



Backup Scheduling

Use the **Schedules** page in Barracuda Backup to specify which data sources and data gets backed up, when, and how often. You can create as many backup schedules as you like, stagger the schedules for better backup efficiency, or just create one single backup schedule to protect everything.

When creating backup schedules, it is important to understand the maximum number of simultaneous backups that can run across all connectors for each Barracuda Backup model. If a backup schedule exceeds the maximum simultaneous backup for a connector or the total across all connectors, the additional jobs are queued until a backup job ahead of it completes. This is all handled automatically by Barracuda Backup. If the number of data sources in a backup schedule exceeds the maximum simultaneous backup for a connector or the total across all connectors, it is advised that you split the backup schedule into multiple schedules and stagger the start times.

Use the following table to select the best backup scheduling strategy for your environment:

Model	Barracuda Backup Agent ⁽¹⁾	Network File Share ⁽²⁾	VMware vSphere ⁽³⁾	Microsoft Exchange Message-Level ⁽⁴⁾	Total Across All Connections ⁽⁵⁾
190	3	3	3	3	5
290	7	4	7	4	10
295	7	4	7	4	10
390	7	4	7	4	10
490	7	4	7	4	10
690	10	10	10	10	15
6090	10	10	10	10	15
790	10	10	10	10	15
890	10	10	10	10	15
8090	10	10	10	10	15
895	40	30	20	12	60
990	40	30	20	12	60
9090	40	30	20	12	60
995	40	30	20	12	60
1090	40	30	20	12	60
10090	40	30	20	12	60

Notes:

⁽¹⁾ Maximum number of simultaneous Barracuda Backup Agent connectors.

⁽²⁾ Maximum number of simultaneous File Share backup connectors.

⁽³⁾ Maximum number of simultaneous VMware vSphere backup connectors.

⁽⁴⁾ Maximum number of simultaneous Microsoft Exchange Message-Level Backup connectors.

⁽⁵⁾ Total number of simultaneous backup jobs across all connectors.

To create a backup schedule:

1. Log in to Barracuda Backup and select the associated Barracuda Backup device in the left pane or in the devices table (for customers with multiple Barracuda Backup devices).
2. Go to the **Backup > Schedules** page, and click **Add a Schedule** to create a new backup schedule.

A default backup schedule is automatically created when data sources are first added to Barracuda Backup, with the default set to protect all data sources at 8:00 PM local time every day. You can edit or



remove this default schedule by clicking on the **Edit** or **Remove** links on the **Schedules** page.

3. Complete the following information on the **Add a Backup Schedule** page:

1. **Schedule name**
2. **Items to Back Up**
3. **Schedule Timeline**
4. **Daily Backup Timeline**
5. *(Optional)* **SQL/Exchange Backup**

4. Once the backup schedule is configured, click **Save**.

SQL/Exchange Backup Mode (Barracuda Backup Agent for Windows)

If Microsoft Exchange or SQL Server databases backed up using the Barracuda Backup Agent for Windows are included in the backup schedule, you must specify the backup type in the **SQL/Exchange Backup** section on the **Add a Backup Schedule** page. Exchange and SQL databases are handled differently than file or virtual machine (VM) data, which are always incremental forever backups. Because Exchange and SQL databases must rotate between incremental and periodic full backups, you must specify when to perform a full/complete and incremental/log backup. **Smart** mode is the default **Backup type** setting and automatically rotates between complete/full and log/incremental database backups for you. For more control over when full and log backups occur, create multiple backup schedules for Exchange and SQL databases; one for the complete/full backup and one for the log/incremental backup:

- **Smart** - This backup type is a combination of the complete backup and the log backup, with thresholds to minimize the impact of backups on network resources necessary to transfer data offsite.
- **Complete** - This backup type performs a full database backup, including the transaction logs.
- **Log** - This backup type only backs up the transaction logs created since the last complete/full backup.

With the **Smart** backup type, threshold values are used to determine when to switch between complete and log backups. The minimum threshold value specifies how many days Barracuda Backup continues to back up transaction logs before another full backup is run. After the minimum threshold value is met, Barracuda Backup determines whether to perform another backup based on the amount of binary data in the offsite transfer queue. If the binary data in the offsite transfer queue size exceeds 1 GB, Barracuda Backup continues the transaction log backup until:

- the maximum threshold level is met, or
- the queue size drops below 1 GB

Advanced Folder Path Selection

For data sources with an abnormally large volume of files or directories, Barracuda Backup offers an alternate method of specifying data to back up to the standard selection tree structure. Next to the File Systems container for every agent or share for every file share backup, is an **Advanced** link. Click the **Advanced** link to open the **Advanced: File Systems** dialog where you can specify an absolute folder path to be included in the backup. You can add multiple folder paths to the backup selection.



Figure 1. Advanced Folder Path Selection.

The screenshot displays the 'Items to Back Up' configuration page in Barracuda Backup. The main area lists various server types with checkboxes to select them for backup. The 'File Server' is selected, and its 'Backup Agent' is expanded to show 'File Systems' and 'System State', both of which are also selected. A notification indicates that 2 paths are configured for backup. An 'Advanced: File Systems' dialog box is open, prompting the user to specify an absolute folder path. The path 'E:\Marketing' has been entered and added to the list of paths to include in the backup. The dialog also shows 'C:\Users' as another path. A 'CONTINUE' button is visible at the bottom of the dialog.

Items to Back Up

Identify the computers and data sources to back up with this schedule. Unselect the checkbox to display a list of all available computers and

Apply to all computers and data sources for this Backup Appliance

- Active Directory Server *ACTIVEDIRECTORY-CAM.CUDADEMO.LOCAL*
- Microsoft Exchange Server *EXCHANGE-CAM.CUDADEMO.LOCAL*
- File Server *FILESERVER-CAM.CUDADEMO.LOCAL*
 - Backup Agent
 - File Systems *Advanced* 2 paths configured for backup. Click Save to apply changes.
 - System State
- Microsoft SQL Server *SQLSER*
- SharePoint Server *SHAREPOIN*
- NAS *10.143.240.27*
 - Engineering Files *Advanced*
- Hyper-V *HYPERV.CUDADEMO.LOC*
- Linux Server *10.143.240.26*
- VMware *10.143.240.10*

Schedule Timeline

The days on which this backup schedule is to run.

- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday

Advanced: File Systems

Specify an absolute folder path to be included in the backup.

Folder Path

Paths are case sensitive.

E:\Marketing **ADD**

Paths to include in backup

- E:\Marketing **X**
- C:\Users **X**

CONTINUE

Manage Backed Up Data via Schedules

You can edit a schedule and remove previously backed up data, or remove a schedule to manually purge items stored in Barracuda Backup. For more information, see [Storage Management](#).

