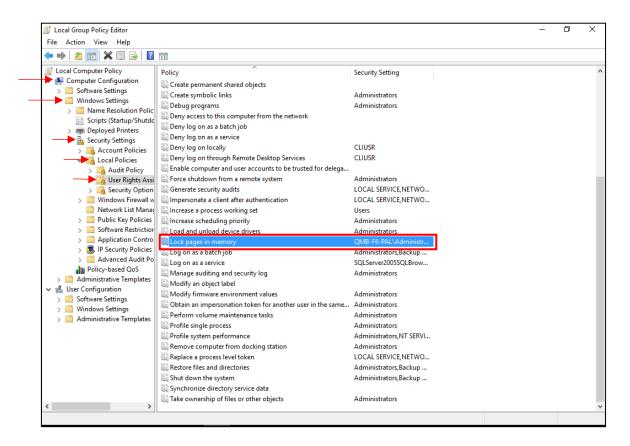
SQL SERVER 2016 CHECK LIST

Set up "lock pages in memory" Windows account

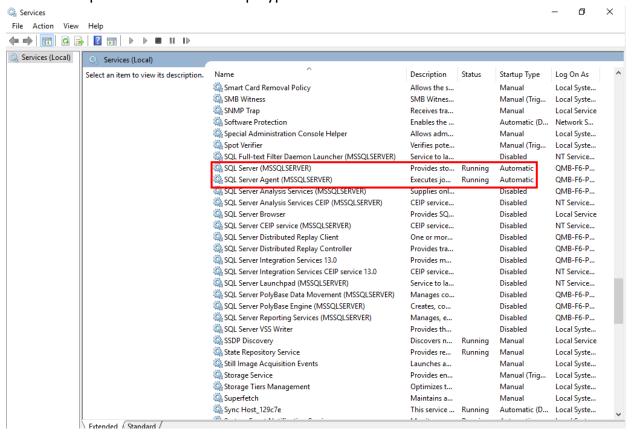
- 1. Run "gpedit.msc" -> Computer Configuration -> Windows Setting -> Security Setting -> Local Policy -> User Right Assignment
- 2. Choose **lock pages in memory** and make sure the "Security Setting" is Windows **administrator**
- 3. If no, right click and select property and "add User or Group"



Services Accounts Services must be Administrator

The 2 service under **Services** the authority must be Administrator

- 1. SQL Server (MSSQLSERVER)
- 2. SQL Server Agent (MSSQLSERVER)
- 3. Set up the 2 services Startup Type is "Automatic"



Disable SQL Services

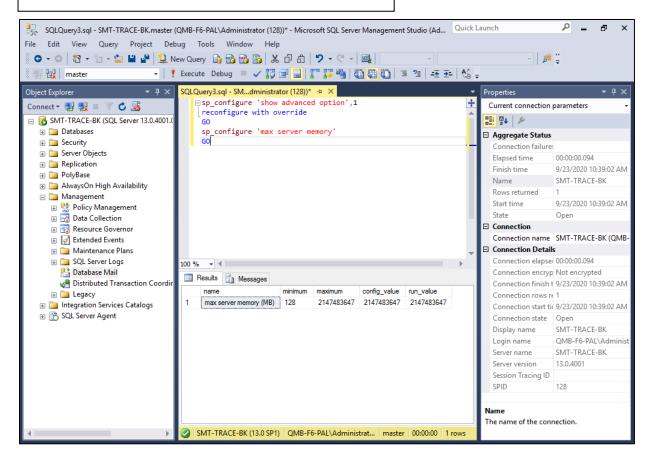
Besides SQL Server (MSSQLSERVER), SQL Server Agent (MSSQLSERVER), other SQL Services Startup Type must be "Disabled"

