



Replicate to Another Barracuda Backup Device

Data can be replicated from one Barracuda Backup device to another, referred to as site-to-site or box-to-box replication. There are a few important details to understand before configuring replication to another Barracuda Backup device:

- Only the Barracuda Backup appliance 490 and higher can act as a replication destination for other Barracuda Backup appliances, although any Barracuda Backup appliance can send data.
- Do not configure more Backup senders to Backup receivers than would exceed the internal capacity. For example, if you have a Barracuda Backup 890 with an internal capacity of 16 TB, and you want to configure this system to receive data from multiple Barracuda Backup 390 appliances which have an internal capacity of 2 TB, the total amount of Barracuda Backup 390 appliances sending to the Barracuda Backup 890 should not exceed 8.
- When using a many-to-one replication model, it is important to understand that data cannot make two hops when being replicated offsite. Data from the originating Barracuda Backup device can only be replicated to another destination with a single hop. It cannot be replicated once, then re-replicated from the replication destination to another replication destination.
- When replicating data to another Barracuda Backup appliance, verify both devices are on the same major firmware version. For example, if one device is on firmware version 6.4.04 and the second is on firmware version 6.4.06, replication between the devices is supported, however, if one device is on firmware version 6.3.x and the second is on firmware version 6.4.x, replication will fail. For the best replication performance when replicating to another Barracuda Backup device, both devices should be on the exact same firmware version.
- Barracuda recommends at minimum a 1.5 Mbps or a dedicated T1 connection for every Terabyte of data that gets replicated offsite. Failure to meet minimum bandwidth requirements will result in backed up offsite replication queues and failure to replicate data offsite in a timely manner.
- When configuring replication to another Barracuda Backup device, you must have the serial number and replication code of the replication destination. These can be found by selecting the destination Barracuda Backup appliance and clicking the **Device Info** link on the **Backup > Replication** page.
- When deploying Barracuda Backup appliances for site-to-site replication, ensure the physical security of these systems. The Barracuda Backup devices should be configured behind corporate firewalls with appropriate restrictions in place. All data transmitted between Barracuda Backup appliances is sent encrypted using 256-bit AES. For additional security measures, customers may choose to set up a private VPN tunnel between sites, however this is not a requirement.

Replicate Data to a Barracuda Backup Appliance or Barracuda Backup Virtual Appliance

Use the following steps to configure a Barracuda Backup Appliance or Barracuda Backup Virtual Appliance as an offsite replication destination:

1. Log in and select the Barracuda Backup device to which you want to add an offsite replication destination, and go to the **Backup > Replication** page.
2. Click **Add a Target**:

Target List	Status	Total Stored	Queue Age	Queue Size	Settings
Receiver Vx (ATL) / Barracuda Backup Receiver Vx Destination IP Address: 10.143.240.14 Bandwidth Rate Limit: Default Full Speed, Alternate 50 Mb/s 8:00am - 5:00pm Weekdays	OK	1.3 TB	-	0 bytes	⚙️



3. In the **Add Replication Target** page, enter the target Barracuda Backup details in the **Replication Target Information** section, or select an appliance on your account from the drop-down menu to automatically populate this section.
4. Click **Save**.

Once an offsite replication destination is added, it appears in the **Sending Data To** table on the **Backup > Replication** page. If the status displays as online and reporting successfully (✔), the two systems are able to communicate.

You can select to replicate all data to an offsite replication destination by clicking the **Settings** icon and selecting the **Replicate all data to this target** option. If you want to pick and choose which data sources get replicated offsite to each offsite replication destination, do not select **Replicate all data to this target**. Instead, edit each data source on the **Backup > Sources** page, and specify where its data is to be replicated.

Configure a Barracuda Receiver Vx as an Offsite Replication Destination

A Barracuda Receiver Vx is a limited version of the Barracuda Backup Virtual Appliance (Vx), that can only receive data as an offsite replication destination and perform recovery operations. The Barracuda Receiver Vx cannot be configured to back up data. A Barracuda Receiver Vx subscription is required to use the Barracuda Receiver Vx as an offsite replication destination with a physical Barracuda Backup appliance. A Barracuda Receiver Vx subscription is included with a Barracuda Backup Vx license. Replication to a dedicated Barracuda Receiver Vx from both a physical appliance and virtual appliance is limited to a one-to-one replication pairing.

