AdaCopy Backup

Brick-Level Exchange Backup

July 2006

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1 Introduction

In today's business world, email is a mission critical application. Email is so crucial to every modern company that downtime or lost emails causes lost of productivity and or business. With this in mind, AdaCopy Backup has developed the "Brick-Level Exchange Backup Agent" to complement our existing "Exchange Backup Agent" to provide full exchange server protection with the unique ability to quickly recover lost information without restoring the whole exchange information store.

AdaCopy Backup's brick level backup was not designed to fully protect an Exchange server, but to facilitate easy backup and fast restore of individual mailboxes. AdaCopy Backup's brick level restore cannot be used to fully recover the Information Store after a disaster. If used, a brick level backup must be utilized in conjunction with full Information Store Backup, in order to fully protect the exchange server.

2 How To - Backup Individual Emails

2.1 Granting Full Mailbox Access Privileges

AdaCopy Backup "Brick-Level Exchange Backup" requires "Full Mailbox Access" permission for the user running OBM on the exchange machine. Please follow one of the instructions below to grant the required access.

2.1.1 For one specific mailbox

Use the following procedure to grant access to Exchange 2000 or an Exchange 2003 mailbox:

a) Start Active Directory Users and Computers.

b) On the View menu, ensure that the Advanced Features check box is selected.

c) Right-click the user whose mailbox you want to give permissions to and choose Properties.

d) On the Exchange Advanced tab, click Mailbox Rights.

e) Notice that the Domain Admins and Enterprise Admins have both been given Deny access to Full Mailbox access.

f) Click Add, click the user or group who you want to have access to this mailbox, and then click OK.

g) Be sure that the user or group is selected in the Name box.

h) In the Permissions list, click Allow next to Full Mailbox Access, and then click OK.

i) Click Ok all the way out.

j) Restart the Microsoft Exchange Information Store.

2.1.2 For mailboxes located within a specific mailbox store

Use the following procedure to grant access to Exchange 2000 or an Exchange 2003 mailbox found on a specific mailbox store:

a) Start Exchange System Manager.

b) Drill down to your server object within the appropriate Administrative Group. Expand the server object and find the required mailbox store within the appropriate Storage Group. Right-click it and choose Properties.

c) In the Properties window go to the Security tab.

d) Click Add, click the user or group who you want to have access to the mailboxes, and then click OK.

e) Be sure that the user or group is selected in the Name box.

f) In the Permissions list, click Allow next to Full Control, and then click OK.

g) Click 'Apply' and 'OK'

h) Restart the Microsoft Exchange Information Store.

2.1.3 For mailboxes located within a specific server

a) Start Exchange System Manager.

b) Drill down to your server object within the appropriate Administrative Group. Right-click it and choose Properties.

c) In the Properties window go to the Security tab.

d) Click Add, click the user or group who you want to have access to the mailboxes, and then click OK.

e) Be sure that the user or group is selected in the Name box.

f) In the Permissions list, click Allow next to Full Control, and then click OK.

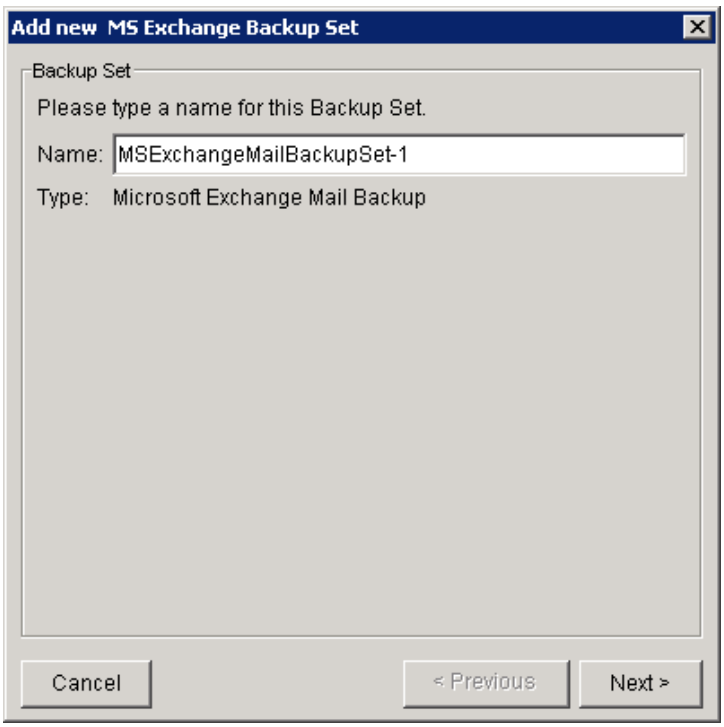
g) Click Ok all the way out.

h) Restart the Microsoft Exchange Information Store.

