

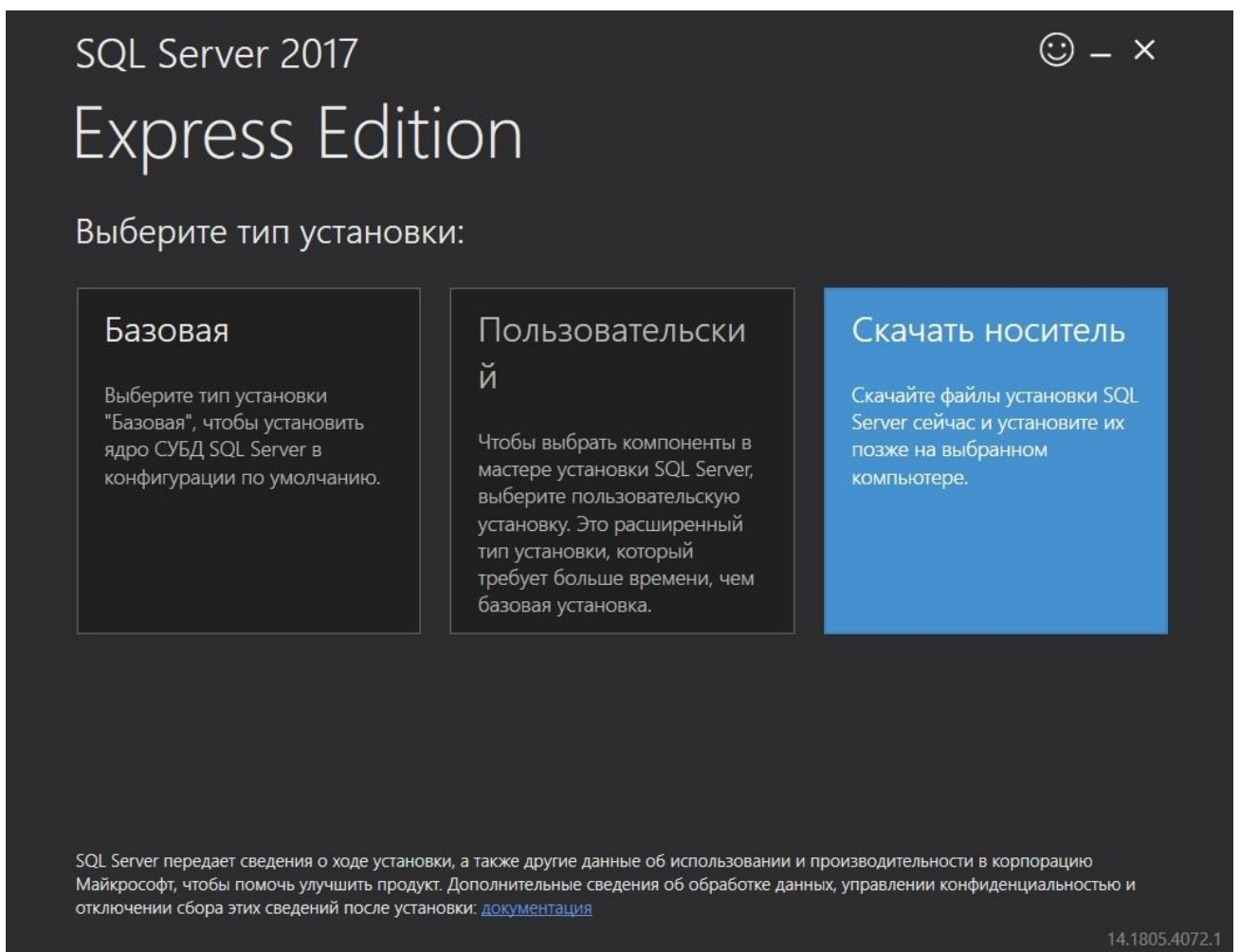
# Data Base Laboratory Work 1

## Installing and Configuring MSSQL.

### Tasks:

1. Installing MS SQL Server 2017 Development Edition x64.
2. Installing Microsoft SQL Server Management Studio 17.x.
3. Installing Microsoft SQL Server Data Tools.
4. Installing SQL Server Reporting.
5. System logins.

### Installing MS SQL Server 2017 Development Edition x64.



## Planning

**Installation**

## Maintenance

## Tools

## Resources

## Advanced

## Options

## Microsoft SQL Server 2017

[New SQL Server stand-alone installation or add features to an existing installation](#)

Launch a wizard to install SQL Server 2017 in a non-clustered environment or to add features to an existing SQL Server 2017 instance.

[Install SQL Server Reporting Services](#)

Launch a download page that provides a link to install SQL Server Reporting Services. An internet connection is required to install SSRS.

[Install SQL Server Management Tools](#)

Launch a download page that provides a link to install SQL Server Management Studio, SQL Server command-line utilities (SQLCMD and BCP), SQL Server PowerShell provider, SQL Server Profiler and Database Tuning Advisor. An internet connection is required to install these tools.

