

## Re: SQL Server Agent Proxy Account / XP\_CMDSHELL

**Source:** <http://www.derkeiler.com/Newsgroups/microsoft.public.sqlserver.security/2005-05/0155.html>

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**Date:** 05/28/05

Date: Fri, 27 May 2005 18:53:18 -0500

> *In reasearching this issue I should be able to set the sql server agent  
> proxy account and then my user should be able to run the batch file that  
> runs  
> the osql that calls the sp that runs the xp\_cmdshell – correct?*

The proxy account is unrelated to SQL Server object permissions. A user must have xp\_cmdshell execute permissions when xp\_cmdshell executed directly. The proxy account is used as the OS security context when xp\_cmdshell is invoked by non-sysadmin role members.

The technique below shows how to implement an unbroken ownership chain to xp\_cmdshell so that you can provide xp\_cmdshell functionality without direct execute permissions on xp\_cmdshell.

- 1) Create a dbo-owned user proc in an sa-owned database that executes xp\_cmdshell. Code the proc in such a way that only the intended command can be executed and unintended code can't be injected.
- 2) Enable the 'db chaining' option (a.k.a. cross-database chaining) in your user database. Note that this should be done when only sysadmin role members can create dbo-owned objects in that database.

Also, there may be better ways to accomplish the task than xp\_cmdshell. You might provide details on what you are trying to do in case someone has a better idea.

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Hope this helps.

Dan Guzman

SQL Server MVP

"John - PDX" <[JohnPDX@discussions.microsoft.com](mailto:JohnPDX@discussions.microsoft.com)> wrote in message  
news:41966260-1C3D-4208-B4B7-573CAA519E35@microsoft.com...

> Thanks in advance.

>

> I am trying to run the xp\_cmdshell and am calling it with osql from a  
> batch

> file for a user. I have set the sql server agent proxy account with an

> account that is both a domain admin & sql sysadmin (in our dev lab only)

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> and  
> still I get EXECUTE permission denied.  
>  
> I can make the user a sysadmin for test purposes only and all works fine.  
> I  
> can also go directly to the xp\_cmdshell permissions, give the user execute  
> permissions and all works OK there as well.  
>  
> In reasearching this issue I should be able to set the sql server agent  
> proxy account and then my user should be able to run the batch file that  
> runs  
> the osql that calls the sp that runs the xp\_cmdshell - correct?  
> --  
> Thanks,  
> John