AWS Storage Gateway-VTL

https://campus.barracuda.com/doc/78809691/

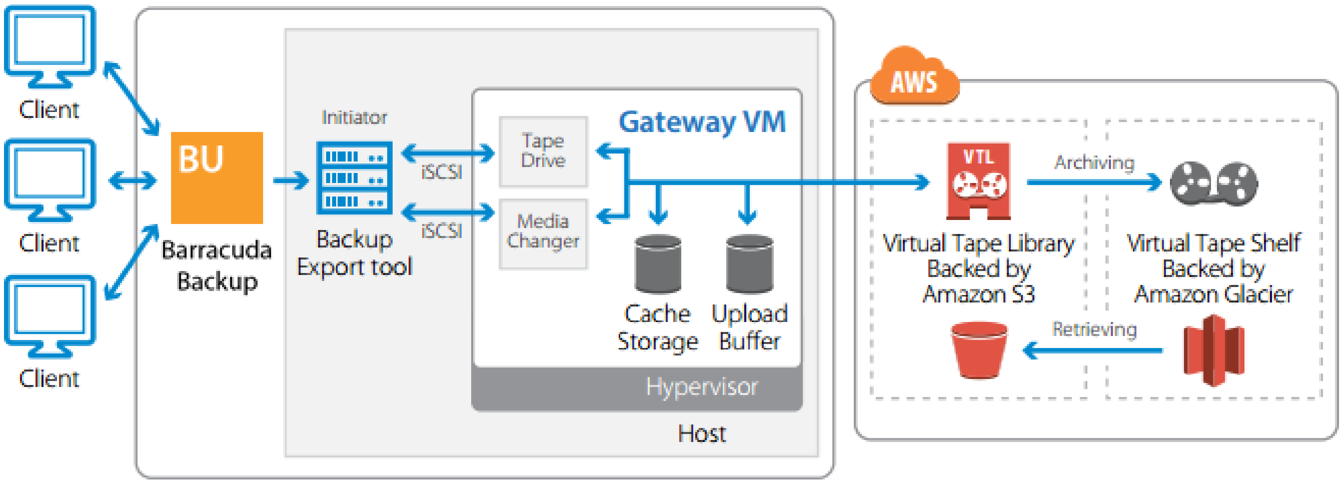
There are three types of AWS Storage Gateway; the Barracuda Backup Export Tool supports the Storage Gateway-VTL. With Gateway-VTL you have a limitless collection of virtual tapes. Each virtual tape can be stored in a VTL backed by Amazon S3 or a Virtual Tape Shelf (VTS) backed by Amazon Glacier. The VTL exposes an industry standard iSCSI interface which provides the Backup Export Tool online access to the virtual tapes. When you no longer require immediate or frequent access to data contained on a virtual tape, use the Backup Export Tool to move it from its VTL to your VTS to further reduce your storage costs.

AWS Storage Gateway-VTL with the Backup Export Tool is designed for customers using Barracuda Backup that want to offload certain data sets from their Barracuda Backup appliance for the purpose of:

- Long-term retention without using up valuable disk space on the Barracuda Backup appliance;
- Exporting data which is inefficiently deduplicated and compressed instead of keeping numerous historical revisions on the Barracuda Backup appliance; *and/or*
- Exporting data for the purpose of freeing up disk space on the local Barracuda Backup appliance to ensure a longer life cycle.

Figure 1 illustrates a typical environment using Barracuda Backup, the Backup Export Tool, and AWS Storage Gateway-VTL.

Figure 1. Barracuda Backup and AWS Storage Gateway-VTL Architecture.



Infrastructure

The AWS Storage Gateway’s software appliance is available for download as a virtual machine (VM) image that you install on a host in your datacenter. Once you install your gateway and associated it with your AWS Account through Amazon’s activation process, you can use the AWS Management Console to create either Gateway-Cached or Gateway-Stored storage volumes or Gateway-VTL virtual tape libraries that you can mount as iSCSI devices using your on-premises applications.

Gateway-VTL enables you to seamlessly replace your physical tape infrastructure with a virtual tape infrastructure. Each Gateway-VTL presents Backup Export Tool with an industry-standard iSCSI-based VTL consisting of a virtual media changer and tape drives. Create virtual tapes in your VTL using the AWS Management Console. Each VTL can hold up to 1,500 virtual tapes with a maximum aggregate capacity of 1 PB. Virtual tapes are discovered by the Backup Export Tool using its standard media inventory procedure. Virtual tapes in your VTL are available for immediate access and are backed by Amazon S3. The Backup Export Tool can read data from or write data to virtual tapes by mounting them to virtual tape drives using the virtual media changer.

Hardware and Software Requirements

The AWS Storage Gateway VM must be either installed on a host in your datacenter running supported versions of VMware ESXi or Microsoft Hyper-V, or as an AMI running on an EC2 instance. The gateway VM must be deployed with a minimum set of hardware resources. The AWS Storage Gateway currently supports Microsoft Windows, Red Hat Enterprise Linux, and VMware ESXi, iSCSI initiators. For additional information, refer to the AWS Storage Gateway User Guide.

Long Term Retention

For cost-effective long term retention of data requiring infrequent access, you can use the Backup Export Tool to move virtual tapes from one or more of your VTLs to your VTS backed by Amazon Glacier. Your VTS is automatically created when you activate your first Gateway-VTL. Store virtual tapes that need to be accessed frequently in a VTL. Data that does not need to be retrieved frequently can be archived to your VTS. Access to virtual tapes in your VTL is immediate while virtual tapes in your VTS must be retrieved and loaded into a VTL before it can be accessed. You can retrieve virtual tapes from your VTS using the AWS Management Console. Virtual tapes retrieved from your VTS take approximately 24 hours before they are automatically loaded into your VTL.

Restore Data

You can retrieve a virtual tape using the AWS Management Console. First select the virtual tape, then choose the VTL into which you want to load the virtual tape. It takes about 24 hours for the retrieved virtual tape to be available in the selected VTL. Once the virtual tape is available in the VTL, use the Backup Export Tool to make use of the virtual tape to restore data.

Performance

As the Gateway-VTL sits between your application, AWS, and underlying on-premises storage, the performance you experience is dependent upon a number of factors including the speed and configuration of your underlying local disks, provisioned host processor and memory, network bandwidth between your iSCSI initiator and gateway VM, the amount of local storage allocated to the gateway VM, and the bandwidth between the gateway VM and AWS. For Gateway-VTL, to provide predictable write performance to the Backup Export Tool, it is important that you allocate enough local cache disk storage to durably buffer data uploaded to AWS. For additional information, refer to the AWS Storage Gateway User Guide for guidance on sizing cache. Amazon recommends configuring your disks in a redundant array of independent disks (RAID) configuration to improve performance and to protect against disk failures.

Security

The AWS Storage Gateway encrypts all data in-transit to and from AWS via SSL. All volume and snapshot data stored in AWS using Gateway-Stored Volumes and Gateway-Cached Volumes, and all virtual tape data stored in AWS using Gateway-VTL, is encrypted at rest using Advanced Encryption Standard (AES) 256, a secure symmetric-key encryption standard using 256-bit encryption keys. Additionally, the Backup Export Tool has optional built-in encryption and compression features.

Storage

Table 1. Storage.

Feature	Description
Replication	Support for the AWS Storage Gateway-VTL does not replace replication to either Barracuda Cloud Storage or another Barracuda Backup appliance. Replication to the Barracuda Cloud or to another Barracuda Backup appliance is a full disaster recovery solution while AWS Storage Gateway-VTL is designed for long-term archiving. Additionally, unlike replication to the Barracuda Cloud or a Barracuda Backup appliances, the Backup Export Tool does not support System State data export or bare metal recovery.

Data Reduction	The AWS Storage Gateway performs compression of data in transit and at rest, which can reduce both data transfer and storage charges. All data transfer between the AWS Storage Gateway VM and AWS, and all data stored in AWS, is compressed. In addition, the AWS Storage Gateway VM only uploads data that has changed, minimizing the amount of transferred data.
Bandwidth Throttling	Use the AWS Management Console to restrict the bandwidth between your gateway and AWS based on the selected rate. You can specify individual rates for inbound and outbound traffic.
Data Storage on a Virtual Tape	When creating a virtual tape, select from the following sizes: 100 GB, 200 GB, 400 GB, 800 GB, 1.5 TB, and 2.5 TB
Data Storage in VTL	Each VTL can store up to 1500 virtual tapes with a maximum aggregate capacity of 1 PB.
Data Storage on a VTS	There is no limit to the amount of data you can store on a VTS.

Access Data

The virtual tape containing your data must be stored in a VTL before you can access it, however, access to the virtual tapes is instantaneous. If the virtual tape containing your data is in your VTS, you must first retrieve the virtual tape from your VTS. You can retrieve the virtual tape using the AWS Management Console. First select the virtual tape, then choose the VTL into which you want to load the virtual tape. It takes about 24 hours for the retrieved virtual tape to be available in the selected Virtual Tape Library. Once the virtual tape is available in the Virtual Tape Library, you can use the Backup Export Tool to make use of the virtual tape to restore data.

Get Started with AWS Storage Gateway

To sign up for the AWS Storage Gateway, go to the AWS Storage Gateway detail page, and create an account or log in with an existing account. Once logged in, you can begin the AWS Storage Gateway sign-up process. After you sign up, you can begin setting up and activating your gateway by visiting the AWS Management Console. For details, refer to the Amazon Web Services article Getting Started with AWS Storage Gateway.

Billing

The Backup Export Tool is free to all Barracuda Backup customers, and Barracuda Networks does not charge a fee to use the Amazon Storage Gateway. Amazon charges for the Storage Gateway and the cost to store data in their cloud, and $125/per activated virtual gateway per month.

- You are billed a monthly fee for each of gateway; this fee is prorated daily. Billing for a gateway begins upon activation and continues until you delete the gateway from the AWS Management Console or via the API.
- You are billed for the virtual tape data you store in AWS. This fee is prorated daily. You are only billed for the portion of virtual tape capacity that you use, not for the size of the virtual tape you create.
- You are billed for Internet data transfer for each GB downloaded from AWS to your gateway. All data transfer for uploading to AWS is free.
- You are charged for the peak concurrent data retrieval in a month.

Table 2. Cost to Store Data in AWS.

VTS Storage	$0.007 per GB per month of data stored
VTL Storage	$0.030 per GB per month of data stored
VTS Retrieval	$0.30 per GB[(1)]
Virtual Tape Deletion	Free[(2)]
Notes: [(1)]Pay only for the highest peak concurrent data retrieval in a month. [(2)]There are no charges for deleting virtual tapes from your VTL and VTSf. However, there is a prorated charge of $0.021 per gigabyte for virtual tapes deleted prior to 90 days from your VTS.	

For additional storage pricing, refer to the AWS Storage Gateway Pricing.

Concurrent Data Retrieval Charges

Concurrent data retrieval is calculated when a retrieval from VTS is initiated. The concurrent data retrieval is the sum of the size of all virtual tape retrievals initiated concurrently or concurrently in progress. If the concurrent data retrieval is more than any prior concurrent data retrieval in the month you are charged for the difference between this new monthly peak and the prior monthly peak. If the concurrent data retrieval is less than or equal to any prior concurrent data retrieval in the month, the retrieval is free.

- Example 1 – You initiate retrieval of a 100 GB virtual tape from your VTS in US East (Northern Virginia) Region. This is the first retrieval of the month. The prior peak concurrent data retrieval for the month was 0 GB. When the retrieval is initiated the concurrent data retrieved is 100 GB. 100 GB is your new monthly peak concurrent data retrieval. The charge for the retrieval is the difference between the prior and the new peak concurrent data retrieval, that is, (100 GB – 0 GB) x $0.30/GB = $30.00.
- Example 2 – You initiate retrieval of one virtual tape containing 500 GB of data from your VTS in US East (Northern Virginia) Region. This is the first retrieval of the month. The prior peak concurrent data retrieval for the month was 0 GB. When the retrieval is initiated the concurrent data retrieved is 500 GB. 500 GB is your new monthly peak concurrent data retrieval. You are charged the difference between the prior and new peak concurrent data retrieval, that is, (500

GB - 0 GB) x $0.30 / GB = $150. Twelve hours after initiating the retrieval of the 500 GB virtual tape you initiate retrieval of a virtual tape containing 600 GB of data. When the second retrieval is initiated you have two virtual tape retrievals concurrently in progress as any virtual tape retrieval takes about 24 hours to complete. The concurrent data retrieved is 500 GB + 600 GB = 1100 GB. The new peak concurrent data retrieval for the month is 1100 GB and you are now charged the difference between the new peak concurrent data retrieval and the existing peak concurrent data retrieval, that is, (1100 GB-500 GB) x $0.30 = $180.

- Example 3 – You initiate retrieval of one 500 GB virtual tape from the VTS in US East (Northern Virginia) Region. This is the first retrieval of the month. The prior peak concurrent data retrieval for the month was 0 GB. When the retrieval is initiated the concurrent data retrieved is 500 GB which is your new peak concurrent data retrieved. The charge for the retrieval is the difference between the prior and the new peak concurrent data retrieval, that is, (500 GB – 0 GB) x $0.30/GB = $150.00. The next day, you initiate a retrieval of one 500 GB virtual tape after the first tape retrieval is complete. Because 500 GB is equal to the prior peak concurrent data retrieval of 500 GB, the second retrieval is free.

Data Charges for Deleting Data

VTS is designed for use cases where data is retained for months, years, or decades. Deleting virtual tapes from a VTS is free if the virtual tape being deleted has been stored for three months or longer. If a virtual tape is deleted within three months of being archived, you are charged an early deletion fee. If you delete data from your VTS that is less than three months old, in the US East (Northern Virginia) Region, you are charged a prorated early deletion fee of $0.03 per GB deleted within three months. For example, if you delete 1 virtual tape containing 1 GB of data 1 month after uploading it, you are charged a $0.02 early deletion fee. If, instead you delete the same virtual tape after 2 months, you would be charged a $0.01 early deletion fee.

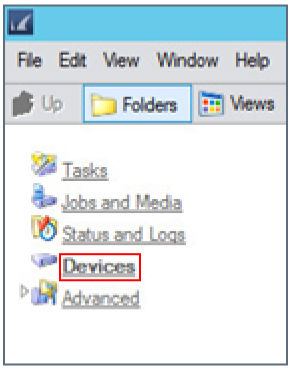
Configure the Backup Export Tool to Work with VTL Devices

After you connect the VTL devices to the Windows client where the Backup Export Tool is installed, open the Backup Export Tool to recognize your devices. For information about how to connect VTL devices to the Windows client, see Step 4: Connect Your Gateway-VTL Devices to Your Windows Client in the Amazon Web Services User Guide.

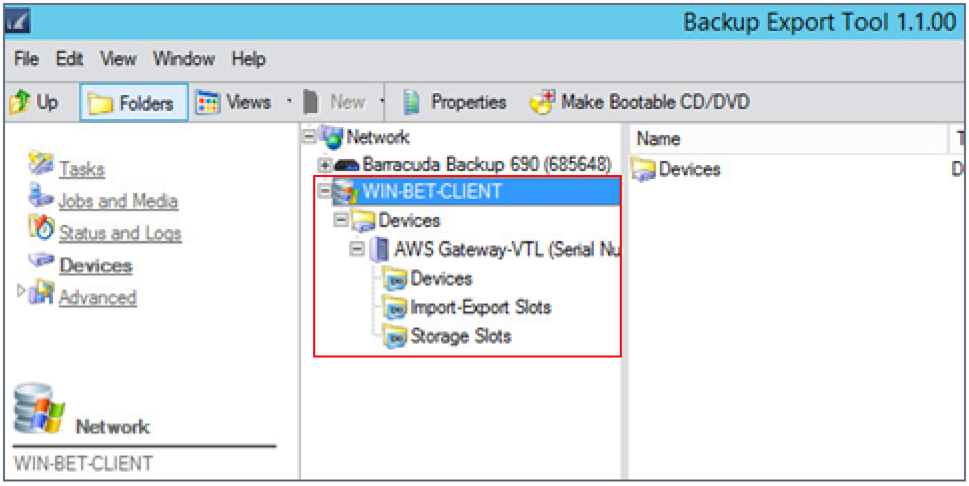
By default, the Backup Export Tool detects and recognizes the gateway-VTL devices.

