

## Creating a Physical Imaging Standard Backup

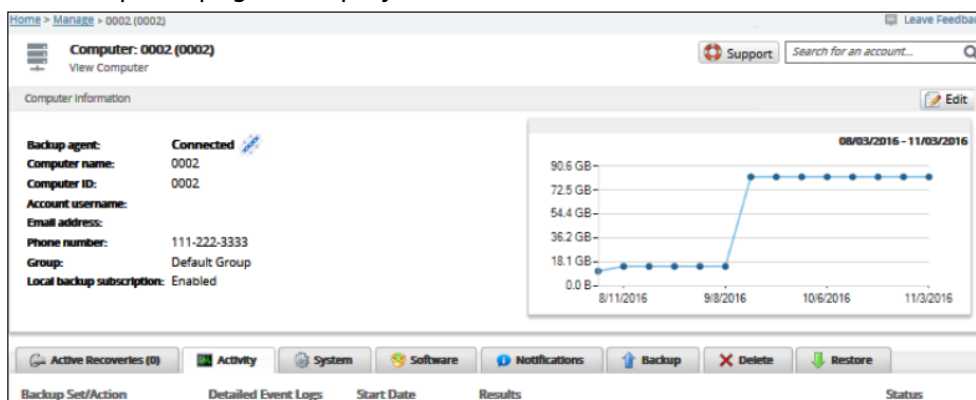
<https://campus.barracuda.com/doc/73702217/>

The Physical Imaging feature uses volume shadow copy service (VSS) to quiesce the system on backup. All VSS writers are involved in this process. Ensure the writers are in a correct state before running a backup.

## Creating Physical Imaging Rapid Recovery Backups

To create a Physical Imaging Rapid Recovery backup, perform the following steps.

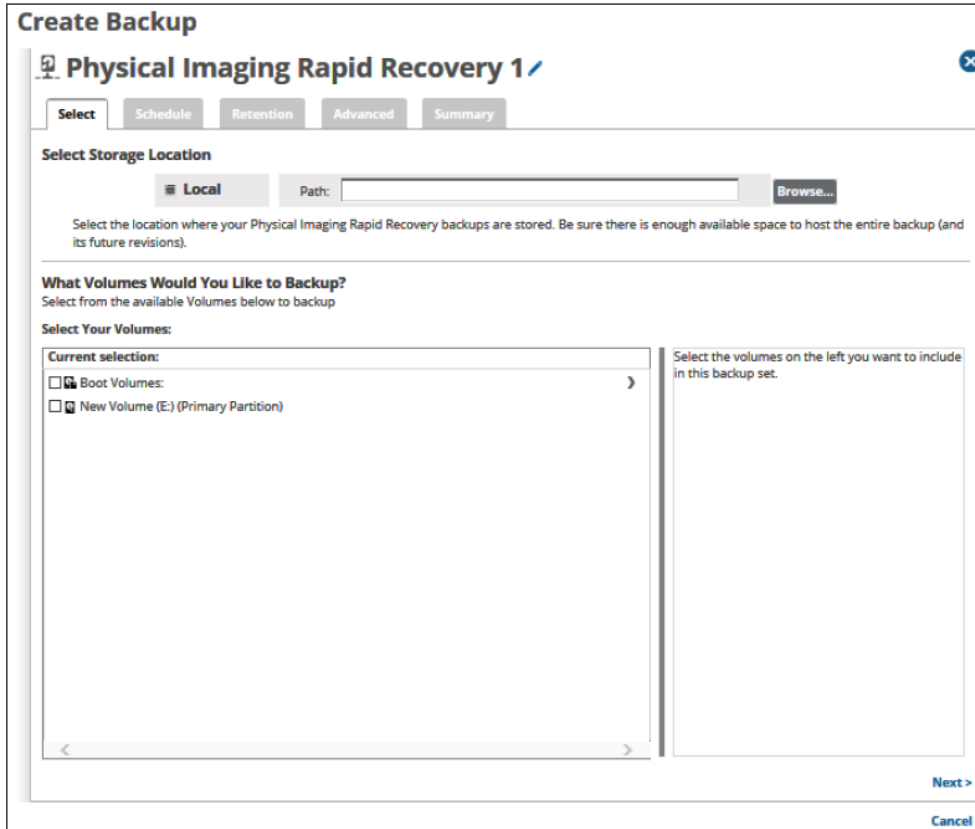
1. Navigate to the Computer page. See [Navigating to the Computer Page](#) for instructions. The Computer page is displayed.



2. Click the **Backup** tab. The Backup Selections page is displayed.

Backup Selections						
Export Backup Selection						
Backup Type	Type	Backup Set	Run	Next Backup	Scheduled	Remove
Files and Folders (1)	Files and Folders 1	Files and Folders 1	▶	11/15/2017 @ 11:00 PM	<input checked="" type="checkbox"/>	✕
Physical Imaging Rapid Recovery	Hyper-V Standard 1	Hyper-V Standard 1	▶	11/15/2017 @ 11:00 PM	<input checked="" type="checkbox"/>	✕
Physical Imaging Standard	Hyper-V Rapid Recovery	Hyper-V Rapid Recovery	▶	--	<input type="checkbox"/>	✕
Hyper-V Standard (1)	Hyper-V Rapid Recovery 1	Hyper-V Rapid Recovery 1	▶	Recurring	<input checked="" type="checkbox"/>	✕
Hyper-V Rapid Recovery (2)						
VMware Standard						
VMware QuickSpin						
SQL Server						
Exchange Information Store						
Exchange Mailbox Level						
System State						

3. In the Backup Type pane, click **Physical Imaging Rapid Recovery**.  
The Select page is displayed.



The screenshot shows the 'Create Backup' wizard for 'Physical Imaging Rapid Recovery 1'. The 'Select' tab is active, showing options for 'Local' storage and a 'Path' field with a 'Browse...' button. Below this, there's a section 'What Volumes Would You Like to Backup?' with a list of volumes to select. The 'Current selection' list includes 'Boot Volumes' and 'New Volume (E:) (Primary Partition)'. A 'Next >' button is at the bottom right, and a 'Cancel' button is at the bottom left.

