Restoring a MS 2007 Exchange Storage Group

This article describes how to restore a MS Exchange storage group previously backed up by R1Soft CDP.

CDP provides the ability to take a snapshot of the Microsoft Exchange Storage groups. Since CDP is using the VSS Exchange writer, it ensures data integrity and consistency during the backup operation.

1. Using CDP to restore database data and log files | 2. Using Eseutil to replay log files | 3. Creating an Exchange Recovery Group | 4. Copying files from the CDP restore directory to Exchange Recovery Storage Group directory | 5. Mounting Storage Group

1. Using CDP to restore database data and log files

In order to restore a database, follow the instructions below.

1. Click on "Recovery Points" in the Main Menu to open the "Recovery Points" window.

Standard Edition	Enterprise Edition	Advanced Edition
		

2. In the "Recovery Points" list, from the horizontal menu select the Agent where MS Exchange is installed and the appropriate Disk Safe to restore from.



3. Then select a Recovery Point to restore from and click on the "Browse" icon in the "Actions" column for this Recovery Point.



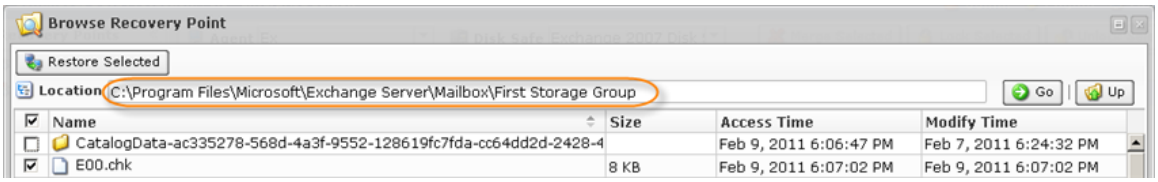
> **Tip**
> To find a Recovery Point, you can use the Basic and Advanced List Filters. See Customizing the Recovery Points List.

4. The "Browse Recovery Point" window opens.

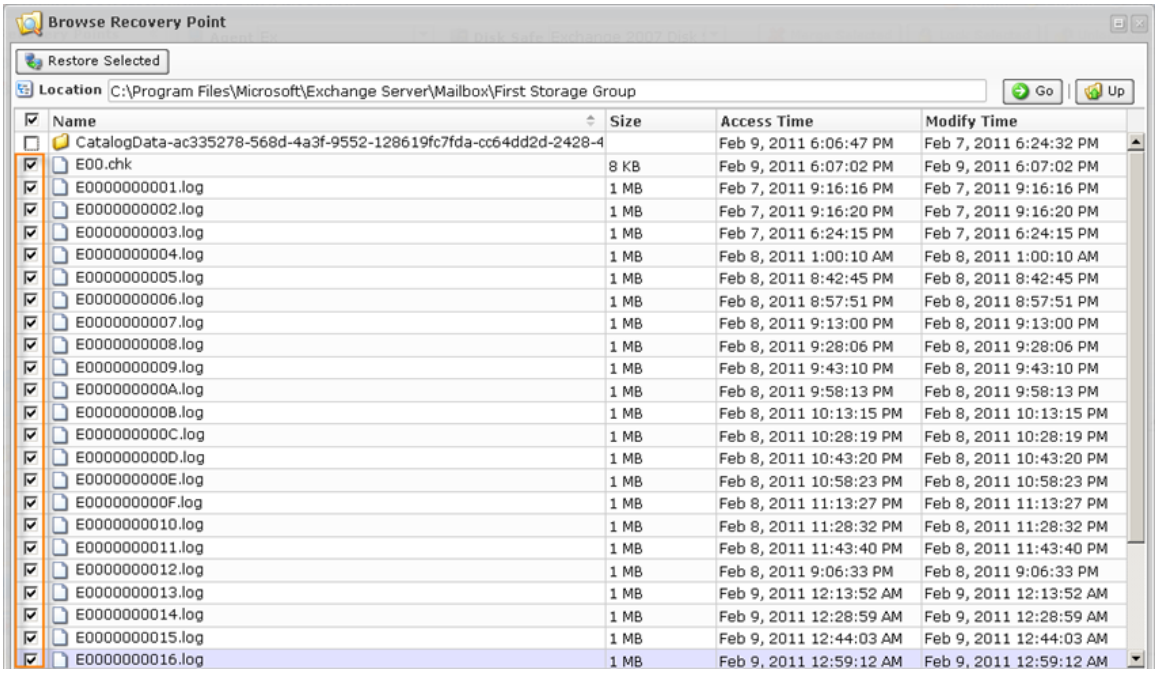


See also: Browsing Recovery Points.

5. Browse to locate the SQL check point file, data and log files (Enn.chk, .mdf & . ldf).



Select the checkboxes next to the files and folders to restore.



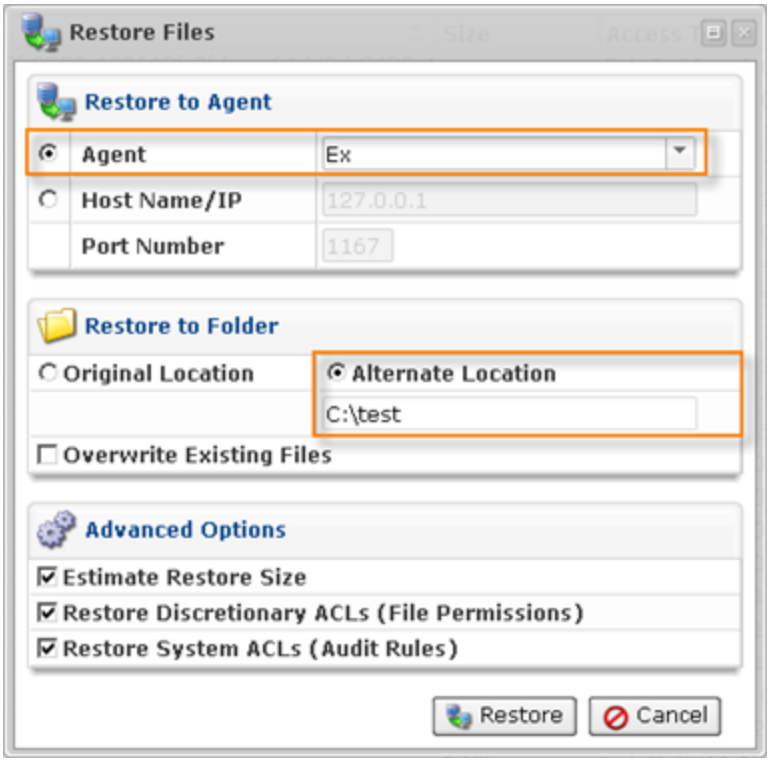
6. Once the files and folders are selected, click on "Restore Selected."