To discover the VTL devices:

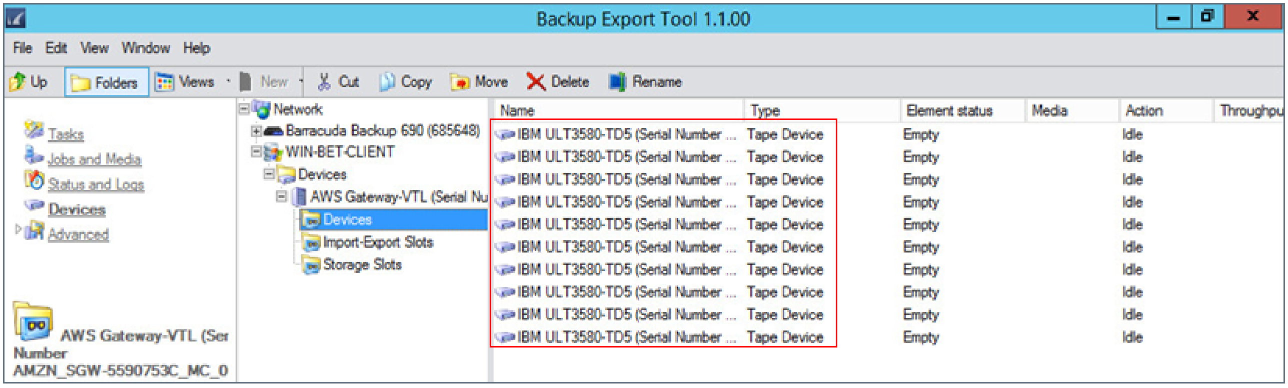
1. Open the Backup Export Tool Administrator on your Windows client. If this is the first time you are opening the Backup Export Tool, once you connect the gateway-VTL devices to your Windows client, the Backup Export Tool automatically recognizes the gateway-VTL devices.
2. Click **Devices** in the left pane:



3. Expand the tree under your Backup Export Tool client:

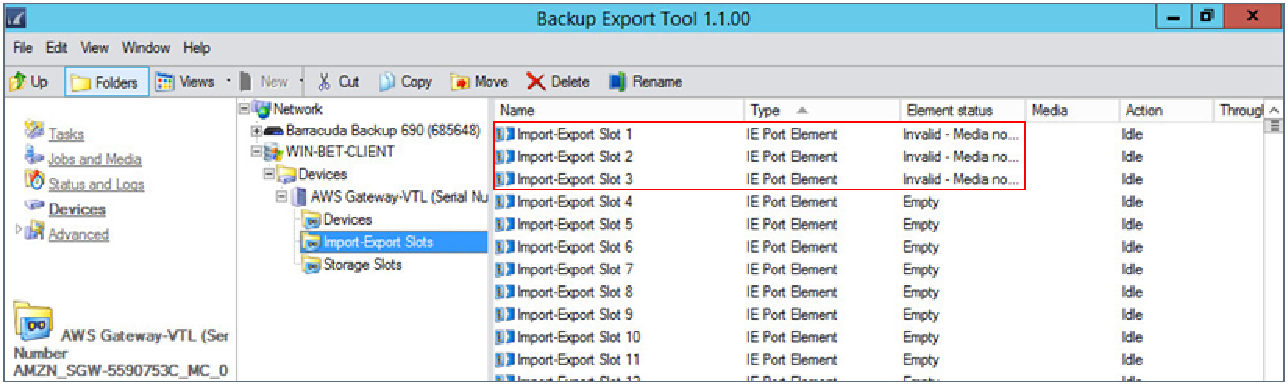


4. If your tape drives are mapped correctly, they display under **Drives**:



Name	Type	Element status	Media	Action	Throughpu
IBM ULT3580-TD5 (Serial Number ...	Tape Device	Empty		Idle	
IBM ULT3580-TD5 (Serial Number ...	Tape Device	Empty		Idle	
IBM ULT3580-TD5 (Serial Number ...	Tape Device	Empty		Idle	
IBM ULT3580-TD5 (Serial Number ...	Tape Device	Empty		Idle	
IBM ULT3580-TD5 (Serial Number ...	Tape Device	Empty		Idle	
IBM ULT3580-TD5 (Serial Number ...	Tape Device	Empty		Idle	
IBM ULT3580-TD5 (Serial Number ...	Tape Device	Empty		Idle	
IBM ULT3580-TD5 (Serial Number ...	Tape Device	Empty		Idle	
IBM ULT3580-TD5 (Serial Number ...	Tape Device	Empty		Idle	
IBM ULT3580-TD5 (Serial Number ...	Tape Device	Empty		Idle	

5. The tapes display under **Import-Export Slots**:



Name	Type	Element status	Media	Action	Througl
Import-Export Slot 1	IE Port Element	Invalid - Media no...		Idle	
Import-Export Slot 2	IE Port Element	Invalid - Media no...		Idle	
Import-Export Slot 3	IE Port Element	Invalid - Media no...		Idle	
Import-Export Slot 4	IE Port Element	Empty		Idle	
Import-Export Slot 5	IE Port Element	Empty		Idle	
Import-Export Slot 6	IE Port Element	Empty		Idle	
Import-Export Slot 7	IE Port Element	Empty		Idle	
Import-Export Slot 8	IE Port Element	Empty		Idle	
Import-Export Slot 9	IE Port Element	Empty		Idle	
Import-Export Slot 10	IE Port Element	Empty		Idle	
Import-Export Slot 11	IE Port Element	Empty		Idle	
Import-Export Slot 12	IE Port Element	Empty		Idle	

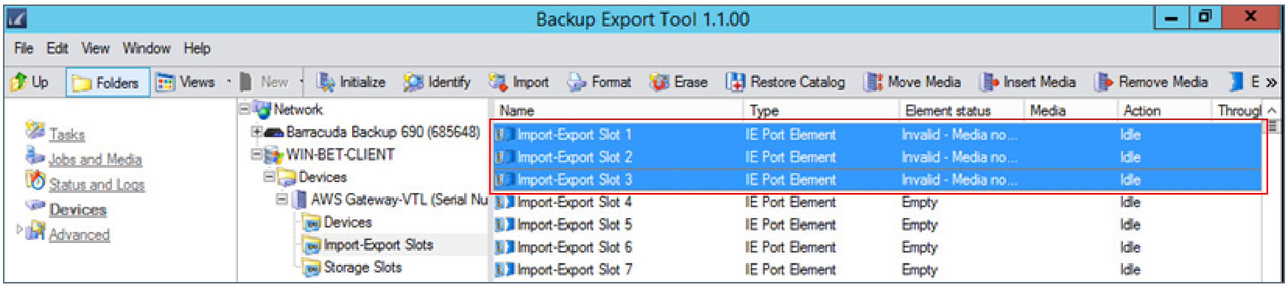
If the drives are not automatically mapped, see Step 4: Connect Your Gateway-VTL Devices to Your Windows Client in the Amazon Web Services User Guide.

Import a Tape into the Backup Export Tool

Use the steps in this section to import tapes from your Gateway-VTL into the Backup Export Tool software library.

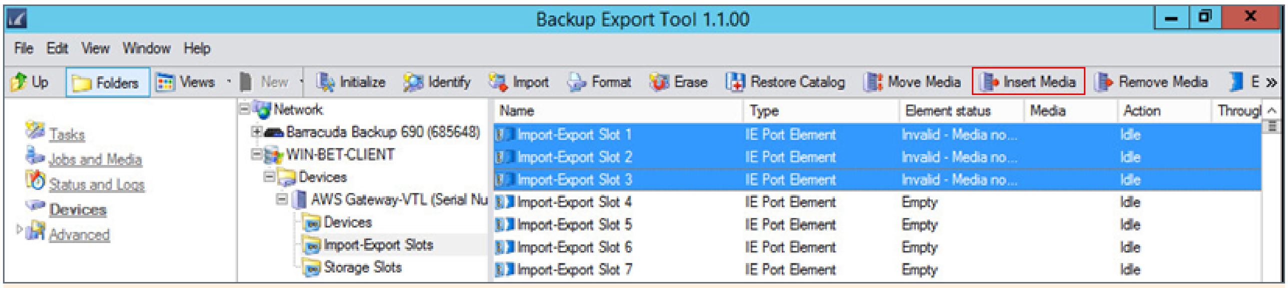
To import a tape:

1. Select **Import-Export Slots** in the Backup Export Tool client tree.
2. The Import-Export Slots contain the tapes you created in the AWS Storage Gateway-VTL. In this example, 3 x 100 GiB virtual tapes have been created, shown in the **Import-Exports Slots** with an Element Status of **Invalid – Media not identified**. To insert all available tapes, select the first Import-Export Slot, press **Shift** on your keyboard, and click the last Import-Export Slot that shows an Element Status of **Invalid – Media not identified**:


Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Initialize Identify Import Format Erase Restore Catalog Move Media Insert Media Remove Media E
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Network
Barracuda Backup 690 (685648)
WIN-BET-CLIENT
Devices
AWS Gateway-VTL (Serial Nu
Devices
Import-Export Slots
Storage Slots

Name	Type	Element status	Media	Action	Througl
Import-Export Slot 1	IE Port Element	Invalid - Media no...		Idle	
Import-Export Slot 2	IE Port Element	Invalid - Media no...		Idle	
Import-Export Slot 3	IE Port Element	Invalid - Media no...		Idle	
Import-Export Slot 4	IE Port Element	Empty		Idle	
Import-Export Slot 5	IE Port Element	Empty		Idle	
Import-Export Slot 6	IE Port Element	Empty		Idle	
Import-Export Slot 7	IE Port Element	Empty		Idle	

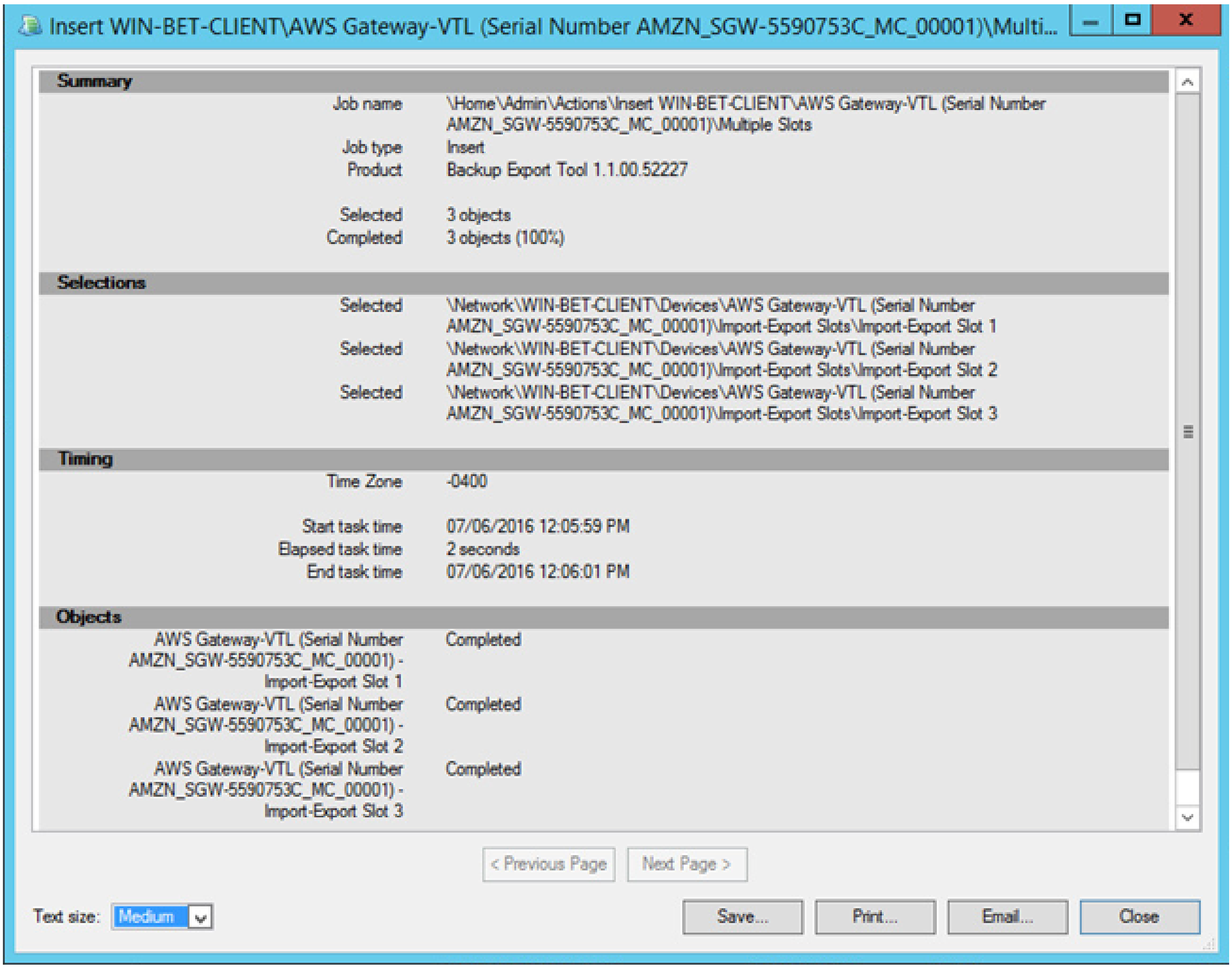
3. Click **Insert Media** in the toolbar:


Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Initialize Identify Import Format Erase Restore Catalog Move Media Insert Media Remove Media E
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Network
Barracuda Backup 690 (685648)
WIN-BET-CLIENT
Devices
AWS Gateway-VTL (Serial Nu
Devices
Import-Export Slots
Storage Slots

Name	Type	Element status	Media	Action	Througl
Import-Export Slot 1	IE Port Element	Invalid - Media no...		Idle	
Import-Export Slot 2	IE Port Element	Invalid - Media no...		Idle	
Import-Export Slot 3	IE Port Element	Invalid - Media no...		Idle	
Import-Export Slot 4	IE Port Element	Empty		Idle	
Import-Export Slot 5	IE Port Element	Empty		Idle	
Import-Export Slot 6	IE Port Element	Empty		Idle	
Import-Export Slot 7	IE Port Element	Empty		Idle	

Make no additional changes to the virtual tapes on the **Import-Export Slots** page. Taking any additional actions, such as **Identify** or **Format**, removes the virtual tapes from the device library and archives them to the VTS.

4. The virtual tapes are inserted into the first available storage slots:



Insert WIN-BET-CLIENT\AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001)\Multi...

Summary

Job name	\Home\Admin\Actions\Insert WIN-BET-CLIENT\AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001)\Multiple Slots
Job type	Insert
Product	Backup Export Tool 1.1.00.52227
Selected	3 objects
Completed	3 objects (100%)

Selections

Selected	\Network\WIN-BET-CLIENT\Devices\AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001)\Import-Export Slots\Import-Export Slot 1
Selected	\Network\WIN-BET-CLIENT\Devices\AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001)\Import-Export Slots\Import-Export Slot 2
Selected	\Network\WIN-BET-CLIENT\Devices\AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001)\Import-Export Slots\Import-Export Slot 3

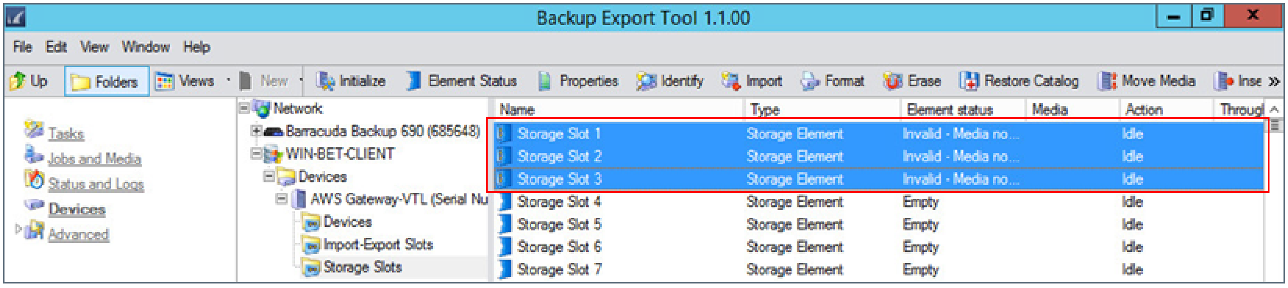
Timing

Time Zone	-0400
Start task time	07/06/2016 12:05:59 PM
Elapsed task time	2 seconds
End task time	07/06/2016 12:06:01 PM

Objects

AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001) - Import-Export Slot 1	Completed
AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001) - Import-Export Slot 2	Completed
AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001) - Import-Export Slot 3	Completed

5. Close the **Insert Media** notification dialog box. In the Backup Export Tool client tree, select **Storage Slots**. The virtual tapes inserted in the previous steps display in the first available Storage Slots:



Name	Type	Element status	Media	Action	Througl
Storage Slot 1	Storage Element	Invalid - Media no...		Idle	
Storage Slot 2	Storage Element	Invalid - Media no...		Idle	
Storage Slot 3	Storage Element	Invalid - Media no...		Idle	
Storage Slot 4	Storage Element	Empty		Idle	
Storage Slot 5	Storage Element	Empty		Idle	
Storage Slot 6	Storage Element	Empty		Idle	
Storage Slot 7	Storage Element	Empty		Idle	

The virtual tapes are now imported and are ready for the first backup/export job. No additional configuration is necessary on the **Devices** page as each tape is identified and formatted automatically by the Backup Export Tool during the backup/export process.