**Create Backup**

**Physical Imaging Rapid Recovery 1**

**Select** | Schedule | Retention | Advanced | Summary

**Select Storage Location**

☒ Local Path:  **Browse...**

Select the location where your Physical Imaging Rapid Recovery backups are stored. Be sure there is enough available space to host the entire backup (and its future revisions).

**What Volumes Would You Like to Backup?**  
Select from the available Volumes below to backup

**Select Your Volumes:**

**Current selection:**

- ☐ Boot Volumes
- ☐ New Volume (E:) (Primary Partition)

Select the volumes on the left you want to include in this backup set.

**Next >**  
**Cancel**

4. Click the Backup Name to provide a new name for the backup set or accept the default. See [Changing Backup Set Names](#).
5. At the Select Storage Location Path field, type or browse to the destination of the backup. See [Browsing to a Folder](#).

## Requirements

Physical Imaging backups and their revisions must be stored locally. Valid local storage locations are:


- Direct attached storage
- Network attached storage
- Removable storage


The following local storage locations cannot be selected for backup:

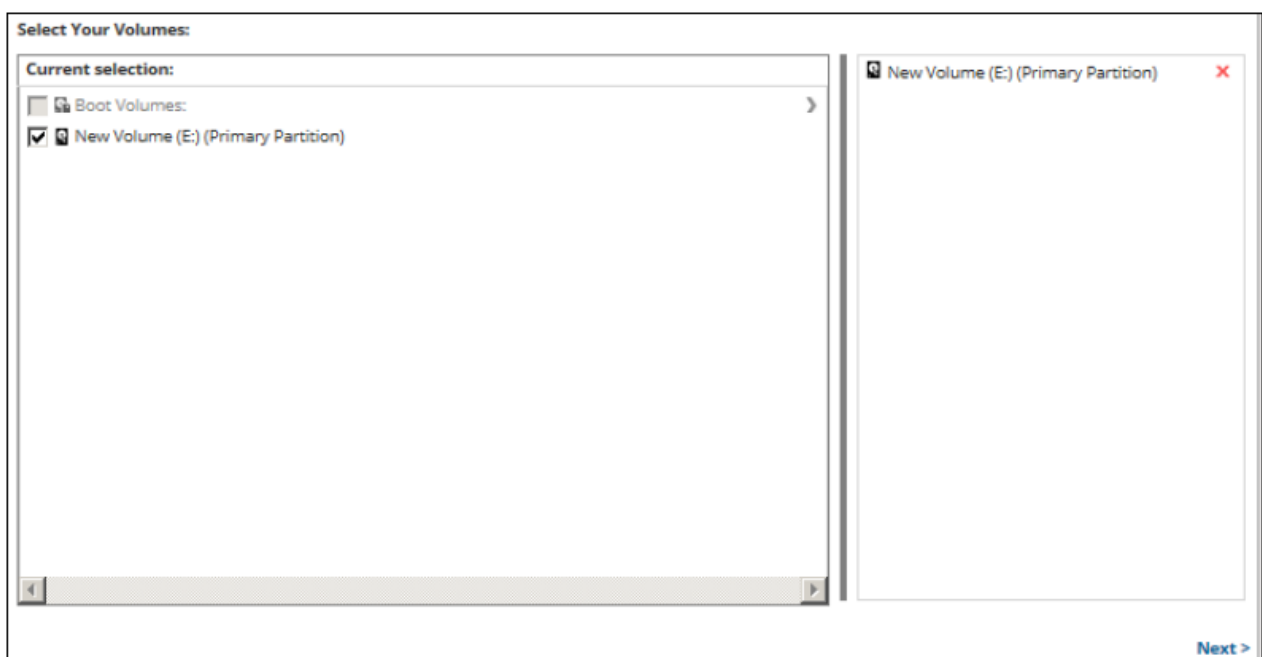
- Volumes with non-NTFS file systems

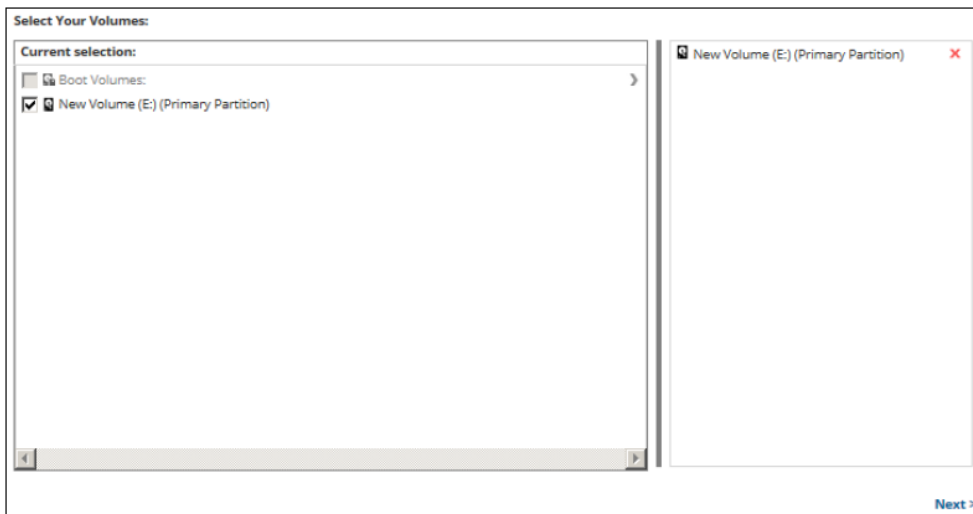
Important: Because you are backing up the full volume, ensure that you have enough local storage space for a full backup of each selected volume (it should be roughly equal to the used size of the volume) and any incremental changes.

6. In the Current Selection pane, select the volumes you would like to back up.

Clicking the arrow  at the right of the items displays more volumes.

The selection is displayed in the far-right pane. Click the remove icon  to remove any selections.