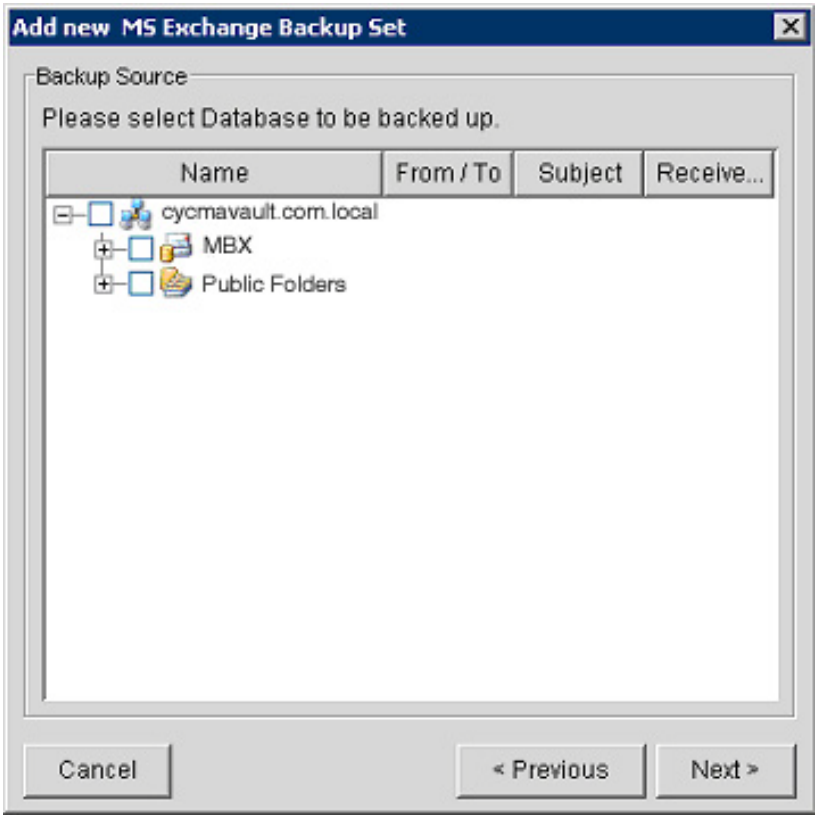
2.2 Creating a MS Exchange Mail Backup Set

A MS Exchange Mail Backup Set can be created as follows:-

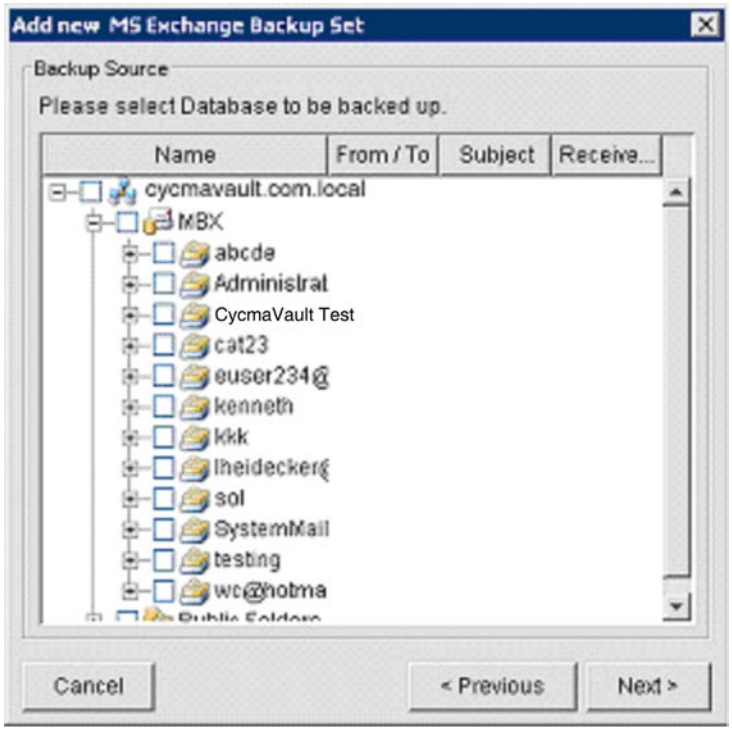
a) Select Backup Set > New > MS Exchange Mail Backup Set. Change the name as appropriate and click [Next] button.



