



Barracuda Networks Message Archiving Technology

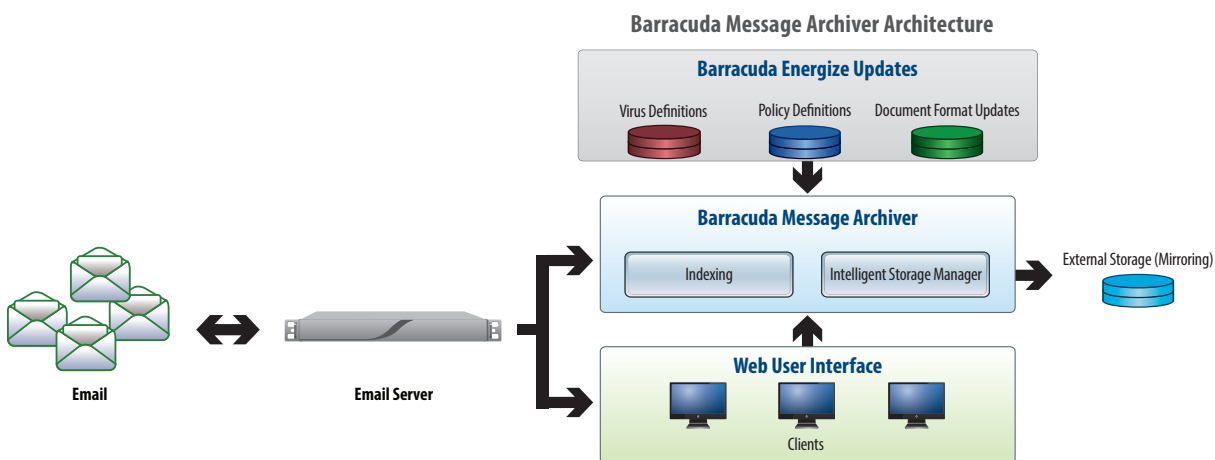
Introduction

The need for email archiving is growing. Today's organizations are more frequently asked to keep, access and deliver their comprehensive libraries of all sent and received email messages.

Due to strict compliance and litigation support guidelines, administrators often need features that enable quick and secure delivery of past emails and a message audit history to address legal scrutiny. From an operations perspective, email archiving provides the ability to ease the strain on physical storage by moving emails off the email server without sacrificing access to the messages.

The Barracuda Message Archiver is a complete and affordable email archiving solution, enabling you to effectively index and preserve all emails, enhance operational efficiencies and achieve regulatory compliance. Leveraging standard policies and seamless access to messages, email content is fully indexed to enable administrators, auditors and end users quick retrieval of any email message stored in an organization's email archive.

Its integrated hardware, software, and storage design enables quick deployments. Available in seven models to customize to an organization's needs, the Barracuda Message Archiver can be used to securely archive for organizations of all sizes.



Flexible Deployment and Integration

Comprehensive architecture deployment. With multiple modes of deployment, getting started with email archiving is easy. Emails can either be pushed to the Barracuda Message Archiver via SMTP, or the Barracuda Message Archiver can pull emails via standard email access protocols. It can also be deployed in conjunction with the Barracuda Spam & Virus Firewall, leveraging its capabilities to journal inbound and outbound email.

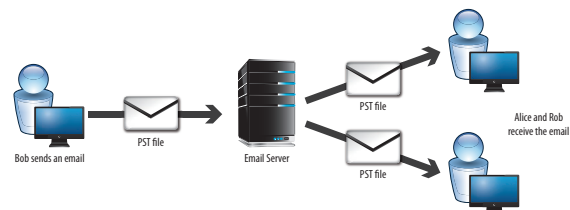
Complete Server Deployment. The Barracuda Message Archiver is designed to integrate with all standards-based email servers for deployment flexibility. The appliance can be deployed in both journaling-capable and non-capable email server architectures.

Comprehensive Archiving

Live Archiving and Historical Imports. The Barracuda Message Archiver enables organizations to capture both live and historical emails. Historical messages can be retrieved from the mail server using MAPI. Journaling-capable mail servers can create an extra copy of live emails for storage in the archives.