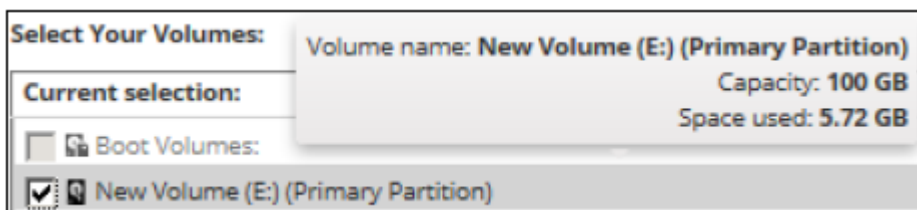


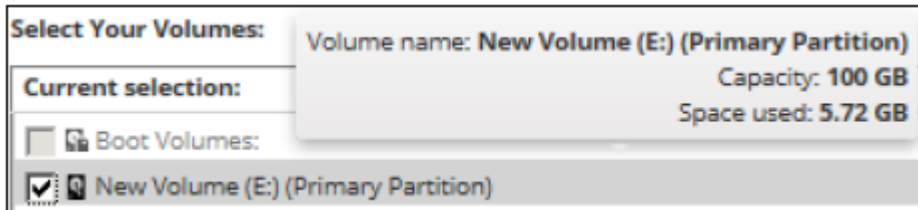
**Restrictions:** The following volume sets cannot be selected for backup:

- Volumes with non-NTFS file systems (Unless the System volume is part of the Boot Volumes group.)
- Remote volumes /mapped network drives
- Volumes that are already included in a Physical Imaging backup set (grayed out).
- Removable media.
- Volumes that are encrypted and locked.
- Local Only/Online and Local backup sets, and volumes that include the Local Vault location.

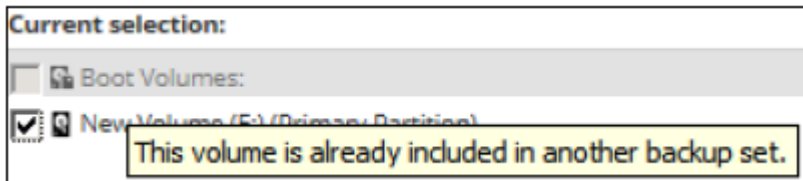
**Notes:**

- The boot volumes group allows easy selection of any volume required to perform a restore of the physical system as a functional virtual machine or as VHD/X.
- Hovering over an available selection displays its capacity and spaced used, as shown below.





- Hovering over an unavailable volume, displays its status, as shown below.

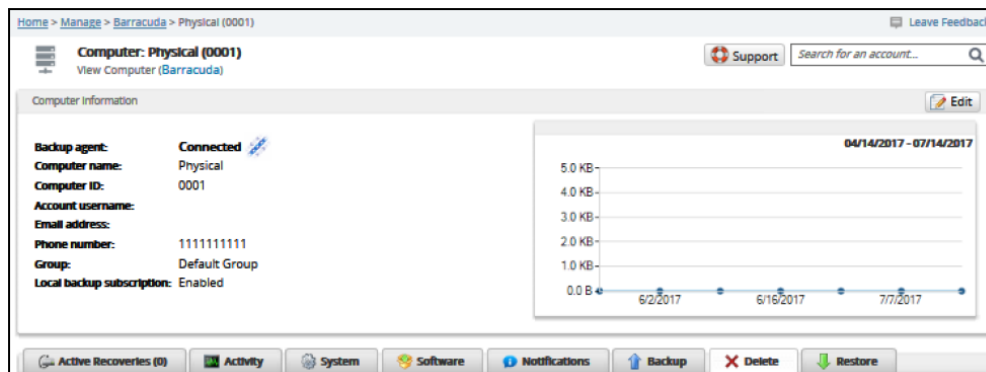


- You cannot select removable media for backup. If attempted, the following error message is displayed.
7. After selecting the volumes/revisions, click Next.
  8. The Schedule page is displayed.
  9. Accept or edit the default schedule. See Adding a New Daily or Weekly Schedule for more information.
  10. Notes:
    11. • A once daily backup is the default schedule for a Physical Imaging Rapid Recovery backup set.
    12. • Multiple weekly schedules are permitted (if they do not overlap).
    13. • Hourly and daily recurrences cannot be mixed with weekly recurrences
    14. • Only one daily or hourly schedule can be configured.
  15. After setting the schedule, click Next.
  16. The Retention page is displayed.
  17. Note: The default backup runs 7 days a week, retaining 7 versions of the backup.
  18. 10. Select the number of versions you wish to archive, and then click Next.
  19. The Advanced page is displayed.
  20. Requirement: You must specify a temporary folder located on a disk with enough space.
  21. At the Temporary Folder field, accept the default, type a new path, or click the Browse button to locate the temporary folder that is used in backing up. See Browsing to a Folder.
  22. 12. After selecting the destination of the restore, click Next.
  23. The Summary page is displayed.
  24. 13. After reviewing your selections, click the Create Backup Set button.
  25. The schedule backup is displayed on the Backup Selections page.

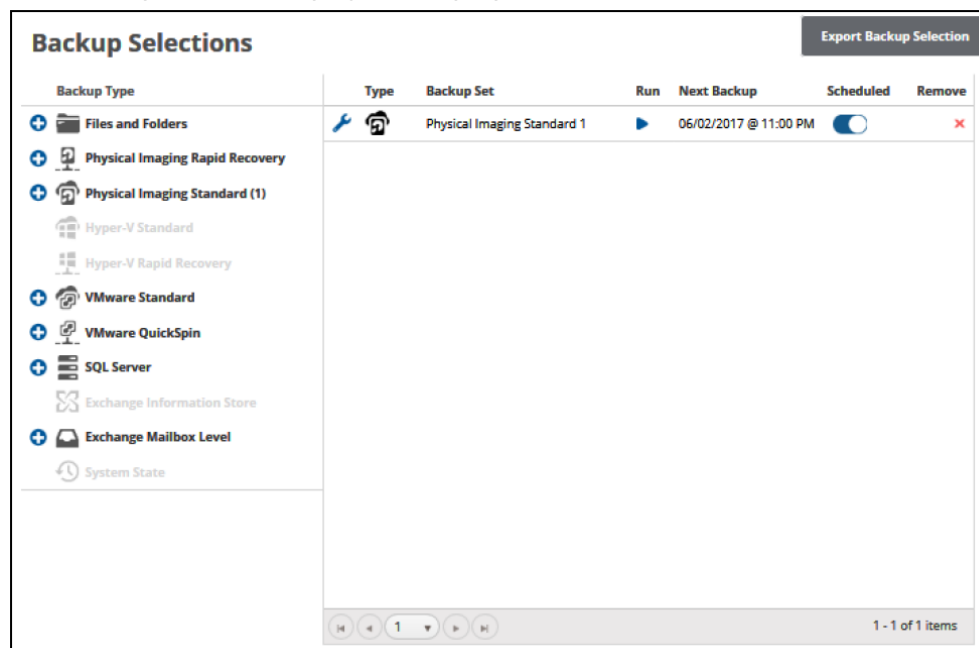
## Creating Physical Imaging Standard Backup Sets

