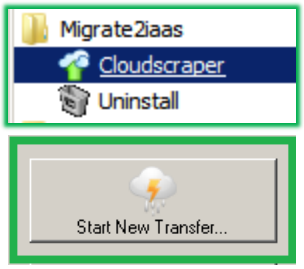


Start new transfer

Before you begin

- Make sure the server you wish to transfer is connected to the Internet.
- The images are created and saved to local or shared folder prior to upload. Check if there is enough free space to store them.
- Make sure that your server time is synchronized with Internet.
- Check your server is compatible with the target cloud by browsing the Server Compatibility Matrix on the www.migrate2iaas.com
- Cloudscraper requires Microsoft .NET Framework 2.0

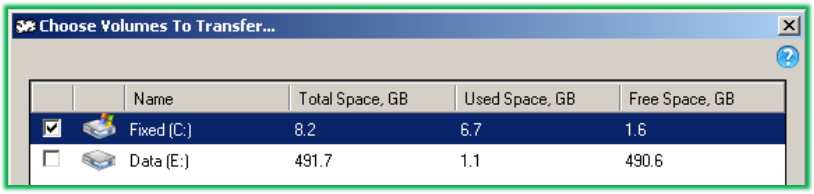
1 :Common steps



1. Click the **Start** button, go to all Programs - Migrate2iaas and run **Cloudscraper**.
2. At **Cloudscraper Server Clone** first page click **Start New Transfer** button.

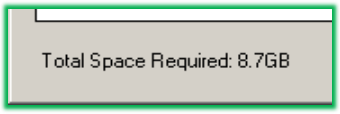
➔ Tip: **Help** on each page refers to corresponding online manual page.

3. At the next step choose what **volume(s) to transfer**, click **Next**.



➔ Tip : You can transfer system volume only or include required data volumes too.

Note: Please ensure that there is enough free space to store images locally. The total space required is shown on the left-bottom corner of the window.



It takes a lot of time to upload the images to the cloud storage (e.g. 4 hours for 20GB image to be uploaded from EU to US), please choose wisely what to transfer.

4. Next, choose the desired **cloud service provider**. You will be directed to corresponding cloud options page.

Note: you should have active account with enough resources to migrate your server.

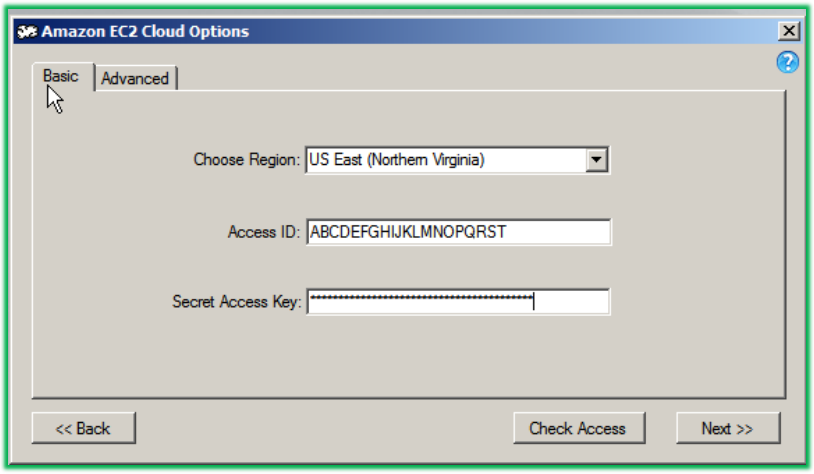
2.1 :Amazon EC2 options

1. At **Basic** tab enter required connection details:
   1.1. **Region** (data-center location)

Note: The server destination region will affect your image transfer speed and latency. It's recommended to choose the region which is max close to server physical location.

   1.2. AWS credentials (**Access key** and **Secret key**)

Note: Cloudscraper will never save, keep or share your Secret key.



➔ Tip: Find AWS credentials here -AWS security credentials page (Access Keys section).

Cloudscraper will use this connection details to upload your image and create EC2 instance (virtual machine).

2. Click **Check Access** button to verify connection.
3. Now you can click **Next** to configure transfer or specify additional options at **Advanced** tab.

