

# Restoring an MS SQL Database

R1Soft CDP provides the ability to take a snapshot of a Microsoft SQL server database. Since CDP uses the VSS SQL writer, data integrity and consistency during the backup operation are ensured.

Follow the instructions below to restore an MS SQL database that was previously backed up by R1Soft CDP.

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Step 1: Restoring Database Data and Log Files | Step 2: Attaching the Database Data and Log Files

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## Step 1: Restoring Database Data and Log Files

To restore a database, follow the instructions below in your CDP.

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

| Standard Edition   | Enterprise Edition   | Advanced Edition   |
|--|--|--|
|  <p>Standard Edition Main Menu: Dashboard, Disk Safes, Policy, Recovery Points (highlighted), Task History, Reporting, Configuration.</p> |  <p>Enterprise Edition Main Menu: Dashboard, Volumes, Agents, Groups, Users, Disk Safes, Policy, Recovery Points (highlighted), Task History, Reporting, Configuration.</p> |  <p>Advanced Edition Main Menu: Dashboard, Users, Disk Safes, Policy, Recovery Points (highlighted), Task History, Reporting, Configuration.</p> |

2. Select a Recovery Point you want to restore from. You can restore the files from any available Recovery Point. Click on the "Browse" icon in the "Actions" column for this Recovery Point.

| Agent | SQL Server 2008         | Disk Safe | SQL Safe | Merge Selected | Lock Selected | Unlock Selected |
|-------|-------------------------|-----------|----------|----------------|---------------|-----------------|
| Id    | Created On              | State     | Devices  |                |               |                 |
| 1     | Jan 12, 2011 4:45:02 PM | Available | 2        |                |               |                 |

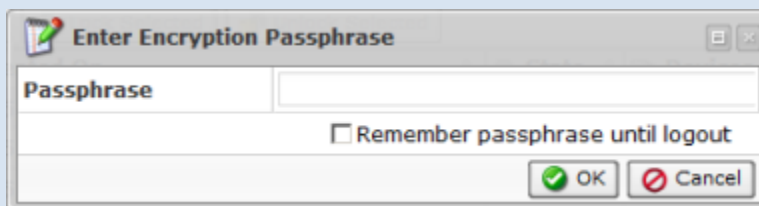
1 / 1 10 Items Per Page

**Tip**

To find a Recovery Point, you can use the Basic and Advanced List Filters. See [Customizing the Recovery Points List](#).

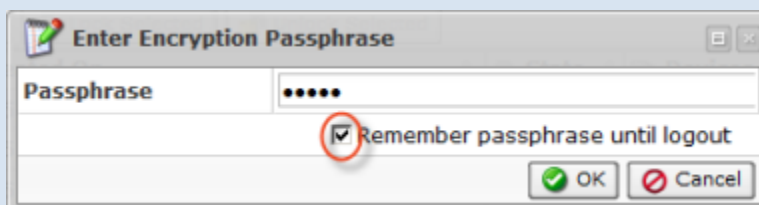
**Note**

Note that if you configured the encryption during [Disk Safe creation](#), you will be asked to enter the encryption passphrase when you click on the "Browse," "Bare Metal Restore," "Browse Databases," or "Exchange" icon.



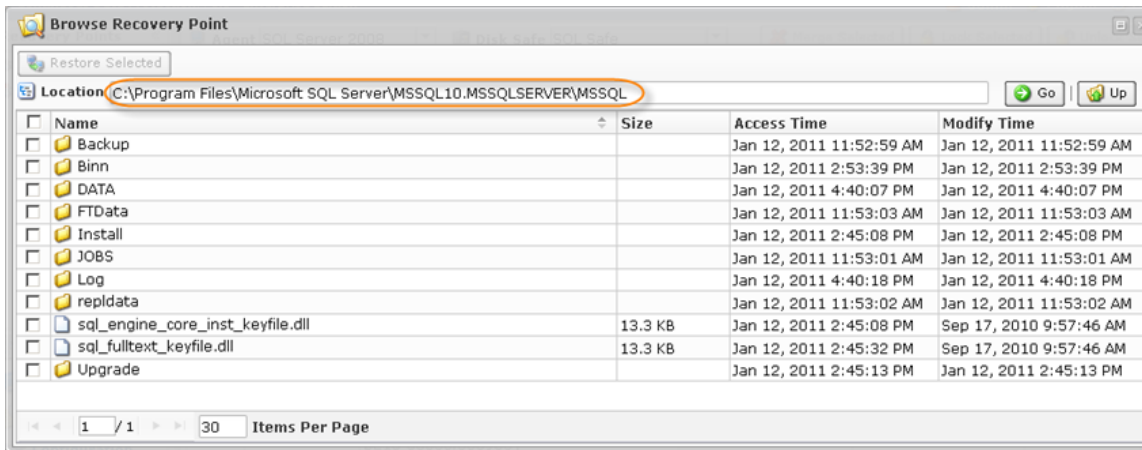
The dialog box titled "Enter Encryption Passphrase" contains a text field labeled "Passphrase" which is currently empty. Below the text field is a checkbox labeled "Remember passphrase until logout" which is unchecked. At the bottom right are two buttons: "OK" with a green checkmark icon and "Cancel" with a red X icon.