To create a Physical Imaging Standard backup set, perform the following steps.

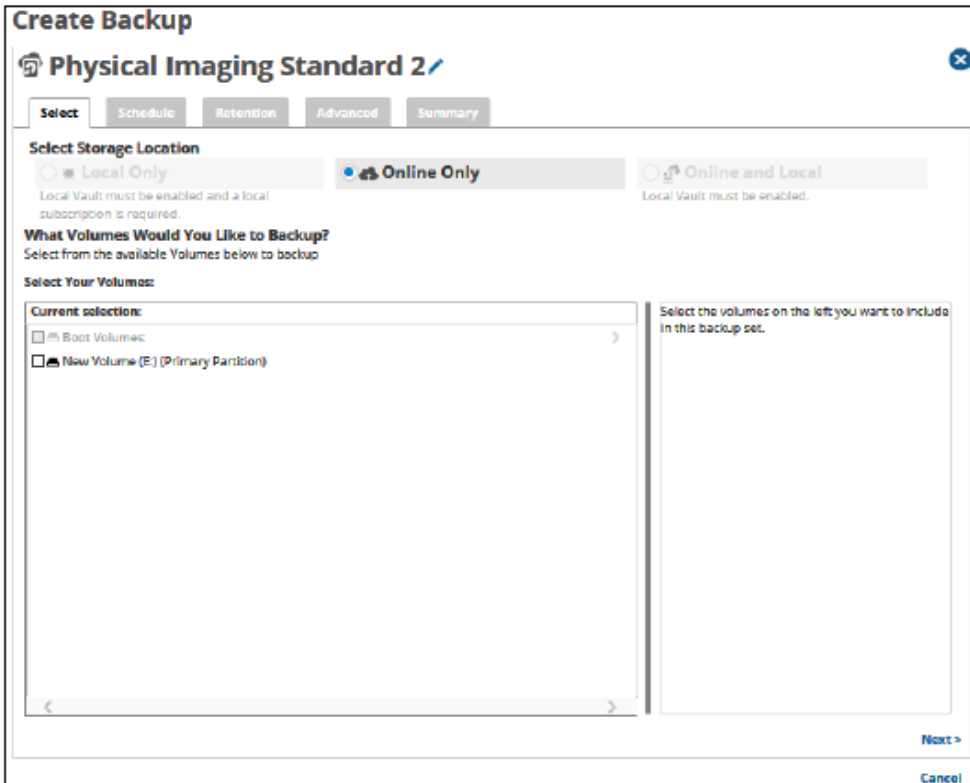
1. Navigate to the Computer page.  
The Computer page is displayed.



2. Click the **Backup** tab.  
The Backup Selections page is displayed.



3. In the Backup Type pane, click the select icon beside **Physical Imaging Standard** to create the backup.  
The Select page is displayed.



4. Click the Backup Name to provide a new name for your backup set, or accept the default.

5. At the Select Storage Location section, click one of the following options.

**Note:** This procedure applies to all options. See Backup Options for more information.

- **Local Only** (Local Vault must be enabled and a local subscription is required. Data is not backed up to the cloud.)
- **Online Only** (An enabled Local Vault disables this option.)
- **Online and Local** (Local Vault must be enabled.)

The selection is highlighted and the volumes are displayed in the Current Selection pane.

#### Requirements

Physical Imaging backups and their revisions may be stored to a local vault.

Valid local vaults are:


- Direct attached storage
- Network attached storage
- Removable storage


The following local vault locations cannot be selected for backup:

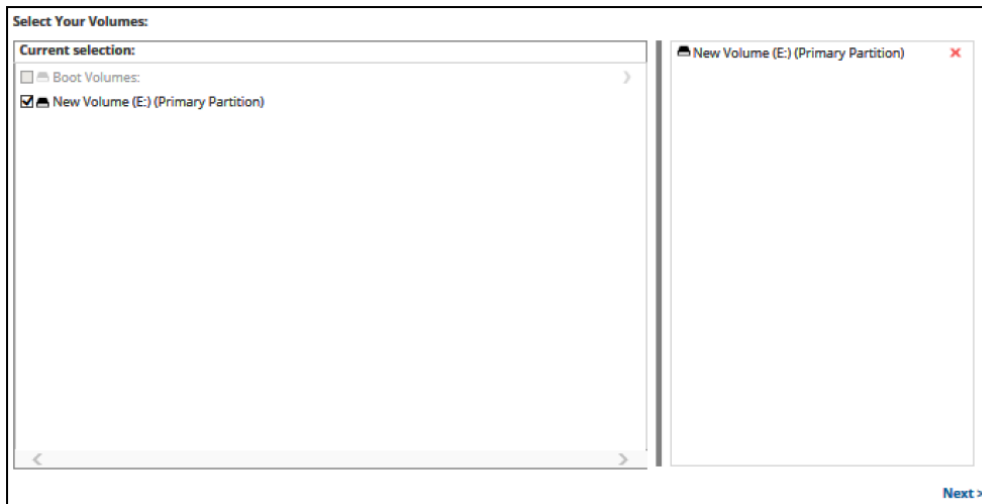
- Volumes with non-NTFS file systems

**Important:** Because you are backing up the full volume, ensure that you have enough local storage space for a full backup of each selected volume (it should be roughly equal to the used size of the volume) and any incremental changes.