Export Data from Barracuda Backup to a Tape

To export data from a Barracuda Backup appliance to a Gateway-VTL:

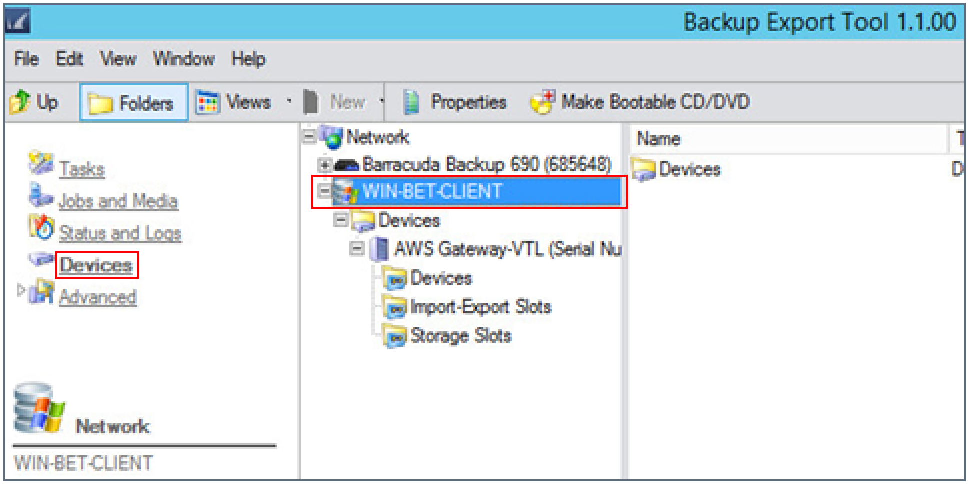
1. Create a new Backup Job in the Backup Export Tool.
2. S elect a tape device to write data to.

Archive a Tape Using the Barracuda Backup Export Tool

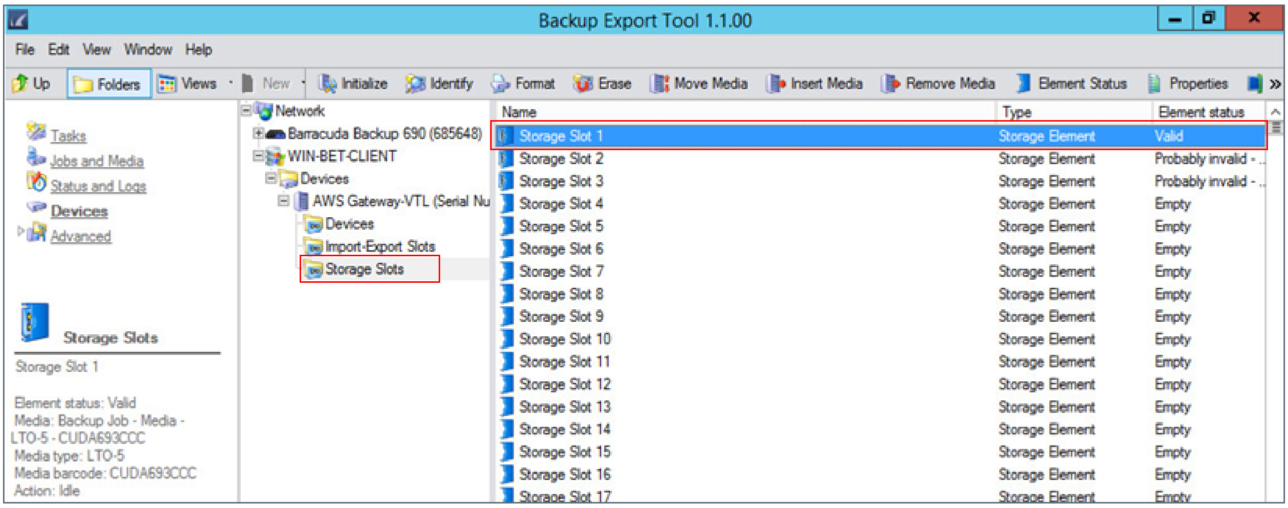
When you archive a tape, AWS Storage Gateway moves the tape from the Backup Export Tool tape library to the VTS, that is, the offline storage. You begin tape archival by ejecting from the tape drive to the storage slot and then exporting the tape from the slot to the VTS by using the Backup Export Tool.

To archive a tape using the Barracuda Backup Export Tool:

1. Click **Devices** in the left pane, and expand the tree under your Backup Export Tool client:


Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Properties Make Bootable CD/DVD
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Network
WIN-BET-CLIENT
Network
Barracuda Backup 690 (685648)
WIN-BET-CLIENT
Devices
AWS Gateway-VTL (Serial Nu
Devices
Import-Export Slots
Storage Slots
Name
Devices

2. Click **Storage Slots**, and select the storage slot containing the tape(s) you want to archive:


Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Initialize Identify Format Erase Move Media Insert Media Remove Media Element Status Properties
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Network
Barracuda Backup 690 (685648)
WIN-BET-CLIENT
Devices
AWS Gateway-VTL (Serial Nu
Devices
Import-Export Slots
Storage Slots

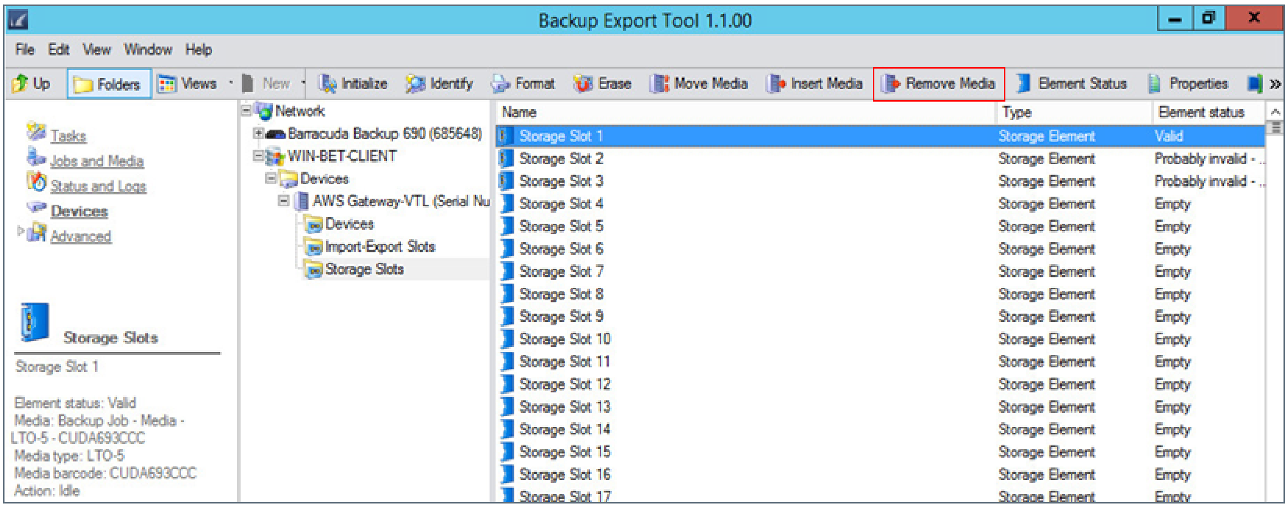
Storage Slots

Storage Slot 1

Element status: Valid
Media: Backup Job - Media - LTO-5 - CUDA693CCC
Media type: LTO-5
Media barcode: CUDA693CCC
Action: Idle

Name	Type	Element status
Storage Slot 1	Storage Element	Valid
Storage Slot 2	Storage Element	Probably invalid - ..
Storage Slot 3	Storage Element	Probably invalid - ..
Storage Slot 4	Storage Element	Empty
Storage Slot 5	Storage Element	Empty
Storage Slot 6	Storage Element	Empty
Storage Slot 7	Storage Element	Empty
Storage Slot 8	Storage Element	Empty
Storage Slot 9	Storage Element	Empty
Storage Slot 10	Storage Element	Empty
Storage Slot 11	Storage Element	Empty
Storage Slot 12	Storage Element	Empty
Storage Slot 13	Storage Element	Empty
Storage Slot 14	Storage Element	Empty
Storage Slot 15	Storage Element	Empty
Storage Slot 16	Storage Element	Empty
Storage Slot 17	Storage Element	Empty

3. Right-click the selected storage slot(s), and click **Remove Media**, or click **Remove Media** on the toolbar:


Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Initialize Identify Format Erase Move Media Insert Media Remove Media Element Status Properties
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Network
Barracuda Backup 690 (685648)
WIN-BET-CLIENT
Devices
AWS Gateway-VTL (Serial Nu
Devices
Import-Export Slots
Storage Slots

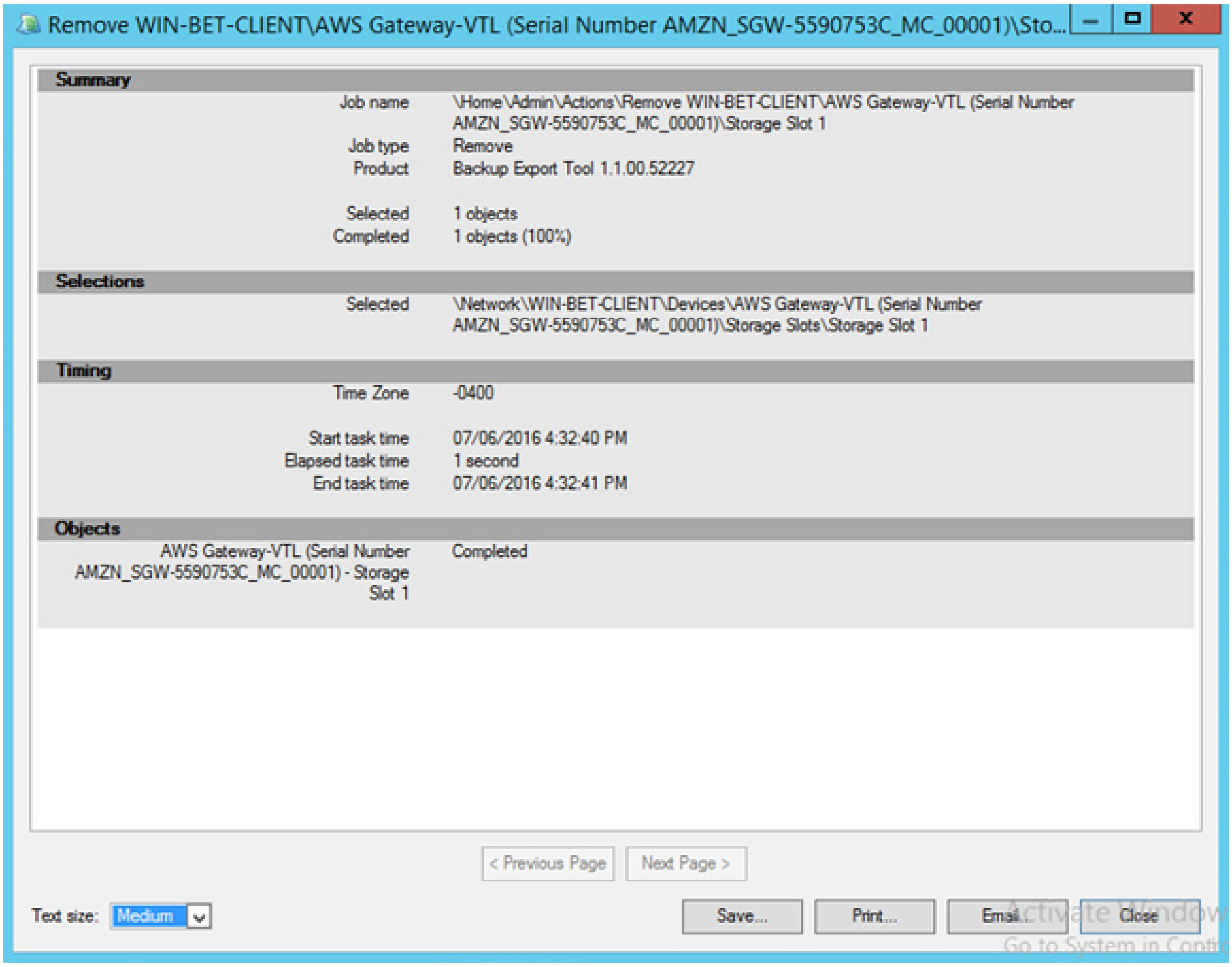
Storage Slots

Storage Slot 1

Element status: Valid
Media: Backup Job - Media - LTO-5 - CUDA693CCC
Media type: LTO-5
Media barcode: CUDA693CCC
Action: Idle

Name	Type	Element status
Storage Slot 1	Storage Element	Valid
Storage Slot 2	Storage Element	Probably invalid - ..
Storage Slot 3	Storage Element	Probably invalid - ..
Storage Slot 4	Storage Element	Empty
Storage Slot 5	Storage Element	Empty
Storage Slot 6	Storage Element	Empty
Storage Slot 7	Storage Element	Empty
Storage Slot 8	Storage Element	Empty
Storage Slot 9	Storage Element	Empty
Storage Slot 10	Storage Element	Empty
Storage Slot 11	Storage Element	Empty
Storage Slot 12	Storage Element	Empty
Storage Slot 13	Storage Element	Empty
Storage Slot 14	Storage Element	Empty
Storage Slot 15	Storage Element	Empty
Storage Slot 16	Storage Element	Empty
Storage Slot 17	Storage Element	Empty

4. The tape is removed from the storage slot:



Remove WIN-BET-CLIENT\AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001)\Sto...