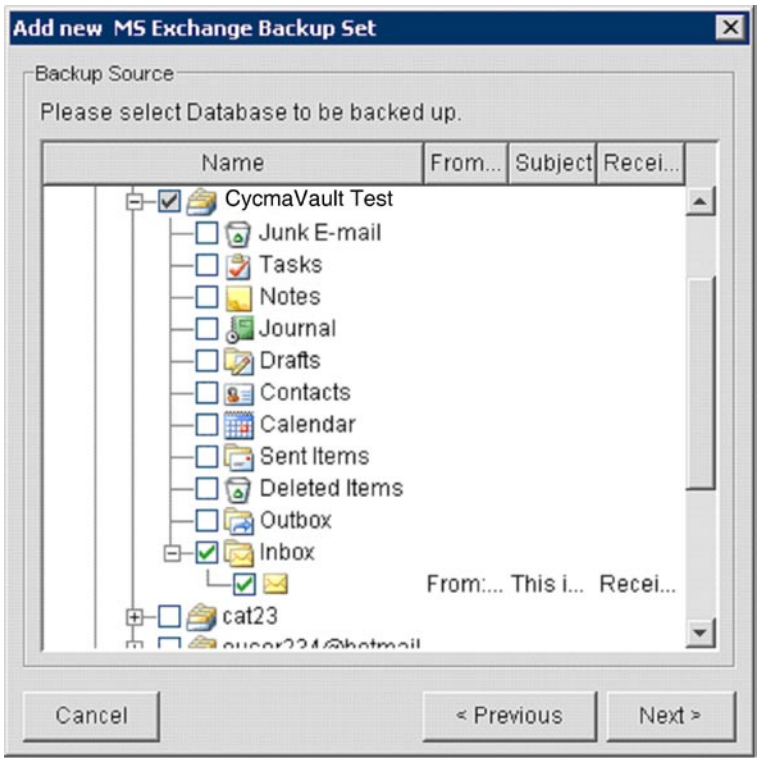
b) Notice that the root node is the exchange server address (in this case AdaCopy Backup.com.local). Below the root node is the “MBX” and “Public Folders” nodes.