So that you don't have to enter the passphrase every time you click on one of the above-mentioned icons, check the "Remember passphrase until logout" check-box. Then click the "OK" button.

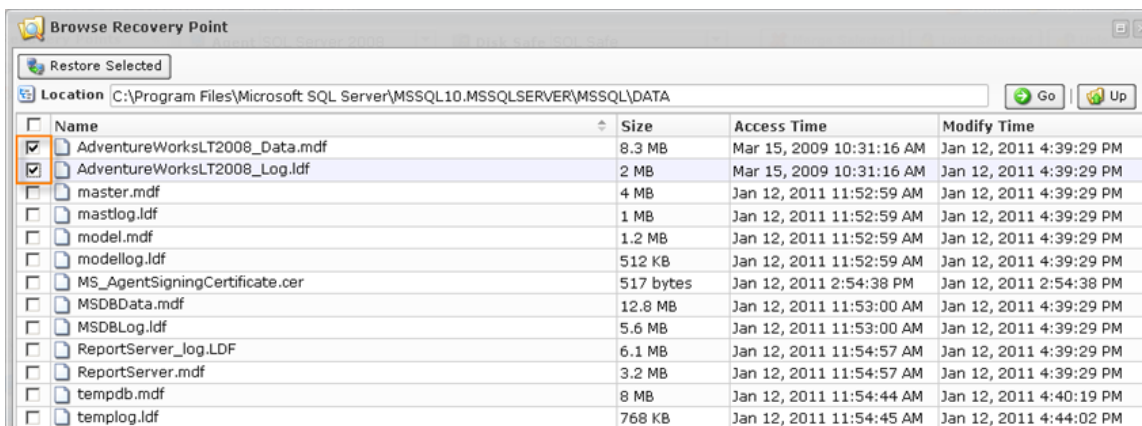


The dialog box titled "Enter Encryption Passphrase" is shown again. The "Passphrase" text field now contains six dots (••••••). The checkbox labeled "Remember passphrase until logout" is now checked, and this checkbox is circled in red. The "OK" and "Cancel" buttons remain at the bottom right.

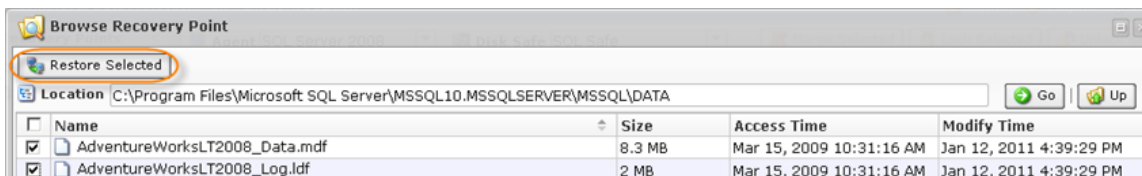
3. The "Browse Recovery Point" window opens. Browse to locate the location of the SQL data and log files (.mdf and .ldf). See also: [Browsing Recovery Points](#).



4. Check the database .mdf data files and .ldf log files you want to restore.



5. When you are finished selecting the files and directories, click the "Restore Selected" button.



6. In the "Restore Files" window, define the restore options.

First, select an existing Agent to restore to or define a new Host name/IP and its port number.

**Restore Files**

**Restore to Agent**

☒ Agent: SQL Server 2008

☐ Host Name/IP: 127.0.0.1

Port Number: 1167

**Restore to Folder**

☐ Original Location

☒ Alternate Location: c:\temp

☐ Overwrite Existing Files

**Advanced Options**

☒ Estimate Restore Size

☒ Restore Discretionary ACLs (File Permissions)

☒ Restore System ACLs (Audit Rules)

Restore Cancel

Second, if the database already exists and you want to restore the **.mdf** and **.ldf** files to an alternate location, check the option for this and specify the path where the files will be restored. Optionally, check the "Overwrite Existing Files" option.

