

# SQL Server General Document

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**Note: Old name for the software was Preactor and new name is Opcenter APS.**

## APS.Category: SQL

Configuring Remote Database for Opcenter APS Application.

(Meaning: Opcenter APS application & SQL Database Engine are going to separated)

SQL Server Authentication error.

Refer Section: SA Login to the provide / Installed SQL Server

**Reason for the issue:** This activity has been performed for organizing database infra-structure.

### Steps to Resolve the issue:

#### Perquisites Need:

1. Install SQL Server
2. SQL Server SA Login
3. Kindly check the connectivity form the Opcenter APS server and SQL Server

How to do a ping Test for checking the connectivity?

**Step 1:** Open command prompt by going to the path:

“C:\WINDOWS\system32”

Open file name cmd.exe

 cmd.exe	15-09-2018 12:58 ...	Application	272 KB
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After opening it, it looks something like this in the below screenshot.

```

Command Prompt
Microsoft Windows [Version 10.0.17763.379]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\karthick>

```

**Step 2:** In the console type “Ping \*.\*.\*.\*”

Note : \*.\*.\*.\* must be replaced with the Machine Ip address of SQL Server Machine.

For a successful ping the message will be looks something like this in the below screenshot,

```

C:\Users\karthick>ping 192.168.2.1

Pinging 192.168.2.1 with 32 bytes of data:
Reply from 192.168.2.1: bytes=32 time=7ms TTL=63
Reply from 192.168.2.1: bytes=32 time=2ms TTL=63
Reply from 192.168.2.1: bytes=32 time=15ms TTL=63
Reply from 192.168.2.1: bytes=32 time=2ms TTL=63

Ping statistics for 192.168.2.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 15ms, Average = 6ms

C:\Users\karthick>

```

The Failed one will look something like this in the below screenshot,

```

C:\Users\karthick>ping 192.168.2.200

Pinging 192.168.2.200 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.2.200:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

```

Kindly contact the system administrator for physical connection between client and the server

For instance:

Machine A – Opcenter APS Server

Machine B – SQL Server

Step that need to be followed in the Machine B

**Step 1:** Open “Microsoft SQL Server Management Studio”

**Step 2:** After Opening, a pop-up window will be appearing to connect to the database server

**Prerequisite for connecting to a database server,**

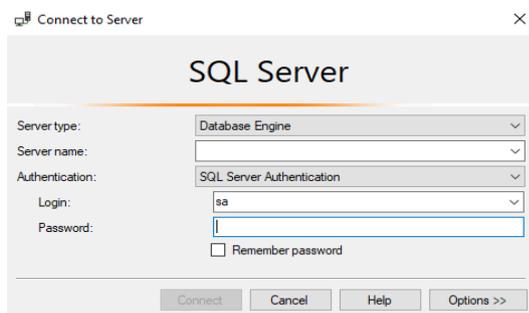
Server type: Database Engine

Server Name: click on the drop-down button to view on the servers

Authentication: should be in SQL Server Authentication

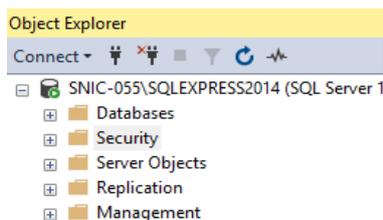
Login: (\*Required)

Password: (\*Required)