Use the following steps to generate a Barracuda Receiver Vx license token, provision the Receiver Vx, and configure it as an offsite replication destination:

1. Log in and select the Barracuda Backup device to which you want to add an offsite replication destination, go to the **Backup > Replication** page, and click **Add a Target**:

The screenshot shows the 'Replication' page for 'HQ Backup (CAM)'. At the top, there are navigation tabs: Dashboard, Backup, Restore, Reports, System, Admin. Below these are sub-tabs: Sources, Replication, Schedules, Exclusions, Retention Policies. The main heading is 'HQ Backup (CAM): Replication Device Info' with an 'ADD A TARGET' button. The 'Sending Data To' section contains a table with the following data:

Target List	Status	Total Stored	Queue Age	Queue Size	Settings
Receiver Vx (ATL) / Barracuda Backup Receiver Vx Destination IP Address: 10.143.240.14 Bandwidth Rate Limit: Default Full Speed, Alternate 50 Mb/s 8:00am - 5:00pm Weekdays	✔	1.3 TB	-	0 bytes	⚙️

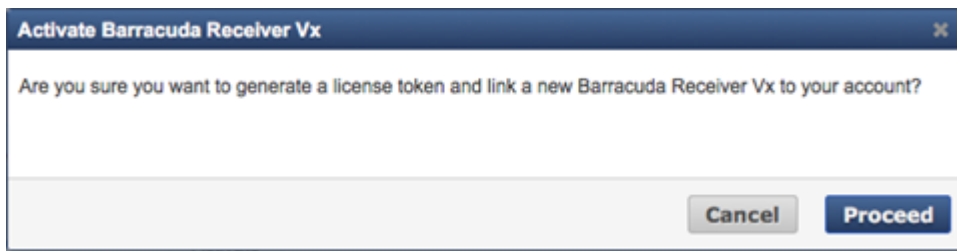
2. In the **Site-to-Site Replication** section, click **Activate**:

The screenshot shows the 'Add Replication Target' dialog box. It has a 'Cancel' button and a 'Save' button. The 'Site-to-Site Replication' section contains the following text:

The Barracuda Backup Vx includes software replication to a secondary Vx or physical Backup appliance. To learn more about the replication options and how to set up a Barracuda Receiver Vx, visit the [Barracuda TechLibrary](#).

Below the text, there is a 'Barracuda Receiver Vx' label and an 'Activate' button.

3. The confirmation dialog box displays. Click **Proceed**:



4. The license token displays on-screen.
5. Use the license token to provision your Barracuda Receiver Vx using the same virtual image used to deploy the Barracuda Backup Vx; For more information, see the *Virtual Deployment* section.
6. After the Barracuda Receiver Vx is provisioned and online, use the **IP Address**, **Serial Number**, and **Replication Code** from that device to complete the information in the **Replication Target Information** section:

Replication Target Information

Destination IP address

Enter the IP address or hostname of the destination Barracuda Backup Appliance. The address must be accessible from this Barracuda Backup Appliance. Alternate port numbers can be specified. Example: 192.168.1.2:5001

Serial number

Enter the serial number of the destination Barracuda Backup Appliance.

Replication code

Enter the replication code for the destination Barracuda Backup Appliance. The replication code can be found on the Backup > Replication page in the web interface.

Once the Receiver Vx offsite replication destination is added, it displays in the **Sending Data To** table on the **Backup > Replication** page. If the status displays as online and reporting successfully (✔), the two systems are able to communicate.

To replicate all data to an offsite replication destination, click the **Settings** icon and select **Replicate all data to this target**. If you want to pick and choose which data sources get replicated offsite to each offsite replication destination, do not select **Replicate all data to this target**. Instead, edit each data source on the **Backup > Sources** page, and specify where its data is to be replicated.