Note: if advanced settings are not defined, Cloudscraper will use default values.

Advanced Amazon options

1. Enable check box **Use advanced settings**
2. Specify **S3 bucket**: enter the name of existing or new S3 bucket to store the disk images. See S3 bucket naming rules in order to choose correct name.

> ➔ Tip: S3 bucket names are global and shared between all the users of AWS. Hence the S3 bucket name could already be used by another user. You can check if the specified bucket is available pressing **Test Connection** button.

3. Specify a **folder name** in a bucket to store the image.
4. Specify desired **instance type**. Amazon EC2 instance type is characterized by set of resources available for your server like RAM, CPU core numbers , etc.

Note: The type of instance could be changed anytime while it's in a stopped state

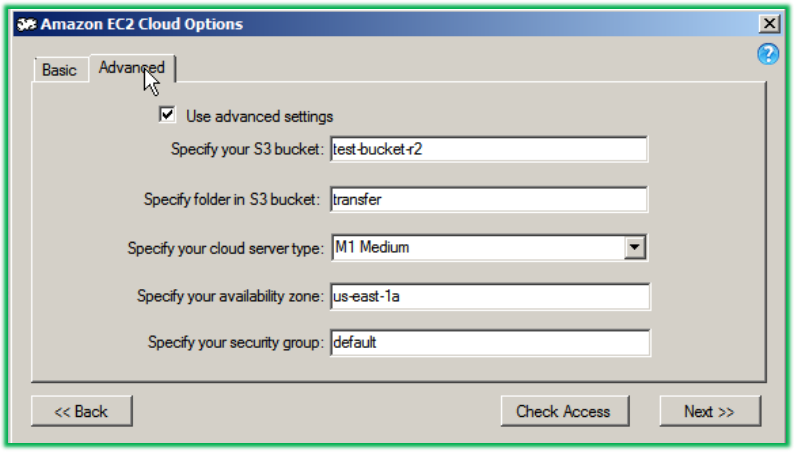
5. **Availability Zone**: Choose one of sub-zones in a region. See AWS documentation for more details.

Note: Availability zone couldn't be changed after the instance is created.

6. **Security group** defines network firewall settings applied to an instance.

(!)*Note: Security group couldn't be changed after EC2 instance creation. Please choose wisely. New security group could be created via EC2 management console.*

> ➔ Tip: Click **Check Access** button in order to load available security groups and availability zones for this region.



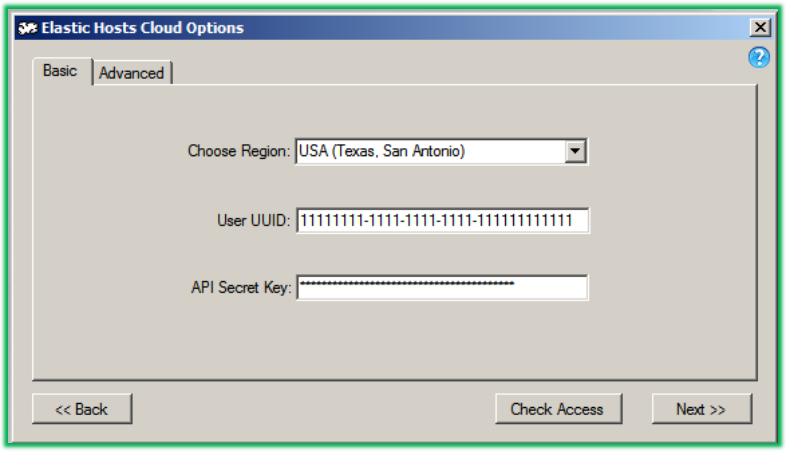
2.2 :ElasticHosts Options

1. At **Basic** tab enter required connection details:
   1.1. **Region** (data-centerlocation)

(!)*Note: Your account and connection credentials are associated with specific Elastichosts data-center. Please choose the region you are registered in.*

   1.2. Elastichosts credentials (**UUID** and **Secret key**)

Note: Cloudscraper will never save, keep or share your Secret key.



➔ Tip: Find ElasticHosts credentials on your Profile page at ElasticHosts website.

Cloudscraper will use this connection details to upload your image as virtual drive. Then you should create Server configuration and connect this virtual drive.