[Install SQL Server Data Tools](#)

Launch a download page that provides a link to install SQL Server Data Tools (SSDT). SSDT provides Visual Studio integration including project system support for Azure SQL Database, the SQL Server Database Engine, Reporting Services, Analysis Services and Integration Services. An internet connection is required to install SSDT.

[New SQL Server failover cluster installation](#)

Launch a wizard to install a single-node SQL Server 2017 failover cluster.

[Add node to a SQL Server failover cluster](#)

Launch a wizard to add a node to an existing SQL Server 2017 failover cluster.

[Upgrade from a previous version of SQL Server](#)

Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2017.

[New Machine Learning Server \(Standalone\) installation](#)

Launch a wizard to install Machine Learning Server (Standalone) on a Windows machine. This is typically used by data scientists as a standalone analysis server or as a

**Product Key**

Specify the edition of SQL Server 2017 to install.

**Product Key**

## License Terms

## Global Rules

## Microsoft Update

## Product Updates

## Install Setup Files

## Install Rules

## Feature Selection

## Feature Rules

## Feature Configuration Rules

## Ready to Install

## Installation Progress

## Complete

Validate this instance of SQL Server 2017 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of features found in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard.

☒ Specify a free edition:

Developer

☐ Enter the product key:

PHDV4-3VJWD-N7JVP-FGPKY-XBV89

&lt; Back

Next &gt;

Cancel

## Install Rules

Setup rules identify potential problems that might occur while running Setup. Failures must be corrected before Setup can continue.

Product Key  
License Terms  
Global Rules  
Microsoft Update  
Product Updates  
Install Setup Files  
**Install Rules**  
Feature Selection  
Feature Rules  
Feature Configuration Rules  
Ready to Install  
Installation Progress  
Complete

Operation completed. Passed: 3. Failed 0. Warning 1. Skipped 0.

Hide details <<

Re-run

[View detailed report](#)

Rule	Status
Fusion Active Template Library (ATL)	<a href="#">Passed</a>
Consistency validation for SQL Server registry keys	<a href="#">Passed</a>
Computer domain controller	<a href="#">Passed</a>
Windows Firewall	<a href="#">Warning</a>

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Cancel

## Server Configuration

Specify the service accounts and collation configuration.

Product Key  
License Terms  
Global Rules  
Microsoft Update  
Product Updates  
Install Setup Files  
Install Rules  
Feature Selection  
Feature Rules  
Instance Configuration  
**Server Configuration**  
Database Engine Configuration  
Analysis Services Configuration  
Feature Configuration Rules  
Ready to Install  
Installation Progress  
Complete

Service Accounts Collation

Microsoft recommends that you use a separate account for each SQL Server service.

Service	Account Name	Password	Startup Type
SQL Server Agent	NT Service\SQLSERVERA...		Manual ▾
SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic ▾
SQL Server Analysis Services	NT Service\MSSQLServe...		Automatic ▾
SQL Full-text Filter Daemon Launc...	NT Service\MSSQLFDLa...		Manual ▾
SQL Server Browser	NT AUTHORITY\LOCAL ...		Disabled ▾

☐ Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service

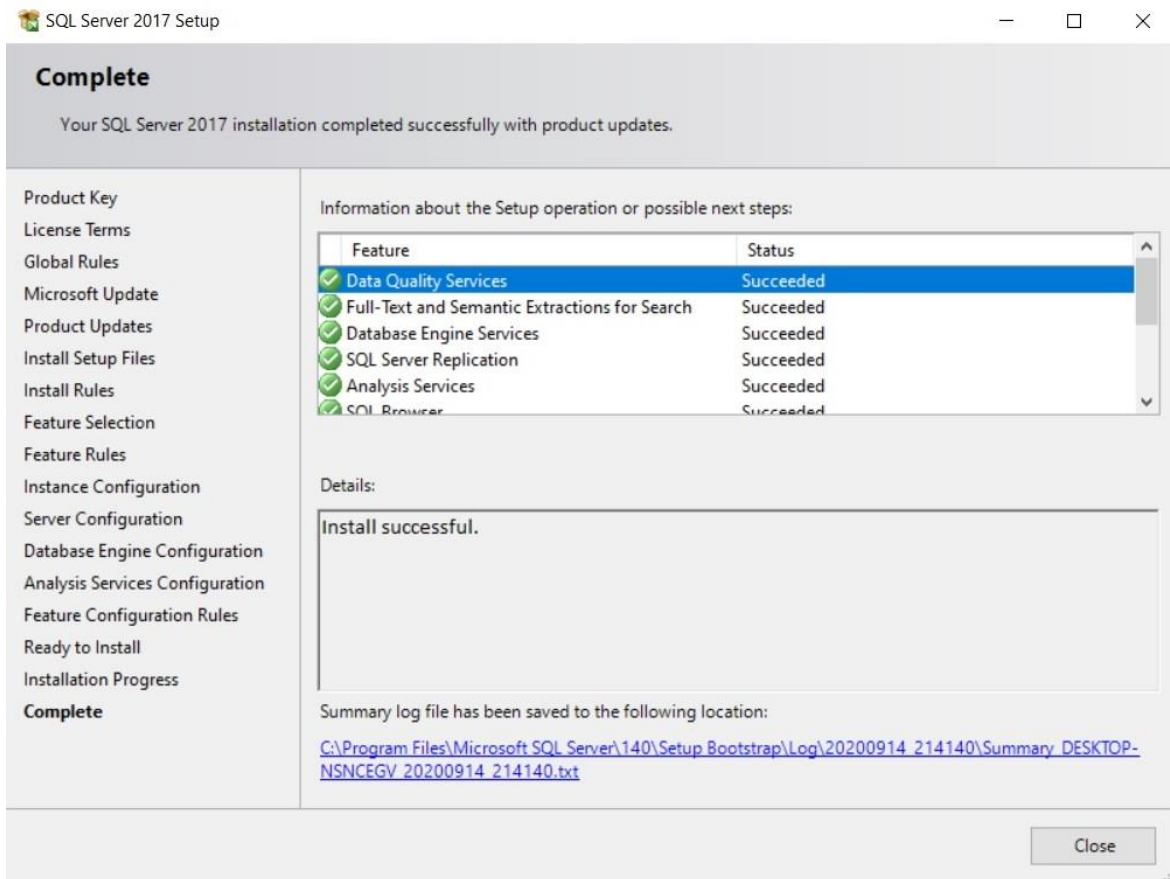
This privilege enables instant file initialization by avoiding zeroing of data pages. This may lead to information disclosure by allowing deleted content to be accessed.