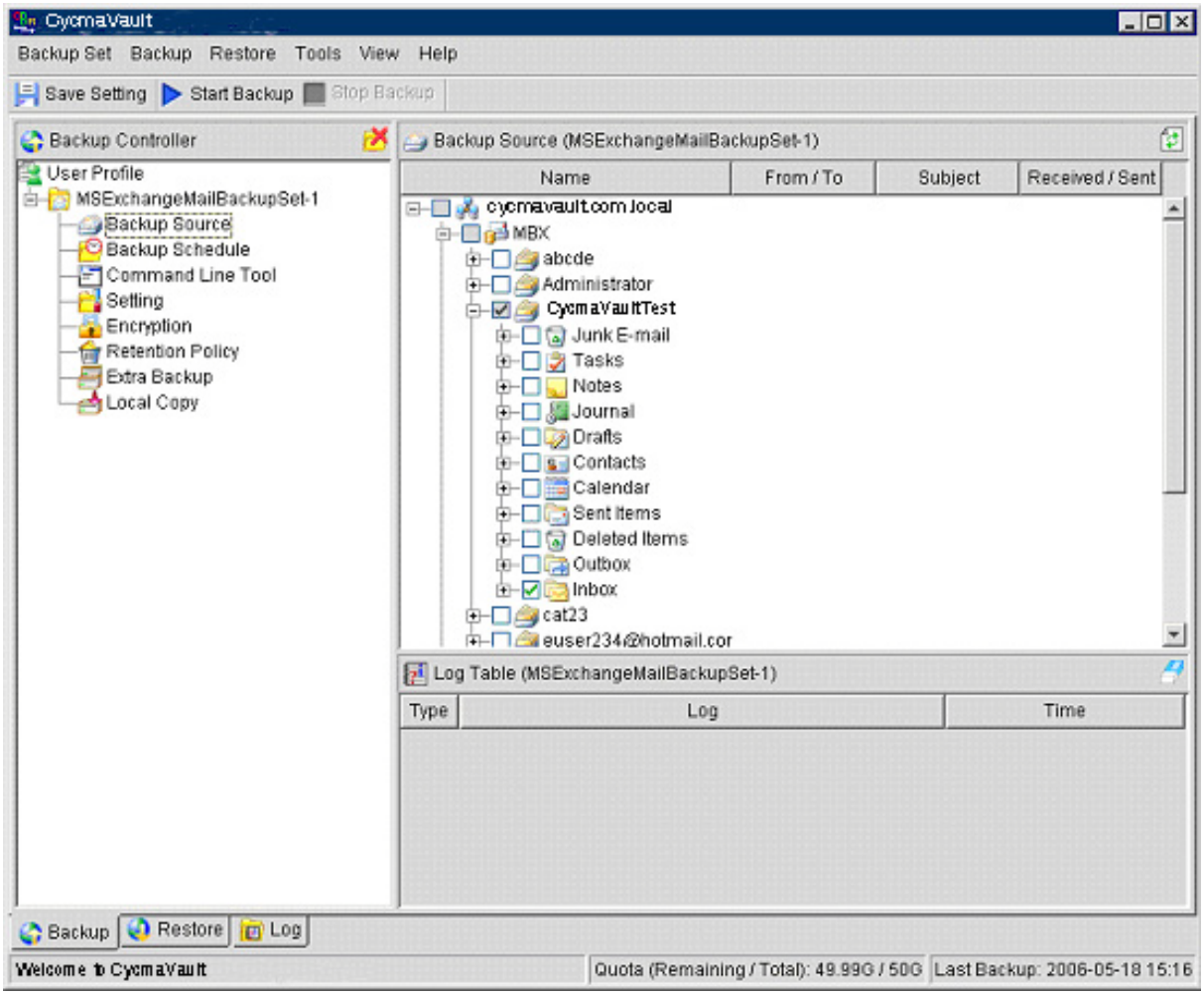
c) Expand the “MBX” node to display the list of Email Accounts for this exchange server.



d) Choose a mailbox, for example expand the “CycmaVault Test” mailbox to display all the folders available under this mailbox.



e) Choose some emails to backup. For example, check the “Inbox” folder to backup each email inside the inbox. Click [next] and follow on screen instructions to finish creating a “MS Exchange Mail Backup Set”.


CycmaVault
Backup Set
Backup
Restore
Tools
View
Help
Save Setting
Start Backup
Stop Backup
Backup Controller
User Profile
MSExchangeMailBackupSet-1
Backup Source
Backup Schedule
Command Line Tool
Setting
Encryption
Retention Policy
Extra Backup
Local Copy
Backup Source (MSExchangeMailBackupSet-1)
Name
From / To
Subject
Received / Sent
cycmavault.com.local
MBX
abcde
Administrator
CycmaVaultTest
Junk E-mail
Tasks
Notes
Journal
Drafts
Contacts
Calendar
Sent Items
Deleted Items
Outbox
Inbox
cat23
euser234@hotmail.cor
Log Table (MSExchangeMailBackupSet-1)
Type
Log
Time
Backup
Restore
Log
Welcome to CycmaVault
Quota (Remaining / Total): 49.99G / 50G
Last Backup: 2006-05-18 15:16