Summary

Job name	\Home\Admin\Actions\Remove WIN-BET-CLIENT\AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001)\Storage Slot 1
Job type	Remove
Product	Backup Export Tool 1.1.00.52227
Selected	1 objects
Completed	1 objects (100%)

Selections

Selected	\Network\WIN-BET-CLIENT\Devices\AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001)\Storage Slots\Storage Slot 1

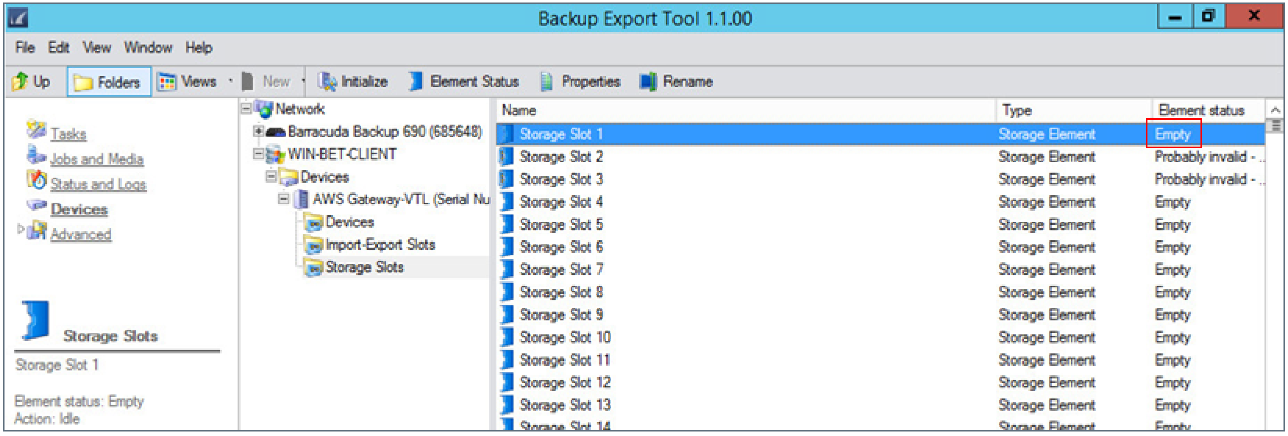
Timing

Time Zone	-0400
Start task time	07/06/2016 4:32:40 PM
Elapsed task time	1 second
End task time	07/06/2016 4:32:41 PM

Objects

AWS Gateway-VTL (Serial Number AMZN_SGW-5590753C_MC_00001) - Storage Slot 1	Completed

5. The selected storage slot **Element Status** displays as **Empty**:



Backup Export Tool 1.1.00

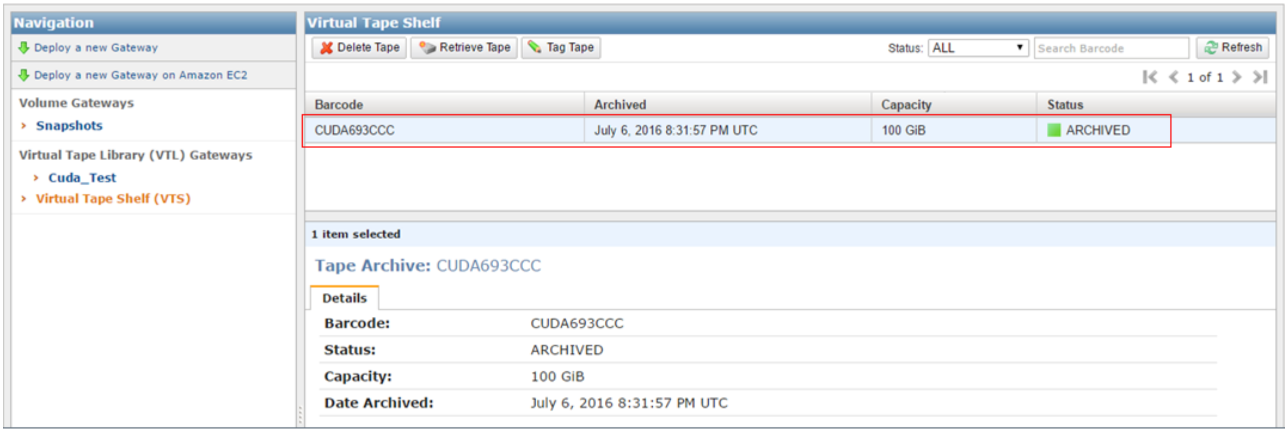
Storage Slots

Storage Slot 1

Element status: Empty
Action: Idle

Name	Type	Element status
Storage Slot 1	Storage Element	Empty
Storage Slot 2	Storage Element	Probably invalid - ...
Storage Slot 3	Storage Element	Probably invalid - ...
Storage Slot 4	Storage Element	Empty
Storage Slot 5	Storage Element	Empty
Storage Slot 6	Storage Element	Empty
Storage Slot 7	Storage Element	Empty
Storage Slot 8	Storage Element	Empty
Storage Slot 9	Storage Element	Empty
Storage Slot 10	Storage Element	Empty
Storage Slot 11	Storage Element	Empty
Storage Slot 12	Storage Element	Empty
Storage Slot 13	Storage Element	Empty
Storage Slot 14	Storage Element	Empty

6. In the AWS Storage Gateway console, click your gateway, and click **VTL Tape Cartridges**. Verify the status of the virtual tape you are archiving:



Barcode	Archived	Capacity	Status
CUDA693CCC	July 6, 2016 8:31:57 PM UTC	100 GiB	🟩 ARCHIVED

1 item selected

Tape Archive: CUDA693CCC

Details

Barcode:	CUDA693CCC
Status:	ARCHIVED
Capacity:	100 GiB
Date Archived:	July 6, 2016 8:31:57 PM UTC

Restore Data from an Archived Tape Using the Backup Export Tool

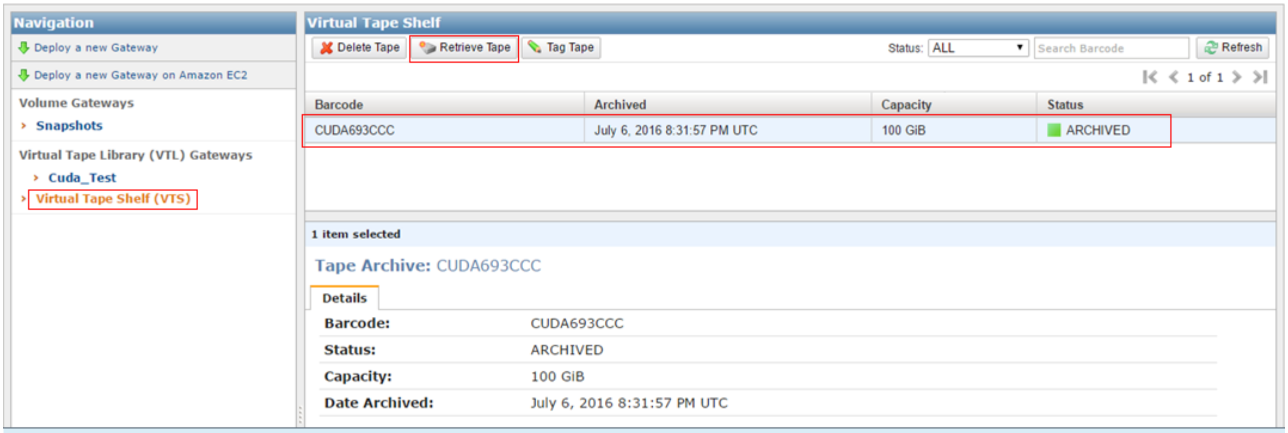
Archived tapes are stored in a VTS which provides offline storage. If you want to access tape data, you must first retrieve the tape from the VTS back to your gateway. Use the steps in this section to retrieve the tape archived in the preceding section. Note that restoring archived data is a two-step process:

- Retrieve the archived tape from your (VTS) to a gateway-VTL
- Restore the data using the Backup Export Tool

Retrieve Archived Tape

To retrieve an archived tape:

1. In the AWS Storage Gateway console navigation pane, click **Virtual Tape Shelf (VTS)**; the console displays all virtual tapes archived by all of your gateways. Select the virtual tape you want to retrieve, and click **Retrieve Tape**:

Barcode	Archived	Capacity	Status
CUDA693CCC	July 6, 2016 8:31:57 PM UTC	100 GiB	🟩 ARCHIVED

   1 item selected

   Tape Archive: CUDA693CCC

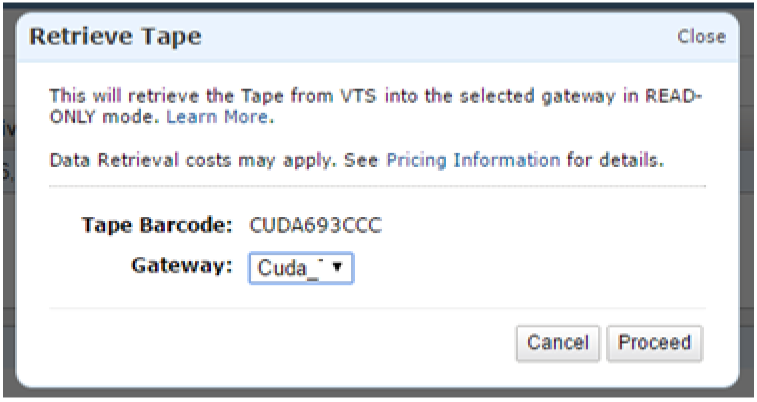
   Details

Barcode:	CUDA693CCC
Status:	ARCHIVED
Capacity:	100 GiB
Date Archived:	July 6, 2016 8:31:57 PM UTC

   To retrieve an archived tape, the virtual tape status must be **ARCHIVED**.

2. In the **Tape Barcode** field of the **Retrieve Tape** wizard, verify the barcode identifies the

virtual tape you want to retrieve:



Retrieve Tape

This will retrieve the Tape from VTS into the selected gateway in READ-ONLY mode. Learn More.

Data Retrieval costs may apply. See Pricing Information for details.

Tape Barcode: CUDA693CCC

Gateway: Cuda_

3. From the **Gateway** drop-down list, select the gateway you want to retrieve the archived tape to, and click **Proceed**.

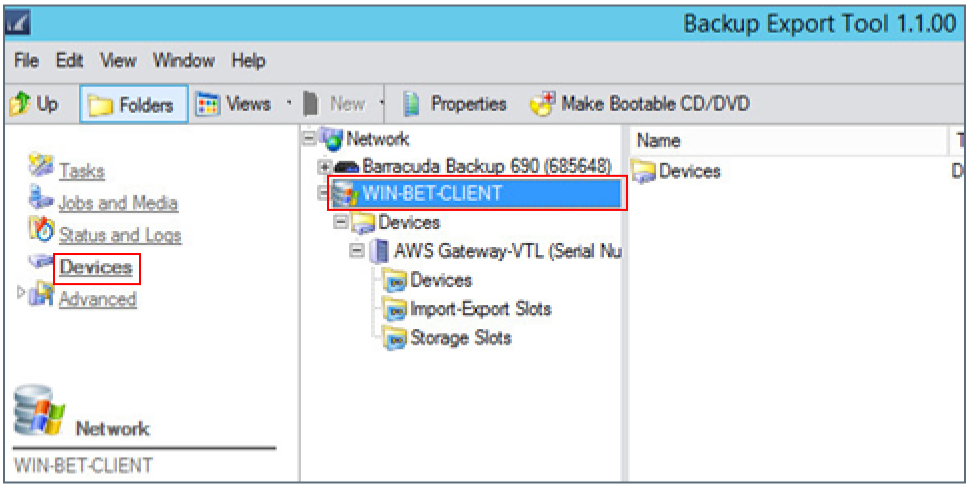
The virtual tape status changes from **ARCHIVED** to **RETRIEVING**. Once all data is moved, the status of the virtual tape in the VTS changes to **RETRIEVED**, and the tape displays in your gateway's VTL.

It takes approximately 24 hours to retrieve a tape from the VTS to a gateway; retrieved virtual tapes are read-only.

Restore Archived Data from an AWS Storage Gateway

Once the retrieved virtual tape status changes from **RETRIEVING** to **RETRIEVED**, use the steps in this section to import the tape back into the Backup Export Tool and configure a restore job.

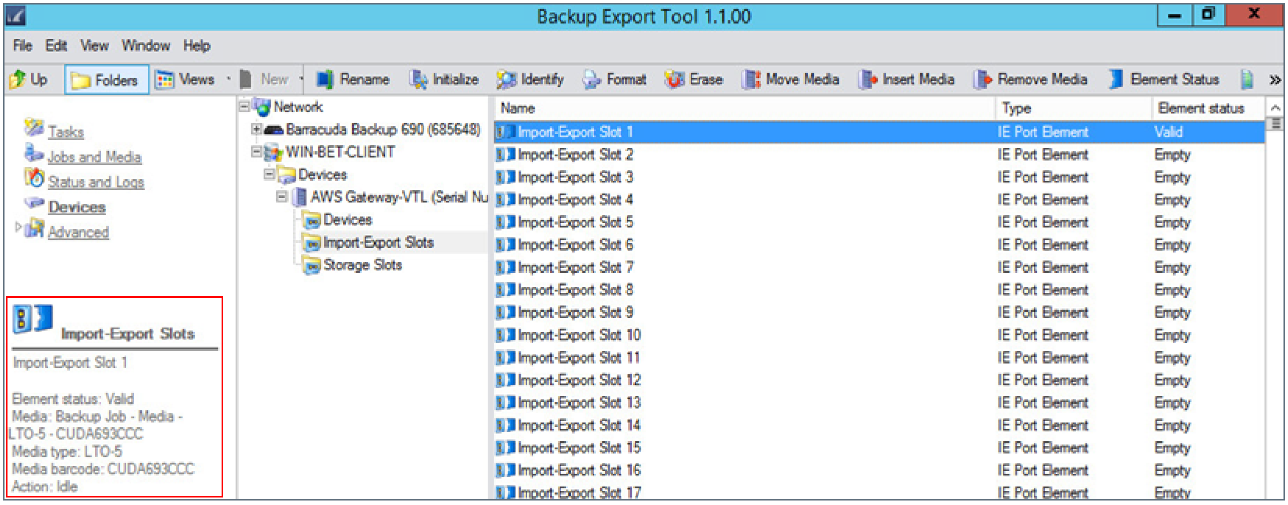
1. Click **Devices** in the left navigation pane, and expand the tree under your Backup Export Tool client:



Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Properties Make Bootable CD/DVD
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Network
WIN-BET-CLIENT
Network
Barracuda Backup 690 (685648)
WIN-BET-CLIENT
Devices
AWS Gateway-VTL (Serial Nu
Devices
Import-Export Slots
Storage Slots
Name
Devices

2. Click **Import-Export Slots**, and verify the retrieved virtual tape appears in the import-export

slot. Once a tape is retrieved from the VTS, it automatically appears in the first available import-export slot. Verify the **Element Status** displays as **Valid**, and the **media barcode** matches that of the virtual tape in your storage gateway:


Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Rename Initialize Identify Format Erase Move Media Insert Media Remove Media Element Status
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Network
Barracuda Backup 690 (685648)
WIN-BET-CLIENT
Devices
AWS Gateway-VTL (Serial Nu
Devices
Import-Export Slots
Storage Slots

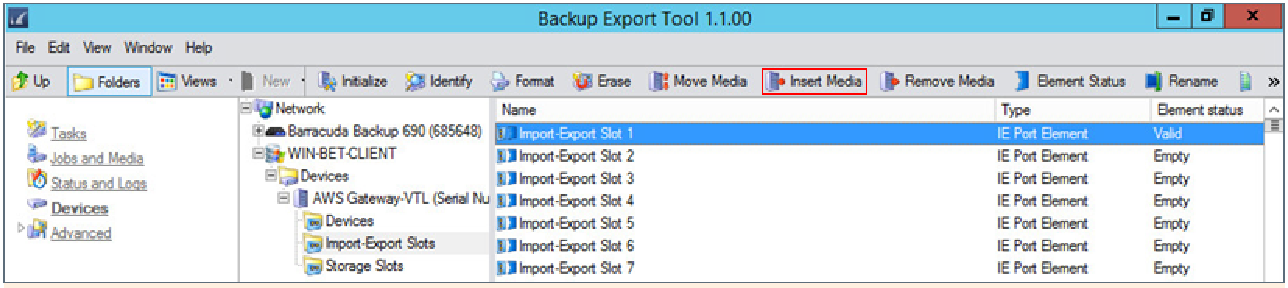
Import-Export Slots

Import-Export Slot 1

Element status: Valid
Media: Backup Job - Media - LTO-5 - CUDA693CCC
Media type: LTO-5
Media barcode: CUDA693CCC
Action: Idle

Name	Type	Element status
Import-Export Slot 1	IE Port Element	Valid
Import-Export Slot 2	IE Port Element	Empty
Import-Export Slot 3	IE Port Element	Empty
Import-Export Slot 4	IE Port Element	Empty
Import-Export Slot 5	IE Port Element	Empty
Import-Export Slot 6	IE Port Element	Empty
Import-Export Slot 7	IE Port Element	Empty
Import-Export Slot 8	IE Port Element	Empty
Import-Export Slot 9	IE Port Element	Empty
Import-Export Slot 10	IE Port Element	Empty
Import-Export Slot 11	IE Port Element	Empty
Import-Export Slot 12	IE Port Element	Empty
Import-Export Slot 13	IE Port Element	Empty
Import-Export Slot 14	IE Port Element	Empty
Import-Export Slot 15	IE Port Element	Empty
Import-Export Slot 16	IE Port Element	Empty
Import-Export Slot 17	IE Port Element	Empty

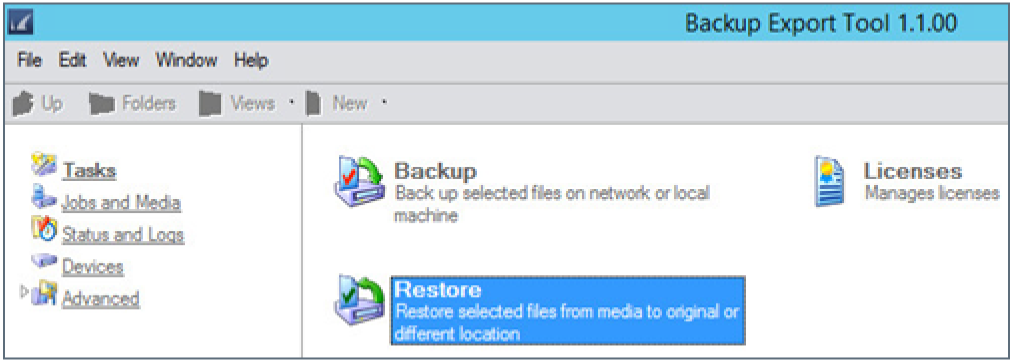
3. Select the **Import-Export Slot** containing your retrieved virtual tape(s), and click **Insert Media** in the toolbar to insert the tape(s) into a storage slot:


Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Initialize Identify Format Erase Move Media Insert Media Remove Media Element Status Rename
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Network
Barracuda Backup 690 (685648)
WIN-BET-CLIENT
Devices
AWS Gateway-VTL (Serial Nu
Devices
Import-Export Slots
Storage Slots

Name	Type	Element status
Import-Export Slot 1	IE Port Element	Valid
Import-Export Slot 2	IE Port Element	Empty
Import-Export Slot 3	IE Port Element	Empty
Import-Export Slot 4	IE Port Element	Empty
Import-Export Slot 5	IE Port Element	Empty
Import-Export Slot 6	IE Port Element	Empty
Import-Export Slot 7	IE Port Element	Empty

Make no additional changes to the virtual tapes on the **Import-Export Slots** page. Taking any additional actions, such as **Identify** or **Format**, removes the virtual tapes from the device library and archives them to the VTS.