7. The "Restore Files" window will open.

8. Select the Agent where the MS Exchange is installed.

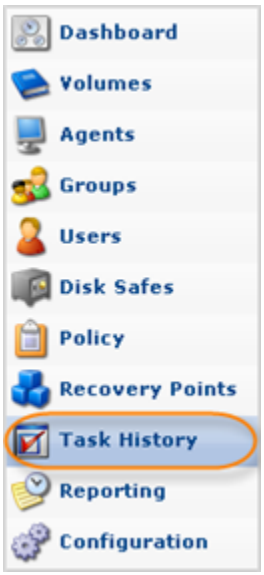
Specify to restore the files to an alternate location as we are later going to attach them to an Exchange Recovery Group.



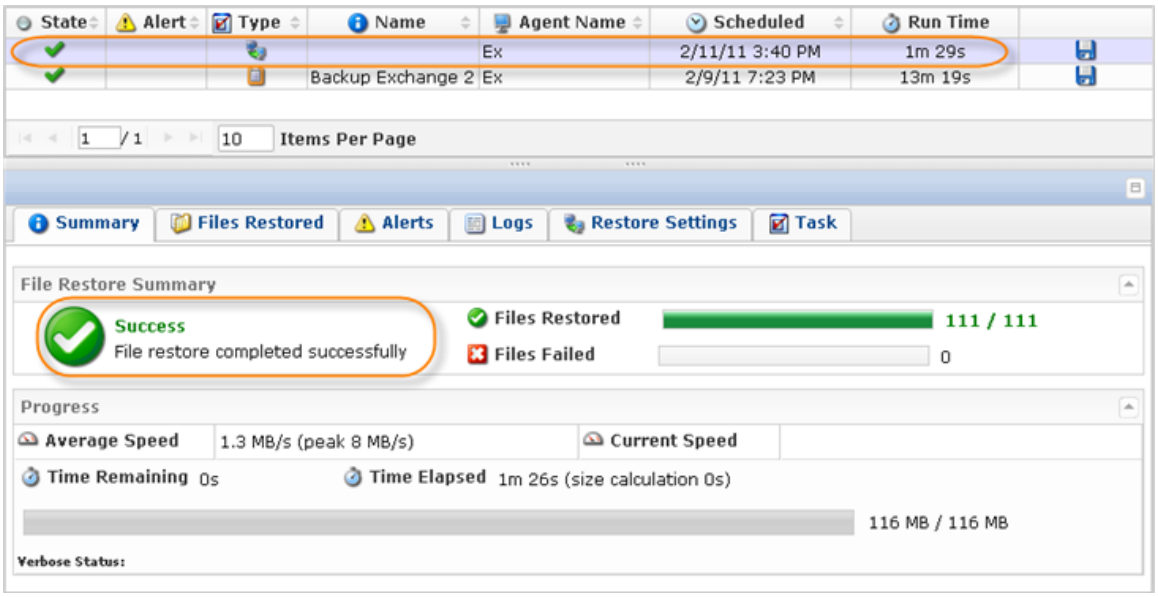
9. Click "Restore."



10. You can view the Restore Task results in the "Task History."



11. In the "Task History" list, find the Task you want to view the summary for and click it. The "Summary" tab located on the bottom area accumulates general information about the task.



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2. Using Eseutil to replay log files

Once the files have been restored, it is time to run Eseutil to get the data files into a clean shutdown state so that they can be attached to a recovery storage group, and have the log files played into the backup.

On the Exchange server where the files were restored, open up the command prompt and change the directory to the location where you restored the `.chk`, `.edb`, and `.ldf` files. Operating inside of the directory, where the data and log files exist, eliminates misspelling and incorrect paths, etc.

For example, the files were restored to the `c:\test` directory, but since the original files were located under

`C:\Program Files\Microsoft\Exchange Server\Mailbox\First Storage Group`,

The restore directory path will be:

`C:\test\Program Files\Microsoft\Exchange Server\Mailbox\First Storage Group`.

From this directory run the following command:

```
Eseutil /R Enn /I /D
```

For example:

```
Eseutil /R E00 /I /D
```

```
C:\test>Eseutil /R E00 /I /D /8

Extensible Storage Engine Utilities for Microsoft(R) Exchange Server
Version 08.00
Copyright (C) Microsoft Corporation. All Rights Reserved.

Initiating RECOVERY mode...
    Logfile base name: E00
            Log files: <current directory>
         System files: <current directory>
   Database Directory: <current directory>

Performing soft recovery...
                      Restore Status (% complete)

          0    10   20   30   40   50   60   70   80   90  100
          |----|----|----|----|----|----|----|----|----|----|
          ..................................................


Operation completed successfully in 0.969 seconds.
```