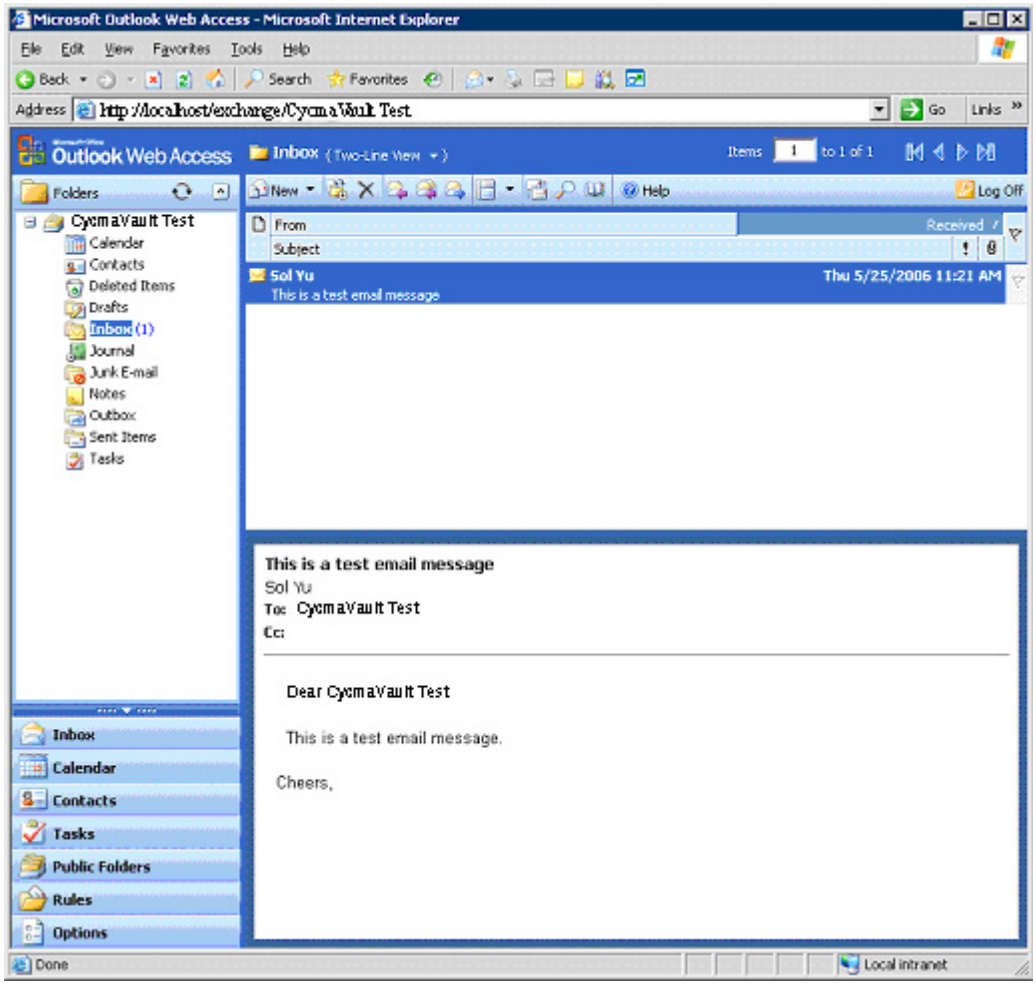
2.3 Backup Emails

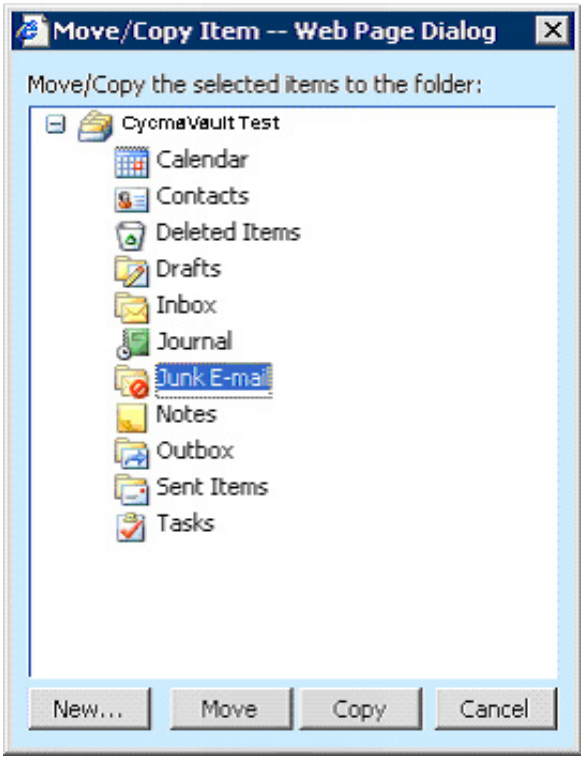
After the backup set is created, the selected emails can be backed up by running the backup set straight away or wait for the scheduler to start.

