**DR Automation**

**By** [**Vasan Balu**](http://www.sqlservercentral.com/Authors/Scripts/Vasan_Balu/624586/)**, 2017/07/18**

**FROM:** [**http://www.sqlservercentral.com/scripts/Mirroring/132938/?utm\_source=SSC&utm\_medium=pubemail**](http://www.sqlservercentral.com/scripts/Mirroring/132938/?utm_source=SSC&utm_medium=pubemail)

**Automatic Mirroring configuration for newly created user databases**

Instance name:

Principle server  : X

Mirroring Server  : Y

Steps to follow:

1. Create link server between principle server and mirror server with RPC (Remote procedure call) set as true in order to execute the procedure.

           Eg : lnk\_X\_Y\_mirroring (Link server name)

1. Create below stored procedure in to principle server.
2. Schedule this Stored procedure (usp\_Mirroring\_Configuration) with 30mins/1hr interval based on business requirement via job
3. Once the new database created in server mirroring will be configured vis job execution.
4. Alert will be trigger ‘with the name of Mirroring Configuration

Mail content:“Mirroring Configured for db\_55555 and safety level is OFF”

Hope this helps !

Thanks,

Vasan

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-- exec usp\_Mirroring\_Configuration

CREATE PROCEDURE [dbo].[usp\_Mirroring\_Configuration]

AS

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DESCRIPTION: Automatic Mirroring\_Configuration for new databases

AUTHOR: Vasan

DATE WRITTEN: 17 MARCH 2015

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5. Alert will be trigger with the subject anme of Mirroring Configuration

Mail contect:“Mirroring Configured for db\_55555 and safety level is OFF”

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Begin

SET NOCOUNT ON;

IF OBJECT\_ID(N'tempdb..##tbl\_new\_databases') IS NOT NULL

BEGIN

DROP TABLE ##tbl\_new\_databases

END

Declare @dbname nvarchar(max)

Declare @Path nvarchar(500)

Declare @todiskbkp nvarchar(max)

Declare @todisklogbkp nvarchar(max)

Declare @SQL nvarchar(max)

Declare @count SMALLINT

Declare @SQLpartnerprimary nvarchar(max)

Declare @SQLmirror nvarchar(max)

Declare @Mirrorsaftey nvarchar(max)

-- Restore Part Variables

Declare @RestorePath nvarchar(500)

Declare @fromdiskbkp nvarchar(max)

Declare @fromdisklogbkp nvarchar(max)

Declare @SQLrestore nvarchar(max)

Declare @SQLpartnermirror nvarchar(max)

--Mail Part

DECLARE @tableHTML NVARCHAR(MAX) ;

DECLARE @bodyMsg nvarchar(max)

DECLARE @subject nvarchar(max)

SELECT A.name into ##tbl\_new\_databases

FROM

sys.databases A INNER JOIN sys.database\_mirroring B

ON A.database\_id=B.database\_id

WHERE a.database\_id > 4 and B.mirroring\_state is NULL and A.is\_read\_only=0 and state\_desc='ONLINE'

if (Select COUNT(\*) from ##tbl\_new\_databases)>0

Begin

DECLARE DB CURSOR FOR

-- Fetching newly created database to configure mirroring

Select name from ##tbl\_new\_databases

OPEN DB

FETCH NEXT FROM DB INTO @dbname

WHILE @@FETCH\_STATUS=0

BEGIN

-- changing recovery model from Simple to Full for new database since new database created with simple recovery model

set @sql= 'if (SELECT recovery\_model\_desc FROM sys.databases where name = '''+@dbname+''' ) = ''SIMPLE''

begin

Use master

ALTER DATABASE '+@dbname+' SET RECOVERY FULL WITH NO\_WAIT

end'

--print @sql

EXEC master.dbo.sp\_executesql @SQL

-- Setting Backup folder path for primary server

--(Backup should be placed some common path or with in mirror server for easy recovery process) here i chose mirror server local drive