6. In the Current Selection pane, select the volumes you would like to back up.

Clicking the arrow  at the right of the items displays more volumes.

The selection is displayed in the far right pane. Click the remove  icon to remove any selections.



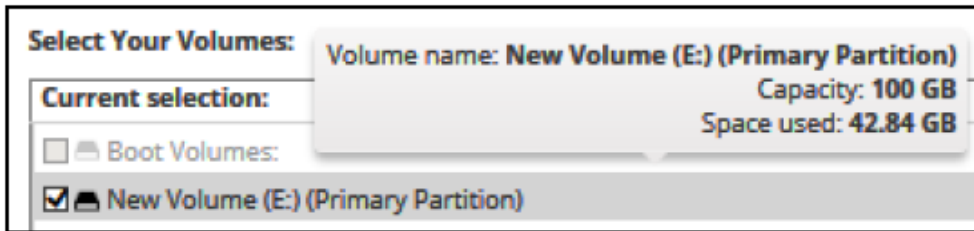
**Requirements:** The following volume sets cannot be selected for backup:

- Volumes with non-NTFS file systems (Unless the System volume is part of the Boot Volumes group.)
- Remote volumes /mapped network drives
- Volumes that are already included in a Physical Imaging backup set (grayed-out).
- Removable media.
- Volumes that are encrypted and locked.
- Local Only/Online and Local backup sets, and volumes that include the Local Vault location.

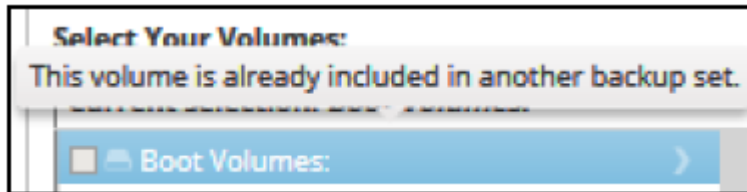
**Notes:**

- The boot volumes group allows easy selection of any volume required to perform a restore of the physical system as a functional virtual machine or as VHD/X.
- Hovering over an available selection displays its capacity and spaced used, as shown below.



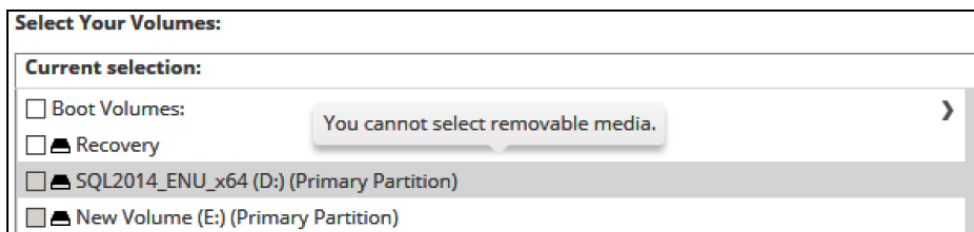


- Hovering over an unavailable volume, displays its status, as shown below.



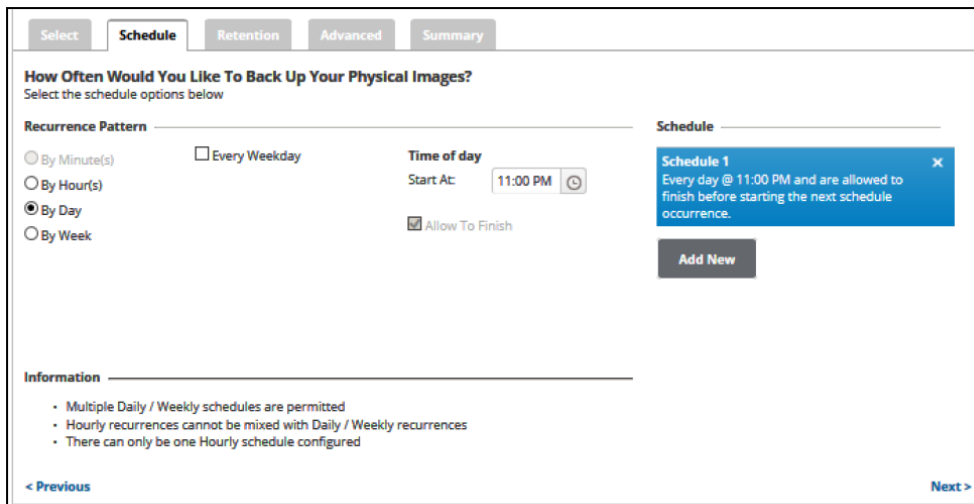
This hover message displays because the volume is included in another backup set.

- You cannot select removable media for backup. If attempted, the following error message is displayed.



7. After selecting the volumes/revisions, click **Next**.

The Schedule page is displayed.



8. Accept or edit the default schedule.

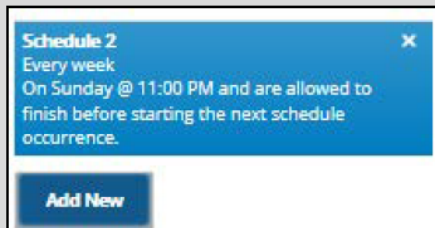
#### Notes:

- A once daily backup is the default schedule for a Physical Imaging Standard backup set.
- Multiple weekly schedules are permitted (as long as they do not overlap).
- Hourly recurrences cannot be mixed with daily/weekly recurrences
- Only one hourly schedule can be configured.

### Adding a New Daily or Weekly Schedule

a. To add additional daily or weekly schedules, click the **Add New** button.

The new Schedule is displayed and the **Add New** button is highlighted, as shown below.



b. Make your selections.

The new schedule details are displayed.

### Editing Existing Daily or Weekly Schedules

a. To edit existing schedules, in the Schedule column, click the schedule details.