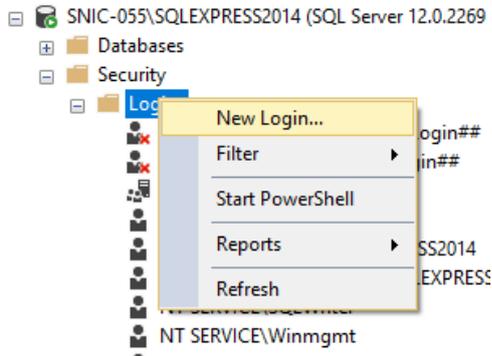


**Step 3:** On the top left side you will be able to see the object explorer, expand “the Security folder”.

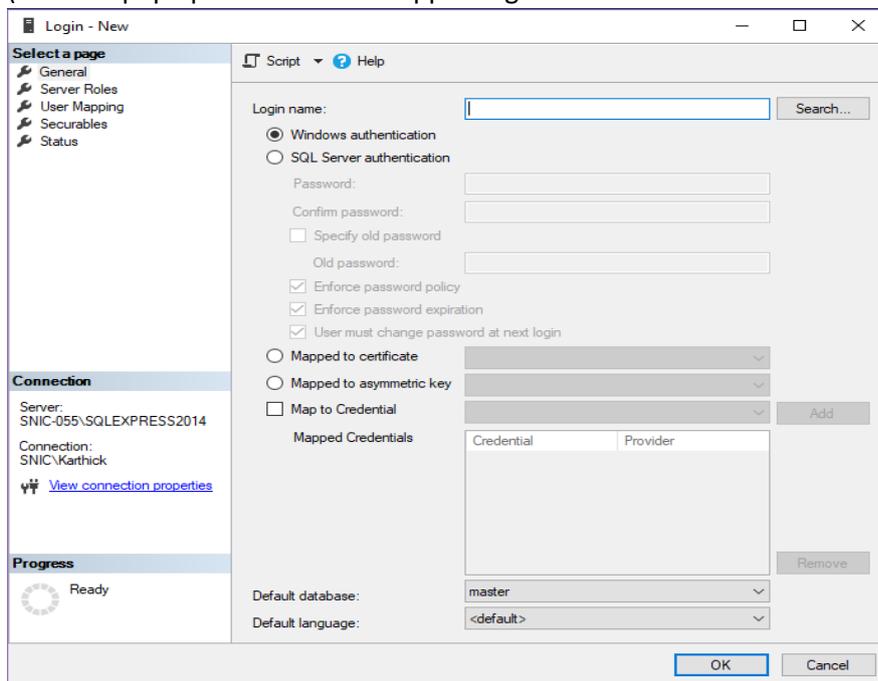
The below screen show you were it would be



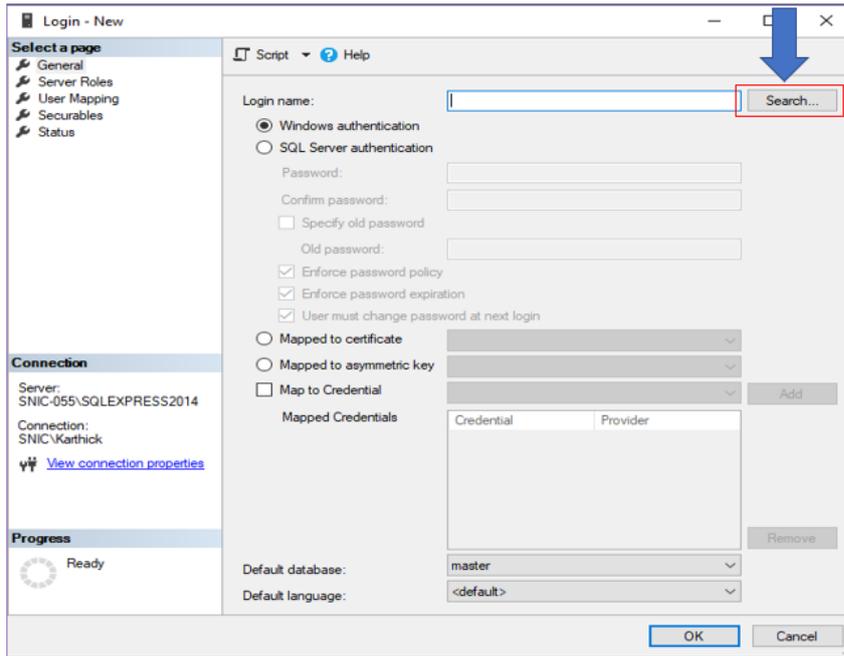
**Step 4:** After expanding the security folder there you will be able to see the “Login” Expand it as well, now right click on the login and click new login as shown below,



(NOTE: A pop up window will be appearing like this as shown in the below screenshot)



**Step 5:** On the Login Window against the general page click on the search button highlighted, kindly provide username login of the windows user login in Machine A / An SQL Server Authentication can be created also be created



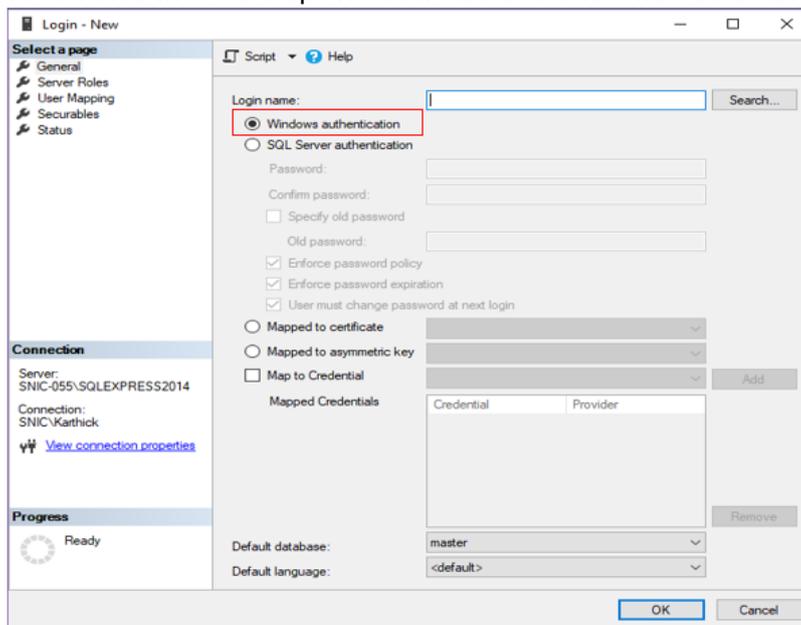
Noted : As per your preference either one of the authentications can be selected

