

Microsoft SQL Backup Overview

Backup Modes

- Online: backup directly to RingStor Vault

Backup Type

- Full: all database files are backed up in full
- Incremental: database files modified since last backup are backed up

Base Line Backup

- For online backup mode, backup to local device first, import backup from device to RingStor Vault

Create New DataSet

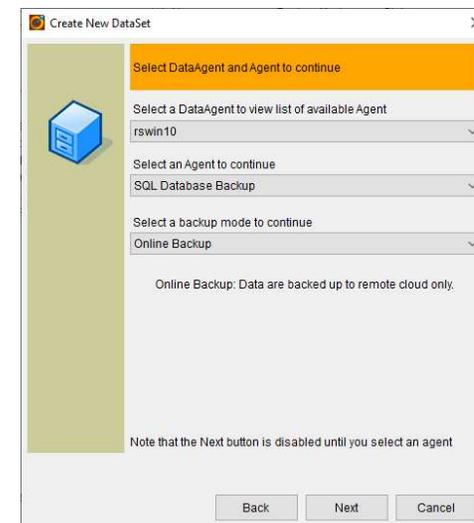
SQL Database Backup DataSet is a backupset that contains one or more Microsoft SQL databases on DataAgent

Step 1 – Log into RingStor Explorer

Step 2 – On left pane, select community and DataAgent

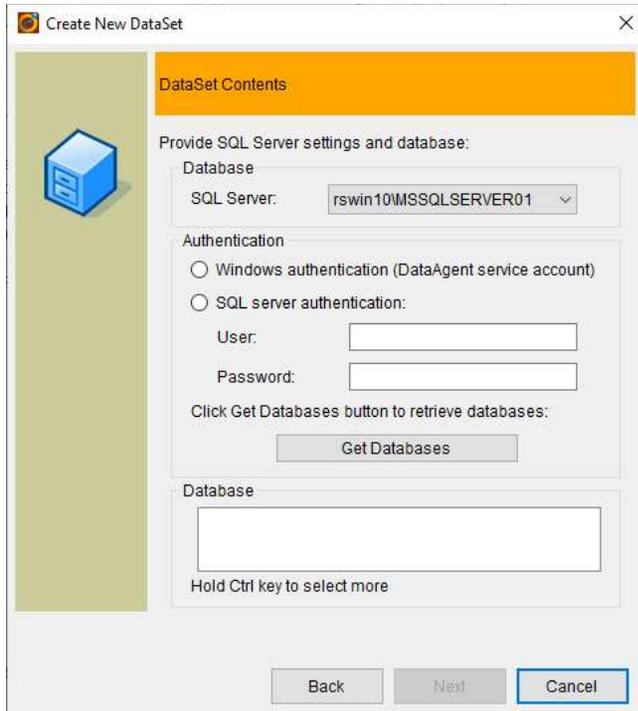
Step 3 – Right click SQL Database Backup under the DataAgent, click Create New DataSet

Step 4 – Select backup mode



Create New DataSet

Step 5 – Select database(s)



DataSet Contents

Provide SQL Server settings and database:

Database

SQL Server: rswin10MSSQLSERVER01

Authentication

Windows authentication (DataAgent service account)

SQL server authentication:

User:

Password:

Click Get Databases button to retrieve databases:

Database

Hold Ctrl key to select more

Steps:

Select an authentication mode:

Click Get Databases to test connection and view all databases

Select one or more database(s) to be included in DataSet

Schedule Backup

Recurring incremental backup is essential to protect database

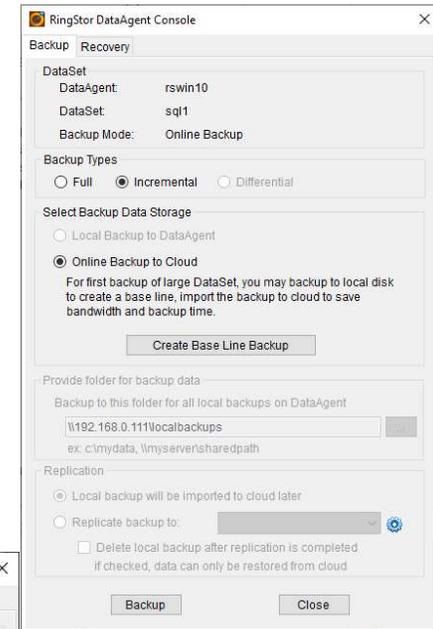
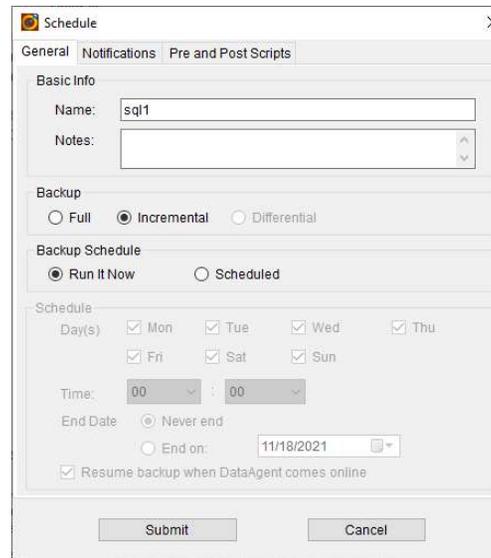
Step 1 – Log into RingStor Explorer