For more information on using Eseutil and the different commands, see the following technet article:

http://technet.microsoft.com/en-us/library/bb123479%28EXCHG.80%29.aspx

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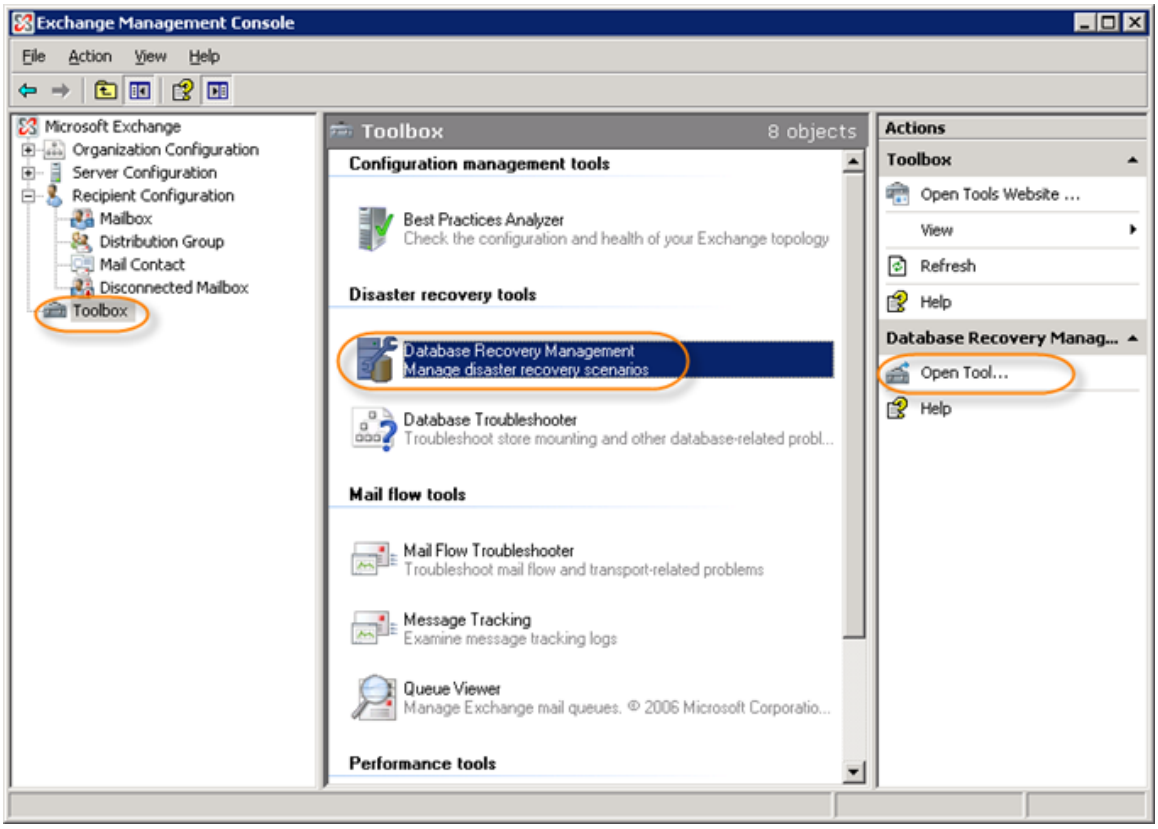
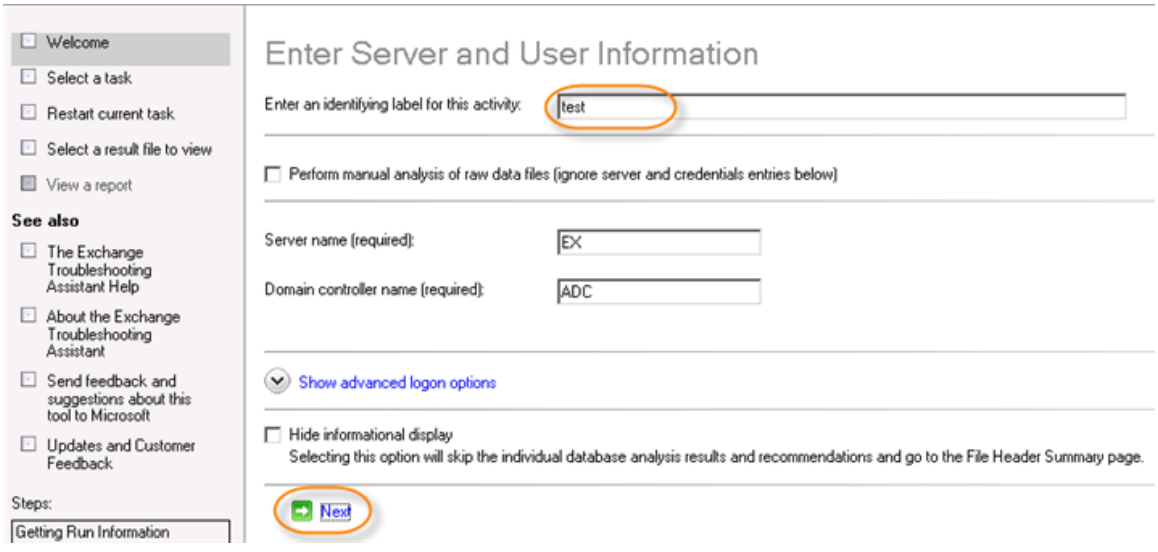
3. Creating an Exchange Recovery Group