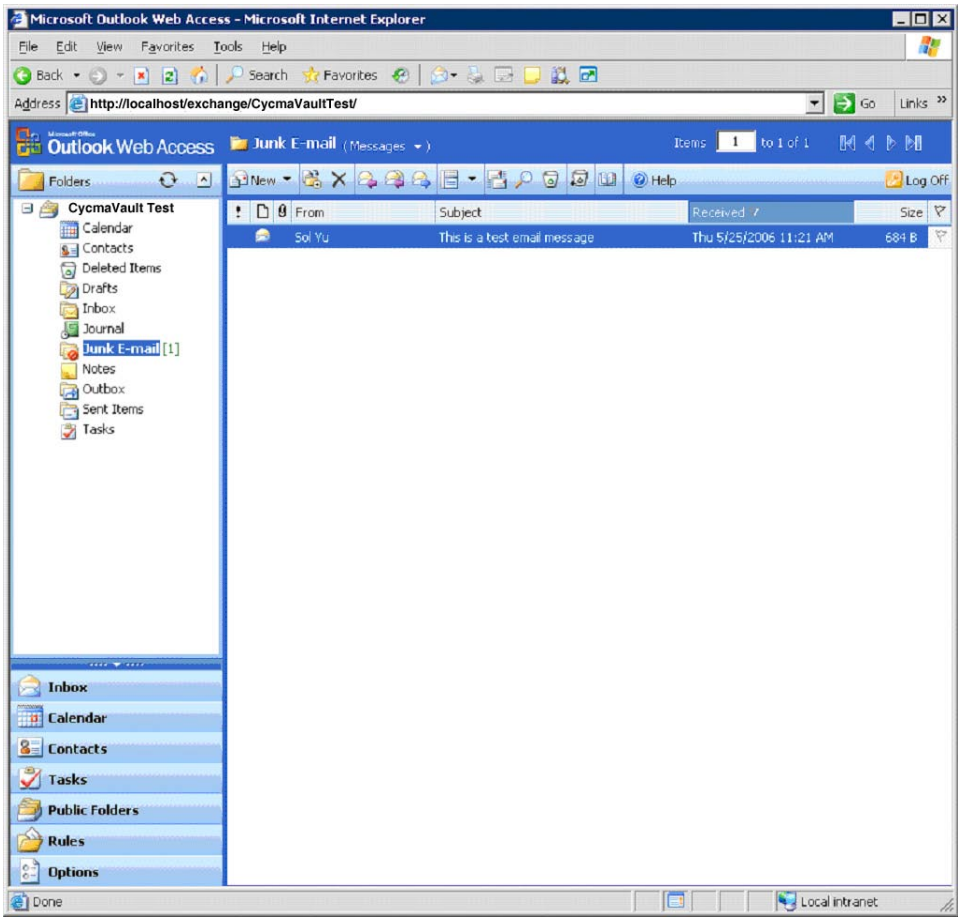
2.4 Restore Emails

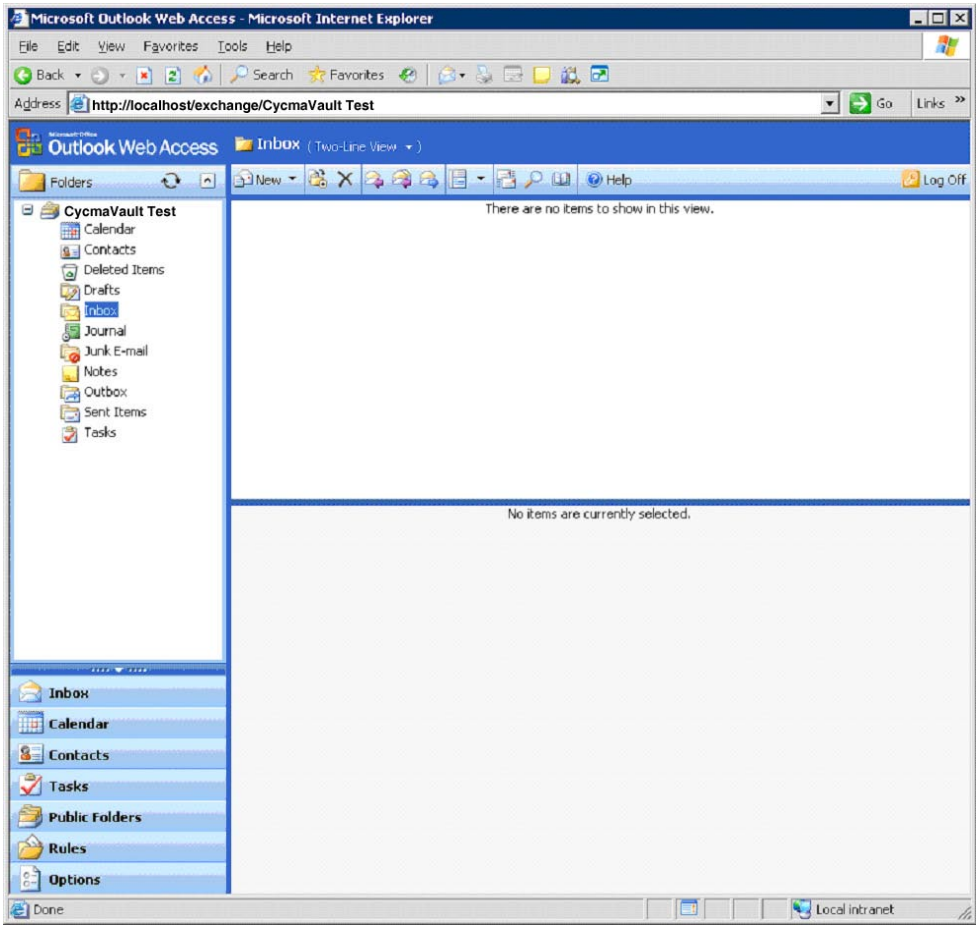
Assume that the emails in my inbox are accidentally deleted and I want to restore the emails previously backed up.