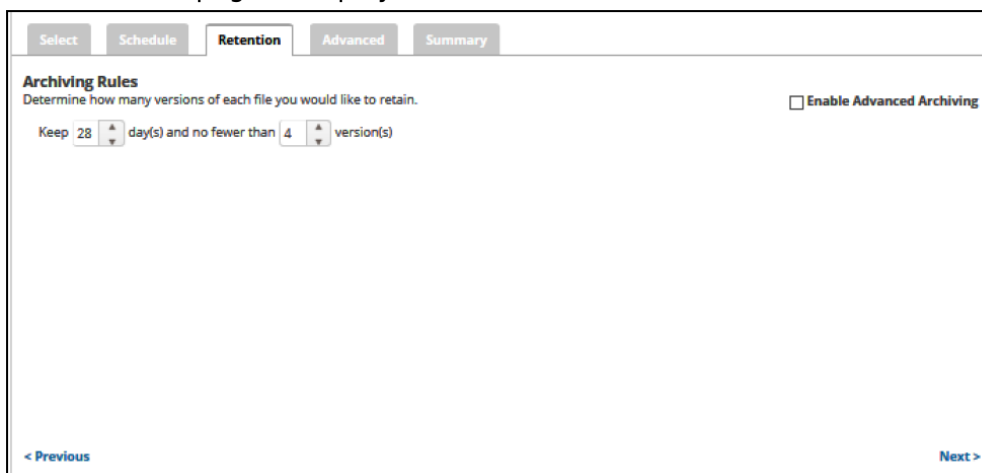
The Schedule is highlighted.

b. Select your new daily or weekly times.

Your schedule is displayed in the Schedule column. Click the remove icon to delete schedule.

9. After setting the schedule, click **Next**.

The Retention page is displayed.

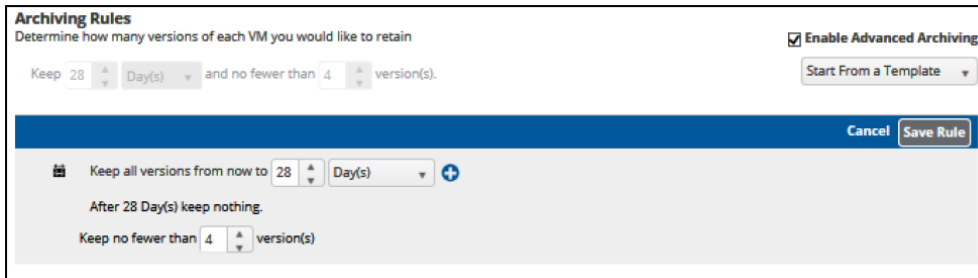


10. Select the number of versions you wish to archive and the number of days to retain.

**Note:** The default retains 4 recoverable versions of backups for 28 days.

11. Optionally, select the **Enable Advanced Archiving** check box.

The Advanced Archiving fields are displayed.



**Archiving Rules**  
Determine how many versions of each VM you would like to retain

Keep 28 Day(s) and no fewer than 4 version(s).

☒ Enable Advanced Archiving

Start From a Template

Cancel Save Rule

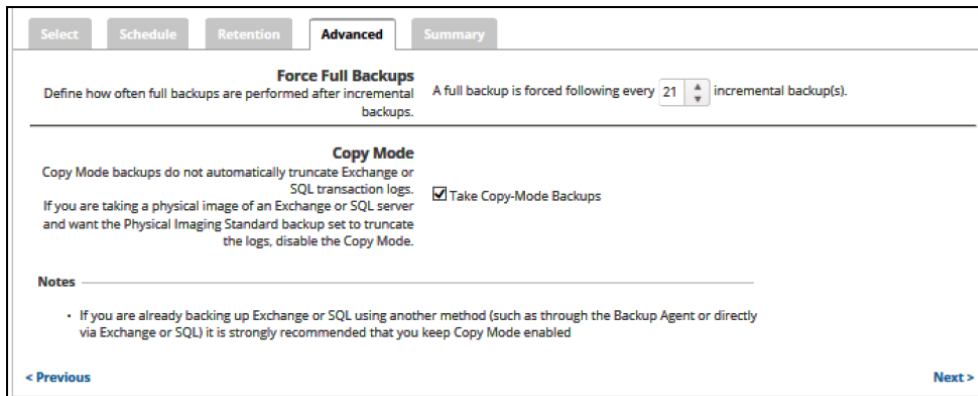
Keep all versions from now to 28 Day(s)

After 28 Day(s) keep nothing.

Keep no fewer than 4 version(s)

**Example:** The setting of a daily backup kept for 30 days and no fewer than 10 versions mean that 30 versions are kept. However, a setting of once a week means that after 10 weeks, 10 versions are kept.

12. Make your selections, click **Save Rule**, and then click **Next**.  
The Advanced page is displayed.



Select Schedule Retention **Advanced** Summary

**Force Full Backups**  
Define how often full backups are performed after incremental backups. A full backup is forced following every 21 incremental backup(s).

**Copy Mode**  
Copy Mode backups do not automatically truncate Exchange or SQL transaction logs. If you are taking a physical image of an Exchange or SQL server and want the Physical Imaging Standard backup set to truncate the logs, disable the Copy Mode.

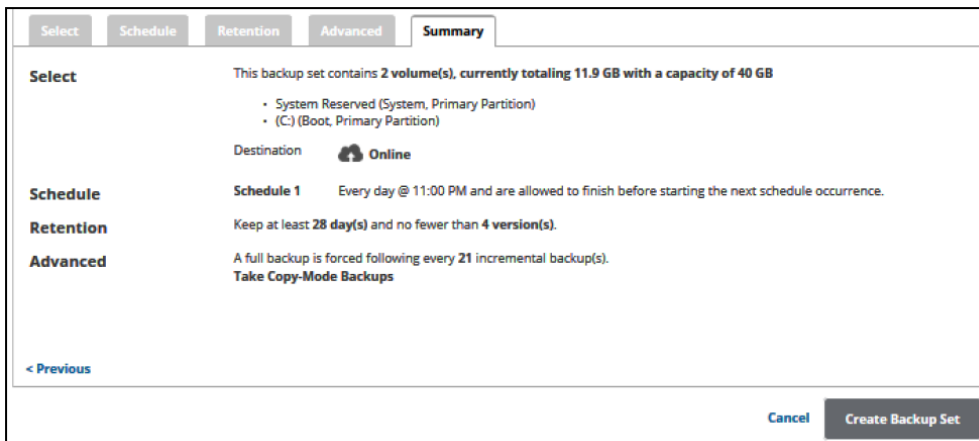
☒ Take Copy-Mode Backups

**Notes**

- If you are already backing up Exchange or SQL using another method (such as through the Backup Agent or directly via Exchange or SQL) it is strongly recommended that you keep Copy Mode enabled