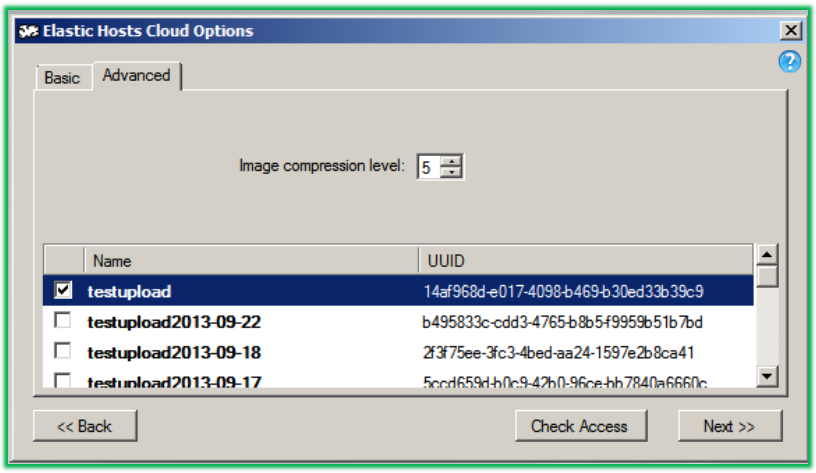
2. Click **Check Access** button to verify connection.
3. Now you can click **Next** to configure transfer or specify additional options at **Advanced** tab.

Note: if advanced settings are not defined, Cloudscraper will use default values.

Advanced ElasticHosts options

At **Advanced** tab you can specify desired image **compression level**. It will reduce the image size and total time required for upload to data-center.

Additionally you can select one or several existing virtual drives from the list and Cloudscraper will specify that new virtual drive should be placed on **another physical host** than the selected. It allows storing high load servers on different physical hosts to reach better **resilience**.



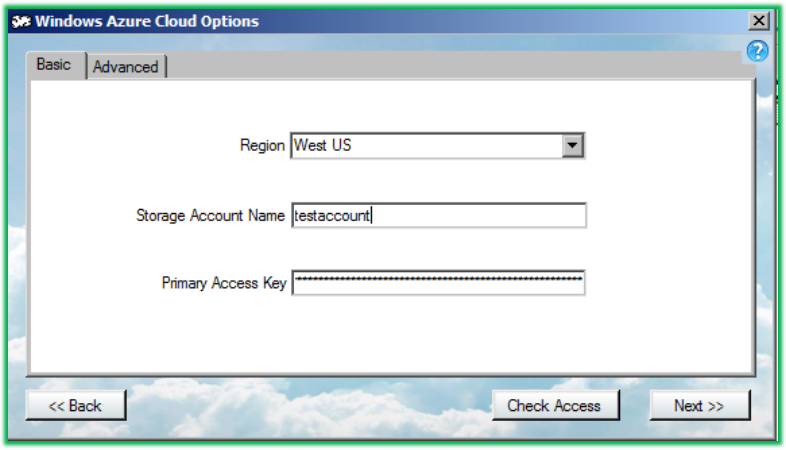
2.3 :Windows Azure Options

4. At **Basic** tab enter required connection details:
   4.1. **Region** (data-center location)

Note: The server destination region will affect your image transfer speed and latency. It's recommended to choose the region which is max close to server physical location.

   4.2. Azure Storage Account credentials (**Storage Account** and **Primary key**)

Note: Cloudscraper will never save, keep or share your Primary key.



- ➔ Tip: Find Azure Storage Account credentials on Azure Management Portal.
- ➔ Tip: See Azure Blog to learn more on Azure Storage Accounts

Cloudscraper will use this connection details to upload your image as VHD file (blob) inside your storage account container. Then you should register this VHD as your virtual disk in Virtual Machines tab, and then create a new Virtual Machine based on the disk.

5. Click **Check Access** button to verify connection.
6. Now you can click **Next** to configure transfer or specify additional options at **Advanced** tab.

Note: if advanced settings are not defined, Cloudscraper will use default values.

