

Re: copy permissions from one user to another?

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*Source:* <http://www.derkeiler.com/Newsgroups/microsoft.public.sqlserver.security/2006-06/msg00126.html>

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- *From:* "Jez" <[reply@xxxxxxxxxxxx](mailto:reply@xxxxxxxxxxxx)>
  - *Date:* Fri, 16 Jun 2006 10:57:33 +0100
- 

cheers greg, will give it a go, looks like the right tool for the job.

Jez.

"Greg Larsen" <[GregLarsen@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:GregLarsen@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message [news:C50E1C22-D7BA-4B90-BAC5-8AD7A3FA0A08@xxxxxxxxxxxxxxxxxxxx](mailto:news:C50E1C22-D7BA-4B90-BAC5-8AD7A3FA0A08@xxxxxxxxxxxxxxxxxxxx)

Here is a SP that will generate the T-SQL to do that. If you have a subscription to SQL Server Magazine I wrote an article about this that can be found here:

[http://www.sqlmag.com/Article/ArticleID/41181/sql\\_server\\_41181.html](http://www.sqlmag.com/Article/ArticleID/41181/sql_server_41181.html)

```
SET QUOTED_IDENTIFIER OFF
GO
SET ANSI_NULLS ON
GO
```

```
/****** Object: Stored Procedure
dbo.USP_GEN_USER_RIGHTS_BASED_ON_EXISTING_LOGIN Script Date: 10/21/2002
6:56:14 AM *****/
```

```
CREATE PROCEDURE USP_GEN_USER_RIGHTS_BASED_ON_EXISTING_LOGIN
@OLDLOGIN VARCHAR(200), -- EXISTING LOGIN NAME
@NEWLOGIN VARCHAR(200), -- NEW LOGIN NAME
@NEWUSER CHAR(128) , -- NEW USER NAME FOR EACH DATABASE
@PASSWORD VARCHAR(200) =" -- PASSWORD FOR SQL SERVER
AUTHENTICATED USERS
AS
--
```

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-- WRITTEN BY: GREG LARSEN FOR WASHINGTON STATE DEPARTMENT OF HEALTH

-- DATE: DECEMBER 13, 2001

--

-- DESCRIPTION: THIS STORED PROCEDURE GENERATES COMMANDS THAT WILL ADD A NEW USERS TO THE SERVER WITH THE SAME RIGHTS AS AN EXISTING USER.

--

-- UPDATE HISTORY:

-- DATE: OCTOBER 21, 2002

-- FIXED PROBLEMS WITH STATEMENT LEVEL PERMISSIONS GRANTING.

--

-- BEGIN CALLOUT A

-- Declare variables and create temporary table to hold commands

---

DECLARE @INDX INT

SET NOCOUNT ON

DECLARE @TEXT CHAR(100)

DECLARE @CNT INT

DECLARE @CMD NVARCHAR(200)

DECLARE @DB NVARCHAR(128)

DECLARE @OLDUSER VARCHAR(100)

--

-- CREATE TABLE TO HOLD GENERATED COMMANDS

--

CREATE TABLE #TMP\_LOGIN\_RIGHTS (  
RIGHTS\_TEXT CHAR(2000))

-- END CALLOUT A

-- BEGIN CALLOUT B

-- ADD USER TO SERVER

---

-- TEST TO SEE IF #OLDLOGIN EXISTS ON SERVER

--

SELECT @CNT=COUNT(\*) FROM [MASTER].[DBO].[SYSLOGINS] WHERE  
LOGINNAME =

@OLDLOGIN

IF @CNT = 0

BEGIN

RAISERROR ('@OLDLOGIN IS NOT A VALID USER OF SQL SERVER',16,1)