4. The virtual tape(s) are inserted into the first available storage slots. Close the **Insert Media** notification dialog box.
5. Click **Tasks** in the left pane, and double-click **Restore** :

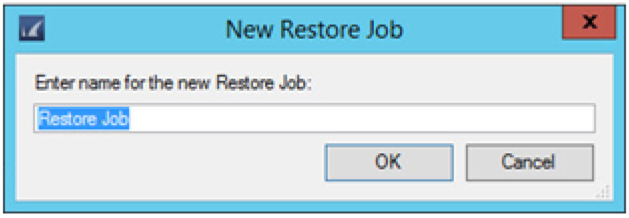


Back up selected files on network or local machine

Manages licenses

Restore selected files from media to original or different location

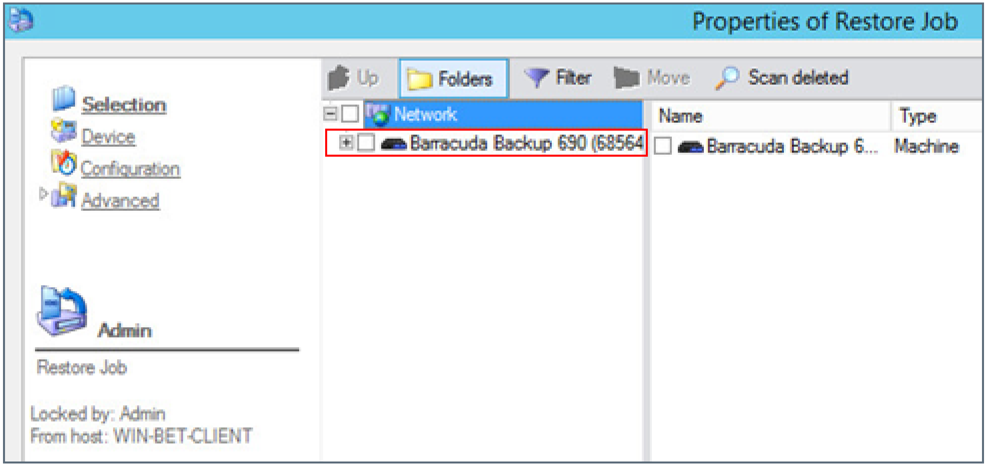
6. In the **New Restore Job** dialog box, enter a name to identify your restore job:


New Restore Job

Enter name for the new Restore Job:

Restore Job

7. The **Restore Job Properties** window displays. All previous backup/export jobs from Barracuda Backup appliances display in the tree below **Network**:

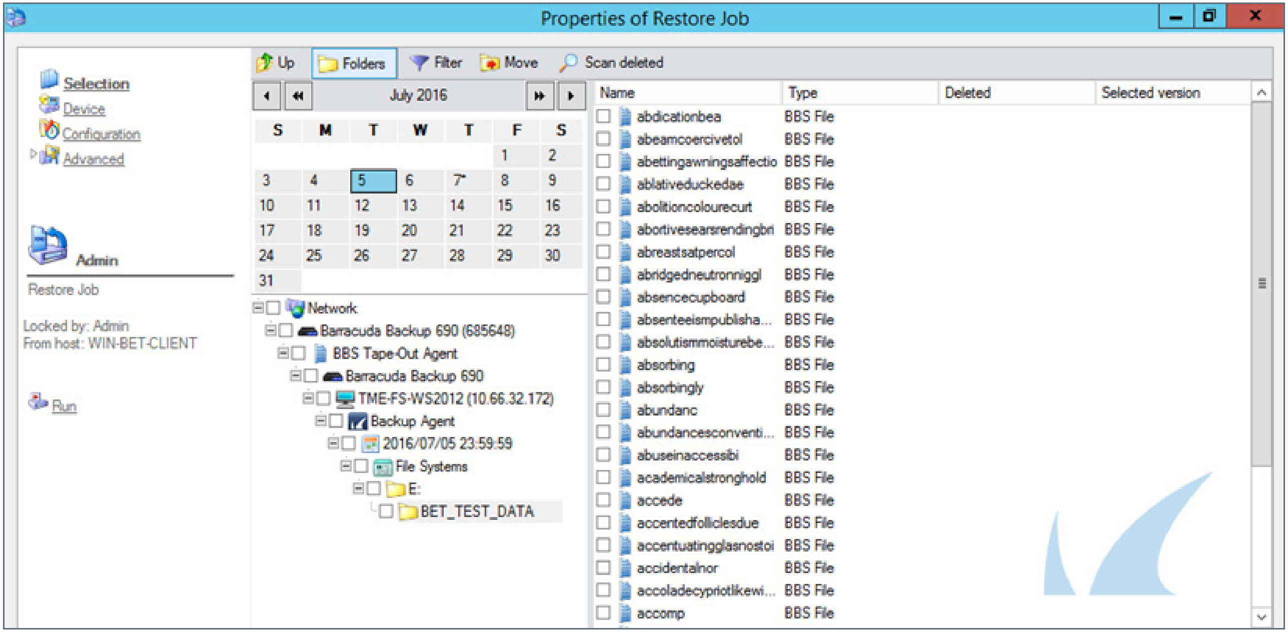

Properties of Restore Job

Name	Type
□ Barracuda Backup 6...	Machine

Restore Job

Locked by: Admin
From host: WIN-BET-CLIENT

8. Expand the tree until you reach the previously exported data you want to recover:


Properties of Restore Job

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

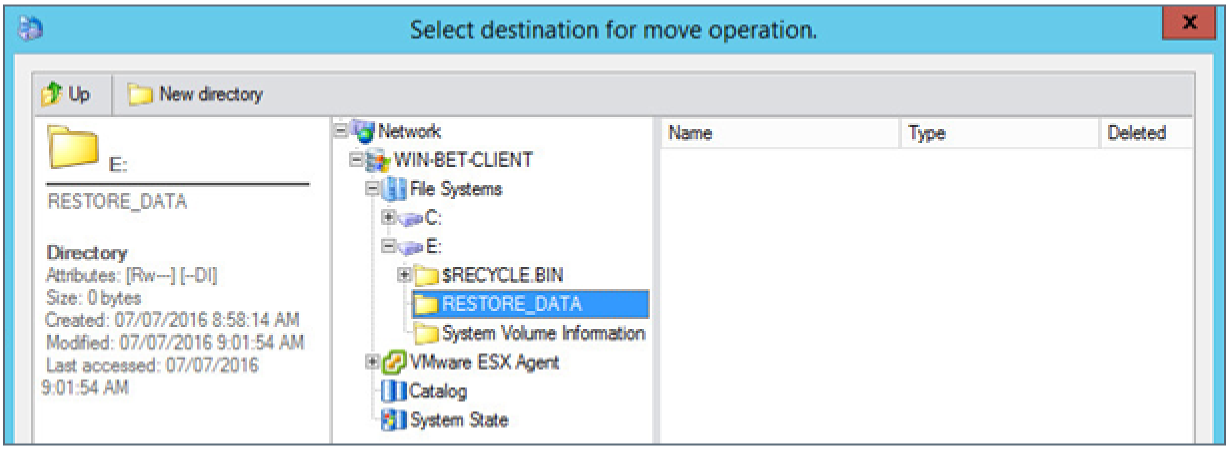
- □ Network
  - □ Barracuda Backup 690 (685648)
    - □ BBS Tape-Out Agent
      - □ Barracuda Backup 690
        - □ TME-FS-WS2012 (10.66.32.172)
          - □ Backup Agent
            - □ 2016/07/05 23:59:59
              - □ File Systems
                - □ E:
                  - □ BET_TEST_DATA

Name	Type	Deleted	Selected version
□ abdicationbea	BBS File		
□ abeamcoercivetol	BBS File		
□ abettingawningsaffectio	BBS File		
□ ablativeduckedae	BBS File		
□ abolitioncolourecurt	BBS File		
□ abortivesearsrendingbri	BBS File		
□ abreastsatpercol	BBS File		
□ abridgedneutronniggl	BBS File		
□ absencecupboard	BBS File		
□ absenteeismpublisha...	BBS File		
□ absolutismmoisturebe...	BBS File		
□ absorbing	BBS File		
□ absorbingly	BBS File		
□ abundanc	BBS File		
□ abundanceconventi...	BBS File		
□ abuseinaccessibi	BBS File		
□ academicalstronghold	BBS File		
□ accede	BBS File		
□ accentedfolliclesdue	BBS File		
□ accentuatingglasnostoi	BBS File		
□ accidentalnor	BBS File		
□ accoladecypriotlikewi...	BBS File		
□ accomp	BBS File		

Restore Job

Locked by: Admin
From host: WIN-BET-CLIENT

9. Select either the entire folder from the tree or select individual files in the right pane. Once you select the data you want to restore, the **Select Destination** window displays.
10. Expand the tree under **Network** and locate a recovery destination for the selected data. The Backup Export Tool recognizes any computers in the network where the Backup Export Tool is installed. In this example, the recovery folder is titled **RESTORE_DATA** on the Backup Export Tool client system:

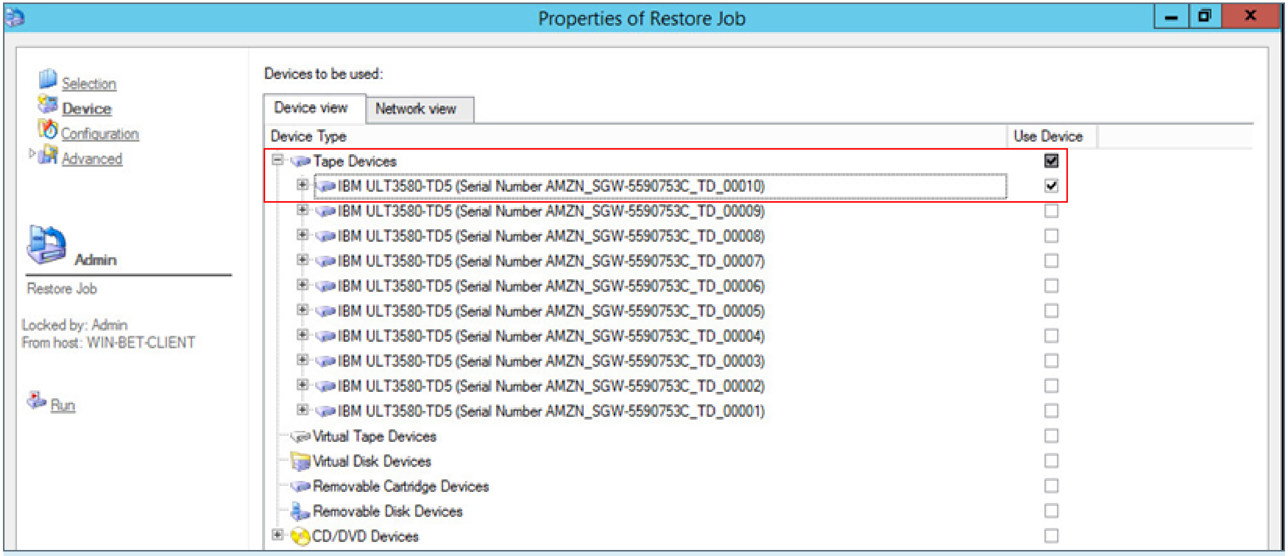


E:

RESTORE_DATA

Directory
Attributes: [Rw--] [--DI]
Size: 0 bytes
Created: 07/07/2016 8:58:14 AM
Modified: 07/07/2016 9:01:54 AM
Last accessed: 07/07/2016 9:01:54 AM

11. Click **OK**. Click **Device** in the left pane, and expand the **Tape Device** tree.
12. Select a single tape device from the list; this is the device that you are restoring data *from:*



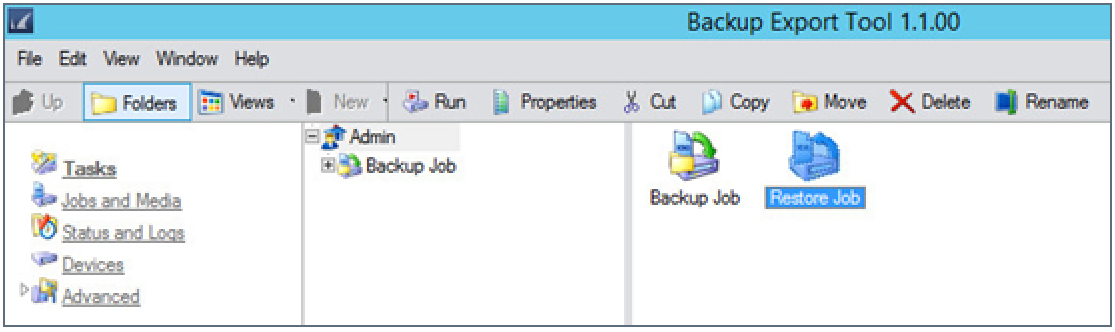
Locked by: Admin
From host: WIN-BET-CLIENT

Devices to be used:

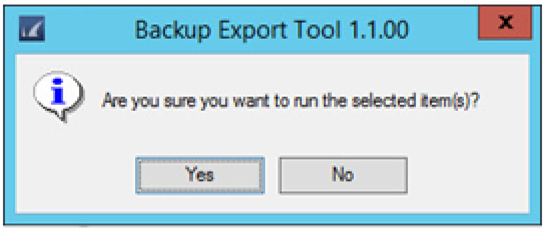
Device Type	Use Device
Tape Devices	☑
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00010)	☑
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00009)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00008)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00007)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00006)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00005)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00004)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00003)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00002)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00001)	□
Virtual Tape Devices	□
Virtual Disk Devices	□
Removable Cartridge Devices	□
Removable Disk Devices	□
CD/DVD Devices	□

> Once you select a device to restore from, you can optionally click **Configuration** and **Advanced** in the left pane to configure additional options. For more information, see How to Schedule Restore and Verify Jobs and Advanced Restore and Verify Options.