**Restore Files**

**Restore to Agent**

☒ Agent: SQL Server 2008

☐ Host Name/IP: 127.0.0.1

Port Number: 1167

**Restore to Folder**

☐ Original Location

☒ Alternate Location: c:\temp

☐ Overwrite Existing Files

**Advanced Options**

☒ Estimate Restore Size

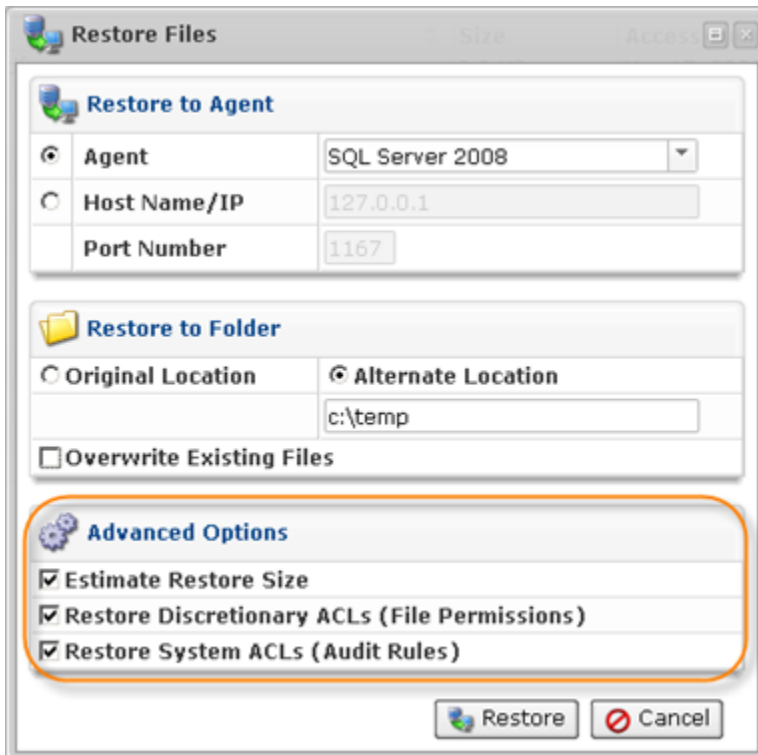
☒ Restore Discretionary ACLs (File Permissions)

☒ Restore System ACLs (Audit Rules)

Restore Cancel

Third, define the Advanced options (if needed):

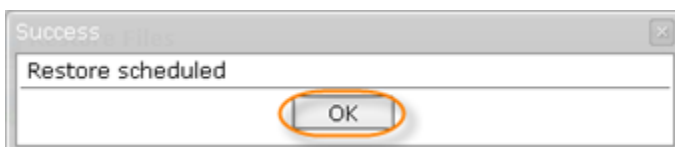
- Estimate Restore Size
- Restore Discretionary ACLs (File Permissions)
- Restore System ACLs (Audit Rules)



7. Click on "Restore."



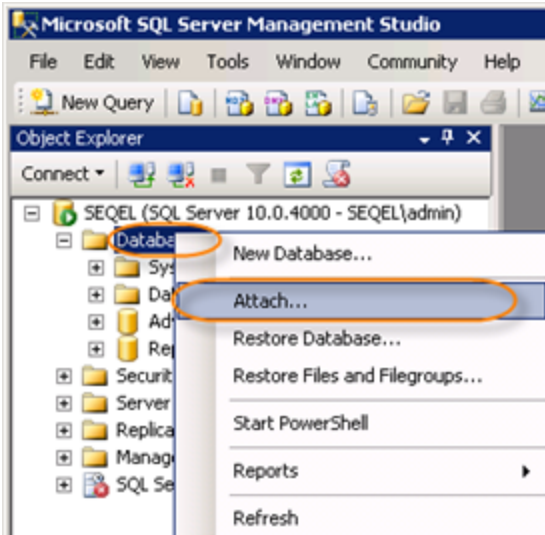
8. A notification window will inform you that the Restore task has been scheduled. This means the task has started. The "Reporting" screen displays the progress of the task. Click "OK" in the displayed window.



## Step 2: Attaching the Database Data and Log Files

Follow the instructions below to attach the database data and log file.

1. From the SQL Server Management Studio, right-click the "Databases" item and select the "Attach..." command in the menu.