**Windows authentication:** No Login and Password requires less security

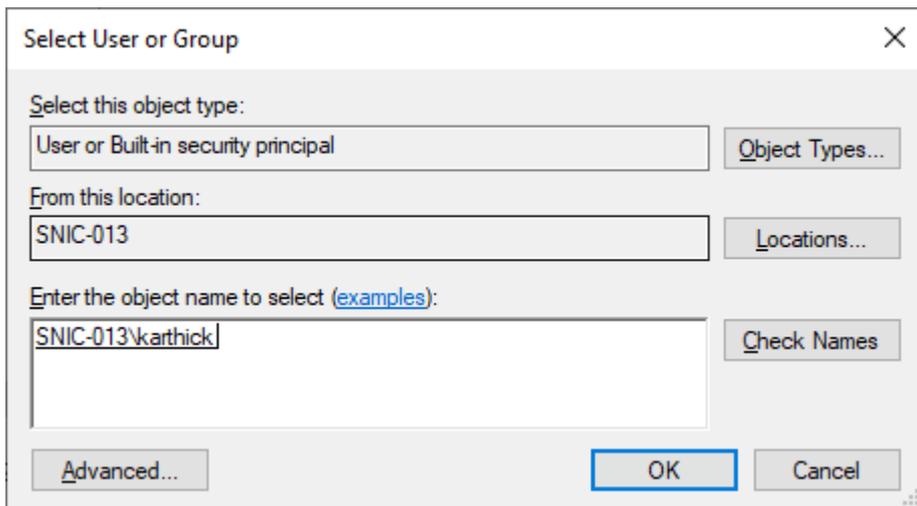
**SQL Server authentication:** Login and Password requires high security

### A. Window Authentication

To continue with this steps Window Authentication must be enabled highlighted below,



**Step 1:** After clicking the search a pop-up window will be appeared to select the user or a group select. As shown in the below screenshot.