13. Once all configuration options are configured, click **OK**.
14. Click **Jobs and Media** in the left pane; the newly created restore job should now display in the right pane:

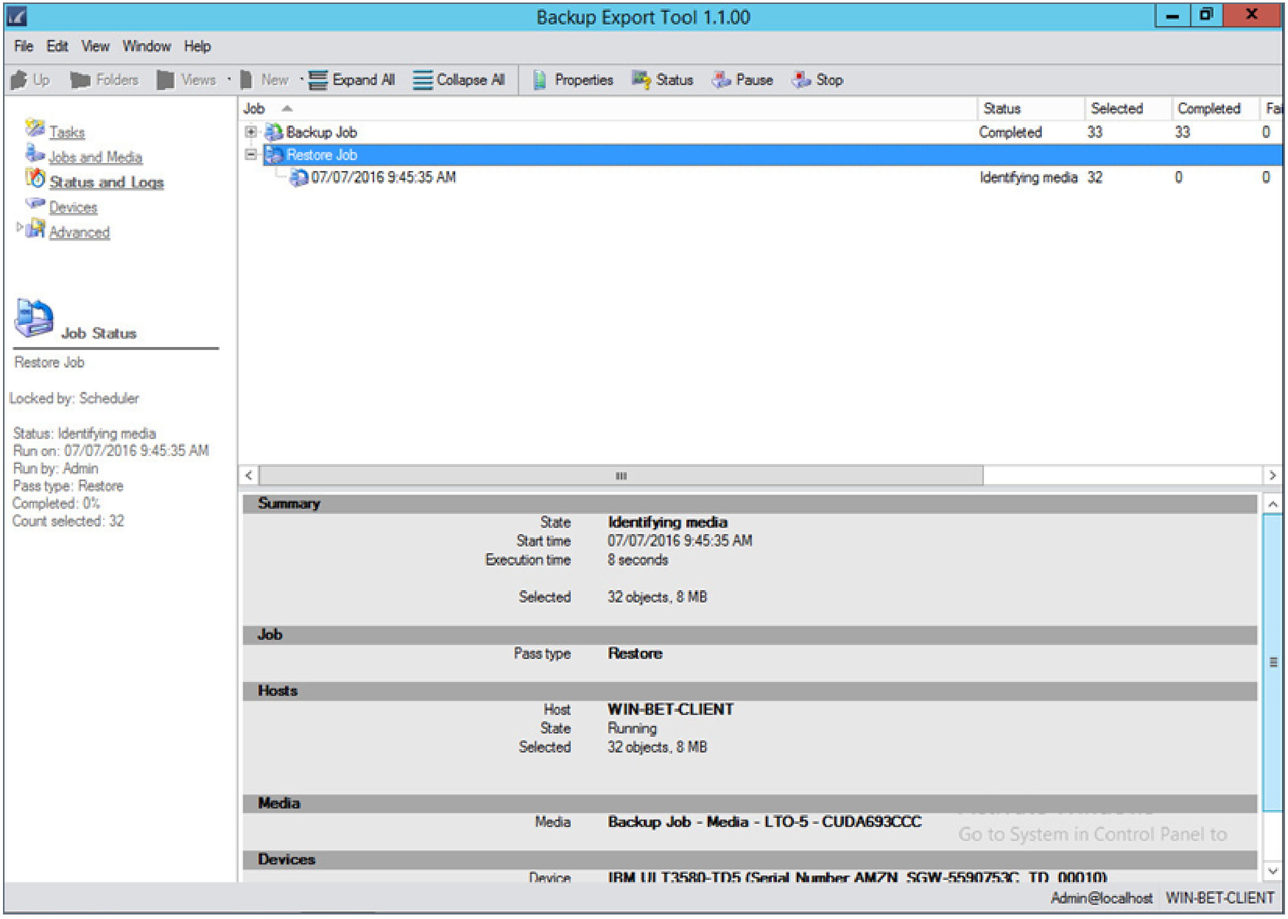


15. Right-click the restore job, and click **Run**, or click on the restore job and click **Run** in the toolbar to execute the restore job.
16. In the confirmation dialog, click **Yes** to run the backup/export job:



Are you sure you want to run the selected item(s)?

17. Click **Status and Logs** in the left pane to view the restore job status:



Job	Status	Selected	Completed	Fa
Backup Job	Completed	33	33	0
Restore Job				
07/07/2016 9:45:35 AM	Identifying media	32	0	0

Job Status

Restore Job

Locked by: Scheduler

Status: Identifying media
Run on: 07/07/2016 9:45:35 AM
Run by: Admin
Pass type: Restore
Completed: 0%
Count selected: 32

Summary

State **Identifying media**
Start time 07/07/2016 9:45:35 AM
Execution time 8 seconds

Selected 32 objects, 8 MB

Job

Pass type **Restore**

Hosts

Host **WIN-BET-CLIENT**
State Running
Selected 32 objects, 8 MB

Media

Media **Backup Job - Media - LTO-5 - CUDA693CCC**

Devices

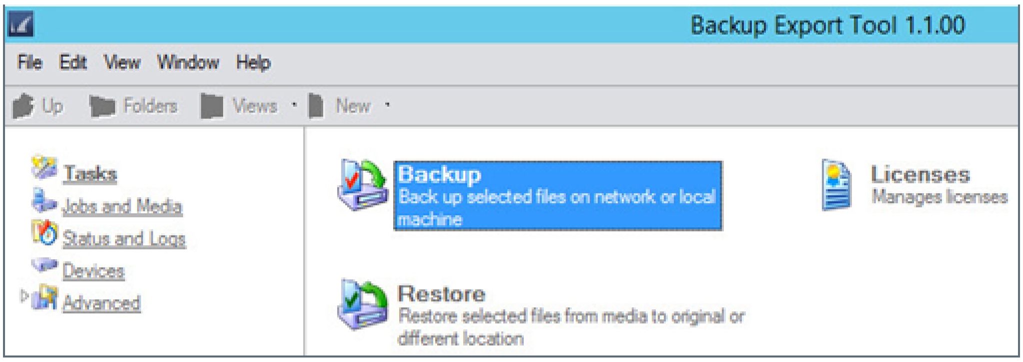
Device **IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00010)**

18. Allow the restore job to complete. Verify the data is successfully restored.

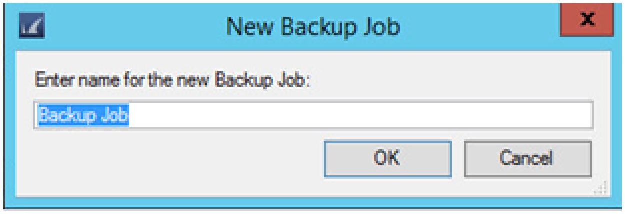
Export Data to AWS Storage Gateway-VTL

Once you set up your AWS Storage Gateway-VTL, install and configure the Backup Export Tool on your primary server and enable it in the Barracuda Backup user interface, use the steps in this article to manually export data from a Barracuda Backup appliance to your AWS Storage Gateway-VTL:

1. Open the **Backup Export Tool**.
2. From the **Tasks** page, double-click **Backup**:

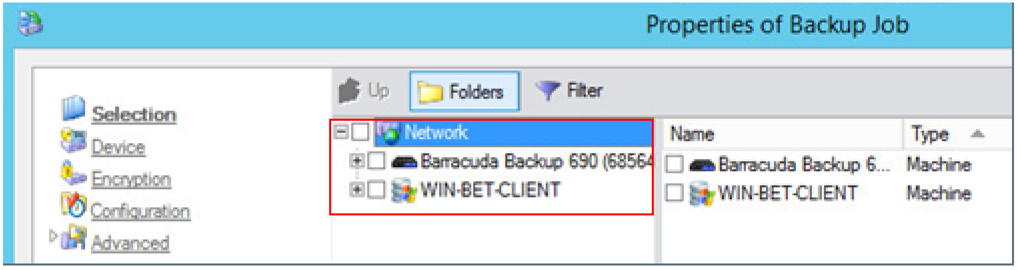

Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Backup
Back up selected files on network or local machine
Licenses
Manages licenses
Restore
Restore selected files from media to original or different location

3. In the **New Backup Job** window, enter a name to identify the backup/export job:



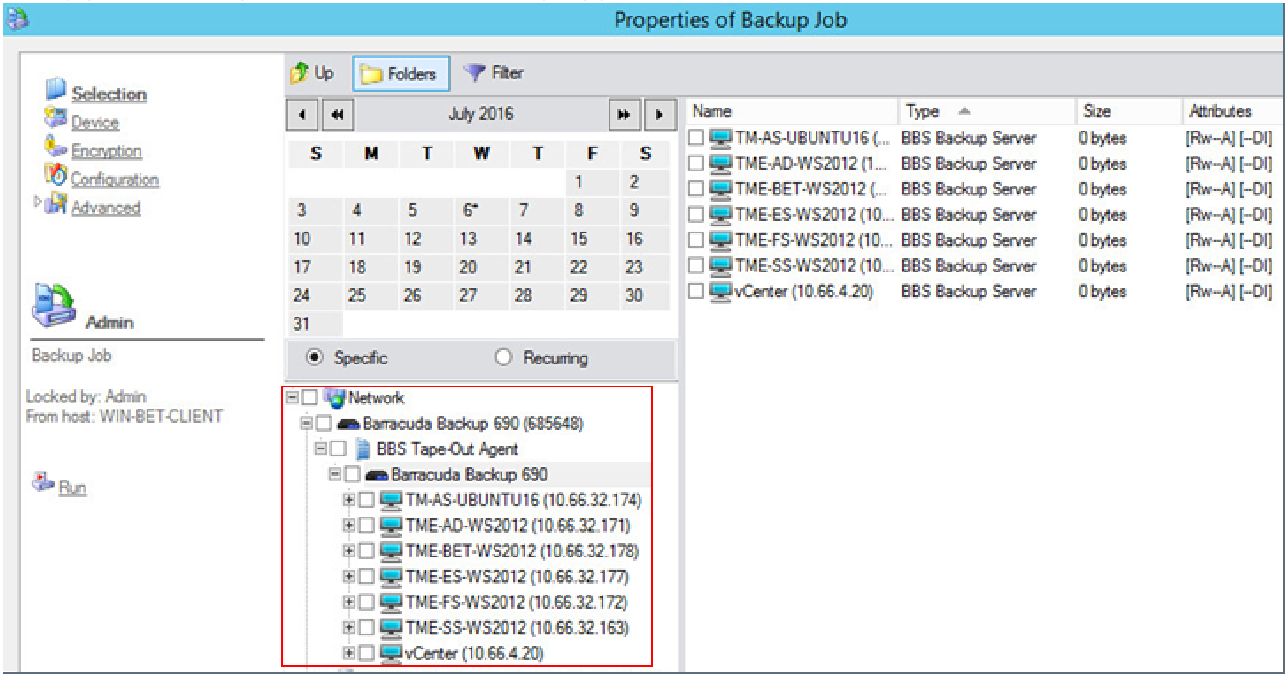
Enter name for the new Backup Job:
Backup Job

4. Click **OK**. The **Backup Job Properties** window displays. All Barracuda Backup appliances connected to the Backup Export Tool client display below **Network**:



Name	Type
□ Barracuda Backup 6...	Machine
□ WIN-BET-CLIENT	Machine

5. Expand your Barracuda Backup appliance tree until you reach the backup sources currently being protected by the Barracuda Backup appliance:

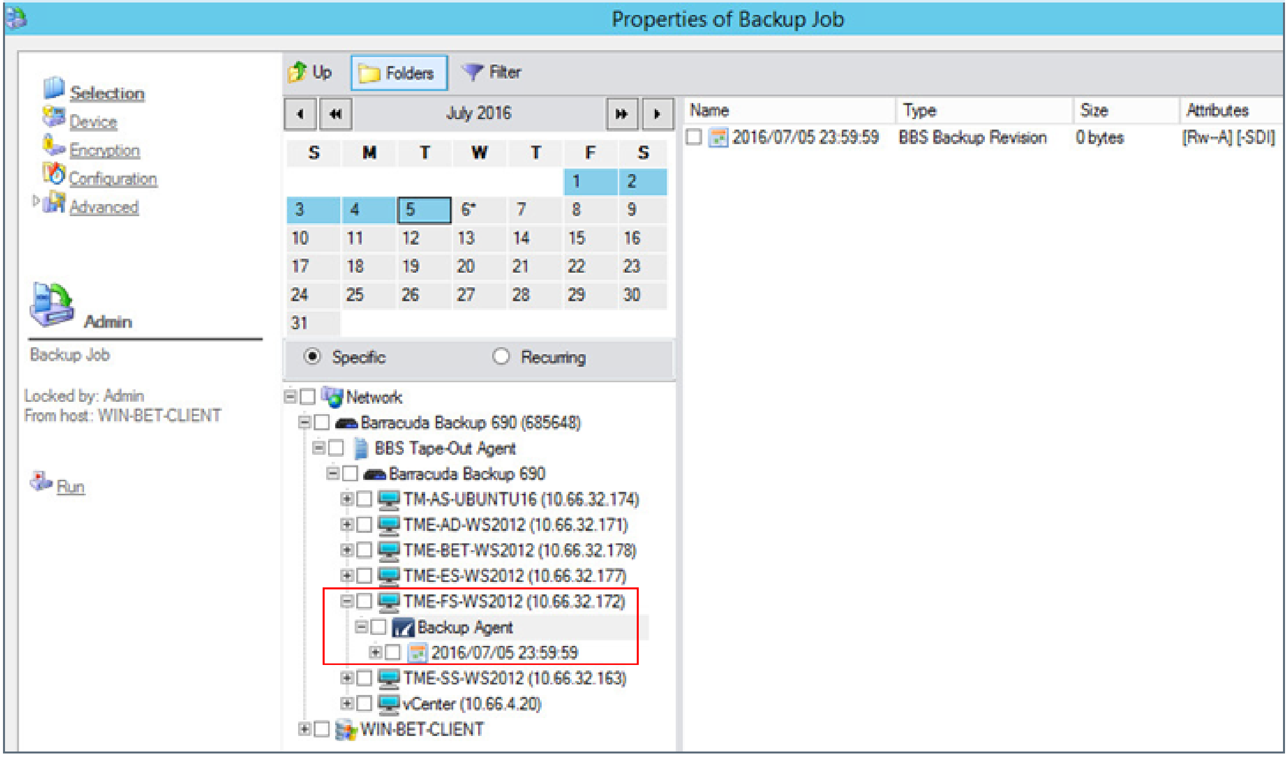


Name	Type	Size	Attributes
□ TM-AS-UBUNTU16 (...	BBS Backup Server	0 bytes	[Rw--A] [-DI]
□ TME-AD-WS2012 (1...	BBS Backup Server	0 bytes	[Rw--A] [-DI]
□ TME-BET-WS2012 (...	BBS Backup Server	0 bytes	[Rw--A] [-DI]
□ TME-ES-WS2012 (10...	BBS Backup Server	0 bytes	[Rw--A] [-DI]
□ TME-FS-WS2012 (10...	BBS Backup Server	0 bytes	[Rw--A] [-DI]
□ TME-SS-WS2012 (10...	BBS Backup Server	0 bytes	[Rw--A] [-DI]
□ vCenter (10.66.4.20)	BBS Backup Server	0 bytes	[Rw--A] [-DI]

6. Expand the data source containing the data you want to export. The revisions available for export are listed under **Backup Agent** in the tree. Note that only weekly, monthly, and yearly

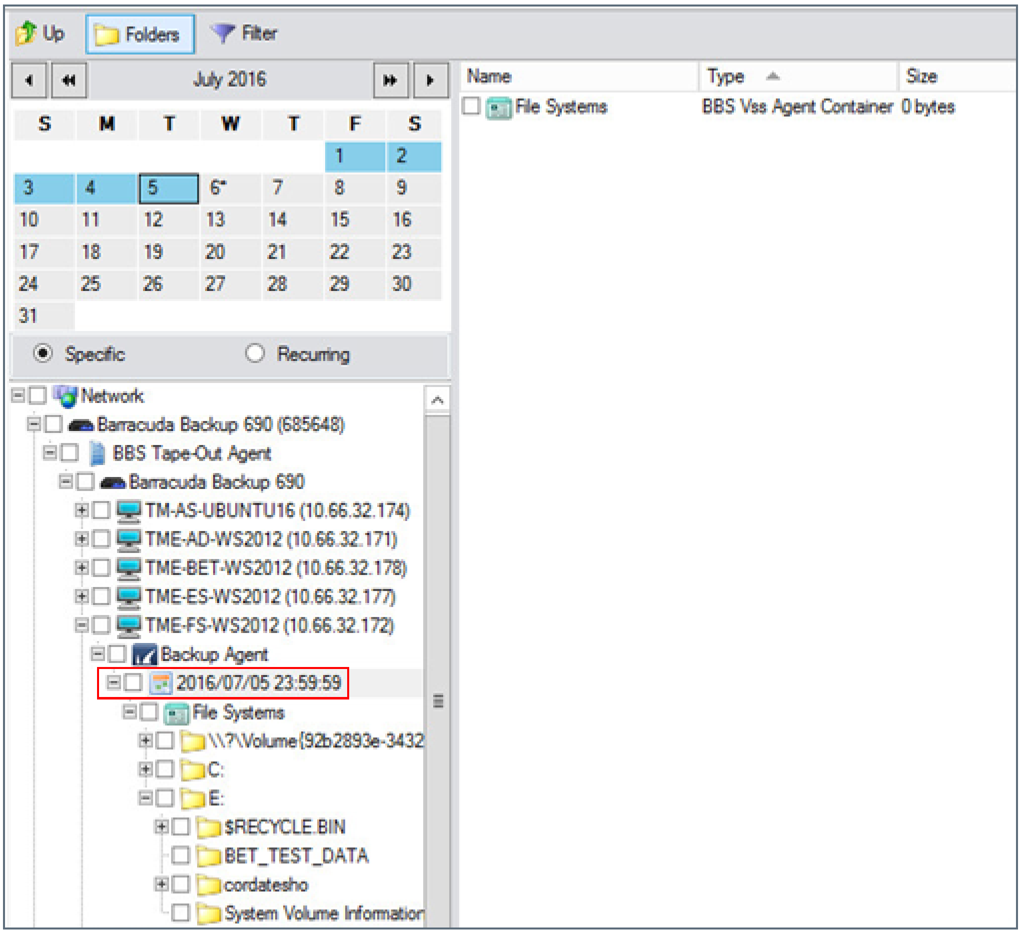
revisions are available for export:

Contact Barracuda Networks Technical Support if you need daily revisions.



