Hit the
Reset Button
For Storage

The Barracuda Message Archiver and Barracuda Backup prove two storage solutions are better than one for cutting storage and labor costs.

If left unchecked, the data your organization stores will grow until your storage and staff can no longer handle it. Instead of paying for more storage and overtime, use the Barracuda Message Archiver and Barracuda Backup to reduce your organization's data to a fraction of its current volume and manage the flow of new data needing storage. To discover how you can transparently reduce data storage, it first helps to understand your data.

Barracuda

How Data
Builds Up

Duplicate Emails

Microsoft Exchange and Outlook generate lots of duplicate data. When a user sends an email, the email server stores a copy. Outlook stores copies of the same email on the sender's and recipient's computers in PST files. Thus, one email results in three stored copies including any attachments. A routine network backup also stores these copies and their attachments. Group emails multiply the storage of duplicate emails and attachments several more times. Given the number of emails sent daily in an organization, duplicate emails build up on email servers and users' computers, fueling a huge growth of data stored downstream in network backups.

Network Data Duplication

In parallel with email, networks also contain lots of duplicate data. The servers in your network contain duplicate copies of the same operating systems, applications and other software that find their way into backup storage.

Extraneous Network Data

Besides duplicate software, a network can also house a significant volume of extraneous data such as users' music and video files that don't need to be protected by the backup for business continuity.

Why You Need
Archiving and Backup

Before delving into how the Barracuda Message Archiver and Barracuda Backup control storage, it helps to understand their different functions. Organizations need to keep emails in long-term storage for litigation and HR discovery requests as well as to comply with data-security regulations.

Archiving stores email for the long term. However, it doesn't collect other network data needed for disaster recovery. Conversely, a backup system takes snapshots of the whole network's data at a point in time for recovery in case of a partial or catastrophic failure. But, backup doesn't retain emails deleted between backups. While Barracuda Backup is one of the few backup systems that offers policies for long-term data retention, it isn't designed to optimize email storage. Together, the Barracuda Message Archiver and Barracuda Backup provide complementary long term and point-in-time storage with features that optimize data storage on two tiers.

Two-Tiered
Storage Optimization

The Barracuda Message Archiver and Barracuda Backup work particularly well in tandem to optimize data storage because they both eliminate duplicate data and compress data before storage. This has an additive effect.

Optimizing Email Storage

Eliminating PST files

At installation, the Barracuda Message Archiver crawls the network to import emails from PST files in users' computers. The PST files can then be deleted. You can prevent new PST files from being created through Exchange. Eliminating PST files yields a large reduction in data stored on desktops, which results in significantly less data entering the backup.

Deduplicating Emails

Another large reduction in storage happens when the Barracuda Message Archiver offloads emails from the email server then eliminates duplicate messages collected from the email server and users' PST files. Single instance-message storage retains header and folder information giving users, administrators and auditors transparent access to archived emails while greatly reducing the email stored in the archiver and in the backup.

Attachment Stubbing

In addition to deduplicating emails, the Barracuda Message Archiver stores only one instance of each attachment. The Barracuda Message Archiver replaces an attachment (that might be duplicated in hundreds of emails) with a link in emails to the attachment called a "stub." Stubbing also massively reduces the amount of data stored in the archiver and backup.

Email Compression

With messages deduped and stubbed, the Barracuda Message Archiver aggressively compresses the remaining email data for maximum storage efficiency.

Optimizing Network Data

Like the Barracuda Message Archiver, Barracuda Backup deduplicates network data such as redundant operating systems and applications. It then compresses the single-instance data before storage offsite in public or private clouds. Barracuda Backup also has policy options to exclude file types such as music and video files.

Storage

UN-OPTIMIZED   OPTIMIZED

The Savings
Multiply

By itself, Barracuda Backup has been shown to reduce the amount of backup data stored by 20 to 50 times compared to tape backups. By combining an email storage solution—the Barracuda Message Archiver—into your backup strategy, you can further reduce the volume of backup data that would otherwise be stored as duplicated, uncompressed email-server files and PST files. After the initial reductions in stored data, Barracuda Backup and Barracuda Message Archiver continue to minimize the growth of storage through ongoing deduplication and compression.

Saving Staff Hours

Without managing storage, the length of backup windows will expand as does the time it takes to label and rotate tapes. Not only do Barracuda Backup and the Barracuda Message Archiver shorten backup windows by reducing the amount of data being stored, by not using removable media and with built-in policies, they can fully automate archiving and backup to save costly staff time. For further time savings and convenience, Barracuda Backup and the Barracuda Message Archiver are easy to centrally manage through Barracuda Cloud Control.

Contact Us Today

To learn how to fully optimize email and backup storage in your environment, contact a Barracuda Networks storage specialist at:

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