Email and Non-Email Content. Archiving email and non-email content is important for ensuring regulatory compliance and litigation support while providing full operational functionality for users. Appointments, contacts, notes, and tasks are among the non-email Microsoft Outlook items that are archived on the Barracuda Message Archiver.

Folder Structure. The Barracuda Message Archiver enables organizations to have complete usability with its archived emails by maintaining a user's folder structure. Through the web user interface, all of the folders can be viewed, accessed and searched. With the Microsoft Outlook Add-In tool, users can conduct folder-specific searches.



Pros:

- Reduced load on the server

Cons:

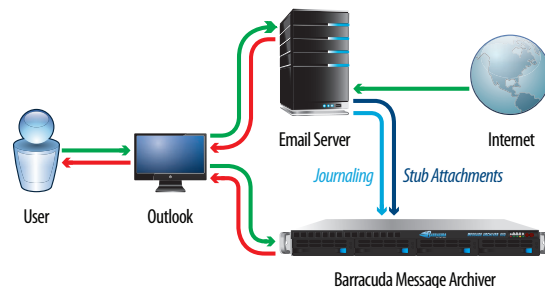
- No single instance storage
- Searching across multiple copies
- Backup storage problems
- Compliance issues

PST Management. PSTs create challenges for organizations attempting to meet litigation and compliance requirements as well as those attempting to build robust email architectures. PST files can be uploaded into the Barracuda Message Archiver, creating a single instance across an organization while enabling mail server backup, search, and compliance. A PST Collector tool is also available to automate the identification and collection of PSTs residing on local drives.

Reporting and Statistics. Sophisticated, built-in reports on the Barracuda Message Archiver provide statistics on various operational and legal aspects. Default reports include the growth of the message archive, policy violations and archive traffic.

Storage Management

Exchange Stubbing. Organizations that are reaching the limit on their email server disk space can immediately alleviate their storage pressures through Exchange stubbing. Message attachments are moved to the Barracuda Message Archiver and can be seamlessly accessed via a link to the storage archives. Organizations have full control by customizing how and when messages are stubbed. Users can also unstub attachments enabling full offline access.



Single instance storage. Users are no longer required to hold redundant emails in storage. The Barracuda Message Archiver intelligently removes duplicate emails and attachments from a message thread, ensuring only one copy is stored in the archives. In a business environment that often uses email to deliver content through attachments, this drives significant storage benefits.

Content Compression. To maximize storage capacity, the Barracuda Message Archiver compresses content before it is placed in the archives, increasing an organization's effective email storage capacity. Compressing email content provides a cost-effective alternative to additional investments in high-cost transactional storage.

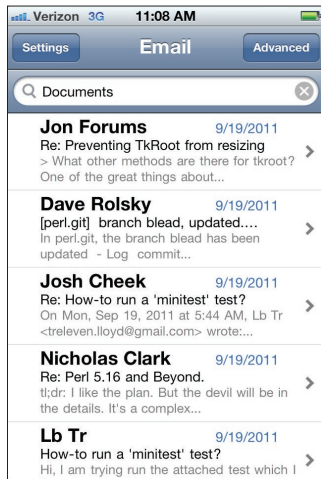
High Availability. With simple setup through the web administrative interface, two or more Barracuda Message Archivers can be clustered to reduce the risk of mail loss due to unforeseen circumstances and unplanned disasters.

Access and Search

Role-based administration. Using role-based administration, access privileges are organized in three tiers. As an administrator, auditor or user, unique access rights enable organizations to meet regulatory and litigation support requirements while enabling active use of archived emails.

Users can access and create searches for personal messages in the archive. IT administrators can perform administrative duties on the Barracuda Message Archiver without having access to archived messages. Auditors can view, track, and monitor messages in the archives or those for a specific domain.

Search and retrieval. The web user interface conducts quick full-text searches based on tags, header fields or message content. Users can easily search the message store, view emails in its original folder hierarchy and forward them to active mailboxes. Search criteria can be aggregated in order to isolate a granular set of data.