- 1. SQL Server VSS Writer
- 2. SQL Server Reporting Services (MSSQLSERVER)
- 3. SQL Server Poly Engine (MSSQLSERVER)
- 4. SQL Server PolyBase Data Movement
- 5. SQL Server Launchpad (MSSQLSERVER)
- 6. SQL Server Integration Services CEIP
- 7. SQL Server Integration Services 13.0
- 8. SQL Server Distributed Replay Controller
- 9. SQL Server Distributed Replay Client
- 10. SQL Server CEIP Services
- 11. SQL Server Browser
- 12. SQL Server Analysis Service CEIP
- 13. SQL Server Analysis Service (MSSQLSERVER)
- 14. SQL Full-text Filter Daemon Launcher (MSSQLSERVER)

description	Name	Description	Status	Startup Type	Log On As	^
sable Se	rd Removal Policy	Allows the s		Manual	Local Syste	
sable Se	ness	SMB Witnes		Manual (Trig	Local Syste	
	ap	Receives tra		Manual	Local Service	
	Software Protection	Enables the		Automatic (D	Network S	
	Special Administration Console Helper	Allows adm		Manual	Local Syste	
\	Spot Verifier	Verifies pote		Manual (Trig	Local Syste	
	SQL Full-text Filter Daemon Launcher (MSSQLSERVER)	Service to la		Disabled	NT Service	
//-	SQL Server (MSSQLSERVER)	Provides sto	Running	Automatic	QMB-F6-P	
//_	SQL Server Agent (MSSQLSERVER)	Executes jo	Running	Automatic	QMB-F6-P	
'\	SQL Server Analysis Services (MSSQLSERVER)	Supplies onl		Disabled	QMB-F6-P	
	SQL Server Analysis Services CEIP (MSSQLSERVER)	CEIP service		Disabled	NT Service	
	🔍 SQL Server Browser	Provides SQ		Disabled	Local Service	
	SQL Server CEIP service (MSSQLSERVER)	CEIP service		Disabled	NT Service	
	🖳 SQL Server Distributed Replay Client	One or mor		Disabled	QMB-F6-P	
	🔍 SQL Server Distributed Replay Controller	Provides tra		Disabled	QMB-F6-P	
	SQL Server Integration Services 13.0	Provides m		Disabled	QMB-F6-P	
	SQL Server Integration Services CEIP service 13.0	CEIP service		Disabled	NT Service	
	SQL Server Launchpad (MSSQLSERVER)	Service to la		Disabled	NT Service	
	SQL Server PolyBase Data Movement (MSSQLSERVER)	Manages co		Disabled	QMB-F6-P	
	SQL Server PolyBase Engine (MSSQLSERVER)	Creates, co		Disabled	QMB-F6-P	
	SQL Server Reporting Services (MSSQLSERVER)	Manages, e		Disabled	QMB-F6-P	
L	🔍 SQL Server VSS Writer	Provides th		Disabled	Local Syste	
_	SSDP Discovery	Discovers n	Running	Manual	Local Service	
	🖳 State Repository Service	Provides re	Running	Manual	Local Syste	
	🖳 Still Image Acquisition Events	Launches a		Manual	Local Syste	
	🔍 Storage Service	Provides en		Manual (Trig	Local Syste	
	🖏 Storage Tiers Management	Optimizes t		Manual	Local Syste	
	🖳 Superfetch	Maintains a		Manual	Local Syste	
	Sync Host_129c7e	This service	Running	Automatic (D	Local Syste	

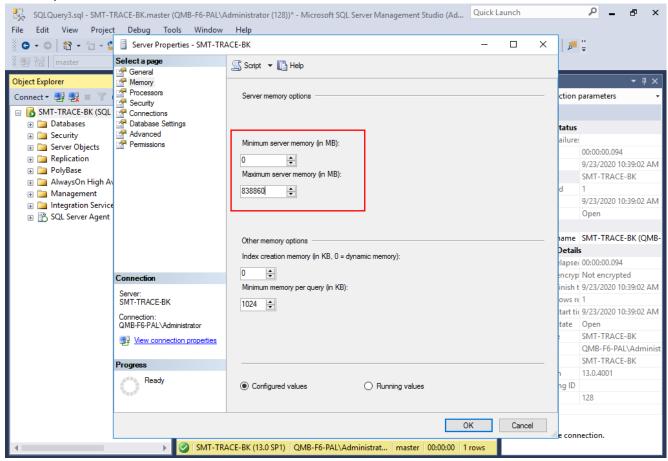
Check SQL memory

sp_configure 'show advanced option',1
reconfigure with override
GO
sp_configure 'max server memory'
GO