RETURN

END

--

-- DETERMINE IF @NEWLOGIN IS ALREADY DEFINED TO SERVER

--

SELECT @CNT=COUNT(\*) FROM [MASTER].[DBO].[SYSLOGINS] WHERE  
LOGINNAME =

@NEWLOGIN

--

-- IF @NEWLOGIN EXIST ABORT

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```
--
IF @CNT > 0
BEGIN
RAISERROR('@NEWLOGIN ALREADY EXISTS ON SQL SERVER', 16,1)
RETURN
END
--
-- IF @NEWLOGIN CONTAINS '\' THEN NT LOGIN
--
SELECT @INDX=CHARINDEX('\',@NEWLOGIN)
IF @INDX > 0
--
-- GENERATE COMMANDS TO ADD NT USER
--
INSERT INTO #TMP_LOGIN_RIGHTS SELECT 'EXECUTE
[MASTER].[DBO].[SP_GRANTLOGIN] [' + @NEWLOGIN + ']'
+ CHAR(13)+
'EXECUTE [MASTER].[DBO].[SP_DEFAULTDB] [' + @NEWLOGIN + '],[' +
RTRIM(DBNAME) + ']' AS RIGHTS_TEXT
FROM [MASTER].[DBO].[SYSLOGINS]
WHERE LOGINNAME = @OLDLOGIN
ELSE
BEGIN
IF @PASSWORD = "
BEGIN
RAISERROR('@PASSWORD MUST BE SPECIFIED FOR SQL SERVER
AUTHENTICATION',
16,1)
RETURN
END -- @PASSWORD = "
--
-- GENERATE COMMANDS TO ADD SQL SERVER AUTHENTICATION USER
--
INSERT INTO #TMP_LOGIN_RIGHTS SELECT 'EXECUTE
[MASTER].[DBO].[SP_ADDLOGIN] [' + @NEWLOGIN +
'],[' + @PASSWORD + ']' + CHAR(13)+
'EXECUTE [MASTER].[DBO].[SP_DEFAULTDB] [' + @NEWLOGIN + '],[' +
RTRIM(DBNAME) + ']' AS RIGHTS_TEXT
FROM [MASTER].[DBO].[SYSLOGINS]
WHERE LOGINNAME = @OLDLOGIN
END

-- END CALLOUT B
-- BEGIN CALLOUT C
-- ADD USER TO DATABASES
-----
SET NOCOUNT ON
SET @CMD= '[MASTER].[DBO].[SP_HELPUSER]'
--
-- GET THE NAME OF ALL DATABASES
--
```

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```
DECLARE ALLDATABASES CURSOR FOR
SELECT NAME FROM [MASTER].[DBO].[SYSDATABASES]

OPEN ALLDATABASES
FETCH NEXT FROM ALLDATABASES INTO @DB
--
-- CREATE TABLE TO HOLD LIST OF USERS IN CURRENT DATABASE
--
CREATE TABLE #TMPUSERS (
  USERNAME VARCHAR(100),
  GROUPNAME VARCHAR(100),
  LOGINNAME VARCHAR(100),
  DEFDBNAME VARCHAR(100),
  USERID SMALLINT,
  SUSERID SMALLINT
)
WHILE (@@FETCH_STATUS = 0)
BEGIN
  --
  -- COMMAND TO RETURN ALL USERS IN DATABASE
  --
  SET @CMD = '[' + @DB + ']' + '[DBO].[SP_HELPUSER]'
  --
  -- GET ALL USERS IN DATABASE INTO TEMPORARY TABLE
  --
  INSERT INTO #TMPUSERS EXEC (@CMD)
  --
  -- DETERMINE WHETHER OLD USER IS IN DATABASE
  --
  SELECT @CNT = COUNT(*) FROM #TMPUSERS WHERE LOGINNAME =
  @OLDLOGIN
  --
  -- IF OLD USER IS IN DATABASE THEN ADD NEW USER TO DATABASE
  --
  IF @CNT > 0
  BEGIN
    --
    -- DETERMINE IF @NEWUSER ALREADY EXIST IN DATABASE
    --
    SELECT @CNT = COUNT(*) FROM #TMPUSERS WHERE USERNAME =
    @NEWUSER
    --
    -- IF USER EXIST ABORT
    --
    IF @CNT > 0
    BEGIN
      --
      -- CLOSE AND DEALLOCATE CURSOR OF DATABASES SO NEXT TIME AROUND
      NO
      ERROR OCCURS
      --
    
```

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```
CLOSE ALLDATABASES
DEALLOCATE ALLDATABASES
--
-- SET TEXT OF ERROR MESSAGE
--
SET @TEXT = '@NEWUSER ALREADY EXIST IN DATABASE ' + @DB
-- RAISE ERROR AND RETURN
RAISERROR(@TEXT,16,1)
RETURN
END
--
-- GENERATE COMMAND TO ADD @NEWLOGIN TO CURRENT DATABASE
--
INSERT INTO #TMP_LOGIN_RIGHTS SELECT 'EXECUTE [' + @DB +
'].[DBO].[SP_GRANTDBACCESS] [' +
@NEWLOGIN +
'],' + RTRIM(@NEWUSER) + ']' AS RIGHTS_TEXT
FROM (
SELECT DISTINCT USERNAME, LOGINNAME
FROM #TMPUSERS
WHERE LOGINNAME = @OLDLOGIN )A
END
--
-- TRUNCATE TABLE FOR NEXT DATABASE
--
TRUNCATE TABLE #TMPUSERS