Step 2 – On left pane, select community, DataAgent, and click SQL Database Backup to bring up DataSets in right pane

Step 3 – Right click a DataSet in right pane, click Backup and Recover menu

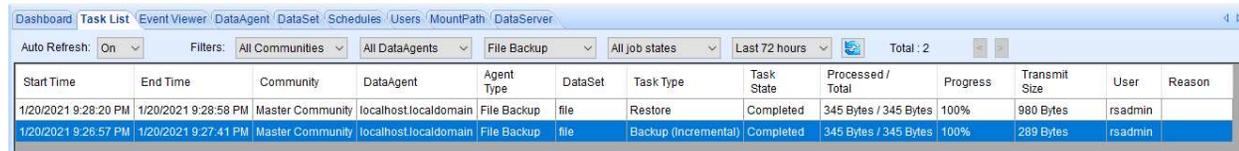
Step 4 – On Backup tab, click Backup button

Step 5 – Set schedule details, notification if needed



Monitor Backup

RingStor Explorer Task List tab shows all jobs



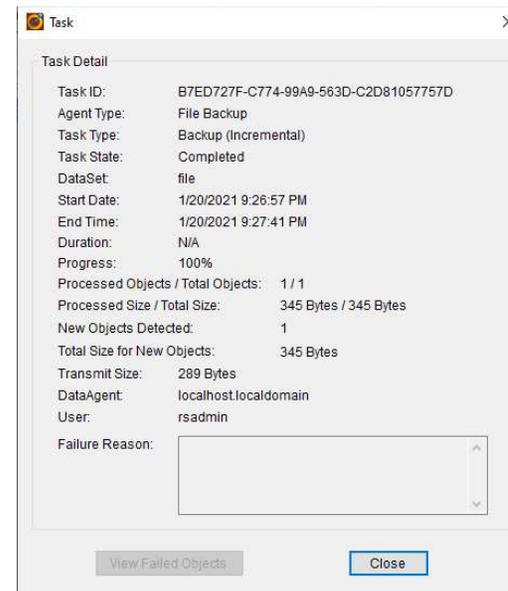
Start Time	End Time	Community	DataAgent	Agent Type	DataSet	Task Type	Task State	Processed / Total	Progress	Transmit Size	User	Reason
1/20/2021 9:28:20 PM	1/20/2021 9:28:58 PM	Master Community	localhost.localdomain	File Backup	file	Restore	Completed	345 Bytes / 345 Bytes	100%	980 Bytes	rsadmin	
1/20/2021 9:26:57 PM	1/20/2021 9:27:41 PM	Master Community	localhost.localdomain	File Backup	file	Backup (Incremental)	Completed	345 Bytes / 345 Bytes	100%	289 Bytes	rsadmin	

Step 1 – Log into RingStor Explorer

Step 2 – Click Task List tab to view recent jobs

Step 3 – Right click a job to view details

Failure Reason: error encountered



Common Failure Reason

Error	Comments	Recommended Action
folder/file does not exist	Backup does not find the file any more when it tries to read it	The file could be a temporary file and got deleted by the time backup tries to read
folder/file cannot be read	Backup cannot read the file	Make sure DataAgent service account has full permission to read the file/folder
content does not exist	The folder/file selected in DataSet does not exist any more	If content is no longer present on DataAgent, remove it from DataSet's selections
content cannot be read	The folder/file selected in DataSet cannot be read	Make sure DataAgent service account has full permission to read the content
content is hidden	The folder/file selected in DataSet is hidden file/folder, but Include hidden folders/files is not enabled	If the hidden content must be backed up, enable "Include hidden folders and files" from DataSet's Filter screen
content is a link	The folder/file selected in DataSet is symbolic link, but Include symbolic link is not enabled	If the symbolic link must be backed up, enable "Include symbolic link" from DataSet's Filter screen
content is a junction	The folder/file selected in DataSet is a junction folder	Junction folder cannot be backed up, remove it from DataSet's selections
task fail to index	The local index for this DataSet on DataAgent is corrupted	The next backup will try to restore index from RingStor Vault. If it fails, log into RingStor Explorer, right click the DataSet, select "Restore Cloud Index to DataAgent"

Logs

RSDataAgent.log - DataAgent service logs

RSAgentFileSystem_<DataSet> - Logs for DataSet. DataSet's name is appended to the log file name

Download Logs

Log into RingStor Explorer, open Task List tab on right pane, right click the job, select Download Logs from DataAgent