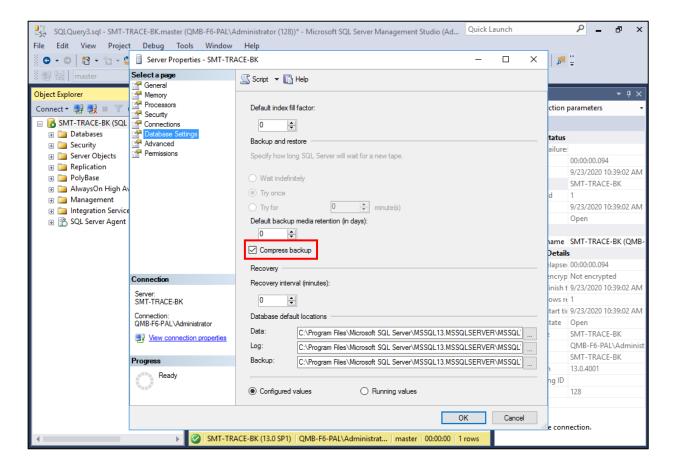
Server Memory

- 1. Right click at Server database -> Properties -> Memory
- 2. Choose Maximum **server memory (in MB) for 80 %** of RAM (Ex: at the picture have Ram 1024 GB use 80 % = 819 GB RAM(MB)*80 / 100 = 80%)
- 3. press OK



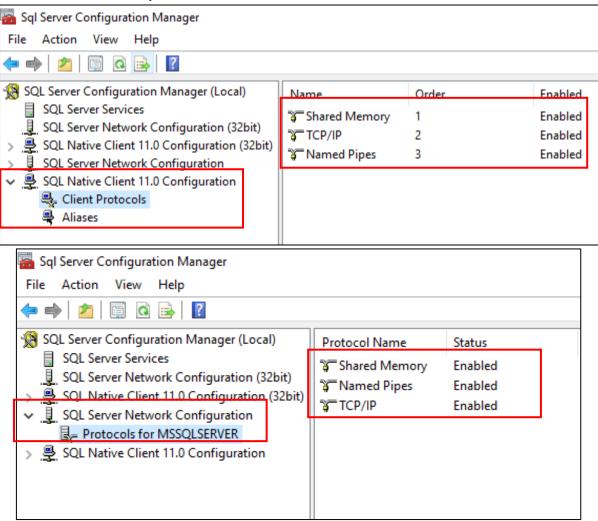
Check Compress backup setting

- 1. DB Server right click and select Properties -> Database Setting
- 2. make sure the "Compress backup" is checked



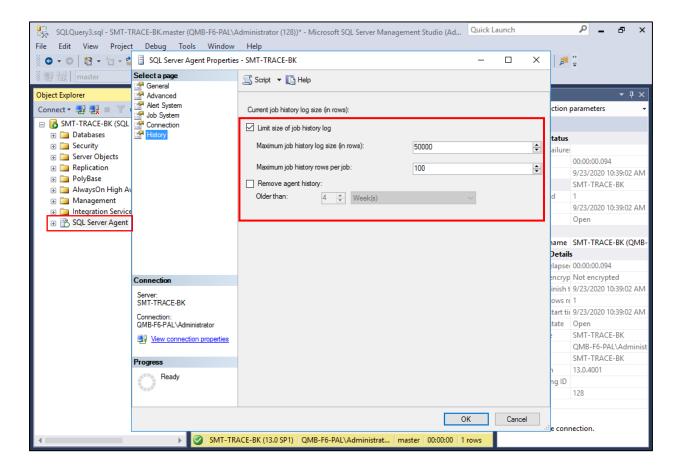
Check "Name Pipes" and "TCP/IP" must be Enable

- 1. Open SQL Server 2016 Configuration Management
- 2. Choose SQL Server Network configuration ->protocols for MSSQLSERVER, and make sure "Name Pipes" and "TCP/IP" is Enable
- 3. Choose SQL Native Client 11.0 configuration -> Client protocols, and make sure "Name Pipes" and "TCP/IP" is Enable.