--
-- GET NEXT DATABASE
--
FETCH NEXT FROM ALLDATABASES INTO @DB
END -- WHILE (@@FETCH_STATUS = 0)
--
-- CLOSE CURSOR OF DATABASES
--
CLOSE ALLDATABASES
-- END CALLOUT C
-- BEGIN CALLOUT D
-- GRANT USER TO ROLES WITHIN DATABASES
-----
OPEN ALLDATABASES
FETCH NEXT FROM ALLDATABASES INTO @DB
WHILE (@@FETCH_STATUS = 0)
BEGIN
--
-- SET COMMAND TO FIND USER PERMISSIONS HAS IN CURRENT DATABASE
--
SET @CMD = '[' + @DB + '].[DBO].[SP_HELPUSER]'
--
-- EMPTY TEMPORARY TABLE #TMPUSERS
--
```

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```
TRUNCATE TABLE #TMPUSERS
--
-- GET USER PERMISSIONS FOR ALL USERS IN CURRENT DATABASE
--
INSERT INTO #TMPUSERS EXEC (@CMD)
--
-- DETERMINE WHETHER THE OLD USER IS IN A ROLE
--
SELECT @CNT = COUNT(*) FROM #TMPUSERS WHERE LOGINNAME =
@OLDLOGIN AND
GROUPNAME <> 'PUBLIC'
--
-- IF OLD USER IS IN A ROLE THEN ADD NEW USER TO THAT ROLE
--
IF @CNT > 0
--
-- GENERATE COMMANDS TO ADD @NEWUSER TO APPROPRIATE ROLES IN
CURRENT
DATABASE
--
INSERT INTO #TMP_LOGIN_RIGHTS SELECT DISTINCT 'EXECUTE [' + @DB +
'].[DBO].[SP_ADDROLEMEMBER] [' + RTRIM(A.GROUPNAME) +
'],[' + RTRIM(@NEWUSER) + ']' AS RIGHTS_TEXT
FROM #TMPUSERS A
WHERE A.LOGINNAME = @OLDLOGIN AND A.GROUPNAME <>
'PUBLIC'
--
-- GET NEXT DATABASE
--
FETCH NEXT FROM ALLDATABASES INTO @DB
END -- WHILE (@@FETCH_STATUS = 0)
CLOSE ALLDATABASES
DROP TABLE #TMPUSERS
-- END CALLOUT D
-- BEGIN CALLOUT E
-- GRANT USER ACCESS TO SERVER ROLES
-----
-- CREATE TABLE TO HOLD SERVER ROLES
--
CREATE TABLE #TMPSRVROLES (
SERVERROLE VARCHAR(100),
MEMBERNAME VARCHAR(100),
MEMBERSID VARBINARY (85))
--
-- COMMAND TO GET SERVER ROLES
--
SET @CMD = '[MASTER].[DBO].[SP_HELPsrvROLEMEMBER]'
--
-- GET SERVER ROLES INTO TEMPORARY TABLE
--
INSERT INTO #TMPSRVROLES EXEC (@CMD)
```

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```
--
-- DETERMINE WHETHER THE OLD USER IS IN A SERVER ROLE
--
SELECT @CNT = COUNT(*) FROM #TMPSRVROLES WHERE MEMBERNAME =
@OLDLOGIN
--
-- IF OLD USER IS IN A ROLE THEN ADD NEW USER TO THAT SERVER ROLE
--
IF @CNT > 0
--
-- GENERATE COMMANDS TO ADD @NEWLOGIN INTO THE APPROPRIATE
SERVER ROLES
--
INSERT INTO #TMP_LOGIN_RIGHTS SELECT 'EXECUTE
[MASTER].[DBO].[SP_ADDSRVROLEMEMBER] ' + '[' +
RTRIM(@NEWLOGIN) + ']' +
',' + RTRIM(A.SERVERROLE) + ']' AS RIGHTS_TEXT
FROM #TMPSRVROLES A
WHERE A.MEMBERNAME = @OLDLOGIN
--
-- DROP SERVER ROLE TABLE
--
DROP TABLE #TMPSRVROLES
-- END CALLOUT E
-- BEGIN CALLOUT F
-- GRANT USER PERMISSIONS TO OBJECTS AND STATEMENTS
-----
-- CREATE TEMPORARY TABLE TO HOLD INFORMATION ABOUT OBJECTS
PERMISSIONS
--
CREATE TABLE #TMPPROTECT (
OWNER VARCHAR(100),

