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1. How to fix orphaned users
2. Client unable to connect to the server(Case: If everything is fine about TCP/IP protocol and its port and SQL browser service also)

**When we will get this problems:**

Chance 1) we will see these problems in Non-Production servers after restoring production database backups.

**Why we will get this problem:** Each instance/server has its own SID for each login/user

Suppose:

Server Name: Server 1(production Server)

Database Name: TestDB

User/Login Name: Domain/Neal

SID: 0x90FD605DCEFAE14FAB4D5EB0BBA1AECC

Server Name: Server 2(NON production Server)

Database Name: TestDB

User/Login Name: Domain/Neal

SID: 0x90FD605DCEFAE14FAB4D5EB0BBA1BCDE

If you restore TestDB in server 2 with testDB backup of server1. Domain/Neal user will become orphand user in server2.

**Answers:**

Ans 1) Delete the user and create it again

Limitation: User/Client has to be share passwords with DBA

Ans 2)

EXEC sp\_change\_users\_login 'Report'

--It will report the orphaned users

EXEC sp\_change\_users\_login 'Auto\_Fix', 'domain/Neal'

----It will fix the orphaned users permanently

**Work Around:**

Take the any database backup and restore it in different instance and try to connect with the user in SQL MGT STUDIO.

1. How to Transfer Logins from One Instance to Other Instance

**When it is required:**

**1)** In new environment (New Server)

**2**) Up gradations (From lower version to higher versions)

(In above both cases no need to create each user in new environments, please fallow below steps)

**Answers:**

Ans 1)

Step1: Run the below script in master database in old environment.



Step 2: Run the below script in master database in old environment in another window

EXEC sp\_help\_revlogin

It will give the all login details of the old server. Example like

-- Login: Domain\Neal1

CREATE LOGIN [Domain\Neal1] FROM WINDOWS WITH DEFAULT\_DATABASE = [master]

-- Login: Neal2

CREATE LOGIN [Neal2] WITH PASSWORD = 0x0200D9BB666D58D91640BAE04A85FB3AF3683565AD5AAEE039BAEC1CD73D42C48765A286FF0CD3FB3ACB25C53AE255800DEEF32557B19D9A7241F2C5078CCEDEA08960769448 HASHED, SID = 0x3DC1527DFB447E4C8CFD5E872A0963F9, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF

Note1: Domain\Neal1 is windows Login and Neal2 is SQL Authentication Login

Step 3: Run the above scripts in new server in mgt studio

-- Login: Domain\Neal1

CREATE LOGIN [Domain\Neal1] FROM WINDOWS WITH DEFAULT\_DATABASE = [master]

-- Login: Neal2

CREATE LOGIN [Neal2] WITH PASSWORD = 0x0200D9BB666D58D91640BAE04A85FB3AF3683565AD5AAEE039BAEC1CD73D42C48765A286FF0CD3FB3ACB25C53AE255800DEEF32557B19D9A7241F2C5078CCEDEA08960769448 HASHED, SID = 0x3DC1527DFB447E4C8CFD5E872A0963F9, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF

You can check SID’s by using below query in each server/instance

SELECT name,sid,\*

FROM sys.server\_principals

Feel free to ask doubts in this document

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