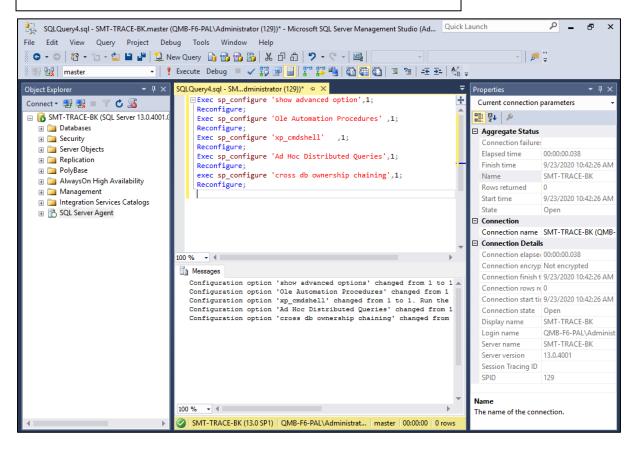
Check "SQL Agent" Job History keep quantity

- 1. Open Microsoft SQL Server Management Studio, and right click SQL Server Agent and choose property
- 2. Select History
- 3. Set Max Job History Size is 50000
- 4. Set Max Job History for Per Job is 100



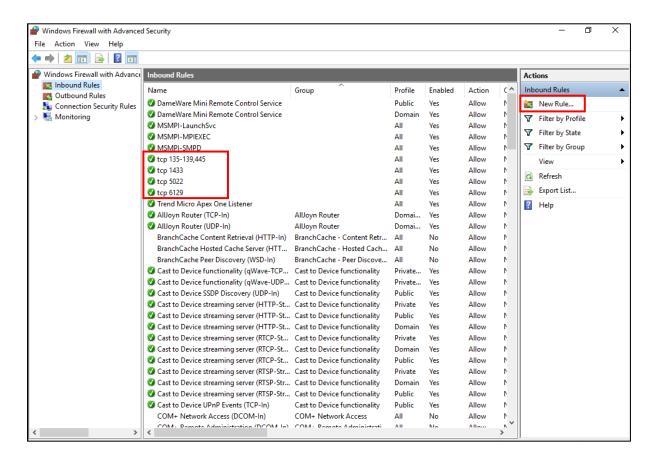
Open High Level setting

```
Exec sp_configure 'show advanced option',1;
Reconfigure;
Exec Sp_configure 'Ole Automation Procedures',1;
Reconfigure;
Exec sp_configure 'xp_cmdshell',1;
Reconfigure;
Exec sp_configure 'Ad Hoc Distributed Queries',1;
Reconfigure;
Exec sp_configure 'cross db ownership chaining',1;
Reconfigure;
```



Check Firewall

- 1. Run "Windows Firewall with Advanced Security"
- 2. Check "Inbound Rules" and select "New Rule",
 - tcp 135-139,445
 - tcp 1433
 - tcp 5022
 - tcp 6129



DB Mail Setting

- 1. Open **Microsoft SQL Server Management Studio**, spread Management and right click **Database Mail** and select "**Configure Database Mail**"
- 2. Select "Manage Database Mail accounts and profiles" and press Next
- 3. Select "Create a new account" and press Next