OBJECT VARCHAR(100),
GRANTEE VARCHAR(100),
GRANTOR VARCHAR(100),
PROTECTTYPE CHAR(10),
ACTION VARCHAR(20),
COLUMNX VARCHAR(100))

OPEN ALLDATABASES
SET @CMD = 'SELECT @OLDUSER=NAME FROM [' + @DB +
'].[DBO].[SYSUSERS] WHERE SID = (SELECT SID FROM
[MASTER].[DBO].[SYSLOGINS] WHERE LOGINNAME = ' +
CHAR(39) + @OLDLOGIN + CHAR(39) + ')'
FETCH NEXT FROM ALLDATABASES INTO @DB
WHILE (@@FETCH_STATUS = 0)
BEGIN
--
-- INITIALIZE @OLDUSER VARIABLE
--
```

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```
SET @OLDUSER = "  
--  
--GENERATE COMMAND TO SET @OLDUSER TO THE USER NAME IN  
DATABASE  
-- IF @OLDLOGIN HAS ACCESS TO CURRENT DATABASE  
--  
SET @CMD = 'SELECT @OLDUSER=NAME FROM [' + @DB +  
'].[DBO].[SYSUSERS] WHERE SID = (SELECT SID FROM  
[MASTER].[DBO].[SYSLOGINS] WHERE LOGINNAME = ' +  
CHAR(39) + @OLDLOGIN + CHAR(39) + )'  
--  
-- EXECUTE COMMAND TO SET @OLDUSER TO THE USER NAME IN DATABASE  
-- IF @OLDLOGIN HAS ACCESS TO CURRENT DATABASE  
--  
EXEC [MASTER].[DBO].[SP_EXECUTESQL] @CMD,N'@OLDUSER CHAR(200)  
OUTPUT',@OLDUSER OUT  
--  
-- IF @OLDUSER IS NOT BLANK THEN @OLDLOGIN HAS ACCESS TO CURRENT  
DATABASE  
--  
IF @OLDUSER <> "  
BEGIN  
--  
-- GENERATE COMMAND TO GET OBJECT PERMISSIONS FOR CURRENT  
DATABASE  
--  
SET @CMD = '[' + @DB + '].[DBO].[SP_HELPROTECT]'  
--  
-- GET OBJECT PERMISSIONS INTO TEMPORARY TABLE  
--  
INSERT INTO #TMPPROTECT EXEC (@CMD)  
--  
-- DETERMINE IF THERE ARE ANY OBJECT PERMISSIONS FOR @OLDUSER  
--  
SELECT @CNT = COUNT(*) FROM #TMPPROTECT WHERE GRANTEE =  
@OLDUSER  
IF @CNT > 0  
--  
-- SWITCH TO THE APPROPRIATE DATABASE  
--  
INSERT INTO #TMP_LOGIN_RIGHTS SELECT 'USE [' + @DB + ']'  
--  
-- GENERATE COMMANDS TO GRANT OBJECTS PERMISSIONS FOR  
REFERENCES, SELECT,  
UPDATE TO @NEWUSER  
--  
  
INSERT INTO #TMP_LOGIN_RIGHTS  
SELECT CASE WHEN RTRIM(PROTECTTYPE) = 'GRANT_WGO'  
THEN  
'GRANT ' +
```