1. From the Exchange Management console, click on the Toolbox › Database Recovery Management › Open Tool.



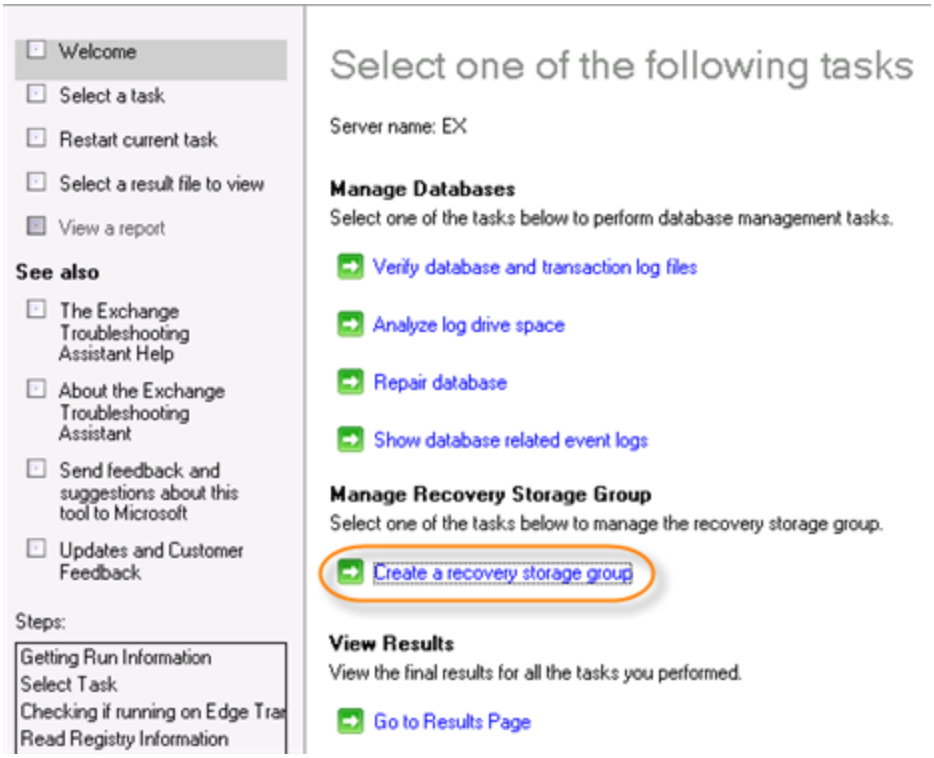
2. It is now going to check for some updates.

3. After any updates are performed, go to the Welcome screen. Type in a label for your intentions and click "Next."

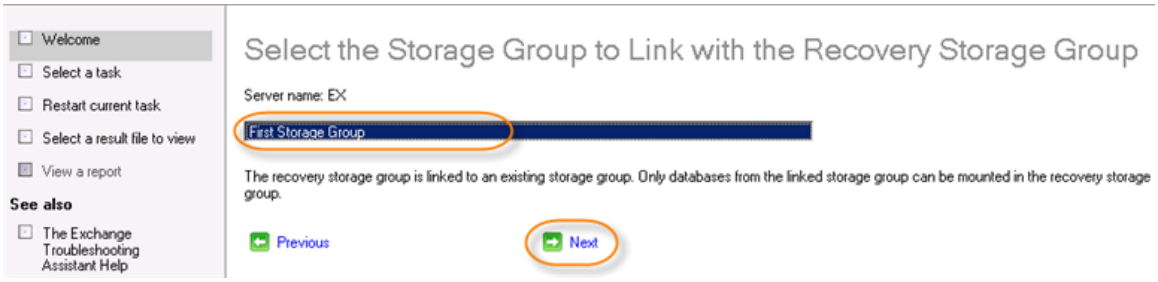


4. It will check the connections to the domain controller and the Exchange Server.

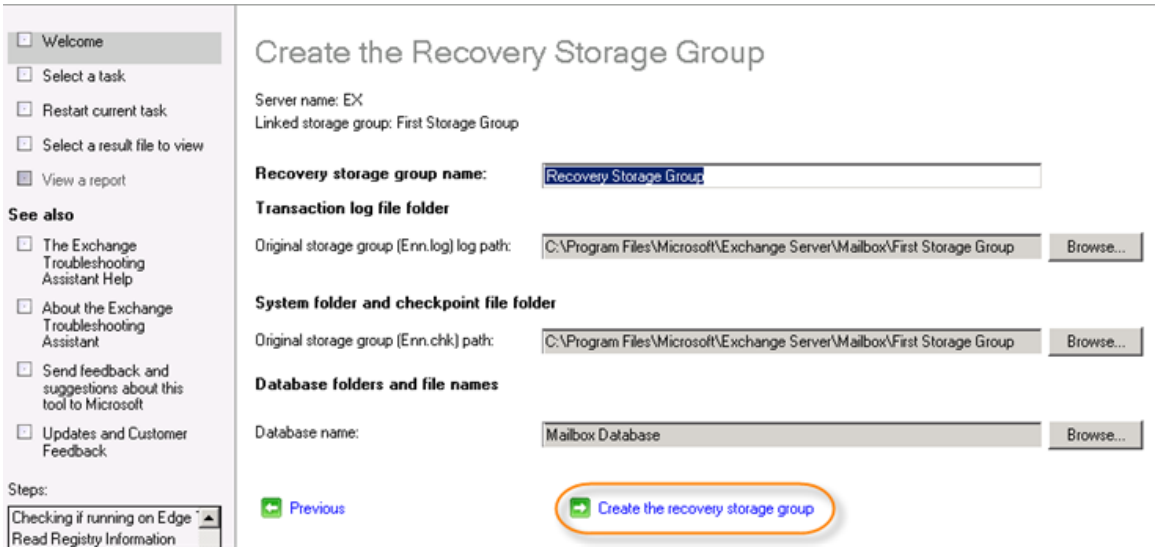
5. On the next screen, select "Create a Recovery Storage Group."