Name	Type	Size	Attributes
□ 2016/07/05 23:59:59	BBS Backup Revision	0 bytes	[Rw--A] [-SDI]

7. Select the desired backup revision, and expand the tree to drill down into the folder structure. You can navigate the folder structure and any supported applications that are present, for example, Microsoft SQL, Exchange, Hyper-V:



July 2016

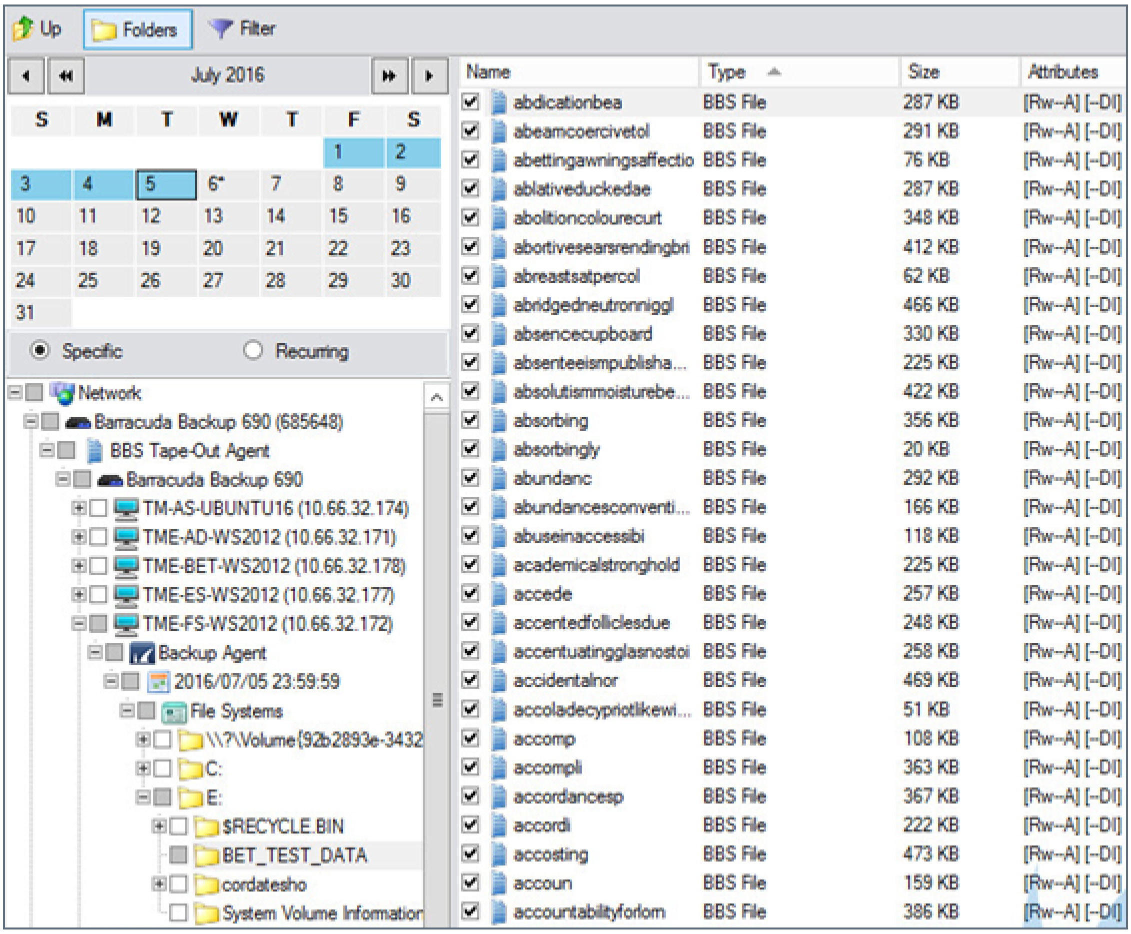
S	M	T	W	T	F	S
					1	2
3	4	5	6*	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

● Specific ○ Recurring

- □ Network
  - □ Barracuda Backup 690 (685648)
    - □ BBS Tape-Out Agent
      - □ Barracuda Backup 690
        - □ TM-AS-UBUNTU16 (10.66.32.174)
        - □ TME-AD-WS2012 (10.66.32.171)
        - □ TME-BET-WS2012 (10.66.32.178)
        - □ TME-ES-WS2012 (10.66.32.177)
        - □ TME-FS-WS2012 (10.66.32.172)
          - □ Backup Agent
            - □ 2016/07/05 23:59:59
              - □ File Systems
                - □ \\?\Volume{92b2893e-3432
                - □ C:
                - □ E:
                  - □ $RECYCLE.BIN
                  - □ BET_TEST_DATA
                  - □ cordatesho
                  - □ System Volume Information

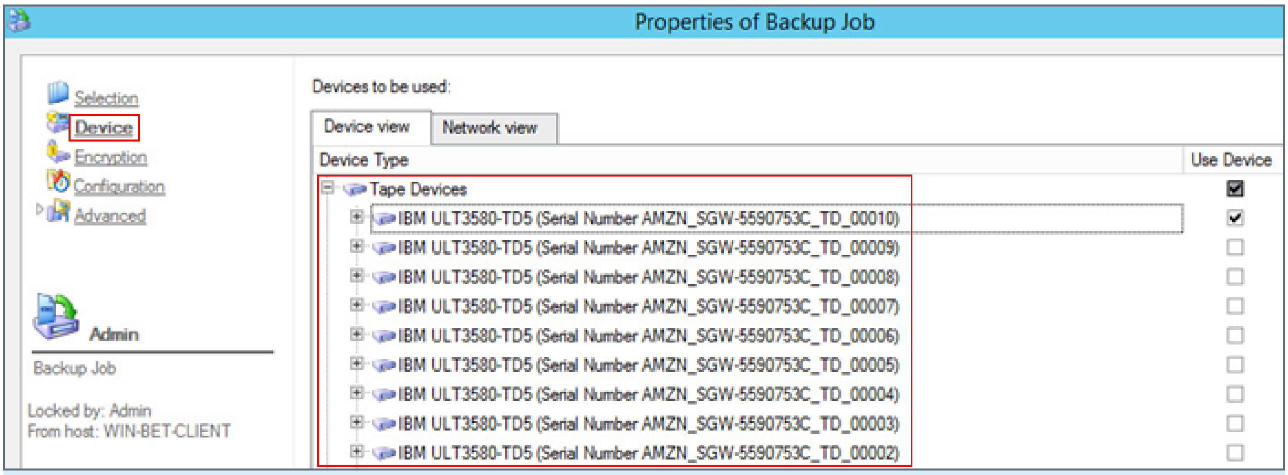
Name	Type	Size
□ File Systems	BBS Vss Agent Container	0 bytes

8. Navigate to and select the folder(s) containing the data you want to export from the Barracuda Backup appliance. The contents of the selected folder(s) displays in the right pane:



Name	Type	Size	Attributes
☑ abdicationbea	BBS File	287 KB	[Rw--A] [--DI]
☑ abeamcoercivetol	BBS File	291 KB	[Rw--A] [--DI]
☑ abettingawningsaffectio	BBS File	76 KB	[Rw--A] [--DI]
☑ ablativeduckedae	BBS File	287 KB	[Rw--A] [--DI]
☑ abolitioncolourecurt	BBS File	348 KB	[Rw--A] [--DI]
☑ abortivesearsrendingbri	BBS File	412 KB	[Rw--A] [--DI]
☑ abreastsatpercol	BBS File	62 KB	[Rw--A] [--DI]
☑ abridgedneutronniggl	BBS File	466 KB	[Rw--A] [--DI]
☑ absencecupboard	BBS File	330 KB	[Rw--A] [--DI]
☑ absenteeismpublisha...	BBS File	225 KB	[Rw--A] [--DI]
☑ absolutismmoisturebe...	BBS File	422 KB	[Rw--A] [--DI]
☑ absorbing	BBS File	356 KB	[Rw--A] [--DI]
☑ absorbingly	BBS File	20 KB	[Rw--A] [--DI]
☑ abundanc	BBS File	292 KB	[Rw--A] [--DI]
☑ abundanceconventi...	BBS File	166 KB	[Rw--A] [--DI]
☑ abuseinaccessibi	BBS File	118 KB	[Rw--A] [--DI]
☑ academicalstronghold	BBS File	225 KB	[Rw--A] [--DI]
☑ accede	BBS File	257 KB	[Rw--A] [--DI]
☑ accentedfolliclesdue	BBS File	248 KB	[Rw--A] [--DI]
☑ accentuatingglasnostoi	BBS File	258 KB	[Rw--A] [--DI]
☑ accidentalnor	BBS File	469 KB	[Rw--A] [--DI]
☑ accoladecypriotlikewi...	BBS File	51 KB	[Rw--A] [--DI]
☑ accomp	BBS File	108 KB	[Rw--A] [--DI]
☑ accompli	BBS File	363 KB	[Rw--A] [--DI]
☑ accordancesp	BBS File	367 KB	[Rw--A] [--DI]
☑ accordi	BBS File	222 KB	[Rw--A] [--DI]
☑ accosting	BBS File	473 KB	[Rw--A] [--DI]
☑ accoun	BBS File	159 KB	[Rw--A] [--DI]
☑ accountabilityforlom	BBS File	386 KB	[Rw--A] [--DI]

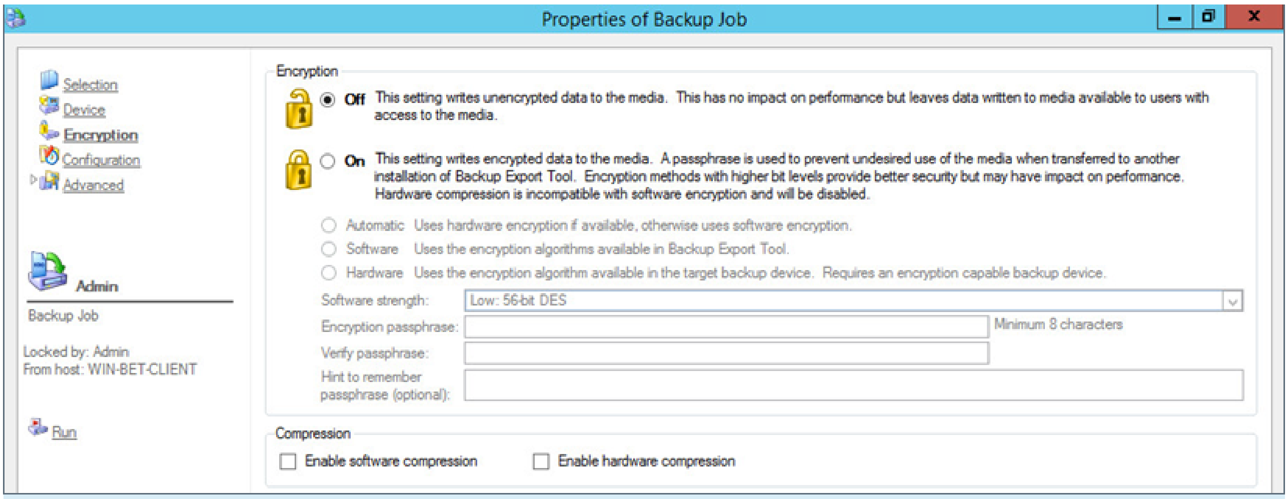
9. Click **Device** in the left pane, expand **Tape Device** in the right pane, and select a single tape device from the list:



Device Type	Use Device
Tape Devices	☑
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00010)	☑
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00009)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00008)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00007)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00006)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00005)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00004)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00003)	□
IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00002)	□

If you select multiple tape devices, data is exported to each device simultaneously. For a list of supported devices, refer to the *Backup Export Tool Supported Devices* section.

10. Once you select a device, click **Encryption** in the left pane:



Properties of Backup Job

Admin

Backup Job

Locked by: Admin
From host: WIN-BET-CLIENT

Encryption

● Off This setting writes unencrypted data to the media. This has no impact on performance but leaves data written to media available to users with access to the media.

○ On This setting writes encrypted data to the media. A passphrase is used to prevent undesired use of the media when transferred to another installation of Backup Export Tool. Encryption methods with higher bit levels provide better security but may have impact on performance. Hardware compression is incompatible with software encryption and will be disabled.

○ Automatic Uses hardware encryption if available, otherwise uses software encryption.

○ Software Uses the encryption algorithms available in Backup Export Tool.

○ Hardware Uses the encryption algorithm available in the target backup device. Requires an encryption capable backup device.

Software strength: Low: 56-bit DES

Encryption passphrase: Minimum 8 characters

Verify passphrase:

Hint to remember passphrase (optional):

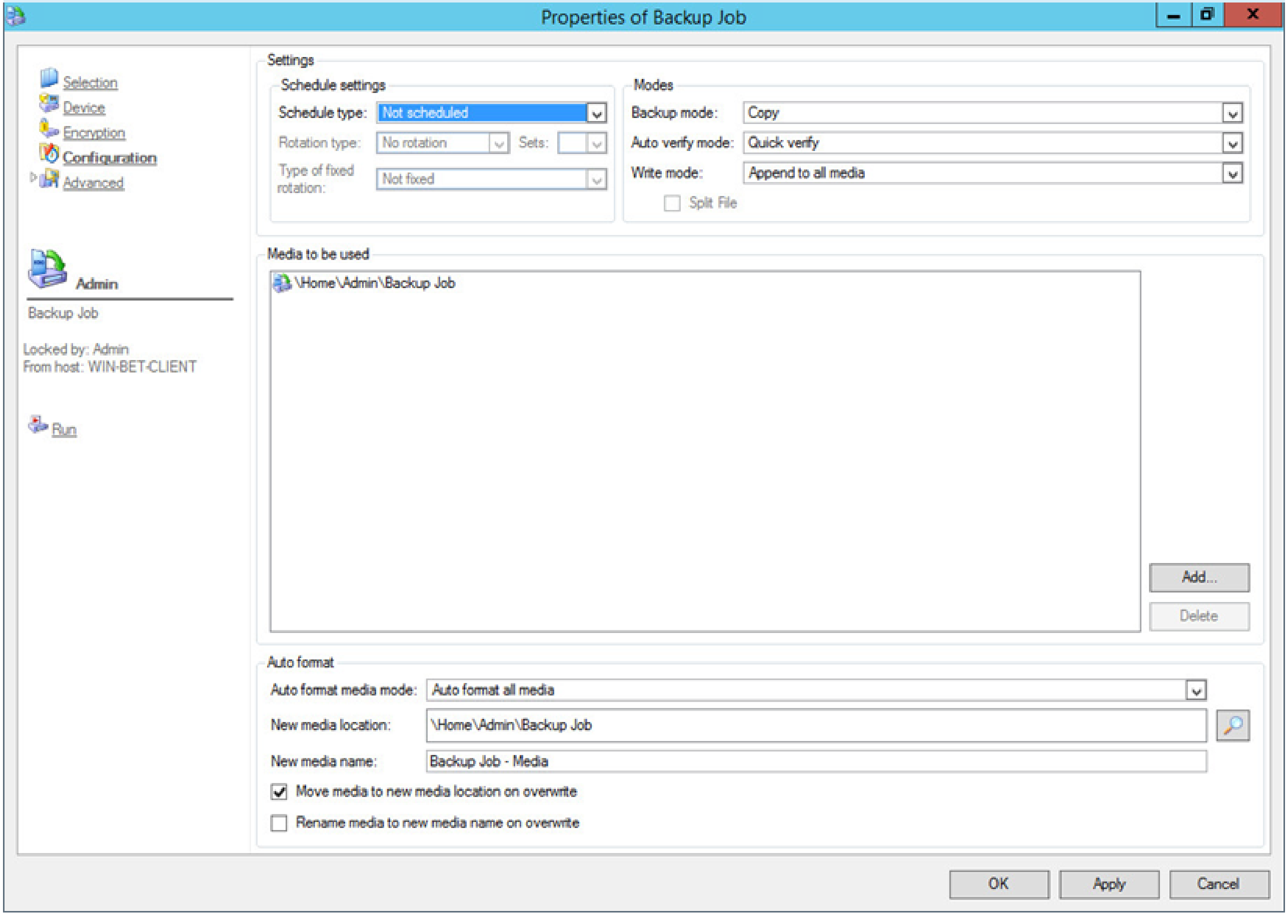
Compression

□ Enable software compression □ Enable hardware compression

You can optionally enable encryption and compression on the exported data. For more information, refer to the *Encryption and Compression* section in the Backup Export Tool article.

