

## Re: System Administrator Implied Permissions

**Source:** <http://www.derkeiler.com/Newsgroups/microsoft.public.sqlserver.security/2003-03/1105.html>

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**From:** Jose Molina ([jmolina4@cox.net](mailto:jmolina4@cox.net))

**Date:** 03/31/03

From: "Jose Molina" <[jmolina4@cox.net](mailto:jmolina4@cox.net)>

Date: Sun, 30 Mar 2003 18:45:27 -0800

Hi Dan,

Thanks for the clarification. Just to make sure I understand you correctly: when sql server 'creates' the sa login, it assigns it the System Administrator fixed server role. It also assigns it to the public role of all databases (understandable) and has the boxes checked for the db\_owner fixed database role (which is what I am questioning). If I understand what you are saying, then the literal assignment to the db\_owner role is redundant in this case because as an administrator, you are a member of the dbo group and you are automatically given db\_owner rights to every database(whether or not the db\_owner box is checked).

Whew... lots to say...

Now, given this (if indeed true), why does SQL Server display this redundant information? Is there something I am missing?

Much Thanks Dan.

-Jose

>-----Original Message-----

>Jose, I think I understand your question better now.

When you view

>login security in Enterprise Manager, the GUI will show that logins

>mapped to the 'dbo' user are members of the public and db\_owner roles.

>This means that the 'dbo' user is a member of the db\_owner role and

>'dbo' (like all users) is a member of the public role.

>

>Permissions are not checked for sysadmin role members so

all other role

>memberships and permissions are irrelevant

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>--

>Hope this helps.

>

>Dan Guzman

>SQL Server MVP

>

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>"Jose Molina" <[jmolina4@cox.net](mailto:jmolina4@cox.net)> wrote in message

>news:007b01c2f6ef\$3b5f4c0\$a201280a@phx.gbl...

>> Hi Dan,

>> I am aware of this but I still need a little more

>> clarification. As an example: Does the db\_owner fixed

>> database role need to be assigned to any sysadmin role?

>> I was under the impression that this role was implied.

>>

>> Please advise.

>>

>> Thanks!

>>

>> -Jose

>> >-----Original Message-----

>> >> SQL Server initially creates the 'sa' user. Isn't  
the

>> >> db\_owner an implied permission for the fixed server

>> role

>> >> System Administrator anyway? If this is the case,  
why

>> >> the redundancy?

>> >

>> >Members of the sysadmin role are automatically mapped  
to

>> the 'dbo' user

>> >in all databases. This is somewhat different that

being

>> a db\_owner

>> >fixed database role member because the 'dbo' user can

>> also perform

>> >functions on the owned database outside the database

>> context, such as

>> >DROP DATABASE.

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>> >--

>> >Hope this helps.

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>> >Dan Guzman

>> >SQL Server MVP

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>> > *SQL FAQ links (courtesy Neil Pike):*  
>> >  
>> > [http://www.ntfaq.com/Articles/Index.cfm?  
DepartmentID=800](http://www.ntfaq.com/Articles/Index.cfm?DepartmentID=800)  
>> > <http://www.sqlserverfaq.com>  
>> > <http://www.mssqlserver.com/faq>  
>> > -----  
>> >  
>> > "Jose Molina" <[jmolina4@cox.net](mailto:jmolina4@cox.net)> wrote in message  
>> > news:002601c2f68b\$0fce98c0\$3401280a@phx.gbl...  
>> >> Hello,  
>> >> I had a question concerning the database permissions  
>> SQL  
>> >> Server checks for the 'sa' role. The db\_owner fixed  
>> >> database role is checked for each of the databases  
when  
>> >> SQL Server initially creates the 'sa' user. Isn't  
the  
>> >> db\_owner an implied permission for the fixed server  
>> role  
>> >> System Administrator anyway? If this is the case,  
why  
>> >> the redundancy?  
>> >>  
>> >> Thanks!  
>> >>  
>> >> -Jose  
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