< Previous Next >


13. At the Force Full Backups section, specify how often full backups are performed after incremental backups.  
**Note:** The range is from 1 to 60 backups. The default is every 21st incremental backup.
14. At the Copy Mode section, select or clear the **Take Copy Mode Backups** check box, and then click **Next**.  
**Note:** The **Take Copy Mode Backups checkbox** is selected by default.  
Copy Mode backups do not automatically truncate Exchange or SQL transaction logs.  
If you are taking a physical image of an Exchange or SQL server and want the Physical Imaging Standard backup set to truncate the logs, disable Copy Mode.  
If you already are backing up Exchange or SQL using another method (such as through the ECHOplatform Backup Agent or directly via Exchange or SQL), then keep Copy Mode enabled.  
The Summary page is displayed.



The screenshot shows the 'Summary' tab of a backup configuration window. It includes tabs for 'Select', 'Schedule', 'Retention', 'Advanced', and 'Summary'. The 'Select' section shows a backup set with 2 volumes totaling 11.9 GB out of a 40 GB capacity, including System Reserved and C: partitions. The 'Schedule' section shows a daily backup at 11:00 PM. The 'Retention' section shows keeping at least 28 days and 4 versions. The 'Advanced' section shows a full backup forced every 21 incremental backups. At the bottom, there are 'Cancel' and 'Create Backup Set' buttons.

**Select** This backup set contains 2 volume(s), currently totaling 11.9 GB with a capacity of 40 GB

- System Reserved (System, Primary Partition)
- (C:) (Boot, Primary Partition)

Destination  Online

**Schedule** **Schedule 1** Every day @ 11:00 PM and are allowed to finish before starting the next schedule occurrence.

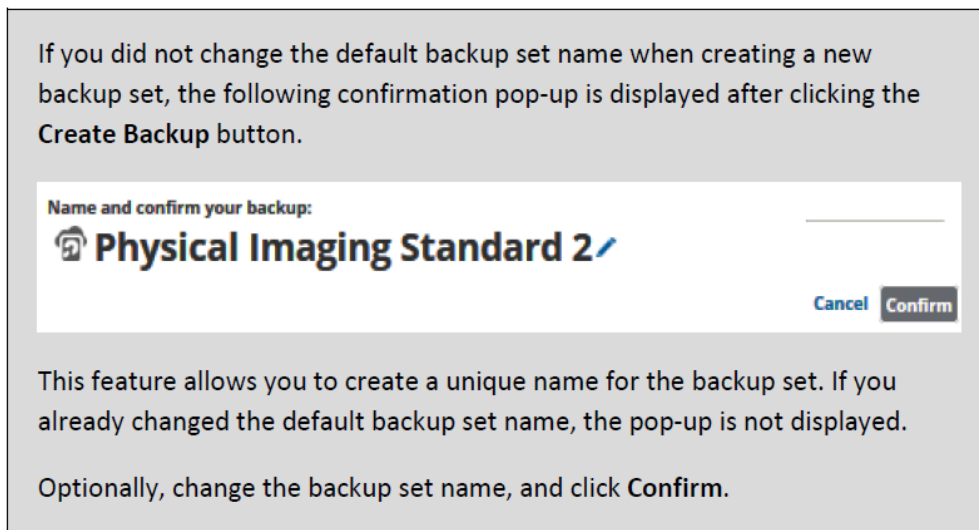
**Retention** Keep at least 28 day(s) and no fewer than 4 version(s).

**Advanced** A full backup is forced following every 21 incremental backup(s).  
Take Copy-Mode Backups

< Previous

Cancel Create Backup Set


15. After reviewing your selections, click the **Create Backup Set** button.



The screenshot shows a confirmation pop-up titled 'Name and confirm your backup:'. It contains a text input field with the name 'Physical Imaging Standard 2' and a blue checkmark icon. Below the input field are 'Cancel' and 'Confirm' buttons. The pop-up is overlaid on a grey background with explanatory text.

If you did not change the default backup set name when creating a new backup set, the following confirmation pop-up is displayed after clicking the **Create Backup** button.

Name and confirm your backup:

