

Restoring a MS SQL Database

R1Soft CDP provides the ability to take a snapshot of the Microsoft SQL server databases. Since CDP is using the VSS SQL writers, it ensures data integrity and consistency during the backup operation.

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

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

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
 Dashboard  Disk Safes  Policy  Recovery Points  Task History  Reporting  Configuration	 Dashboard  Volumes  Agents  Groups  Users  Disk Safes  Policy  Recovery Points  Task History  Reporting  Configuration	 Dashboard  Users  Disk Safes  Policy  Recovery Points  Task History  Reporting  Configuration

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 / 110 Items Per Page						



Tip

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

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](#).

Browse Recovery Point				
Restore Selected				
Location: C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL				
☐	Name	Size	Access Time	Modify Time
☐	Backup		Jan 12, 2011 11:52:59 AM	Jan 12, 2011 11:52:59 AM
☐	Binn		Jan 12, 2011 2:53:39 PM	Jan 12, 2011 2:53:39 PM
☐	DATA		Jan 12, 2011 4:40:07 PM	Jan 12, 2011 4:40:07 PM
☐	FTData		Jan 12, 2011 11:53:03 AM	Jan 12, 2011 11:53:03 AM
☐	Install		Jan 12, 2011 2:45:08 PM	Jan 12, 2011 2:45:08 PM
☐	JOBS		Jan 12, 2011 11:53:01 AM	Jan 12, 2011 11:53:01 AM
☐	Log		Jan 12, 2011 4:40:18 PM	Jan 12, 2011 4:40:18 PM
☐	repldata		Jan 12, 2011 11:53:02 AM	Jan 12, 2011 11:53:02 AM
☐	sql_engine_core_inst_keyfile.dll	13.3 KB	Jan 12, 2011 2:45:08 PM	Sep 17, 2010 9:57:46 AM
☐	sql_fulltext_keyfile.dll	13.3 KB	Jan 12, 2011 2:45:32 PM	Sep 17, 2010 9:57:46 AM
☐	Upgrade		Jan 12, 2011 2:45:13 PM	Jan 12, 2011 2:45:13 PM
1 / 1 30 Items Per Page				

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

Browse Recovery Point				
Restore Selected				
Location: C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\DATA				
☐	Name	Size	Access Time	Modify Time
☒	AdventureWorksLT2008_Data.mdf	8.3 MB	Mar 15, 2009 10:31:16 AM	Jan 12, 2011 4:39:29 PM
☒	AdventureWorksLT2008_Log.ldf	2 MB	Mar 15, 2009 10:31:16 AM	Jan 12, 2011 4:39:29 PM
☐	master.mdf	4 MB	Jan 12, 2011 11:52:59 AM	Jan 12, 2011 4:39:29 PM
☐	mastlog.ldf	1 MB	Jan 12, 2011 11:52:59 AM	Jan 12, 2011 4:39:29 PM
☐	model.mdf	1.2 MB	Jan 12, 2011 11:52:59 AM	Jan 12, 2011 4:39:29 PM
☐	modellog.ldf	512 KB	Jan 12, 2011 11:52:59 AM	Jan 12, 2011 4:39:29 PM
☐	MS_AgentSigningCertificate.cer	517 bytes	Jan 12, 2011 2:54:38 PM	Jan 12, 2011 2:54:38 PM
☐	MSDBData.mdf	12.8 MB	Jan 12, 2011 11:53:00 AM	Jan 12, 2011 4:39:29 PM
☐	MSDBLog.ldf	5.6 MB	Jan 12, 2011 11:53:00 AM	Jan 12, 2011 4:39:29 PM
☐	ReportServer_log.LDF	6.1 MB	Jan 12, 2011 11:54:57 AM	Jan 12, 2011 4:39:29 PM
☐	ReportServer.mdf	3.2 MB	Jan 12, 2011 11:54:57 AM	Jan 12, 2011 4:39:29 PM
☐	tempdb.mdf	8 MB	Jan 12, 2011 11:54:44 AM	Jan 12, 2011 4:40:19 PM
☐	templog.ldf	768 KB	Jan 12, 2011 11:54:45 AM	Jan 12, 2011 4:44:02 PM