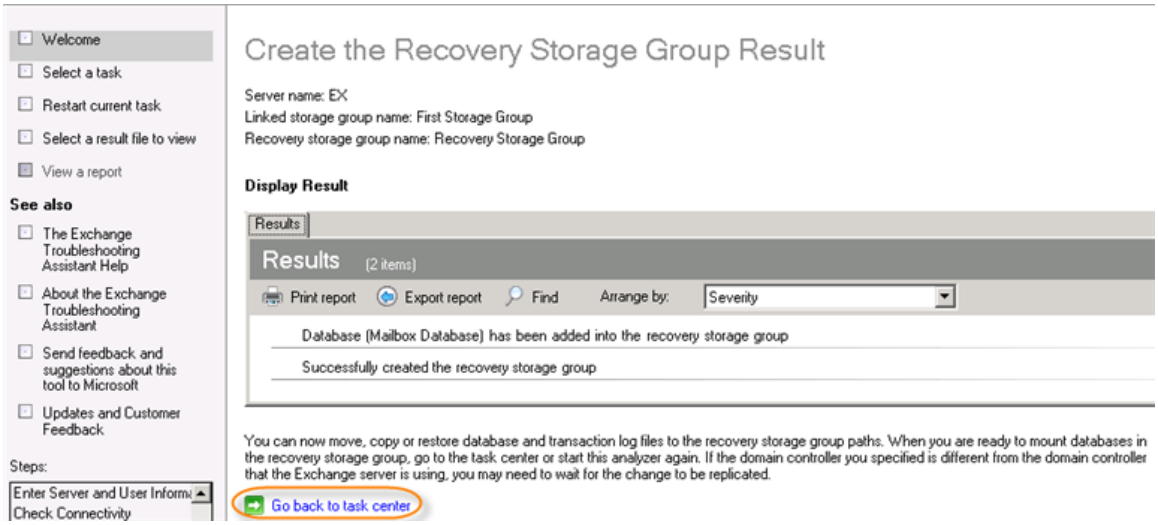
6. Select the Storage Group (files previously restored) which will be linked to the Recovery Storage Group. Click "Next."



7. The next screen can be left with the default settings. The Recovery Storage Group paths are the location where the restored files will need to be copied later. Click "Create the Recovery Storage Group."

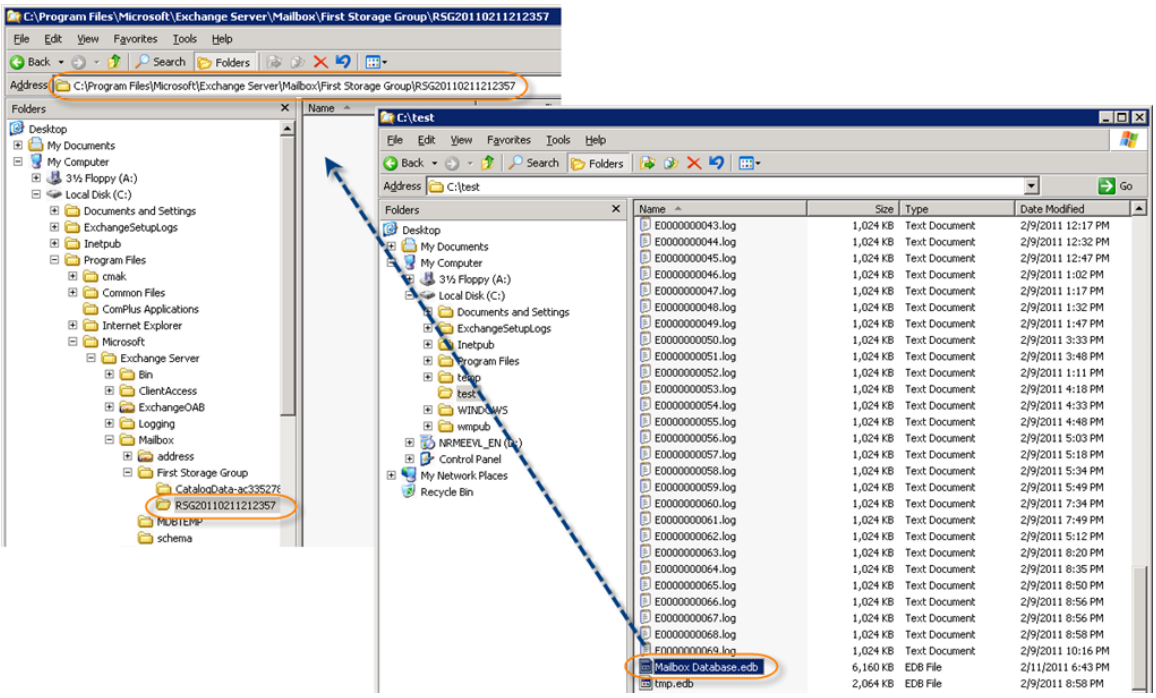


8. Next, the result will be displayed. Click on "Go back to task center."

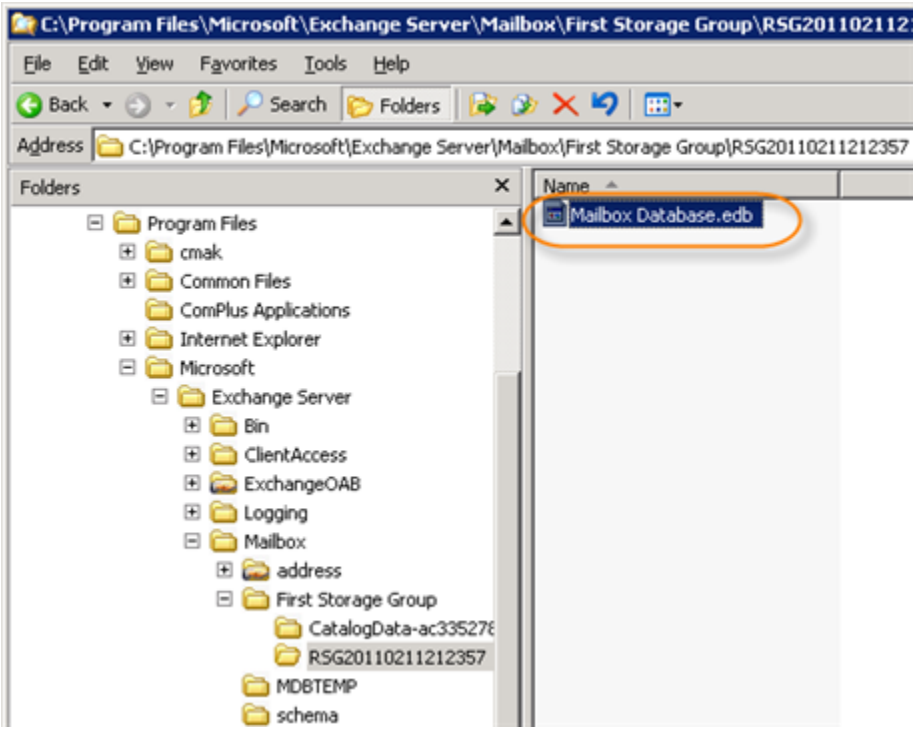


4. Copying files from the CDP restore directory to Exchange Recovery Storage Group directory

Copy the files which you previously ran the Eseutil against to the recovery directory (normally located under a folder of the storage group).