Access anywhere. The Microsoft Outlook Add-In enables users to search, view, and take action on archived messages, while managing Exchange stubbing directly from the Microsoft Outlook interface.

The Barracuda Message Archiver iPhone app further enables users to access their archived email while in mobile environments. Users will experience true mobility as the app extends the functionality of archived email.

Centralized control with Barracuda Control Center. The Barracuda Control Center is the centralized management platform for all Barracuda Networks products. It acts as the centralized policy decision point, while the Barracuda Message Archiver acts as the point of implementation.

The Barracuda Control Center enables administrators to have an aggregated view of the distributed network via a centralized console. This console provides full reporting on data from all of the enforcement endpoints.

Policy Driven Alerts and Retention Policies

Retention policy. Whether to comply with government regulations or to maintain company records, the Barracuda Message Archiver enables organizations to set customizable archiving policies. Organizations are empowered with the ability to define content, header and attachment-based policies. Litigation holds can also be defined for specific user mailboxes.

Compliance and corporate policy monitoring. The Barracuda Message Archiver enforces corporate policies by monitoring and reporting on behaviors such as the use of foul language or the transmission of sensitive personal information. Organizations can also set customizable policies to monitor the use of email communication. Alerts are delivered to administrators to enable real-time monitoring and immediate action.

Litigation readiness and discovery process. By using the powerful search tools in the Barracuda Message Archiver, auditors and email administrators can easily sort through an email archive to compile relevant messages based on keywords, dates and sender/recipients into an exported file. Further, pinpoint searches for content can be conducted by aggregating search criteria.

Access to records and related policy violations can be readily compiled and delivered to legal counsel as requested.

Audit Log. Organizations have instant provability with the Barracuda Message Archiver. An audit log provides a history of all actions taken on the archives including data exports, retention policy updates and configuration changes. With the ability to conduct searches by time interval, user and action-type, an organization can quickly provide evidence of the robustness of the content in its archives.

Barracuda Message Archiver Core Technologies



Hardened Operating System: Based on the Linux open source kernel, the operating system is hardened for maximum security and stability. In addition to internal testing, Barracuda Networks credits the “white hat” research community which continually works with security vendors to uncover and resolve potential vulnerabilities. While the vast majority of Barracuda Message Archiver technology is proprietary, Barracuda Networks does leverage secure and functional open source alternatives whenever possible.



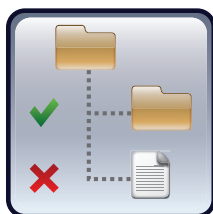
Flexible policy controls. The Barracuda Message Archiver is designed to satisfy the diverse needs of small and medium businesses, large enterprises, educational institutions and government agencies. The policy management engine supports both global organizational policies, as well as those designed for a subset of its users or email communication. Policies can be set on the content in emails as well as the message body and its headers.



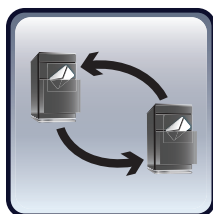
Powerful Indexing and Search. Based on the Lucene open source engine, the Barracuda Message Archiver efficiently indexes all emails and enables users to conduct full-text searches on the message store. Users can then quickly search, view and forward emails that are located in the archives.



Role-based administration. The Barracuda Message Archiver is designed with role-based administration. The system ships with multiple built-in roles to provide administrator, auditor and user access to meet regulatory compliance, litigation support and operational requirements.



Logging and reporting. The Barracuda Message Archiver’s extensive logging and reporting capability empowers administrators and auditors to monitor the performance of the appliance while ensuring all regulatory and litigation requirements are fulfilled. The built-in reporting engine provides summarized reports on the deployment. The audit logs provide auditors with the confidence that the data has not been tampered with and can be upheld in court.



Robust storage. Built-in storage and redundancy is provided through internal or external mirroring as well as swappable drive trays that enable added control and email management across the organization’s network. This allows you to move emails from costly transaction-based storage required for production email servers to less expensive storage options.



Access anywhere. In order to enable optimal performance for users, the Barracuda Message Archiver includes access to archived email through a web user interface, Microsoft Outlook Add-In and iPhone application.