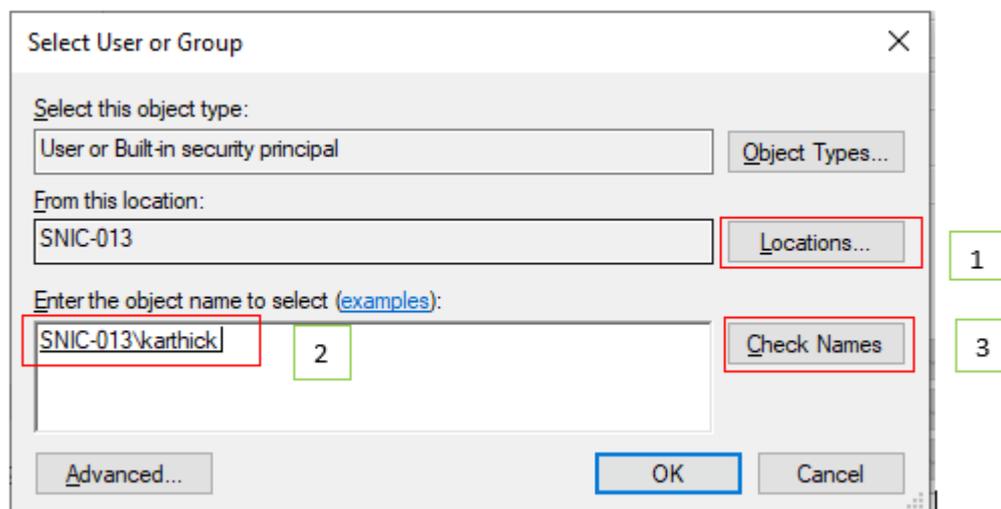


**Step 2:**

**Highlighted 1 :** In the location option you set the Domain where you want to look for the user on

**Highlighted 2 :** Provide the user name of the Machine A

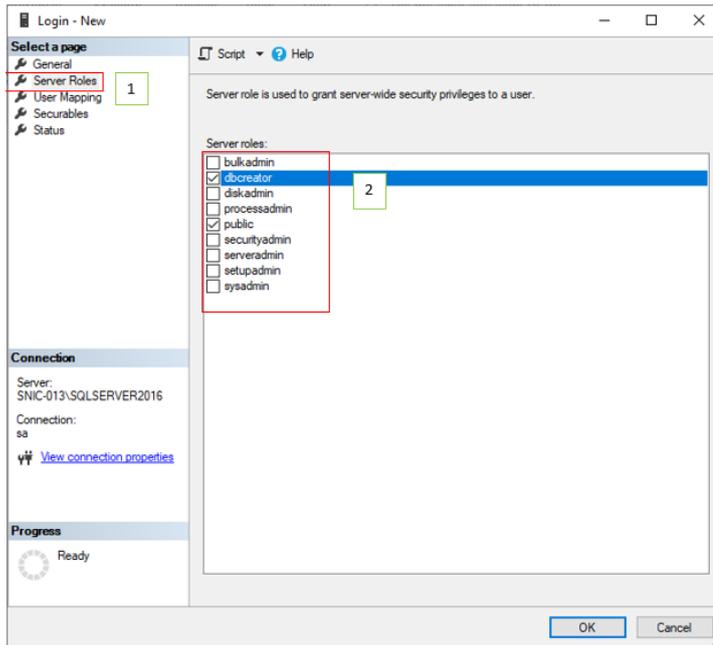
**Highlighted 3 :** Check name will give you an auto-corrected username/ login that are been present in active directory.



After performing all the action kindly click on the Ok button to continue

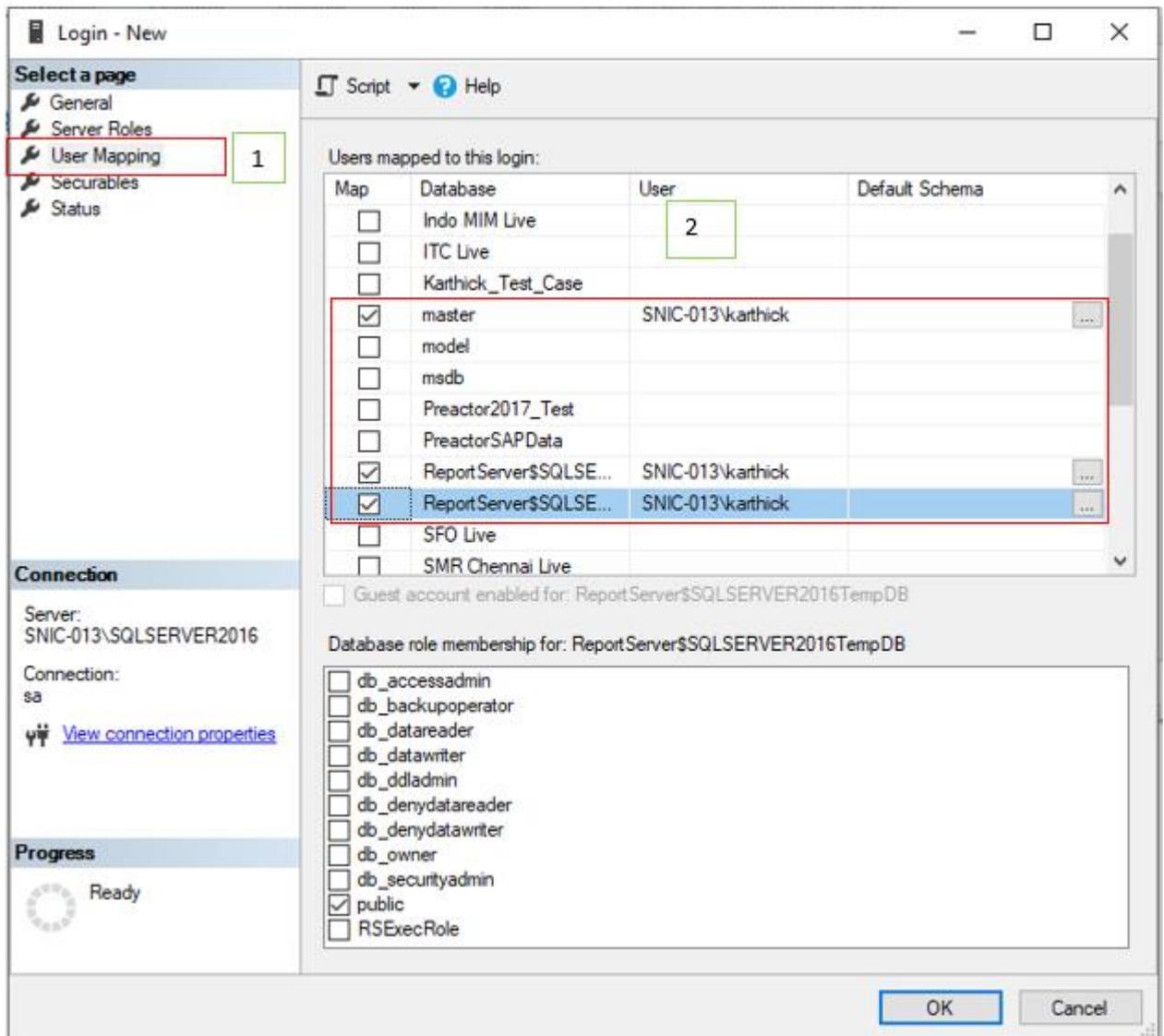
**Step 3:**

Now, Move to Server roles tab ( 1 ). Kindly append the roles to the server roles ( 2 ).