Advanced Windows Azure options

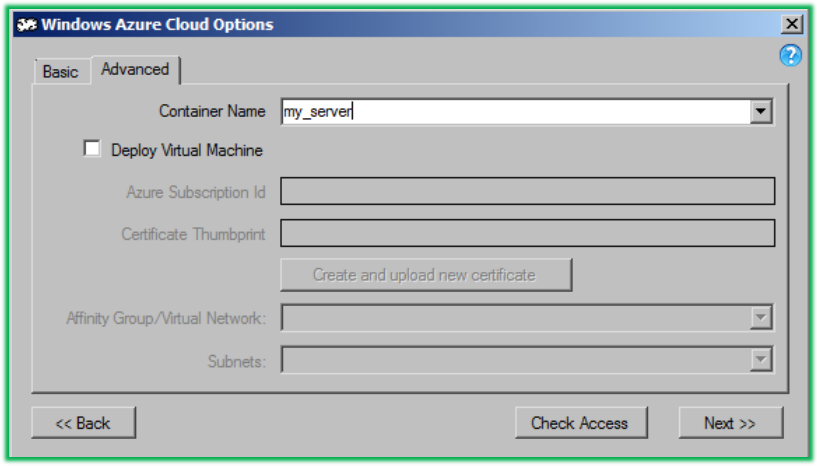
At **Advanced** tab you can specify desired **container name** inside your storage account to store image into.
You could also let Cloudscraper create new Virtual Machine for you from the uploaded image automatically.

1. Enable check box **Deploy Virtual Machine**
2. Specify a management certificate. It'll let Cloudscraper control your VMs.
3. Click **Create and upload new certificate**, you'll be prompted for certificate name and redirected to Azure Management Portal to upload it. So Azure could verify all Cloudscraper requests.
4. Specify a **Subscription ID** associated with this newly uploaded certificate. It's got from Settings panel.

> ➔ Tip: The certificate could be re-used on the next runs. On the same server, you could specify certificate thumbprint and subscription ID from the Settings panel. From other servers, you should firstly copy and install the certificate file there.

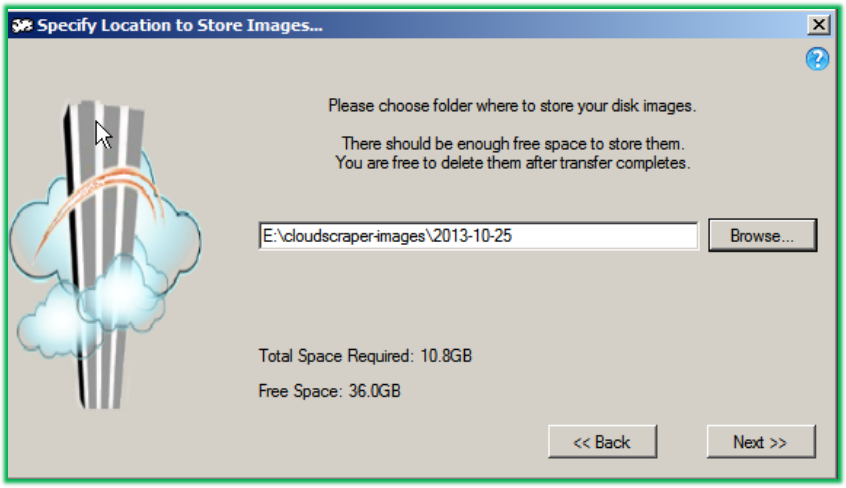
5. Click **Check Access** to validate your certificate and load the list of additional options.

Additionally you could make your specify your **Virtual Network (or Affinity Group)** and **Subnet**. Note, the list of networks is populated only whenever you successfully specify your management certificate and validate it via **Check Access** button.


Windows Azure Cloud Options
Basic
Advanced
Container Name
my_server
Deploy Virtual Machine
Azure Subscription Id
Certificate Thumbprint
Create and upload new certificate
Affinity Group/Virtual Network:
Subnets:
<< Back
Check Access
Next >>

3 :Transfer configuration

1. Once all required cloud options are added, click **Next** to configure your transfer.
2. Specify **local path** for storing image(s) before upload and click **Next**. You will be directed to **Transfer process main window**.



