

How to Back Up Archives

<https://campus.barracuda.com/doc/41095633/>

This article refers to Barracuda Message Archiver firmware 5.1.1 or higher.

In the event of a catastrophe, your raw email data and search index can be quickly restored. To accomplish this, back up the raw email data including .zip files present on the data partition as well as data directories that house statistics, index, and other metadata snapshots the Barracuda Message Archiver generates for content.

Message Archiver models (excluding the 150) provide [RAID storage](#) to protect against physical drive failure. However, other environmental or catastrophic issues may occur that the built-in RAID redundancy cannot protect against. It is strongly recommended that the Barracuda Message Archiver administrator make use of the available mechanisms to back up the email data to an external location.

There are four methods for backing up the data partition on your Barracuda Message Archiver from the web interface:

- Option 1. Copy Archived Data to your Network
- Option 2. Configure a Data Partition Mirror
- Option 3. Mirror to the Cloud
- Option 4. Back Up Data to Barracuda Backup

Option 1. Copy Archived Data to your Network

Use the following steps to connect to the Barracuda Message Archiver via SMB and copy archived data to your network.

Step 1. Enable SMB Access to the Barracuda Message Archiver's Data Partition

Use the following steps to enable backup of your stored content via SMB:

1. Log into the Barracuda Message Archiver, and go to the **Advanced > Backups** page.
2. In the **Backup of Archives** section, set **Back Up Archives via SMB** to **Yes** to allow access to the Barracuda Message Archiver message store as an SMB share.
3. Enter the **Workgroup** in which the Barracuda Message Archiver should appear.
4. Enter the **Password** for the username **smb** used to connect to the SMB share:

BACKUP OF ARCHIVES
Help

Back Up Archives via NFS: Yes No
Allow access to the message store as one or more NFS shares.
 To connect to an enabled share, use: <IP>:/BMA-NFS-<sharenumber>. Recommended: No

NFS Backup Allowed IPs:

IP/NETWORK ADDRESS	NETMASK	
		Bulk Edit
		Add

IP addresses that can access NFS backups

Back Up Archives via SMB: Yes No
Allow access to the message store as an SMB share.
 To access an enabled share, use \\<IP>\BMA-SMB-<sharenumber>. Recommended: Yes

Workgroup:
Name of the Workgroup in which the Barracuda Message Archiver should appear.
 Recommended: WORKGROUP

Password:
Password for the username **smb**, used to connect to the SMB share.

5. Click **Save**.

The number of shares on the Barracuda Message Archiver can vary. All models have share number 1, while higher model numbers may have additional shares. Possible share configurations include:

Share Numbers
1
1, 2
1, 2, 3, 4

To access the share after it is enabled, connect to **\\ host \BMA-SMB-#** where *host* is the hostname or IP address of the Barracuda Message Archiver and *#* is the share number. For example, if the IP address of your Barracuda Message Archiver is 192.168.1.10, to connect to the second share you would use: **\\192.168.1.10\BMA-SMB-2**

Step 2. Set Up Raw Email Data and Metadata Snapshot Backup

1. Log into your Windows Network or Backup System such as [Barracuda Backup](#).
2. Connect to the Barracuda Message Archiver data partition by accessing **\\ host \BMA-SMB-# .**
3. Back up the following files and directories:
 - o Raw Email data:
 - *.zip (1GB-sized message archives)
 - <nnn>/ (directory containing recently received emails, not yet merged into a .zip)
 - o Snapshots of Metadata

The following snapshots are performed nightly. In the event that data restoration is

necessary, typically only the raw emails (from .zip files) arrived in the last day must be reprocessed.

- FolderSync (snapshot of foldersync data)
- index (snapshot of archives of index metadata)
- index_backup (snapshot of the entire index)
- ldap_cache (snapshot of ldap group information)
- log (snapshot of important system information)
- postgres_backup (snapshot of system databases)

You must disable anti-virus scan on the external share used to contain your backups.

You can use any network share that supports the SMB/CIFS file sharing protocols to copy your data to.

In older Barracuda Message Archiver models 650 and higher, the dedicated hardware iSCSI adapter can be integrated with any iSCSI storage-area network (SAN).

Option 2. Configure a Data Partition Mirror

You can add network storage volumes and enable mirroring for internal storage to provide data redundancy. Configure a real-time mirror of the Barracuda Message Archiver's data partition on the **Advanced > Storage Manager** page.

You must disable anti-virus scan on the external share used as a mirror before adding the mirror share to the Barracuda Message Archiver mirror.

You can use any network share that supports the SMB/CIFS file sharing protocols as the mirror.

In older Barracuda Message Archiver models 650 and higher, the dedicated hardware iSCSI adapter can be integrated with any iSCSI storage-area network (SAN).

Use the following steps to add the mirror share to your configured network share:

1. Log into the Barracuda Message Archiver as the administrator, and go to the **Advanced > Storage Manager** page.
2. If you have a CIFS/Windows share already set up, complete the following sub-steps, otherwise go to step 3:
 1. In the **Default (Group)** table, select the share from the drop-down menu.

2. Click **Add Mirror**.
3. If you do not have a CIFS/Windows share already set up, complete the following steps:
 1. In the **CIFS/Windows Share** section at the bottom of the page, enter the share details, and click **Add**.
 2. In the **Group** table, select the share you want to use to back up the data from in the drop-down menu, and click **Add Mirror**.