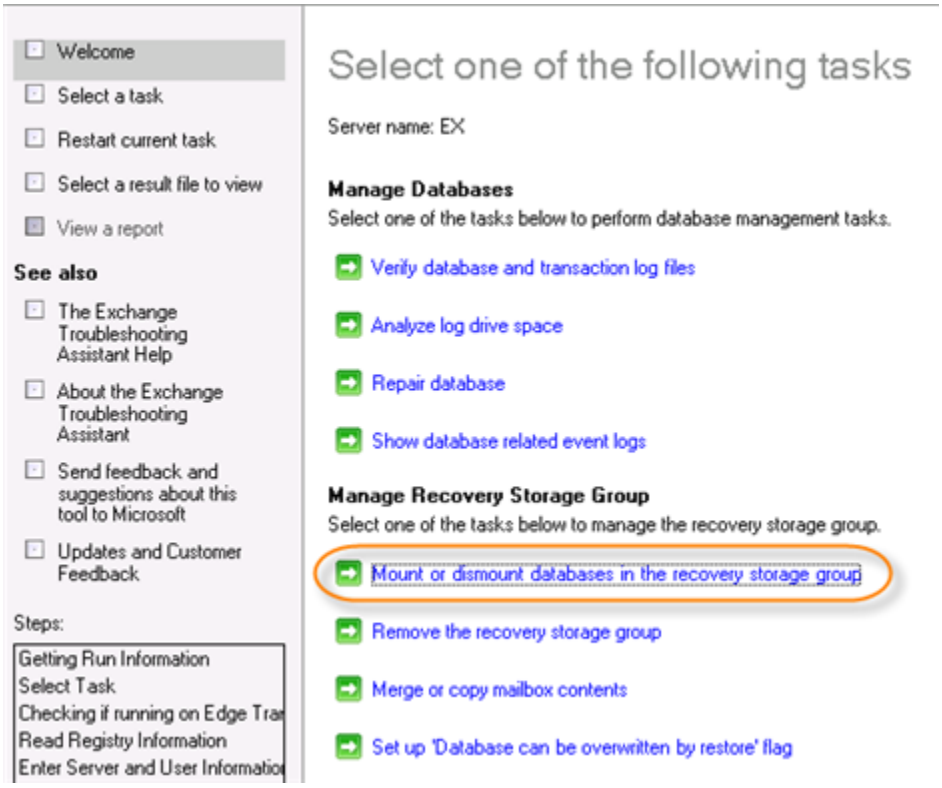
The result looks like this:



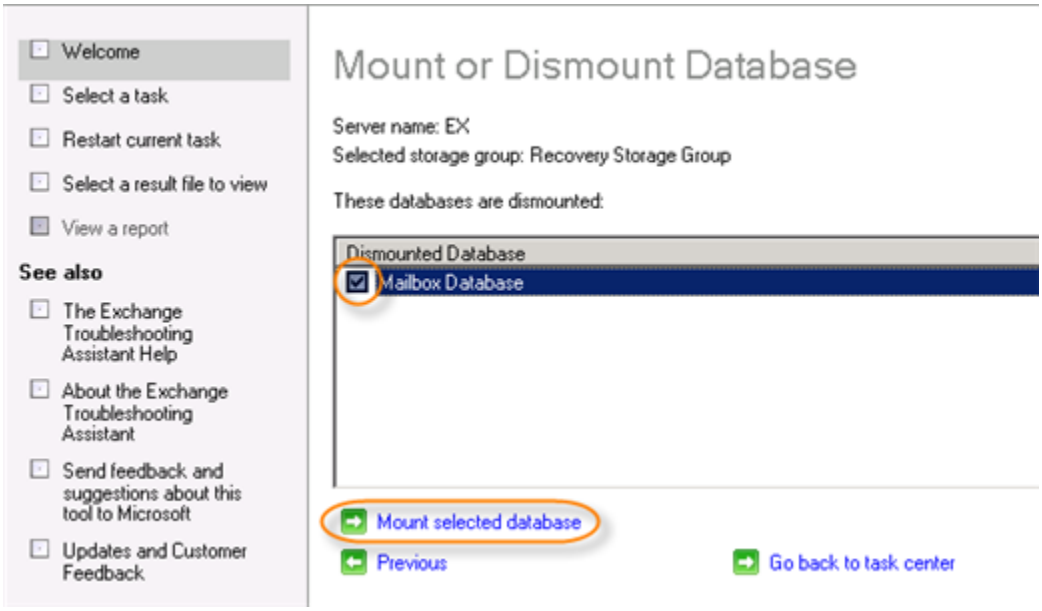
5. Mounting Storage Group

Once the files have been copied to the Exchange Recovery Storage Group directory, they can be mounted.