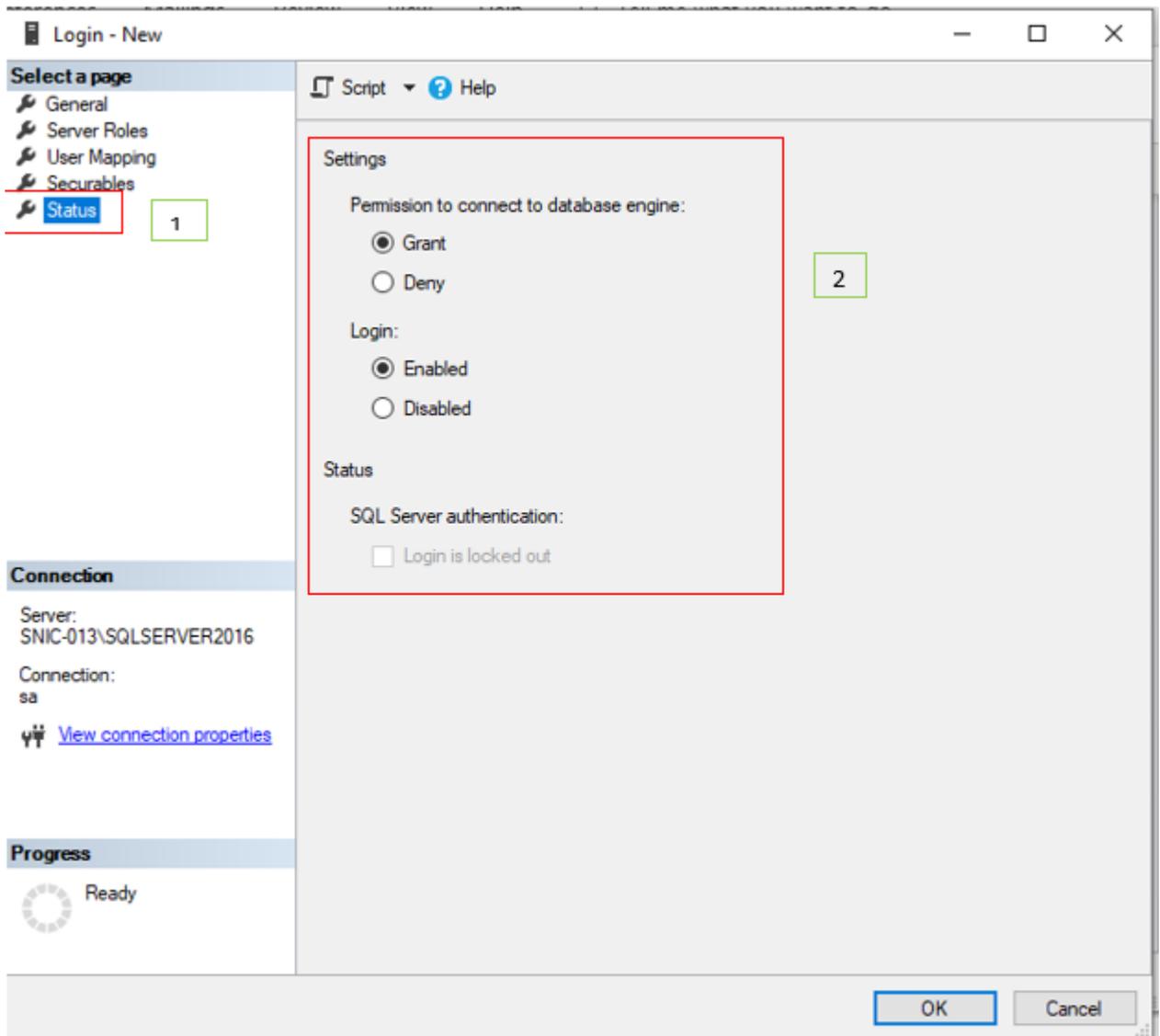


#### Step 4:

Now, move to User Mapping Tab ( 1 ), Kindly toggle the master, Report server\$SQLSEVRER, Report server\$SQLSEVRER Temp.