Once you click **Add Mirror**, the Barracuda Message Archiver synchronizes the data on the internal share(s) with the mirror share.

For more information, log into your Barracuda Message Archiver, go to the **Advanced > Storage Manager** page, and click **Help**.

Option 3. Mirror to the Cloud

Use Cloud Storage to mirror data from the Barracuda Message Archiver to the Barracuda Cloud. You must activate cloud storage before you can configure mirroring.

Prerequisites

- You must have a Cloud Storage Subscription available from Barracuda Customer Services.
- If the appliance is located behind a corporate firewall, you may need to open the following ports to allow communication between the appliance and Barracuda Networks:
 - Ports 80/443 and 1194 outbound for both TCP and UDP are required for communication
 - Ports 5120-5129 are used to replicate data to Barracuda Cloud Storage; contact [Barracuda Technical Support](#) to restrict outbound network traffic on these ports to only reach Barracuda Networks

Select **Mirror** in the Cloud Storage section on the **Advanced > Cloud Storage** page to copy all new messages, including folder data, to Barracuda Cloud. When a Barracuda Message Archiver is mirrored to Barracuda Cloud, you can create retention policies that remove mail from the system after a specified number of days, and whether to keep or remove mail from Barracuda Cloud after a specified number of days. For example:

- Remove from Barracuda Message Archiver after 45 days and keep on Barracuda Cloud forever
- Remove from Barracuda Message Archiver after 45 days and keep on Barracuda Cloud for an additional 45 days
- Keep on Barracuda Cloud forever; this is similar to not allowing automatic message deletion on the appliance

The wizard for creating retention policies is dynamic and based on the selected Cloud Mode defined on the **Advanced > Cloud Storage** on the Barracuda Message Archiver.

Use the following steps to set up mirroring to the Barracuda Cloud:

1. Log into the Barracuda Message Archiver as the administrator, and go to **Advanced > Cloud Storage**.
2. Click **Connect to Cloud Storage**; the **Login** page displays.
3. Enter your Barracuda Cloud Control account credentials, and click **Sign In**.
4. In the **Location** page, enter the **City, State, and Country** where your mail server is hosted; your account can only link to one location. The first Barracuda Message Archiver appliance you link to determines the data center that all appliances on your account will use. For example, if you select Canada as your country, your appliances will use the data center in Canada.
5. Click **Next**. In the **View Summary** page, click **Activate** to link your Barracuda Message Archiver to the Barracuda Cloud Control account.
6. The **Advanced > Cloud Storage** page refreshes and displays the **Cloud Storage** options. Select **Mirror**; read the warning, and click **Confirm** to continue.
7. In the **Rate Control** section, specify the data replication rate to Barracuda Cloud Storage.

As messages are sent to Cloud Storage, related statistics display on the **BASIC > Dashboard** page.

Option 4. Back Up Data to Barracuda Backup

You can back up archives using your Barracuda Backup via SMB access to the Barracuda Message Archiver's data partition.

Before continuing, follow the steps outlined in [Option 1. Copy Archived Data to your Network](#) to enable the Message Archiver SMB shares.

Use the following steps to back up the Barracuda Message Archiver using Barracuda Backup:

1. Log into [Barracuda Backup](#) as the Administrator, and go to the **Backup > Sources** page.
2. Click **Add a Computer**. In the **Add a Computer** page, enter a **Computer description** and enter the IP address or fully qualified domain name (FQDN) in the **Computer Name** field.
3. From the **Computer Type** drop-down menu, select **Microsoft Windows**.
4. Set **Enable File Share Backups**. In the **Username** field, type **smb** and enter the password you set up on the **Advanced > Backups** page in the Barracuda Message Archiver web interface:

☰
BU
Status
Backup
Restore
Reports
System
Admin

Sources
Replication
Schedules
Exclusions
Retention Policies

Barracuda Backup Appliance Information

Backup appliance Development Backup (ARB)

Backup Status

Select to back up this computer on the configured backup schedule. If this is unchecked, then the backup schedule will not apply to this computer.

Enable backups

Computer Information

Computer description
Label for identifying this computer on the Backup > Sources page.

Computer name
Fully Qualified Domain Name (FQDN) or IP address of the computer to back up.

Computer type
The operating system of the computer to back up.

Barracuda Backup Agent

To finish the backup configuration for this computer, the free [Backup Agent software](#) must be downloaded and installed on the computer itself.

Enable File Share Backups

Microsoft Windows Computer Information

Specify the credentials necessary to access the file share.

Username

Password

5. Click **Test Credentials** to verify access to the file share.
6. Click **Save** at the top of the page.
7. In the **Add Data Source** page, from the **Data Type** drop-down menu, select **File Share - CIFS**.
8. Verify **Enable Backups** is set to **On**.
9. In the **File Share Information** section, enter **BMA-SMB** as the **Share Name**.
10. Click **Test Share**. In the **Folder Selection** section, specify which folders you want to back up.
Barracuda recommends selecting *all* folders for backup. See [Option 1, Step 2. Set Up Raw Email Data and Metadata Snapshot Backup](#) for a description of the data to be backed up.
11. To replicate to the cloud, turn on **Replicate to Barracuda Cloud Storage**.
12. Select the backup schedule for the SMB share.
13. Click **Save** to save your configuration and add the data source.

For more information, go to the go to the **Advanced > Backups** page in the Barracuda Message Archiver, and click **Help**.

Figures

1. SelectSMB.png
2. backup_setup.png

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