

Cannot access SQL - The EXECUTE permission was denied on the object 'xp_msver', database 'mssqlsystemresource', schema 'sys'

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Issue

Non-admin users are not able to access the Azure SQL Managed Instance. Error returned:

The EXECUTE permission was denied on the object 'xp_msver', database 'mssqlsystemresource', schema 'sys'

Investigation/Analysis

When a user logs on a Managed Instance through SSMS, multiple queries are executed to populate the user interface. One of them is xp_msver, that returns the SQL version and build.

xp_msver is accessible by any user that belongs to the public role, as we have documented on the [public doc](#) .

The error returned means that the public role doesn't have execute permissions on this stored procedure.

The permissions on this stored procedure can be seen by running the following query:

```
select object_id(major_id), *  
from sys.database_permissions dp join master.sys.sysobjects so on so.id = dp.major_id  
where dp.grantee_principal_id = 0 and so.name like '%xp_msver%'
```

If the public role doesn't have EXECUTE permissions on this stored procedure, most likely the customer removed the permission.

Mitigation

Give execute permissions back to the public role.

```
grant execute on master.sys.xp_msver to public
```

Internal reference

[315476518](#) 

[235897867](#) 

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