**Step 5:** Now, move to status Tab ( 1 ), Append these setting ( 2 )



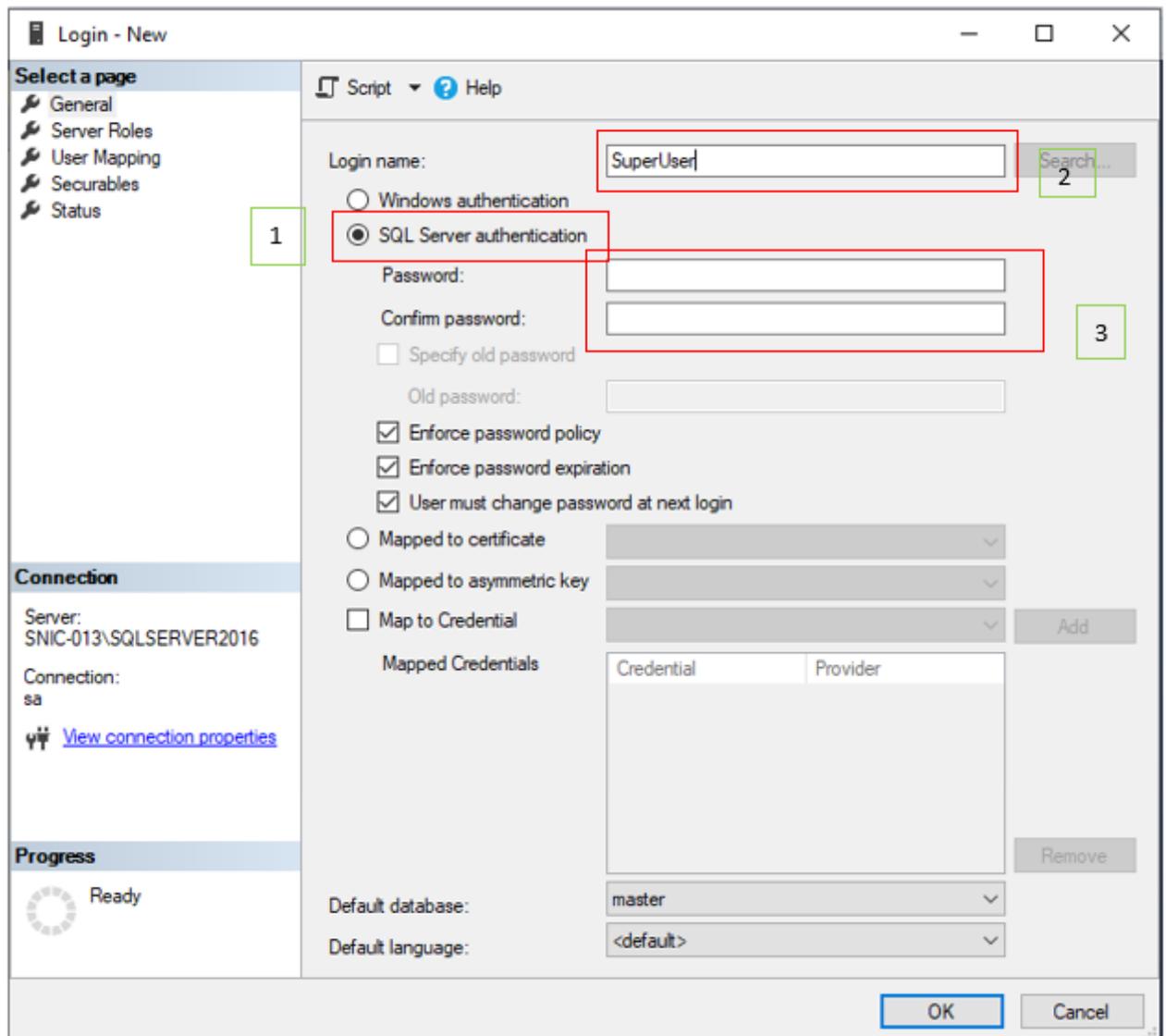
## B. SQL Server Authentication

### Step 1 :

**Highlighted 1:** Switch to SQL Server Authentication

**Highlighted 2:** Provide a name for the Login

**Highlighted 3:** Provide the password



Kindly follow from step 2 to step 5 in [Window Authentication Section above](#).