a) Firstly, I moved the original email to my Junk E-mail folder to simulate accidentally deleted an important email from my inbox.

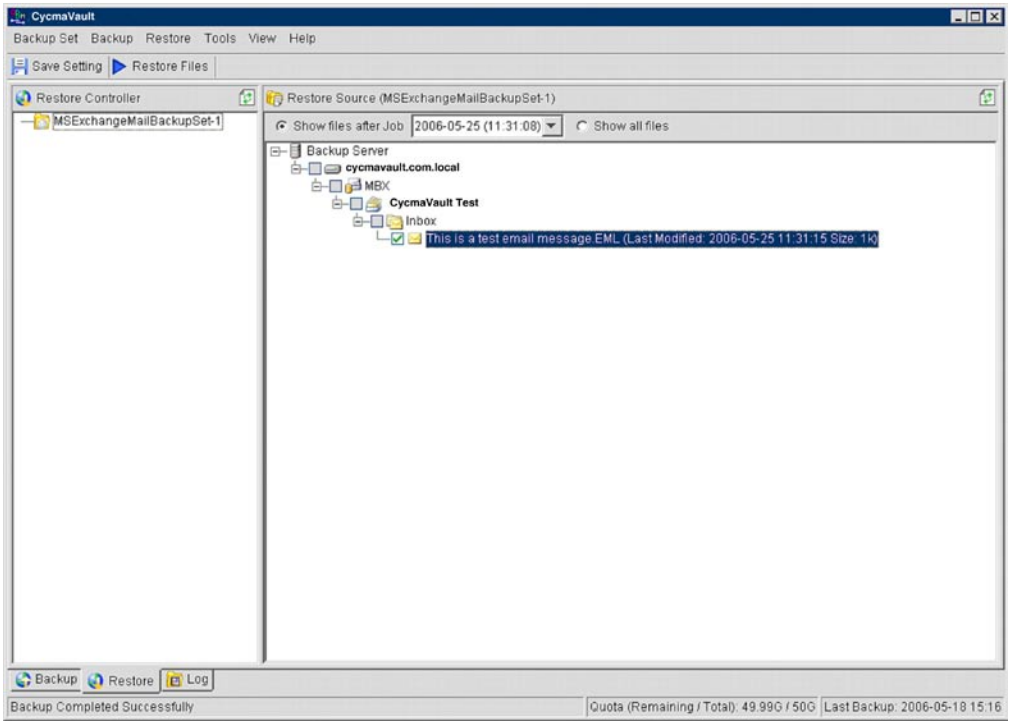



Move/Copy Item -- Web Page Dialog
Move/Copy the selected items to the folder:
CycmaVault Test
Calendar
Contacts
Deleted Items
Drafts
Inbox
Journal
Junk E-mail
Notes
Outbox
Sent Items
Tasks
New...
Move
Copy
Cancel