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

Browse Recovery Point				
Restore Selected				
Location: C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\DATA				
☐	Name	Size	Access Time	Modify Time
☒	AdventureWorksLT2008_Data.mdf	8.3 MB	Mar 15, 2009 10:31:16 AM	Jan 12, 2011 4:39:29 PM
☒	AdventureWorksLT2008_Log.ldf	2 MB	Mar 15, 2009 10:31:16 AM	Jan 12, 2011 4:39:29 PM

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.

The screenshot shows the "Restore Files" dialog box with the following configuration:

- 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)**

Buttons: **Restore** and **Cancel**

Second, if the database already exists and you want to restore the **.mdf** and **.ldf** files to an alternate location, check the option 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)

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)

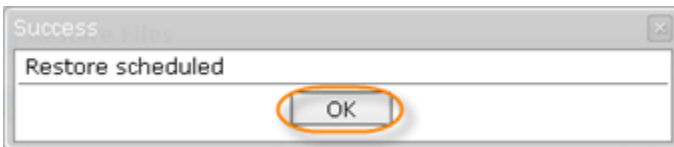
☒ Restore System ACLs (Audit Rules)

Restore Cancel

7. Click on "Restore."



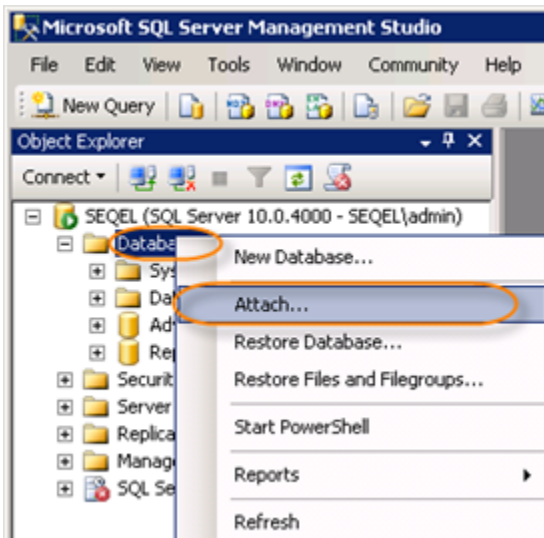
8. A notification window will inform you that the Restore task has been scheduled. This means the Task has started. The "Reporting" screen displays the progress of the Task. Click "OK" in the displayed window.



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.