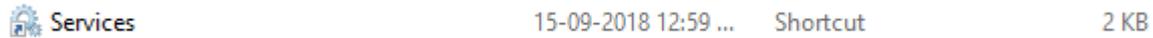
**Step 6:**

**In Machine – B**

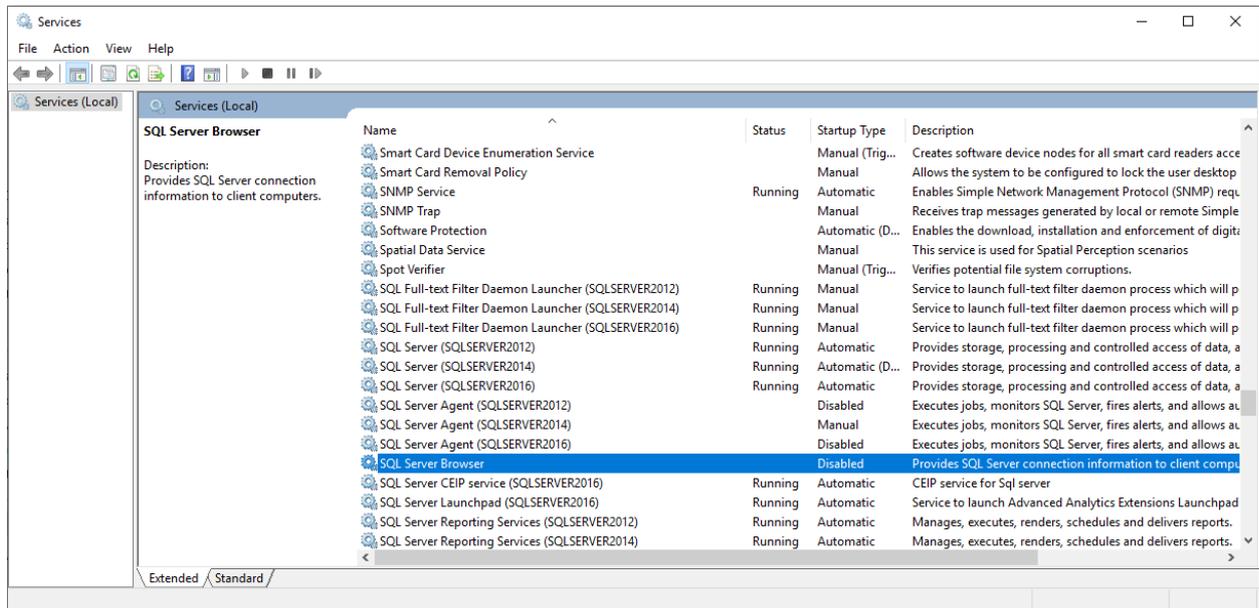
Go to the following path

“C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Administrative Tools”

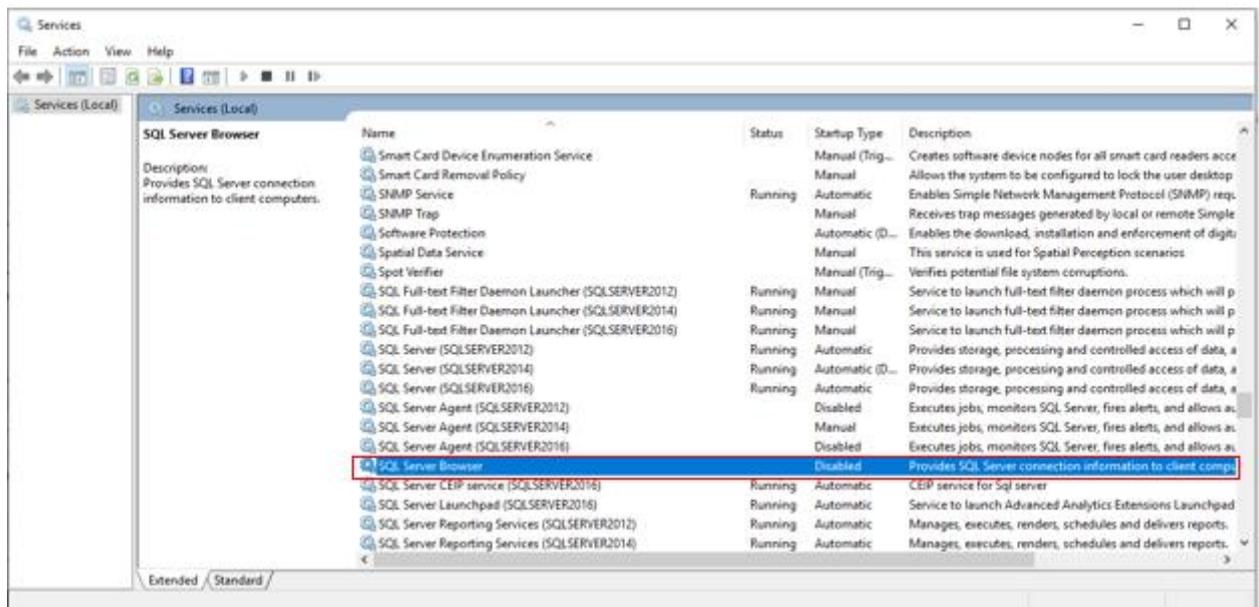
Open file name : Services



After opening it, it looks like something this below, screenshot

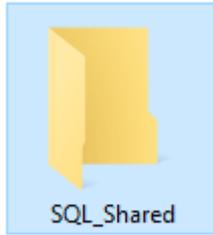


Now, Right Click on the Sql Brower and start the service initially this service will be disable, at the first time before starting this service enable it and start the services