4. Keying the info as below:

Account name: QMS_QMB

Description: QMB DB

Email address: QMS_QMB@quantacn.com

Display name: QMS_QMB

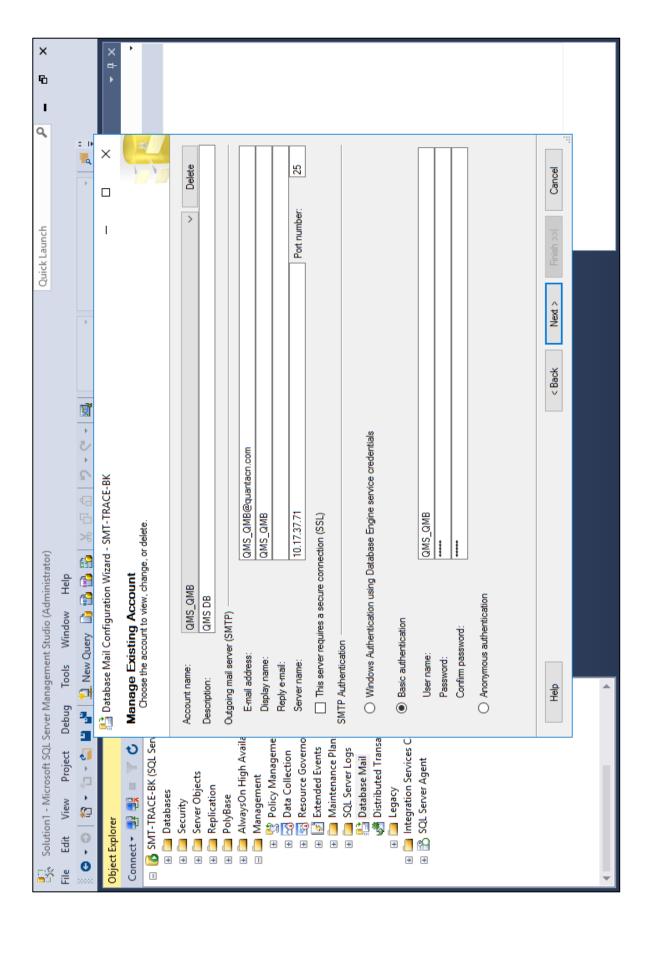
Server name: **10.17.37.71** Port number: **25**

Select Basic authentication Username: QMS_QMB

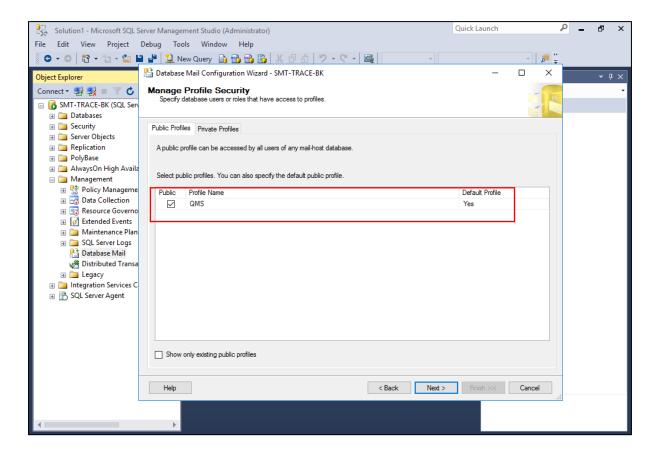
password: QWER1234!@#\$

5. Press **Next**

Note: If server name not working try to use 10.96.22.39



- 6. Right click **Database Mail** and select "**Set up Database Mail by performing the following tasks**" and press Next
- 7. Key in Profile name: QMS and press "Add"
- 8. Accounting Name choose QMS_QMB and press OK
- 9. press Next



Send Test E-Mail from Database Mail

- 1. Open Microsoft SQL Server Management Studio, spread Management and right click **Database Mail** and select "**Send Test E-Mail**"
- 2. Choose "QMS" on Database Mail profile and key in your email address on To, finally press "Send test E-mail"
- 3. Go to your mailbox to see this e-mail is success or not.