Set @dbname=@dbname

Set @Path='\\Mirror Server Name (Y)\d$\backup\'+@dbname

set @todiskbkp=@Path+'\'+@dbname+'\_'+ replace(CONVERT(VARCHAR(11),GETDATE(),106),' ','')+'.bak'

set @todisklogbkp=@Path+'\'+@dbname+'\_'+ replace(CONVERT(VARCHAR(11),GETDATE(),106),' ','')+'.trn'

-- Creating new backup folder for new db in Mirror server

EXEC master.dbo.xp\_create\_subdir @Path

--Create Database Backups for new db

set @SQL= '

BACKUP DATABASE ' +@dbname+'

TO DISK = '''+@todiskbkp+'''

WITH FORMAT;

BACKUP LOG ' +@dbname+'

TO DISK ='''+@todisklogbkp+'''

WITH FORMAT;

'

--Print @SQL

EXEC master.dbo.sp\_executesql @SQL

--Restoring the new dataabse to Mirror server

-- Setting Restor path for mirror server

Set @RestorePath='D:\backup\'+@dbname

set @fromdiskbkp=@RestorePath+'\'+@dbname+'\_'+ replace(CONVERT(VARCHAR(11),GETDATE(),106),' ','')+'.bak'

set @fromdisklogbkp=@RestorePath+'\'+@dbname+'\_'+ replace(CONVERT(VARCHAR(11),GETDATE(),106),' ','')+'.trn'

--Create the Mirror Database (restoring the new database backup into mirror server)

set @SQLrestore='

RESTORE DATABASE '+@dbname+' FROM DISK = N'''+@fromdiskbkp+''' WITH FILE = 1,

MOVE N'''+@dbname+''' TO N''D:\data\'+@dbname+'.mdf'',

MOVE N'''+@dbname+'\_log'' TO N''D:\log\'+@dbname+'.LDF'',

NORECOVERY, NOUNLOAD, REPLACE, STATS = 10

RESTORE LOG '+@dbname+' FROM DISK = N'''+@fromdisklogbkp+'''

WITH FILE = 1, NORECOVERY, NOUNLOAD, STATS = 10

'

--print @SQLrestore

EXEC lnk\_X\_Y\_mirroring.master.dbo.sp\_executesql @SQLrestore

--Listener Port on mirror server

set @SQLpartnermirror= '

ALTER DATABASE '+@dbname+'

SET PARTNER=''tcp://Domain Name:Port Number'';

'

--print @SQLpartnermirror

EXEC lnk\_X\_Y\_mirroring.master.dbo.sp\_executesql @SQLpartnermirror

--Listener Port on principal server

set @SQLpartnerprimary='

ALTER DATABASE '+@dbname+'

SET PARTNER=''tcp://Domain Name:Port Number'';'

EXEC master.dbo.sp\_executesql @SQLpartnerprimary

--Print @SQLpartnerprimary

--Set Mirroring Operating Mode to “High Performance”

set @Mirrorsaftey='

ALTER DATABASE '+@dbname+' SET SAFETY OFF

'

--print @SQLpartnermirror

EXEC master.dbo.sp\_executesql @Mirrorsaftey

FETCH NEXT FROM DB INTO @DBNAME

END

CLOSE DB

DEALLOCATE DB

EXEC msdb.dbo.sp\_send\_dbmail

@profile\_name = 'DBAProfile',

@recipients = 'xyz@gmail.com',

@subject = 'Mirroring Configuration',

@query='set nocount on SELECT ''Mirroring Configured for ''+ A.name +'' and safety level is ''+ B.[mirroring\_safety\_level\_desc] COLLATE Latin1\_General\_CI\_AI

FROM

sys.databases A

INNER JOIN sys.database\_mirroring B

ON A.database\_id=B.database\_id

WHERE a.database\_id > 4 AND A.name in (Select name from ##tbl\_new\_databases)',

@query\_result\_no\_padding =0,

@query\_result\_width = 32767,

@query\_no\_truncate = 1,

@attach\_query\_result\_as\_file = 0,

@Body\_format = 'text' ,

@append\_query\_error = 1

Drop table ##tbl\_new\_databases

END

END