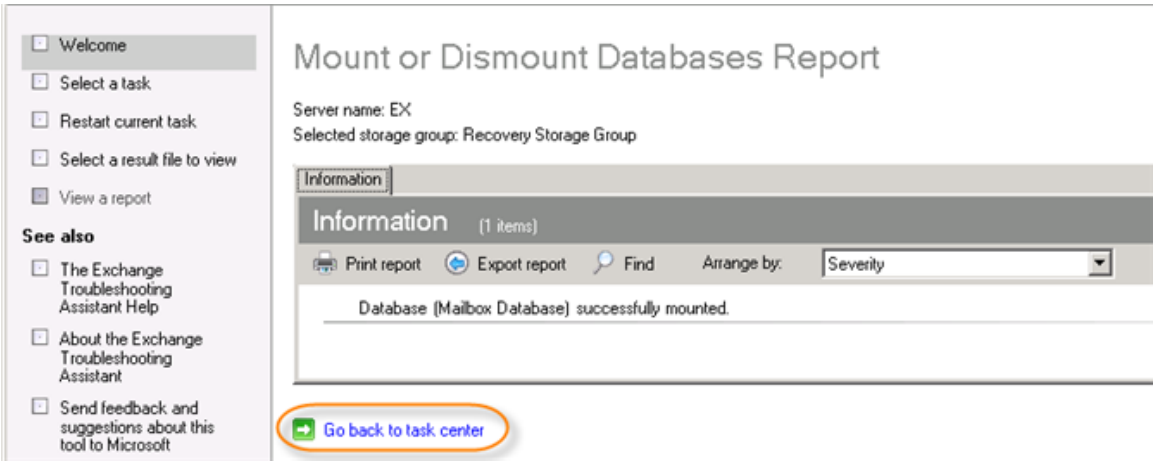
1. From the Welcome screen under the "Microsoft Exchange Troubleshooting Assistant," click "Mount Databases in the Recovery Storage Group."



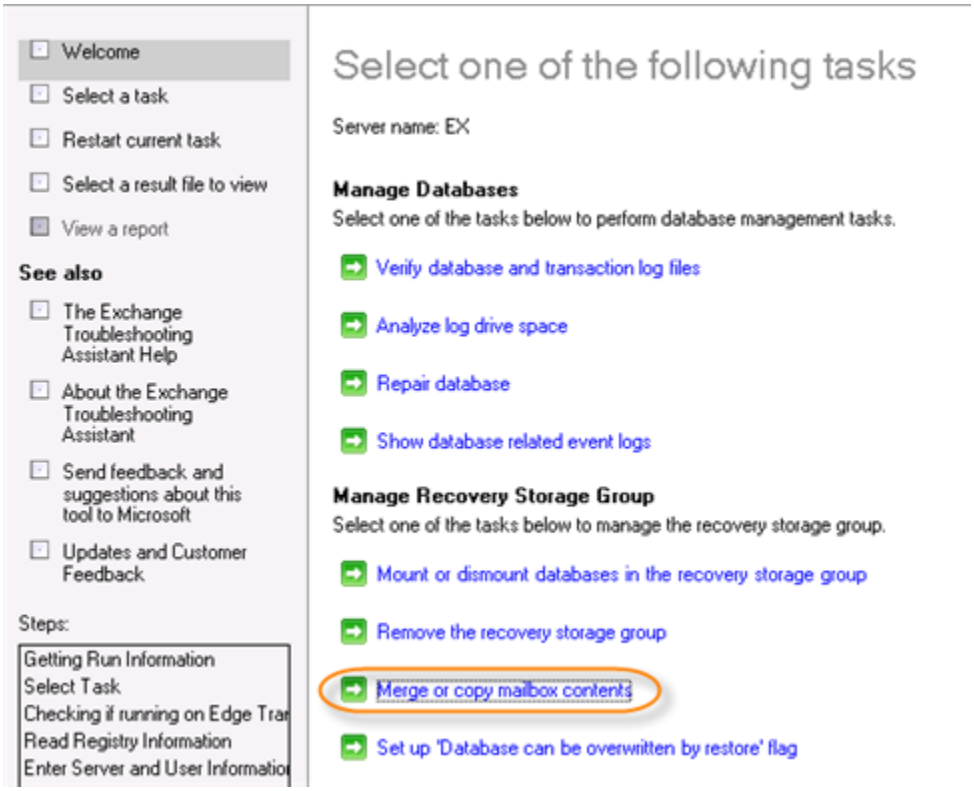
2. Check which database to mount and click "Mount selected database."



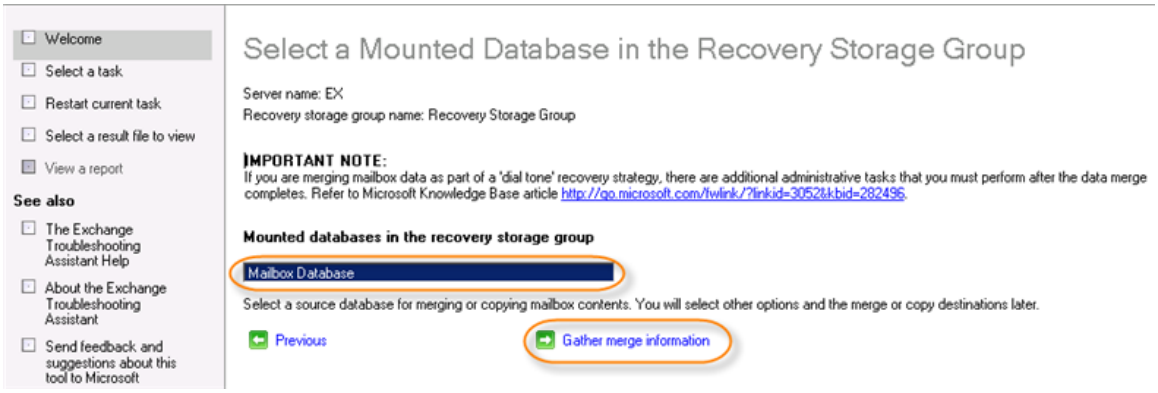
3. Once the database has mounted successfully, click on "Go back to task center."