11. Once you select your encryption and compression options, click **Configuration** in the left pane. Use the **Configuration** page to specify how data is written to the selected storage device.

    See the *Configuring Backup Schedule Settings* section.



Properties of Backup Job

Admin

Backup Job

Locked by: Admin
From host: WIN-BET-CLIENT

Settings

Schedule settings

Schedule type: Not scheduled

Rotation type: No rotation Sets:

Type of fixed rotation: Not fixed

Modes

Backup mode: Copy

Auto verify mode: Quick verify

Write mode: Append to all media

□ Split File

Media to be used

\Home\Admin\Backup Job

Auto format

Auto format media mode: Auto format all media

New media location: \Home\Admin\Backup Job

New media name: Backup Job - Media

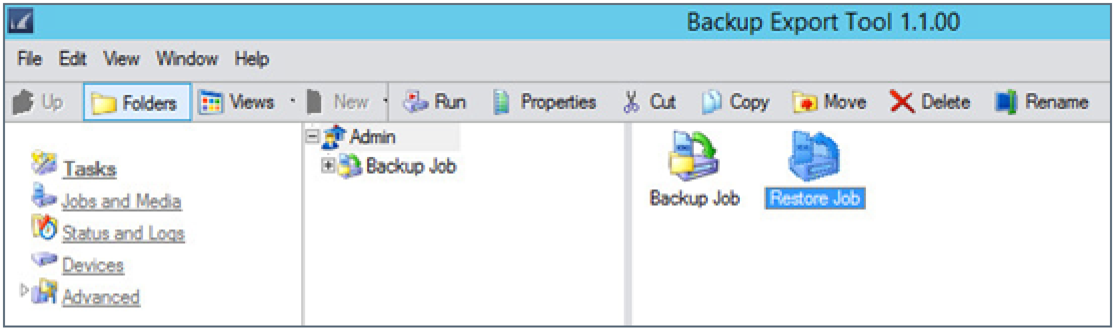
☑ Move media to new media location on overwrite

□ Rename media to new media name on overwrite

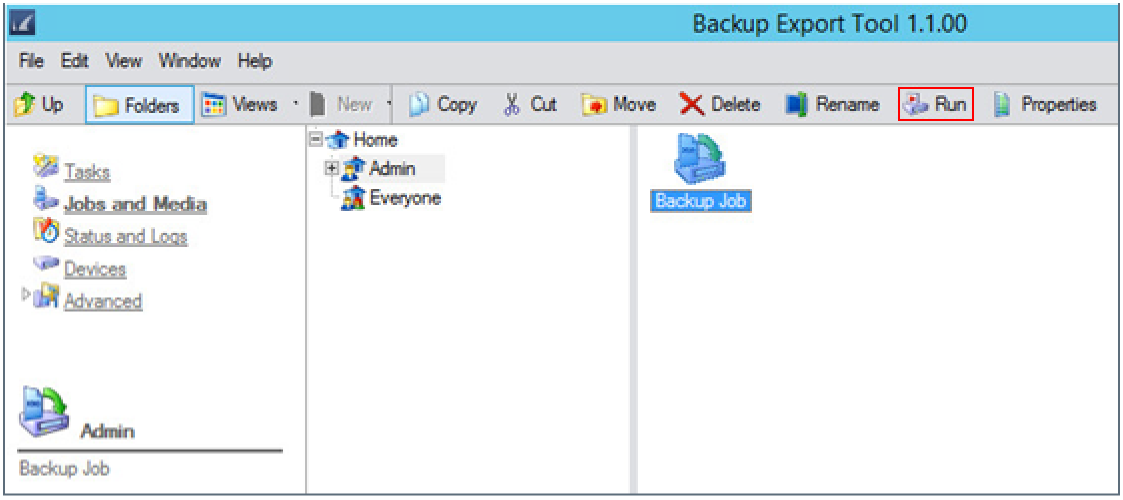
12. Once you configure your backup options, click **Advanced** in the left pane to access advanced options related to email alerts, log files, barcode filters, and copy policies.

    For more information on advanced options, refer to the *Backup Export Tool Advanced Options* section.

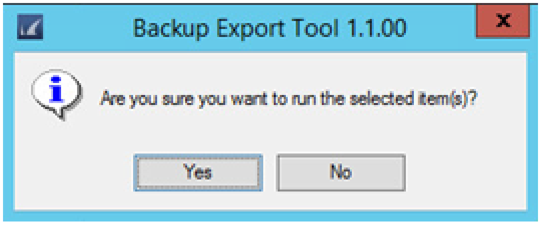
13. When you are done configuring options, click **OK** in the lower right corner to create the new backup job.
14. Click **Jobs and Media** in the left pane. The newly created backup/export job should now display in the right pane:


Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Run Properties Cut Copy Move Delete Rename
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Admin
Backup Job
Backup Job
Restore Job

15. Click on the backup job, and select **Run** in the toolbar, or right-click the backup job and click **Run** to execute the data export:

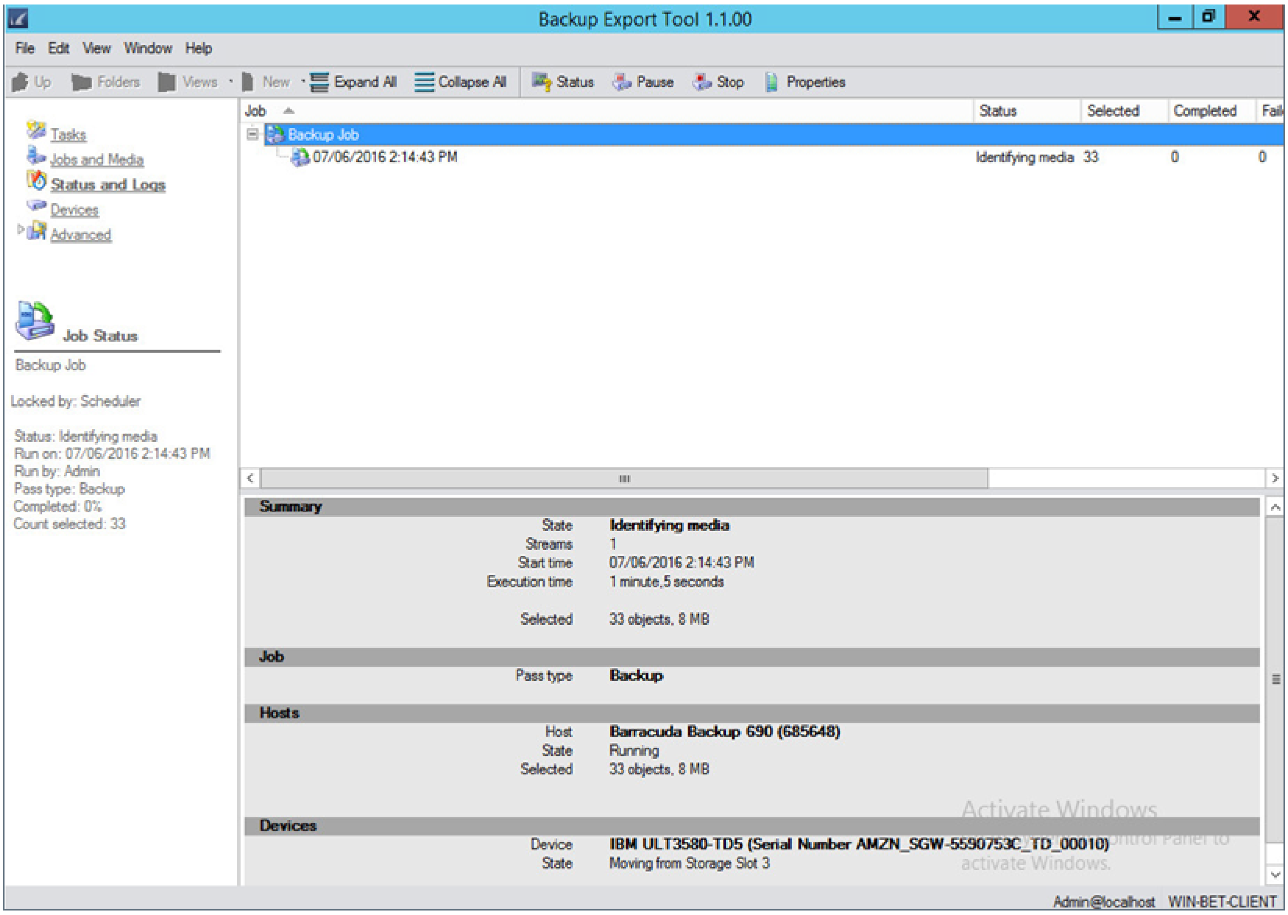

Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Copy Cut Move Delete Rename Run Properties
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Home
Admin
Everyone
Backup Job
Admin
Backup Job

16. In the confirmation dialog, click **Yes** to run the back/export job:



Are you sure you want to run the selected item(s)?

17. Click **Status and Logs** in the left pane to view the backup/export job status:


Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Expand All Collapse All Status Pause Stop Properties
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Job Status
Admin@localhost WIN-BET-CLIENT

Backup Job

Locked by: Scheduler

Status: Identifying media
Run on: 07/06/2016 2:14:43 PM
Run by: Admin
Pass type: Backup
Completed: 0%
Count selected: 33

Job	Status	Selected	Completed	Fail
Backup Job				
07/06/2016 2:14:43 PM	Identifying media	33	0	0

Summary

State **Identifying media**
Streams 1
Start time 07/06/2016 2:14:43 PM
Execution time 1 minute,5 seconds

Selected 33 objects, 8 MB

Job

Pass type **Backup**

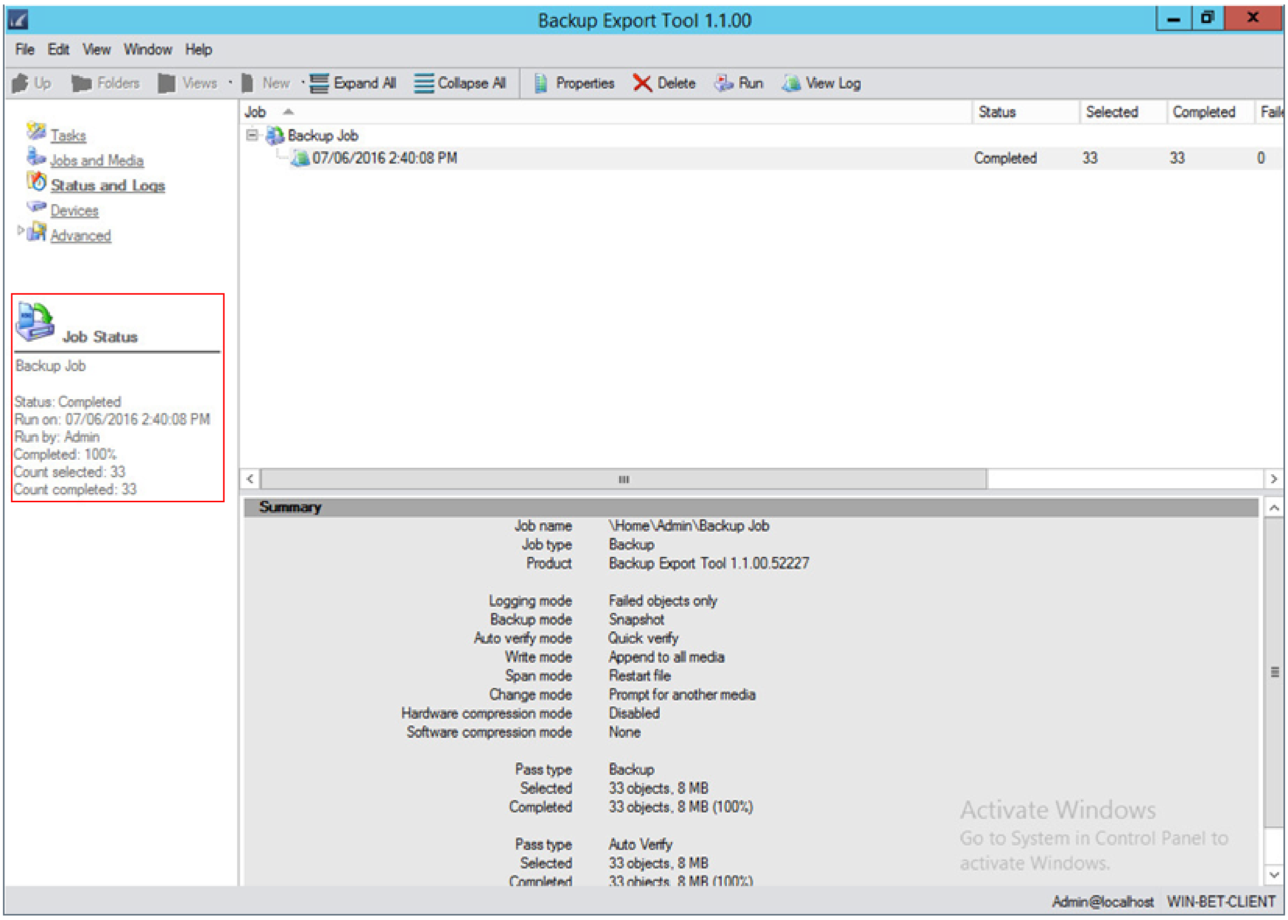
Hosts

Host **Barracuda Backup 690 (685648)**
State Running
Selected 33 objects, 8 MB

Devices

Device **IBM ULT3580-TD5 (Serial Number AMZN_SGW-5590753C_TD_00010)**
State Moving from Storage Slot 3

18. Allow the backup job to complete:


Backup Export Tool 1.1.00
File Edit View Window Help
Up Folders Views New Expand All Collapse All Properties Delete Run View Log
Tasks
Jobs and Media
Status and Logs
Devices
Advanced
Activate Windows
Go to System in Control Panel to activate Windows.
Admin@localhost WIN-BET-CLIENT

Job	Status	Selected	Completed	Fail
Backup Job				
07/06/2016 2:40:08 PM	Completed	33	33	0

Job Status

Backup Job

Status: Completed
Run on: 07/06/2016 2:40:08 PM
Run by: Admin
Completed: 100%
Count selected: 33
Count completed: 33

Summary

Job name	\Home\Admin\Backup Job
Job type	Backup
Product	Backup Export Tool 1.1.00.52227
Logging mode	Failed objects only
Backup mode	Snapshot
Auto verify mode	Quick verify
Write mode	Append to all media
Span mode	Restart file
Change mode	Prompt for another media
Hardware compression mode	Disabled
Software compression mode	None
Pass type	Backup
Selected	33 objects, 8 MB
Completed	33 objects, 8 MB (100%)
Pass type	Auto Verify
Selected	33 objects, 8 MB
Completed	33 objects, 8 MB (100%)

Figures