

SQL Server General Document



Table of Contents

Category: SQL	3
Configurating Remote Database for Opcenter APS Application.	3
SQL Server Authentication error	3



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

APS.Category: SQL

Configurating 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.ex			
🔤 cmd.exe	15-09-2018 12:58	Application	272 KB

After opening it, it looks something like this in the below screenshot.





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)
-----------	-------------

🖵 Connect to Serve	ır ×
	SQL Server
Server type:	Database Engine \sim
Server name:	~
Authentication:	SQL Server Authentication $\qquad \qquad \lor$
Login:	sa 🗸 🗸
Password:	
	Remember password
	Connect Cancel Help Options >>

Step 3: On the top left side you will be able to see the object explorer, expand "the Security folder". The belove 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,

-	∂ ⊕	SN	IC-0 Dat	55\S abas	QLE) ses	(PRESS2014 (S	QL Serve	er 1	2.0.2269
	-		Sec	urity	/				
				Log		New Login			ogin##
				×		Filter		•	in##
						Start PowerS	hell		
						Reports	I	•	SS2014
						Refresh			EXPRESS
					NT S	ERVICE\Winm	gmt		-

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

Login - New				-		×
Select a page	🖵 Script 🔻 😯 Help					
General Server Roles User Mapping Securables Status	Login name: Windows authentication SQL Server authentication Password: Confirm password: Specify old password Old password: Enforce password policy Enforce password policy Enforce password expira User must change passw	l			Search	
Connection	 Mapped to asymmetric key 			~		
Server: SNIC-055\SQLEXPRESS2014 Connection:	Map to Credential	Credential	Provider	~	Add	
SNIC Watthick Y# <u>View connection properties</u>						
Progress					Remov	'e
Ready	Default database:	master		\sim		
44 B.A.	Default language:	<default></default>		\sim		
				ОК	Cano	el

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



Login - New			_	c ×
Select a page	🖵 Script 👻 😯 Help			
 ✓ Server Roles ✓ User Mapping ✓ Securables ✓ Status 	Login name: Windows authentication SQL Server authentication Password: Confirm password: Specify old password Old password: Enforce password epiley Enforce password epiley Store password epiley User must change passw Mascer to certificate	l		Search
Connection	Mapped to asymmetric key		~	
Server: SNIC-055-SQLEXPRESS2014 Connection: SNIC-Karthick VIII: View connection properties	Map to Credential Mapped Credentials	Credential Provide	v r	Add
Progress				Remove
Ready	Default database: Default language:	master <default></default>	~	
			ОК	Cancel

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,

Login - New				_		\times
Select a page	C Script 🔻 🖸 Help					
Seneral General						
Server Roles	Login name:	1			Search	ı
Securables Status	Windows authentication					
	 SQL Server authentication 					
	Password:					
	Confirm password:					
	Specify old password					
	Old password:					
	Enforce password policy					
	 Enforce password expiration 	tion				
	User must change passv	vord at next login				
	 Mapped to certificate 					
Connection	 Mapped to asymmetric key 			\sim		
Server: SNIC-055\SQLEXPRESS2014	Map to Credential			\sim		
Connection: SNIC\Karthick	Mapped Credentials	Credential	Provider			
View connection properties						
11						
Progress						/e
A Beady		master		~		
\bigcirc	Default database:	indoter		*		
	Default language:	<default></default>		~		
				OK	Cano	-
				UK	Cano	

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



Select User or Group		×
<u>S</u> elect this object type: User or Built-in security principal		Object Types
From this location:		
SNIC-013		Locations
Enter the object name to select (<u>examples</u>):		
SNIC-013\karthick		Check Names
<u>A</u> dvanced	OK	Cancel

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.

Select User or Group	×	
Select this object type:		
User or Built-in security principal	<u>O</u> bject Types	
<u>From this location:</u>		
SNIC-013	Locations	1
Enter the object name to select (examples):		
SNIC-013\karthick 2	Check Names	3
<u>A</u> dvanced	OK Cancel	

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).



Select a page Script ~ ? Help	
Server Roles Server Roles Server role is used to grant server-wide security privileges to a user. Securables Status Server role is used to grant server-wide security privileges to a user. Server role is used to grant server-wide security privileges to a user. Server role is used to grant server-wide security privileges to a user. Server role is used to grant server-wide security privileges to a user. Server role is used to grant server-wide security privileges to a user. Server role is used to grant server-wide security privileges to a user. Server role is used to grant server-wide security privileges to a user. Server role is used to grant server-wide security privileges to a user. Server role is used to grant server-wide security privileges to a user.	
Status Server roles: Server ro	
Lukadmin ddorestor ddvadmin processadmin secutlyadmin secutlyadmin setupadmin sysadmin	
Connection	
Connection	
Senier	
SNIC-013\SQLSERVER2016	
Connection: sa	
VHew connection properties	
Progress	
O Ready	
OK Cancel	

Step 4:

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



Select a nane							
General	<pre>⊥∫ Script</pre>	🕶 🚱 Help					
Server Roles	1	10 10 10 10 10 10 10 10 10 10 10 10 10 1					_
User Mapping 1	Users ma	apped to this login:					
Securables	Map	Database	User		Default Schema		~
👂 Status		Indo MIM Live	2				
		ITC Live	2				
		Karthick Test Case					
		master	SNIC-013\k	arthick			
		model				100000	2
		msdb					
		Preactor2017 Test					
		PreactorSAPData					
		Report Server\$SQLSE	SNIC-013\k	arthick			
		Report Server\$SQLSE	SNIC-013 k	arthick			í.
		SFO Live		an a		lanes	-
		SMR Chennai Live					~
Server: SNIC-013\SQLSERVER2016 Connection: sa	Databas	t account enabled for: Repo e role membership for: Repor accessadmin	tServer\$SQLS tServer\$SQLS	ERVER201	16TempDB 6TempDB		
		ackupoperator					
YT view connection properties		latawriter					
	db_d	Idladmin					
	_ db_d	lenydatareader					
rooree		lenydatawriter					
Ready	db_s	ecurityadmin c					
S							

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



Login - New			-		×
Select a page General Server Roles User Mapping Securables Status 1	<pre>Script ▼ ♥ Help Settings Permission to connect to database engine:</pre>	2			
Connection	SQL Server authentication:				
Server: SNIC-013\SQLSERVER2016 Connection: sa V <u>View connection properties</u>					
Progress Ready					
		[ОК	Car	ncel

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

Login - New			-	[×
Select a page	🖵 Script 🔻 😮 Help					
 Server Roles User Mapping Securables Status 1 	Login name: Vindows authentication SQL Server authentication Password: Confirm password: Specify old password Old password: Enforce password policy Enforce password expira User must change password Mapped to certificate	SuperUser			2	-
Connection	 Mapped to asymmetric key 			1		
Server: SNIC-013\SQLSERVER2016 Connection: sa y <u>View connection properties</u>	Map to Credential Mapped Credentials	Credential Pro	wider			
Progress						ŧ
Ready	Default database: Default language:	master <default></default>	~	-		
			ОК		Cance	4

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

🔒 Services

15-09-2018 12:59 ... Shortcut

2 KB

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

🤹 Services					- 🗆 X
File Action View	Help				
⇐ ➡ 🗖 🖾 🕻	à 🔒 🛛 📰 🕨 🔲 II 🕪				
🔍 Services (Local)	Services (Local)				
	SQL Server Browser	Name	Status	Startup Type	Description ^
	Description: Provides SQL Server connection information to client computers.	Smart Card Device Enumeration Service Smart Card Removal Policy Software Protection Software Protection Software Protection Software Protection Software Protection Software Protection Soft Full-text Filter Daemon Launcher (SQLSERVER2012) Soft Full-text Filter Daemon Launcher (SQLSERVER2014) Soft Full-text Filter Daemon Launcher (SQLSERVER2014) Soft Server (SQLSERVER2012) Soft Server (SQLSERVER2014) Soft Server (SQLSERVER2016) Soft Server Agent (SQLSERVER2012) Soft Server Agent (SQLSERVER2014) Soft Server CEIP service (SQLSERVER2016) Soft Server CEIP service (SQLSERVER2016)	Running Running Running Running Running Running Running	Manual (Trig Manual Automatic Manual Automatic (D Manual Manual Manual Manual Automatic Automatic Automatic Disabled Disabled Disabled Automatic	Creates software device nodes for all smart card readers acce Allows the system to be configured to lock the user desktop Enables Simple Network Management Protocol (SNMP) requ Receives trap messages generated by local or remote Simple Enables the download, installation and enforcement of digits This service is used for Spatial Perception scenarios Verifies potential file system corruptions. Service to launch full-text filter daemon process which will p Service to launch full-text filter daemon process which will p Service to launch full-text filter daemon process which will p Services torage, processing and controlled access of data, a Provides storage, processing and controlled access of data, a Provides storage, processing and controlled access of data, a Executes jobs, monitors SQL Server, fires alerts, and allows at Executes jobs, monitors SQL Server, fires alerts, and allows at Provides SQL Server comection information to client comput CEIP service for Sql server
		SQL Server Launchpad (SQLSERVER2016)	Running	Automatic	Service to launch Advanced Analytics Extensions Launchpad
		SQL Server Reporting Services (SQLSERVER2014)	Running	Automatic	Manages, executes, renders, schedules and delivers reports.
	Extended Standard				

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

to at 1 and 100 c								
	3 (3) 1 (3) 2 (3) 1 (1)					_		
Services (Local)	Services (Local)	(
	SQL Server Browser	Name	Status	Startup Type	Description			
		Smart Card Device Enumeration Service		Manual (Trig	 Creates software device nodes for all smart card readers as Allows the system to be configured to lock the user deskto 			
	Description	Smart Card Removal Policy		Manual				
	information to client computers.	SNMP Service	Running	Automatic	Enables Simple Network Management Protocol (SNM	P) req		
	and the second se	C SNMP Trap		Manual	Receives trap messages generated by local or remote 1	imple		
		Characteristics		Automatic (D	Enables the download, installation and enforcement of	digit		
		Spatial Data Service		Manual	This service is used for Spatial Perception scenarios			
		🖾 Spot Verifier		Manual (Trig_	Verifies potential file system comuptions.			
		SQL Full-text Filter Daemon Launcher (SQLSERVER2012)	Running	Manual	Service to launch full-text filter daemon process which			
		SQL Full-text Filter Daemon Launcher (SQLSDRVER2014)	Running	Manual	Service to launch full-text filter daemon process which	will p		
		SQL Full-text Filter Daemon Launcher (SQLSERVER2016)	Running	Manual	Service to launch full-text filter daemon process which	will p		
		Chi SQL Server (SQLSERVER2012)	Running	Automatic	Provides storage, processing and controlled access of	data, i		
		SQL Server (SQLSERVER2014)	Running	Automatic (D_	Provides storage, processing and controlled access of	data, i		
		SQL Server (SQLSERVER2016)	Running	Automatic	Provides storage, processing and controlled access of	data, a		
		SQL Server Agent (SQLSERVER2012)		Disabled	Executes jobs, monitors SQL Server, fires alerts, and all	tiers as		
		SQL Server Agent (SQLSERVER2014)		Manual	Executes jobs, monitors SQL Server, fires alerts, and all	Dwis as		
		SQL Server Agent (SQLSERVER2016)		Disabled	Executes jobs, monitors SQL Server, fires alerts, and all	piws as		
		SQL Server Browser		Disabled	Provides SQL Server connection information to client	omp		
		SQL Server CEIP service (SQLSERVER2016)	Running	Automatic	CEP service for Sql server			
		SQL Server Launchpad (SQLSERVER2016)	Running	Automatic	Service to launch Advanced Analytics Extensions Laun	chped		
		SQL Server Reporting Services (SQLSERVER2012)	Running	Automatic	Manages, executes, renders, schedules and delivers rep	iorts.		
		CA SQL Server Reporting Services (SQLSERVER2014)	Running	Automatic	Manages, executes, renders, schedules and delivers rep	ports.		
	Contrast and an and an and a second					ು		

<u>In Machine – A</u>

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

SQL_Shared Pro	operties			×
General Sharing	Security	Previous Versio	ns Custor	nize
Network File and	Folder Sł	naring		
SQL_S Not Sh Network Not Shared	ihared ared			
Advanced Sharir Set custom perm advanced sharir QAdvanced	ng nissions, c ng options d Sharing.	reate multiple sha	res, and set	t other
Password Protec	tion			
People must hav computer to acc	re a user a ess share	account and pass d folders.	word for thi	s
To change this s	etting, us	e the <u>Network an</u>	d Sharing C	Center.
	Cle	ose Ca	ncel	Apply



28 Network access	
Choose people to share with	
Type a name and then click Add, or click the arr	row to find someone.
Preactor_User	~ Add
Name	Permission Level
Karthik Ravichandran	Owner
I'm having trouble sharing	
	Share Can

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 Config	juration Package Manager	_		×			
Database Option Modify options r	s elating to the SQL database						
SQL Server Locat O Local Machin I Remote Data	on e base Server						
Connection							
Server Name:	SQLSERVER			~			
Instance Name:	defaultinstance			¥			
			Advance	d			
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. $\ \SNic-013\C:\SQL_Shared\Browse}$							
		Photo Inc. of					
	< Back Next >	Finish >>	Clo	ose			



Thank You.