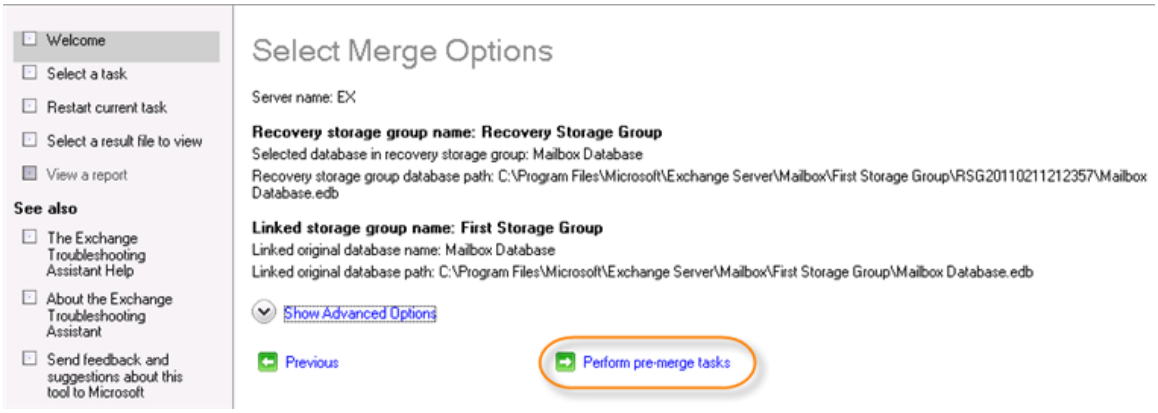
4. From the Task Center welcome screen, click "Merge or copy mailbox contents."



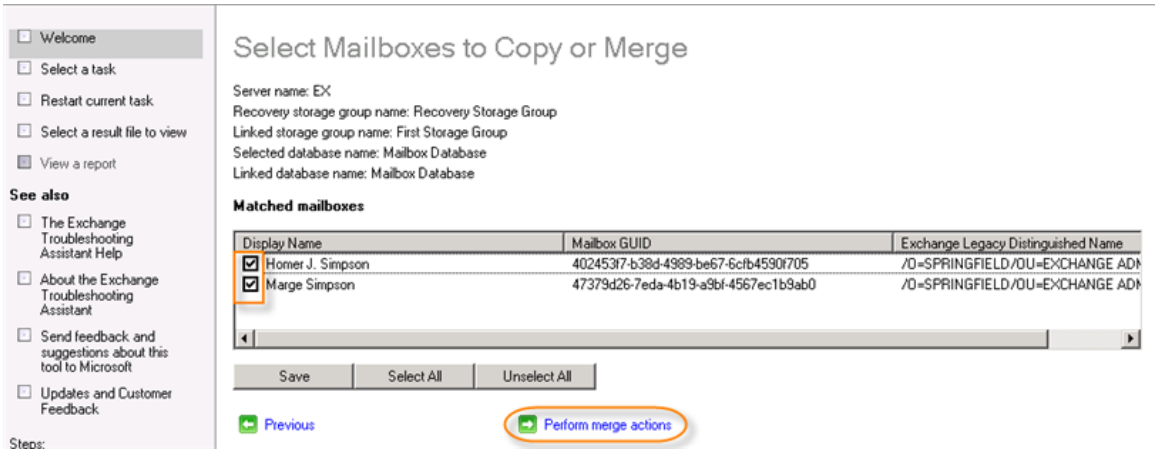
5. Specify which database to use for the merge. Click "Gather merge information."



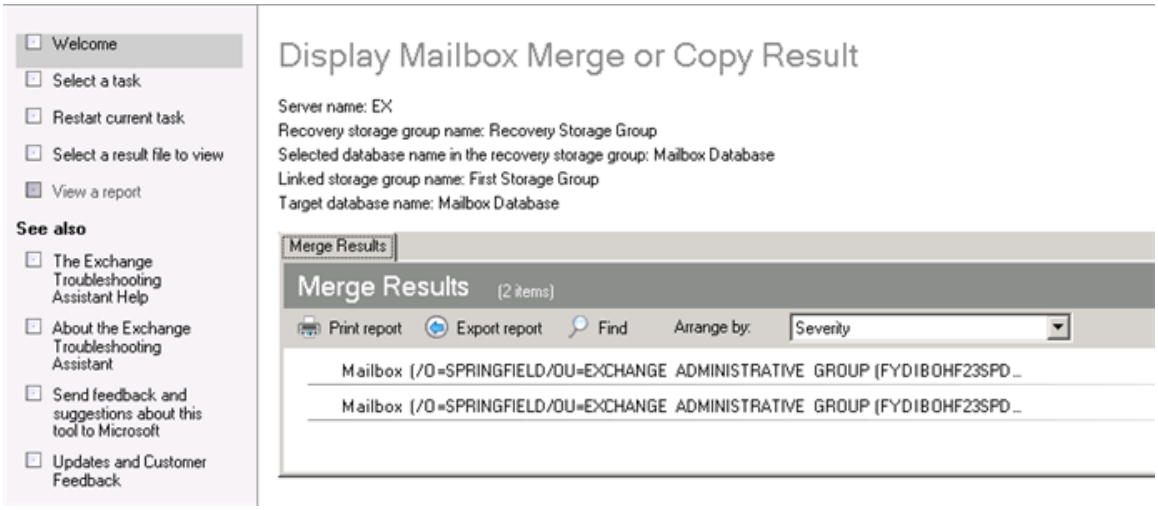
Click "Perform pre-merge tasks."



6. Locate and check the mailbox needed to be recovered and click "Perform merge actions."



7. Mailbox is now restored.


Welcome
Select a task
Restart current task
Select a result file to view
View a report
See also
The Exchange Troubleshooting Assistant Help
About the Exchange Troubleshooting Assistant
Send feedback and suggestions about this tool to Microsoft
Updates and Customer Feedback
Display Mailbox Merge or Copy Result
Server name: EX
Recovery storage group name: Recovery Storage Group
Selected database name in the recovery storage group: Mailbox Database
Linked storage group name: First Storage Group
Target database name: Mailbox Database
Merge Results
Merge Results (2 items)
Print report
Export report
Find
Arrange by:
Severity
Mailbox (/O=SPRINGFIELD/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPD...
Mailbox (/O=SPRINGFIELD/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPD...