

Author: Sadrul

Linkedin profile: <https://www.linkedin.com/in/sadrulalom/>

step-1. create file group for cdc

```
USE [master]
GO
ALTER DATABASE [z_dba_test] ADD FILEGROUP [CDC_FG];
GO
```

step-2. add file to cdc file group, if required multiple files then add info by comma separated before "TO FILEGROUP [CDC_FG]"

```
ALTER DATABASE z_dba_test
ADD FILE
(
    NAME = CDC_DATA,
    FILENAME = 'K:\CDC_Data\CDC_DATA.ndf',
    SIZE = 512MB,
    FILEGROWTH = 128MB
)
TO FILEGROUP [CDC_FG];
```

step-3. create login and user for required DB

```
USE [master]
GO
CREATE LOGIN [CDCUserQA] WITH PASSWORD=N'PAh7BfTurNS4RD8Hd5aWtY',
DEFAULT_DATABASE=[master],
CHECK_EXPIRATION=ON, CHECK_POLICY=ON
GO
USE [z_dba_test]
GO
CREATE USER [CDCUserQA] FOR LOGIN [CDCUserQA]
GO
```

step-4. create cdc role for required DB and add above user to the role

```
USE [z_dba_test]
GO
CREATE ROLE [UR_CDC] AUTHORIZATION [dbo]
GO
ALTER ROLE [UR_CDC] add member CDCUserQA;
```

step-5. enable cdc for DB

```
USE [z_dba_test]
GO
EXEC sys.sp_cdc_enable_db
GO
```

step-6. grand permissions to cdc role

```
GRANT SELECT, INSERT, UPDATE, DELETE ON SCHEMA::cdc TO UR_CDC;
```

step-7. enable cdc for single table

```
USE [z_dba_test]
GO
EXEC sys.sp_cdc_enable_table
@source_schema = N'dbo',
@source_name = N'Users_dba',
@role_name = N'UR_CDC',
@filegroup_name = N'CDC_FG',
@supports_net_changes = 0
GO
```

step-8. modify retention if required, default retention 3days/4320 minutes -- unit in MIN

```
select retention,* from msdb.dbo.cdc_jobs where job_type='cleanup'
EXECUTE sys.sp_cdc_change_job @job_type = N'cleanup', @retention = 'required
value in minutes'; OR
--UPDATE msdb.dbo.cdc_jobs SET retention = '666000' WHERE job_type = 'cleanup'
```

--- bulk enable cdc for tables

```
DECLARE @tbl_name VARCHAR(255)
DECLARE @is_enable BIT
DECLARE @db_name VARCHAR(255)='z_dba_test'
DECLARE @role_name VARCHAR(255)='UR_CDC'
DECLARE @FG_name VARCHAR(255)='CDC_FG'
DECLARE @max_scripts VARCHAR(max)=''
DECLARE db_cursor CURSOR FOR
SELECT NAME,
       is_tracked_by_cdc
FROM sys.tables
WHERE NAME IN ( 'tbl_1','tbl_2','tbl_3' )
```

```

OPEN db_cursor
FETCH next FROM db_cursor INTO @tbl_name, @is_enable

WHILE @@FETCH_STATUS = 0
BEGIN
    --print 'CDC enabling...';
    IF @is_enable = 1
    BEGIN
        PRINT 'Already Enabled for ' + @tbl_name;

        --    SET @max_scripts='USE ' + @db_name + ';
        --    SET @max_scripts='EXEC sys.sp_cdc_disable_table '
        --        + '@source_schema = N"dbo";
        --        + '@source_name = ' + @tbl_name + '
        --                                + '@capture_instance = dbo_' +
@tbl_name + ';

        --    PRINT @max_scripts
        --        --exec (@max_scripts)
        --        --set @max_scripts="

    END
ELSE
    BEGIN
        SET @max_scripts='USE ' + @db_name + ';
        SET @max_scripts = 'EXEC sys.sp_cdc_enable_table '
            + '@source_schema = N"dbo";
            + '@source_name = ' + @tbl_name + '
            + '@role_name = ' + @role_name + ','
            + '@filegroup_name = ' + @FG_name + '
            + '@supports_net_changes = 0;

        PRINT @max_scripts
        EXEC (@max_scripts)
        SET @max_scripts=";
    END
    FETCH next FROM db_cursor INTO @tbl_name, @is_enable
END

```

```
CLOSE db_cursor
```

```
DEALLOCATE db_cursor
```