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```
ACTION +' ON [' +
@DB + '].[' + OWNER + '].[' + OBJECT +
'] TO [' + RTRIM(@NEWUSER) + '] +' WITH GRANT
OPTION'
ELSE
'GRANT ' +
ACTION +' ON [' +
@DB + '].[' + OWNER + '].[' + OBJECT +
'] TO [' + RTRIM(@NEWUSER) + ']'
END AS RIGHTS_TEXT
FROM #TMPPROTECT WHERE GRANTEE = @OLDUSER AND OBJECT <> '!'
AND COLUMNX = '(ALL+NEW)'
--
-- GRANT COLUMN PERMISSION ON OBJECTS
--
INSERT INTO #TMP_LOGIN_RIGHTS
SELECT CASE WHEN RTRIM(PROTECTTYPE) = 'GRANT_WGO'
THEN
'GRANT ' +
ACTION +' ON [' +
@DB + '].[' + OWNER + '].[' + OBJECT +
']([' + COLUMNX + '])' +
' TO [' + RTRIM(@NEWUSER) + '] +' WITH GRANT
OPTION'
ELSE
'GRANT ' +
ACTION +' ON [' +
@DB + '].[' + OWNER + '].[' + OBJECT +
']([' + COLUMNX + '])' +
' TO [' + RTRIM(@NEWUSER) + ']'
END AS RIGHTS_TEXT
FROM #TMPPROTECT WHERE GRANTEE = @OLDUSER
AND OBJECT <> '!' AND COLUMNX <> '(ALL+NEW)'
AND COLUMNX <> '!'
--
-- GRANT INSERT, DELETE, AND EXECUTE PERMISSION ON OBJECTS
--
INSERT INTO #TMP_LOGIN_RIGHTS
SELECT CASE WHEN RTRIM(PROTECTTYPE) = 'GRANT_WGO'
THEN
'GRANT ' +
ACTION +' ON [' +
@DB + '].[' + OWNER + '].[' + OBJECT +
'] TO [' + RTRIM(@NEWUSER) + '] +' WITH GRANT
OPTION'
ELSE
'GRANT ' +
ACTION +' ON [' +
@DB + '].[' + OWNER + '].[' + OBJECT +
'] TO [' + RTRIM(@NEWUSER) + ']'
END AS RIGHTS_TEXT
```

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```
FROM #TMPPROTECT WHERE GRANTEE = @OLDUSER AND OBJECT <> '!' AND
ACTION IN ('INSERT', 'DELETE', 'EXECUTE') AND COLUMNX = '!'
--
-- GRANT STATEMENT PERMISSIONS
--
--
INSERT INTO #TMP_LOGIN_RIGHTS
SELECT 'GRANT ' +
ACTION +
' TO [' + RTRIM(@NEWUSER) + ']'
AS RIGHTS_TEXT
FROM #TMPPROTECT WHERE GRANTEE = @OLDUSER AND OBJECT = '!'

--
-- REMOVE RECORDS FOR TEMPORARY TABLE IN PREPARATION FOR THE
NEXT DATABASE
TO BE PROCESSES
--
TRUNCATE TABLE #TMPPROTECT
END
--
-- GET NEXT DATABASE TO PROCESS
--
FETCH NEXT FROM ALLDATABASES INTO @DB
END -- WHILE (@@FETCH_STATUS = 0)
--
-- CLOSE AND DEALLOCATE DATABASE LIST CURSOR
--
CLOSE ALLDATABASES
DEALLOCATE ALLDATABASES
--
-- DROP TEMPORARY TABLE THAT HELD OBJECT PERMISSIONS
--
DROP TABLE #TMPPROTECT
-- END CALLOUT F
-- BEGIN CALLOUT G
-- PROCESS ALL GENERATED COMMANDS ONE AT A TIME
-----
--
-- GET ALL THE GENERATED COMMANDS
--
DECLARE COMMANDS CURSOR FOR
SELECT * FROM #TMP_LOGIN_RIGHTS

OPEN COMMANDS
FETCH NEXT FROM COMMANDS INTO @CMD
WHILE (@@FETCH_STATUS = 0)
BEGIN
--
```

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```
-- PRINT COMMAND TO BE PROCESSED
--
PRINT @CMD
--
-- UNCOMMENT IF YOU WANT THE STORED PROCEDURE TO EXECUTE THE
COMMANDS TO
ADD
THE PERMISSIONS
--
--EXEC (@CMD)
--
-- GET NEXT COMMAND
--
FETCH NEXT FROM COMMANDS INTO @CMD
END -- WHILE (@@FETCH_STATUS = 0)
--
-- CLOSE AND DEALLOCATE COMMAND CURSOR
--
CLOSE COMMANDS
DEALLOCATE COMMANDS
--
-- DROP TABLE THAT HELD THE GENERATED RIGHTS THAT WERE GRANTED
TO
@NEWLOGIN
--
DROP TABLE #TMP_LOGIN_RIGHTS

-- END CALLOUT G

GO
SET QUOTED_IDENTIFIER OFF
GO
SET ANSI_NULLS ON
GO
```

"Jez" wrote:

Hi-

Is it possible in SQL 2000 to copy the permissions assigned to one database user(a windows group in this instance) to another user using a script,sp,query etc.

Thanks,

Jez.

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