➔ Tip: Cloudscraper automatically suggests path and volume which has enough free space for storing image(s).

➔ Tip: You can use created image(s) later for re-uploading or transfer to another cloud.

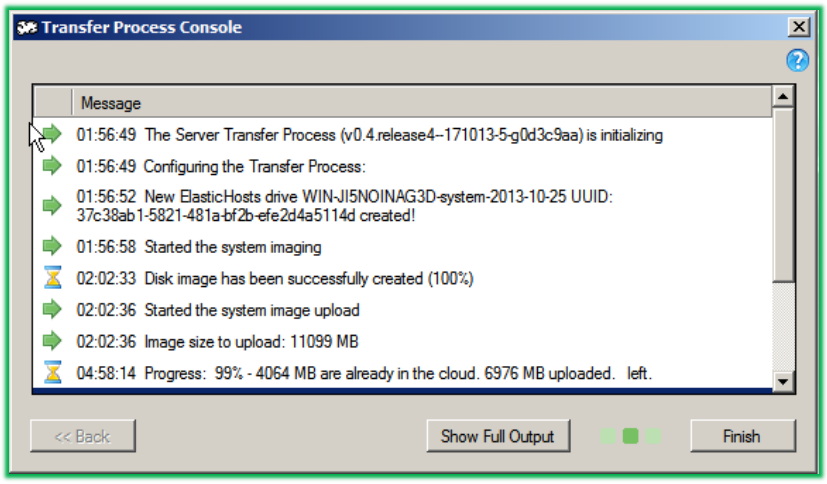
3. At **Save Transfer Configuration** step you can change the path where transfer settings file is saved. Click **Next** to continue.

(!) *Note: Configuration file **doesn't** contain your Secret key. Cloudscraper never saves Secret key.*

➔ Tip: Configuration file is used for resuming failed transfers.

4. **Transfer Process Console** informs about sub-operations and progress. To start server transfer click **Start!** button.

Note: It could take a lot of time to make a full transfer. It takes several hours to upload 20 GB volume. Please be patient.

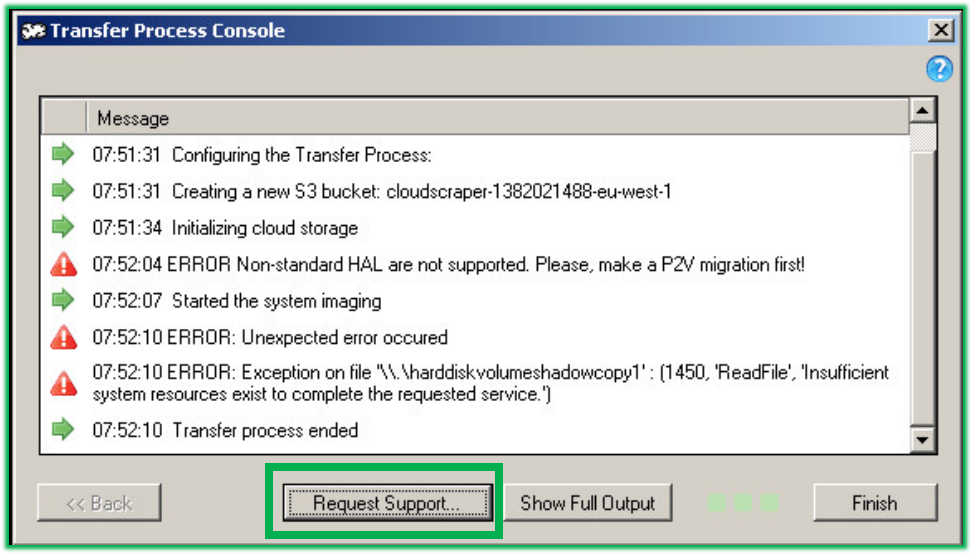


5. Once transfer process is completed, you can review the full log using **Show Full Output** button and click **Finish**.

Congratulations! You have successfully transferred your Server image to cloud.

Troubleshooting

If some error appeared in Transfer Process Console, please click **Request support** button and fill the request.



If something went wrong after successful migration, please visit our [Support page] and register Support request.

> ➔ Tip: Check your registered and solved issues [here] , maybe we already have an answer for you ;)