

RE: Security context of stored procedure

Source: <http://www.derkeiler.com/Newsgroups/microsoft.public.sqlserver.security/2004-03/0036.html>

From: Baisong Wei[MSFT] (v-baiwei_at_online.microsoft.com)

Date: 03/02/04

Date: Tue, 02 Mar 2004 07:58:46 GMT

Hi Ali,

Thank you for using the newsgroup and it is my pleasure to help you with you issue.

Before I give an explanation, I should give an sample first.

Suppose there are three users in a database TEST_CHAIN, which has a table 'AUTHORS':

test_sp1: the db_owner

test_sp2: a common user, who have no SELECT permission on table 'AUTHORS'

test_sp3: not a dbo, but he is in the role of db_dlladmin and could select data from 'AUTHORS'

you could login into the database from QA by 'test_sp1' and create a simple stored procedure:

```
use test_chain
go
create proc au_all
as
select * from authors
```

--then grant au_all to test_sp2

```
grant exec
on
au_all
to
test_sp2
go
```

--You could run 'exec sp_help au_all', its owner is 'test_sp1'

Then you could login into the database from QA by 'test_sp3' and create a simple stored procedure:

```
use test_chain
go
```

```
create proc au_all2
as
select * from authors
```

```
--then, also grant it to test_sp2
grant exec
on
au_all
to
test_sp2
go
```

--You could run 'exec sp_help au_all2', its owner is 'test_sp3'

When login into the database from QA by the 'test_sp2', when you run 'select * from authors', you will get error message:
SELECT permission denied on object 'authors', database 'test_chain', owner 'dbo'.

When you run 'exec dbo.au_all', you will get all the record in the table 'AUTHORS'

When you run 'exec test_sp3.au_all2', you will get the error message:
SELECT permission denied on object 'authors', database 'test_chain', owner 'dbo'.

As my understanding of the question, if the storedProc1 is running by UserA. There is some scenario:

Typically, the owner of a stored procedure also owns the underlying objects (other views or tables), when grant permissions to the stored procedure to a user (test_sp2), it will have all the permission defined in the stored procedure (as the dbo). SQL Server will not check the permission of the test_sp2. You should be sure when grant permissions to others. If the permission grant process will involve the object (such as the owner of the table 'AUTHORS' is not test_sp3, but user 'test_sp3' grant the stored procedure 'au_all2' which will select the 'Authors' to user 'test_sp2), it will check the permission of the user on this object.

Hope this helps and if you still have questions, please feel free to post your message here and I am glad to help.
Thanks

Baisong Wei
Microsoft Online Support

Get Secure! – www.microsoft.com/security
This posting is provided "as is" with no warranties and confers no rights.
Please reply to newsgroups only. Thanks.