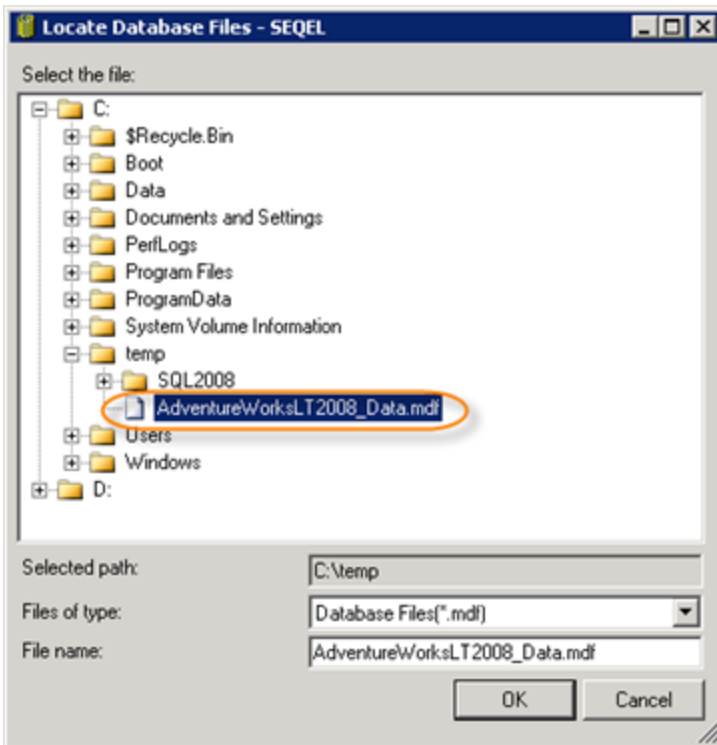


2. Browse to the restore location.

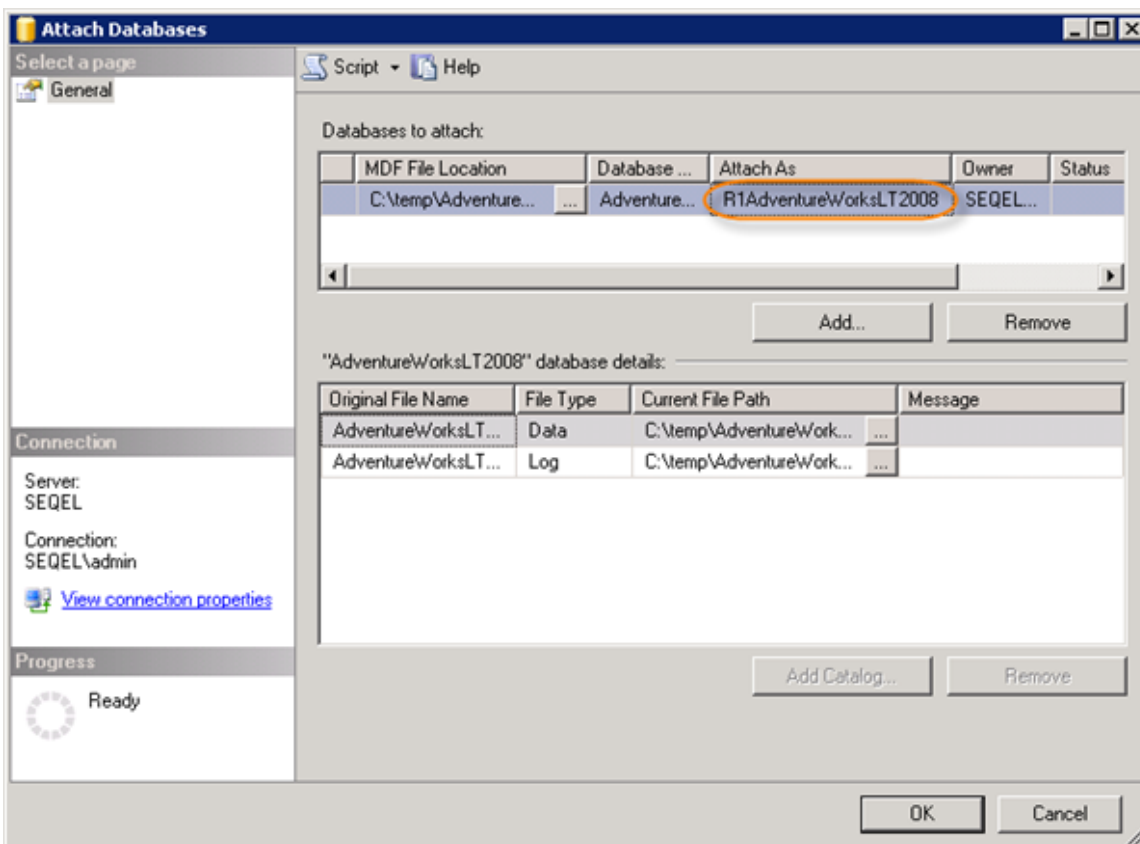


Note

If you restored it to an alternate location, the path will include the new location as well as 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.

