Bandwidth Rate Limiting

https://campus.barracuda.com/doc/78155614/

Configure bandwidth rate limits to control how much bandwidth Barracuda Backup has access to for offsite data transfer during certain times and days. Rate limits are useful to reduce the amount of bandwidth Barracuda Backup consumes during offsite data replication during peak usage times or working hours.

While in most cases both backup and offsite replication are completed each day/night, the initial backup and offsite data transfer can take several days, if not longer, to complete. After the initial offsite transfer is complete, Barracuda Backup only replicates changes detected during each backup.

> Barracuda Networks 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 rate limits, the default rate limit should be configured as the bandwidth speed that Barracuda Backup is to use most of the time to transfer data. The alternate rate limit is usually used to reduce bandwidth consumption during a brief window. When the alternate rate limit window ends, Barracuda Backup returns to using the default rate limit.

Example Scenario

Following is a common scenario:

- I want to replicate data offsite using all of my available bandwidth after hours when all of the office personnel have left the office.
- During the daytime, between the hours of 8AM and 5PM Monday through Friday, I want to limit the amount of bandwidth that Barracuda Backup can use so that I do not disrupt office productivity. I will limit the amount of usable bandwidth to 10Mbps.

In this scenario, you configure the rate limit as follows:

Rate Limit

Rate limits control the rate that data is replicated to the Barracuda Cloud Storage or other offsite storage locations. You can limit Internet bandwidth consumption during peak usage times and schedule backups for non-peak hours.

Default rate limit
- (•) Full Speed
- ( ) Smart Mode
- ( ) [____] Kilobit(s) ▼ / second

Alternate rate limit
- ☑ Enabled
- ( ) Full Speed
- ( ) Smart Mode
- (•) [10] Megabit(s) ▼ / second

From [08] : [00] 24 hour format.

To [17] : [00] 24 hour format.

Days of Week
- ☐ Sunday
- ☑ Monday
- ☑ Tuesday
- ☑ Wednesday
- ☑ Thursday
- ☑ Friday
- ☐ Saturday

To configure a bandwidth rate limit, go to the **Backup > Replication** page and click the **Settings** icon. On the **Replication Target Settings** page, configure the rate limit under the **Rate Limit** section. For both the default and alternate rate limit there are three available options:

- **Full Speed** – Uses 100% of available bandwidth
- **Smart Mode** – Uses a percentage of the available bandwidth; configure by dragging the **Percent of Bandwidth** bar; click **Test bandwidth** first before setting the percentage
- **Custom** – Manually specify the bandwidth rate in Kilobits, Megabits, or Gigabits.

Figures

1. RateLimits.png