Microsoft Outlook Web Access - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://localhost/exchange/CycmaVaultTest/
Outlook Web Access
Junk E-mail (Messages)
Items 1 to 1 of 1
Folders
New
Help
Log Off
CycmaVault Test
Calendar
Contacts
Deleted Items
Drafts
Inbox
Journal
Junk E-mail [1]
Notes
Outbox
Sent Items
Tasks
From
Subject
Received
Size
Sol Yu
This is a test email message
Thu 5/25/2006 11:21 AM
684 B
Inbox
Calendar
Contacts
Tasks
Public Folders
Rules
Options
Done
Local intranet

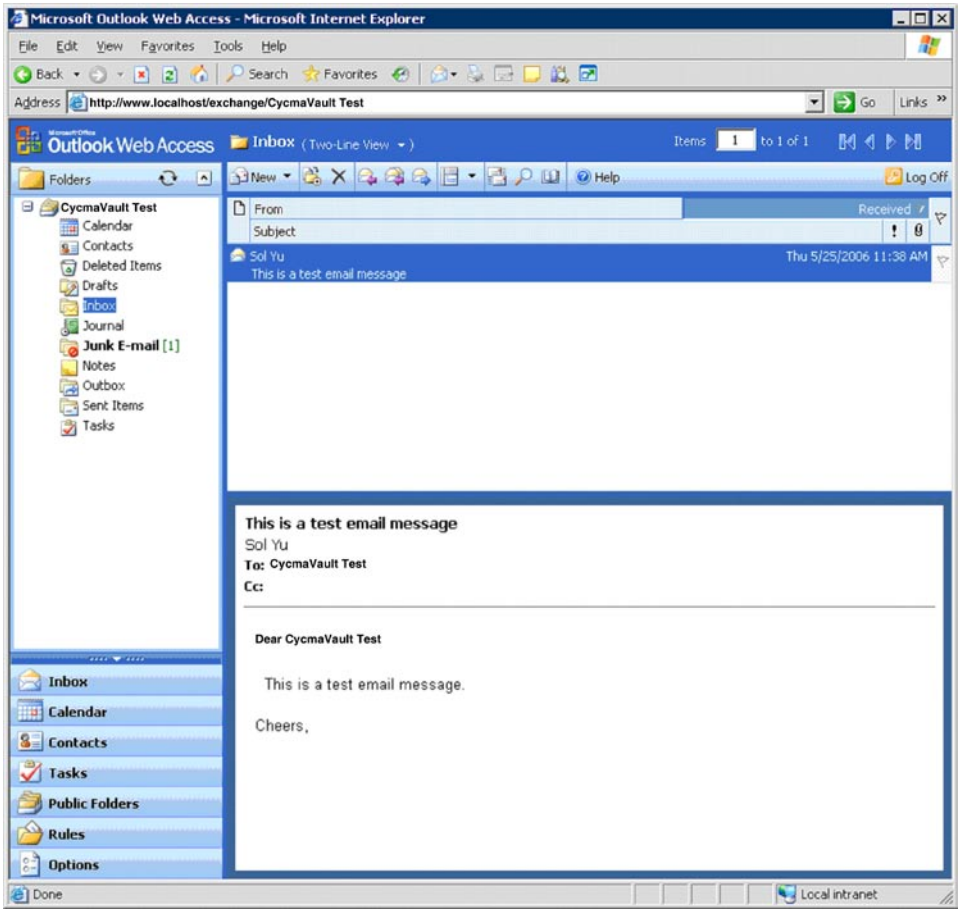


b) From the Restore List, I located the email I want to restore.



c) Click [Restore Files]. For security reasons, the email will only be restored to it's original location.

d) Email restored to my “Inbox”



3 Work In Progress

This current version only backup and restore individual emails from the exchange server. However, AdaCopy Backup is committed to enhance the “Brick-Level Exchange Backup Agent” to provide the following features and should be available soon.

- Calendar Information
- Contact Information
- Tasks
- Notes
- Journals
- Public Folders and Files

4 References

- http://www.petri.co.il/grant_full_mailbox_rights_on_exchange_2000_2003.htm

- http://www.msexchange.org/tutorials/How_to_get_access_to_all_mailboxes_in_Exchange_2000_Server.html
- http://support.microsoft.com/kb/q262054