 **Physical Imaging Standard 2**

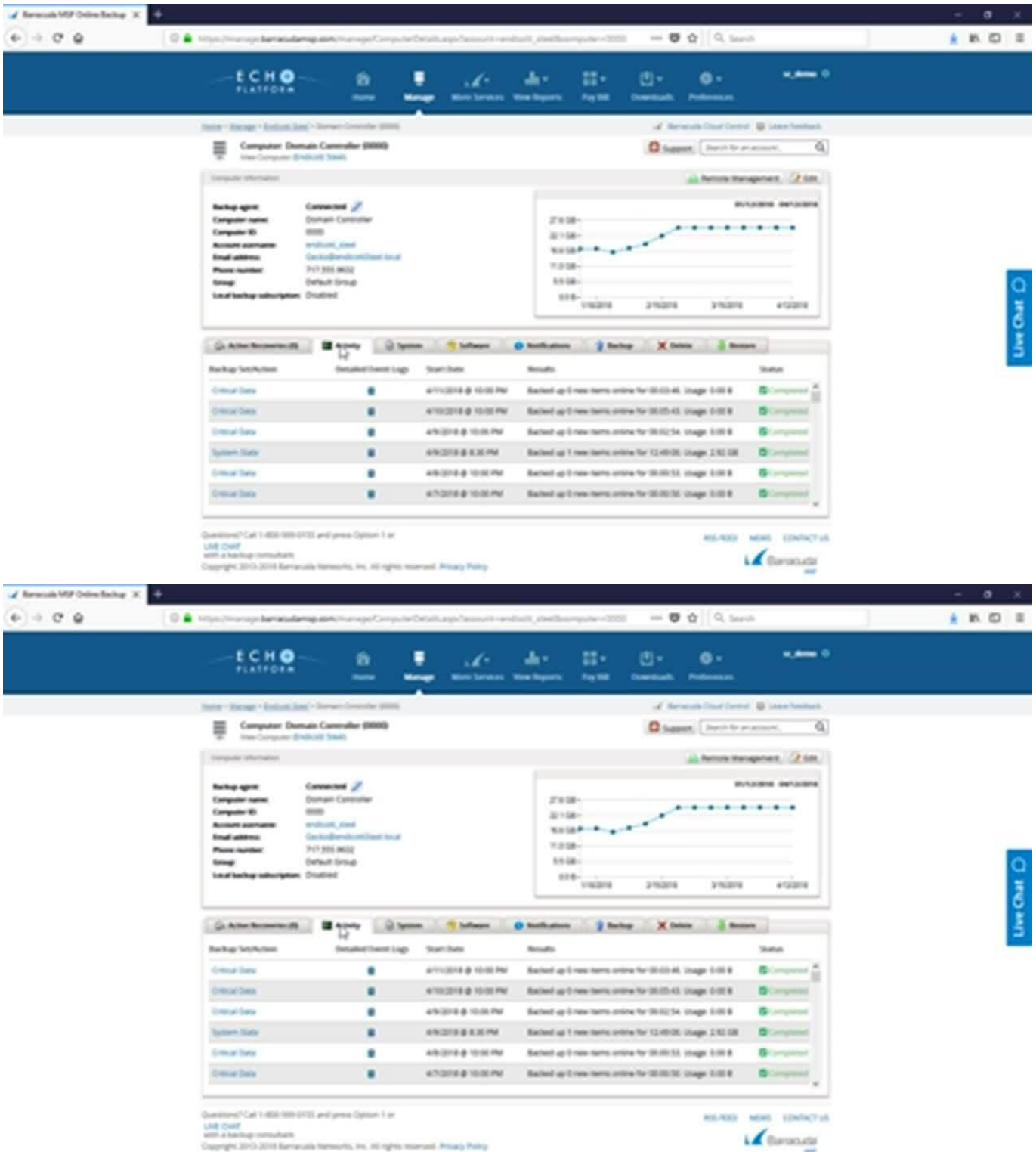
Cancel Confirm

This feature allows you to create a unique name for the backup set. If you already changed the default backup set name, the pop-up is not displayed.

Optionally, change the backup set name, and click **Confirm**.

Your scheduled backup is displayed on the Backup Selections page.

## How-To Video



The screenshot displays the Barracuda MSP Online Backup interface. The top navigation bar includes links for Home, Manage, More Services, View Reports, Pay Bill, Downloads, and Preferences. The sidebar on the left shows the 'Backup' tab selected. The main content area displays the 'Backup' tab for a Domain Controller (DC000). It includes a 'Computer Information' section with details like Backup agent, Computer name, Computer ID, Account username, Email address, Phone number, Group, and Local backup subscription. A line graph shows the backup status over time. Below the graph is a table of backup jobs with columns for Backup Job Action, Scheduled/Event Log, Start Date, Results, and Status. The table shows several backup jobs, all with a status of 'Completed'.

Backup Job Action	Scheduled/Event Log	Start Date	Results	Status
Critical Data		4/11/2018 @ 10:00 PM	Backed up 0 new items online for 00:00:45, Usage: 0.00 B	Completed
Critical Data		4/10/2018 @ 10:00 PM	Backed up 0 new items online for 00:00:43, Usage: 0.00 B	Completed
Critical Data		4/9/2018 @ 10:00 PM	Backed up 0 new items online for 00:02:54, Usage: 0.00 B	Completed
System Data		4/9/2018 @ 8:30 PM	Backed up 1 new items online for 12:40:00, Usage: 2.92 GB	Completed
Critical Data		4/8/2018 @ 10:00 PM	Backed up 0 new items online for 00:00:53, Usage: 0.00 B	Completed
Critical Data		4/7/2018 @ 10:00 PM	Backed up 0 new items online for 00:00:30, Usage: 0.00 B	Completed

Videolink:

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

## Figures

1. image2019-8-30 10:26:31.png
2. image2019-8-30 10:27:52.png
3. image2019-8-30 10:28:50.png
4. image2019-8-30 10:30:38.png
5. image2019-8-30 10:48:50.png
6. image2019-8-30 10:49:35.png
7. image2019-8-30 10:50:14.png
8. image2019-8-30 10:50:41.png
9. image2019-8-30 10:51:18.png
10. image2019-8-30 10:52:27.png
11. image2019-8-30 10:52:31.png
12. image2019-8-30 10:54:5.png
13. Image\_Standard\_1.png
14. Image\_Standard\_2.png
15. Image\_Standard\_3.png
16. Image\_Standard\_4.png
17. arrow.png
18. Remove.png
19. Image\_Standard\_5.png
20. Image\_Standard\_6.png
21. Image\_Standard\_7.png
22. Image\_Standard\_8.png
23. Image\_Standard\_9.png
24. Image\_Standard\_10.png
25. Image\_Standard\_11.png
26. Image\_Standard\_12.png
27. Image\_Standard\_13.png
28. Image\_Standard\_14.png
29. Image\_Standard\_15.png
30. Image\_Standard\_16.png
31. Image\_Standard\_17.png

© Barracuda Networks Inc., 2024 The information contained within this document is confidential and proprietary to Barracuda Networks Inc. No portion of this document may be copied, distributed, publicized or used for other than internal documentary purposes without the written consent of an official representative of Barracuda Networks Inc. All specifications are subject to change without notice. Barracuda Networks Inc. assumes no responsibility for any inaccuracies in this document. Barracuda Networks Inc. reserves the right to change, modify, transfer, or otherwise revise this publication without notice.