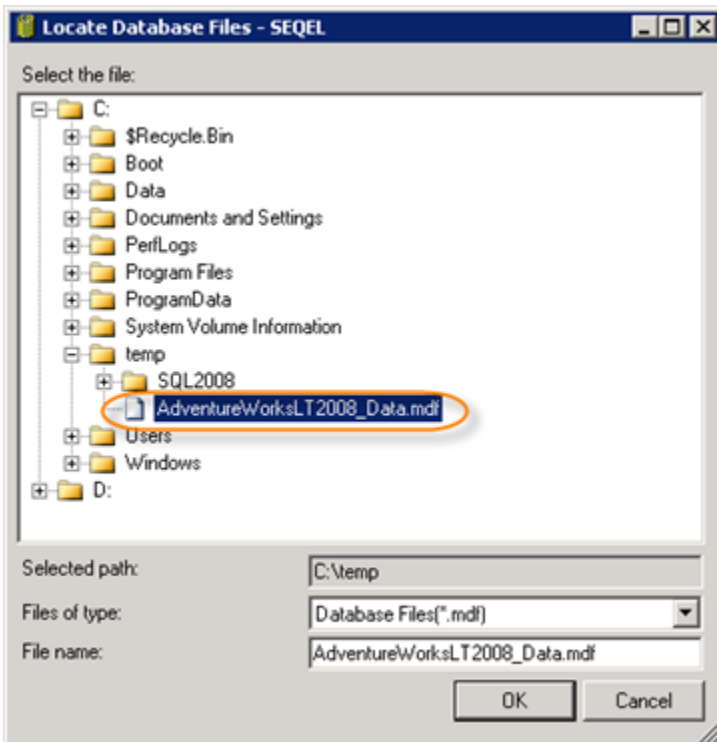


2. Browse to the restore location.

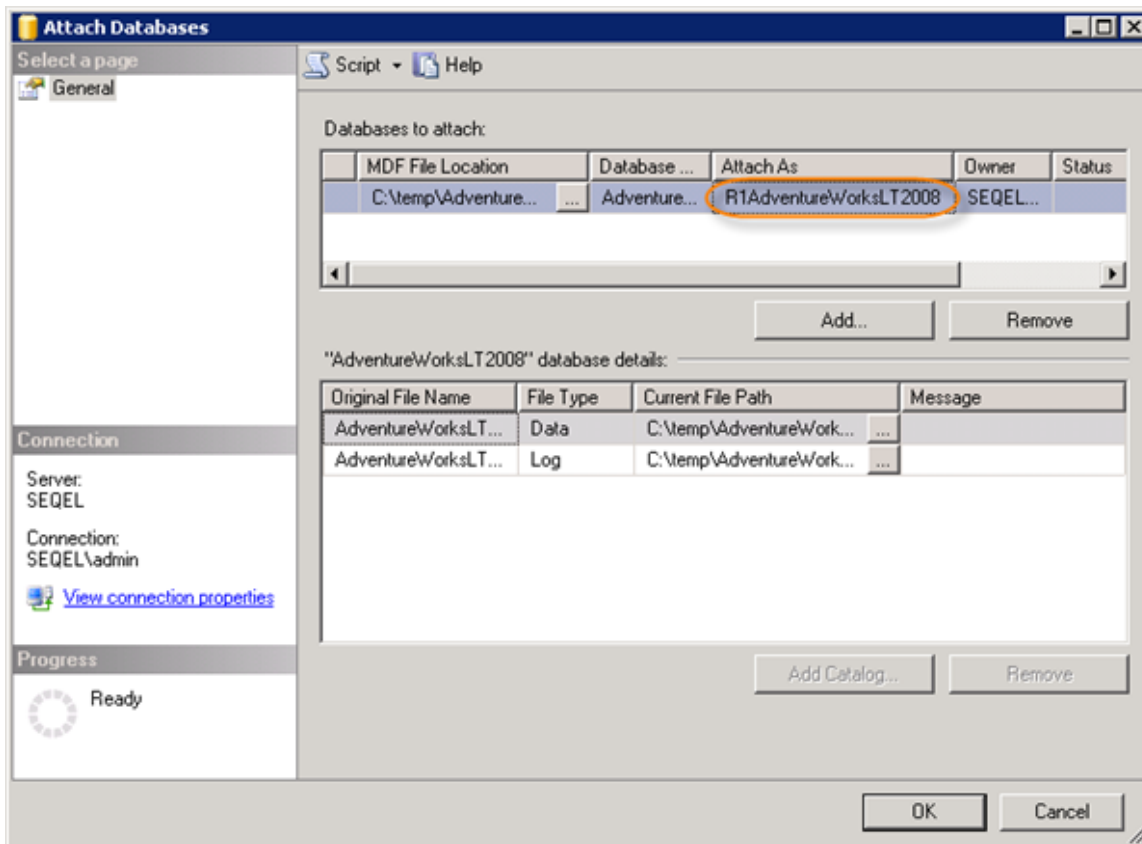


#### Note

If you restore to an alternate location, the path will include the new location, in addition to the old hierarchy of the file location.



3. In the "Attach As" column, change the database name if the original database is still online.



4. Click "OK." The database is now attached.