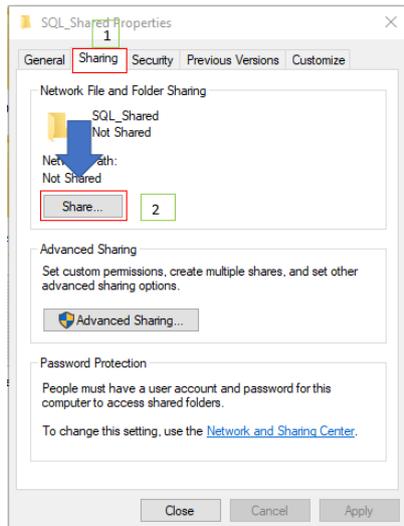
## In Machine – A

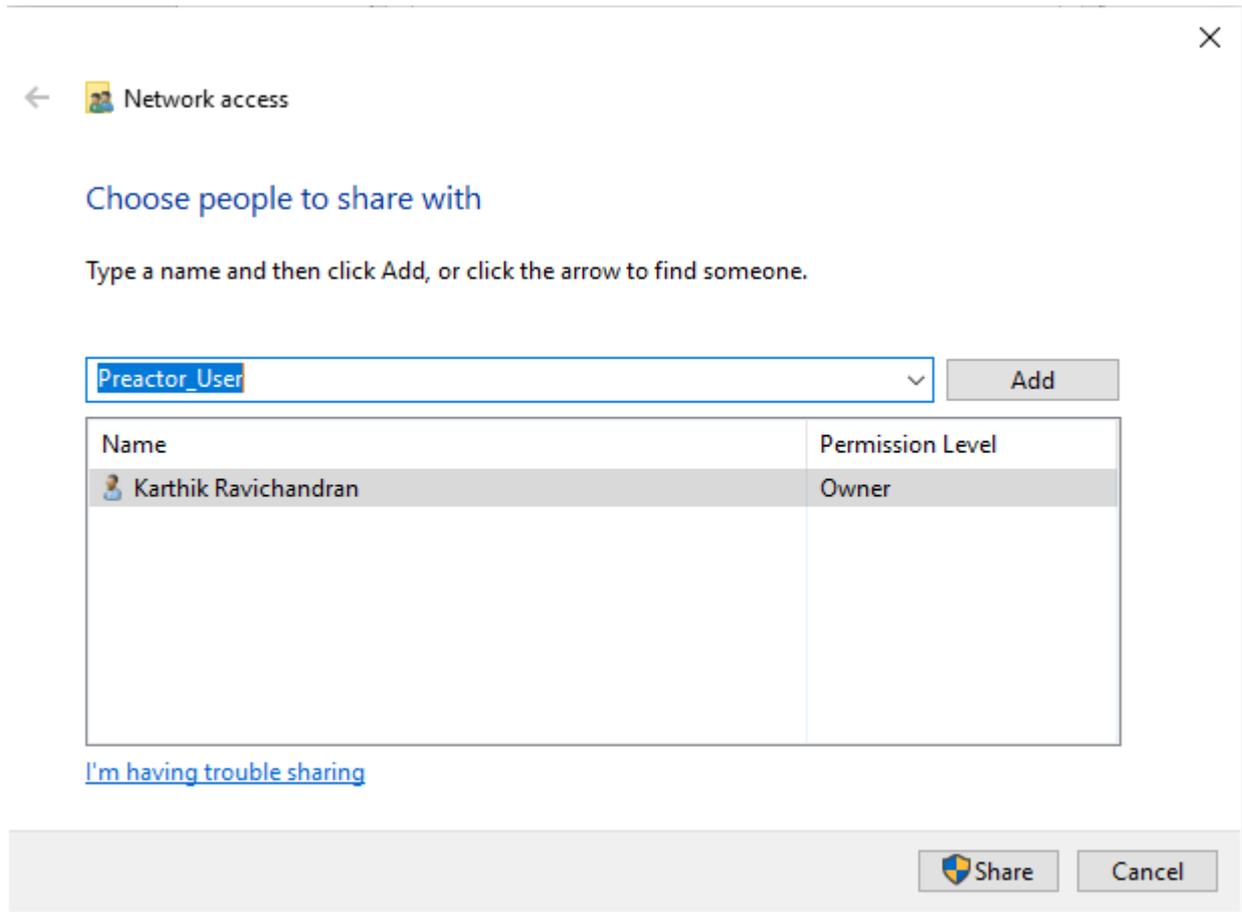
**Step 1:** Create a new folder in any desired location on the machine



**Step 2:** Now, move to Sharing tab( 1 ), Click on share ( 2 )

In the pop-up appeared, provide the Machine -B user login Add and share the file with machine -B





After finishing kindly click on share.

Now, all the configuration job done.

Test the configuration by installation the preactor package

How to install the Opcenter APS package in remote database mode., show below an example.

Preactor Configuration Package Manager

### Database Options

Modify options relating to the SQL database

SQL Server Location

Local Machine

Remote Database Server

Connection

Server Name:

Instance Name:

Working Folder Share

Enter the path to a share on the server that you have access to (e.g. \\server\share).  
The SQL server service account also needs to have read access to this share.

**Thank You.**