[Click here for details](#)

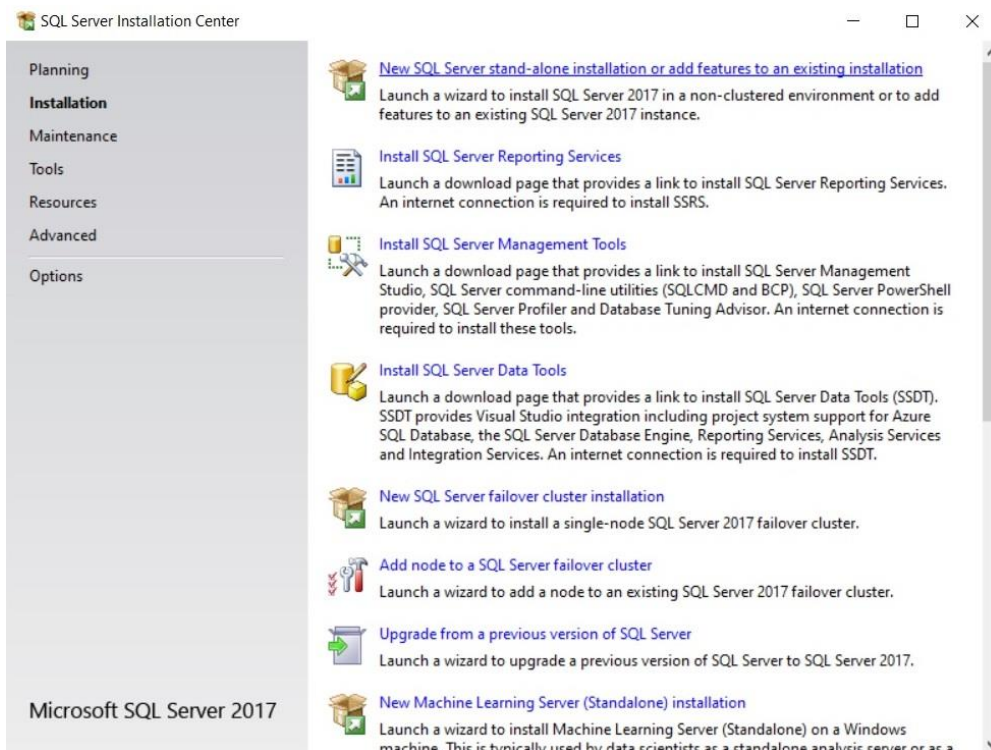
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Cancel



## Installing Microsoft SQL Server Management Studio 17.x.

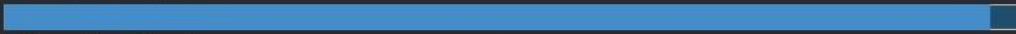




RELEASE 18.6

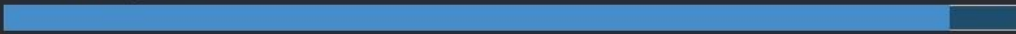
# Microsoft SQL Server Management Studio

Package Progress



Integration Services

Overall Progress



Cancel



# Installing Microsoft SQL Server Data Tools and Server Reporting.

Sql Server Configuration Manager

Файл Действие Вид Справка

SQL Server Configuration Manager (Local)

SQL Server Services

SQL Server Network Configuration (32bit)

SQL Native Client 11.0 Configuration (32b

SQL Server Network Configuration

SQL Native Client 11.0 Configuration

Items

SQL Server Services

SQL Server Network Configuration (3...

SQL Native Client 11.0 Configuration ...

SQL Server Network Configuration

SQL Native Client 11.0 Configuration

Sql Server Configuration Manager

Файл Действие Вид Справка

SQL Server Configuration Manager (Local)

SQL Server Services

SQL Server Network Configuration (32bit)

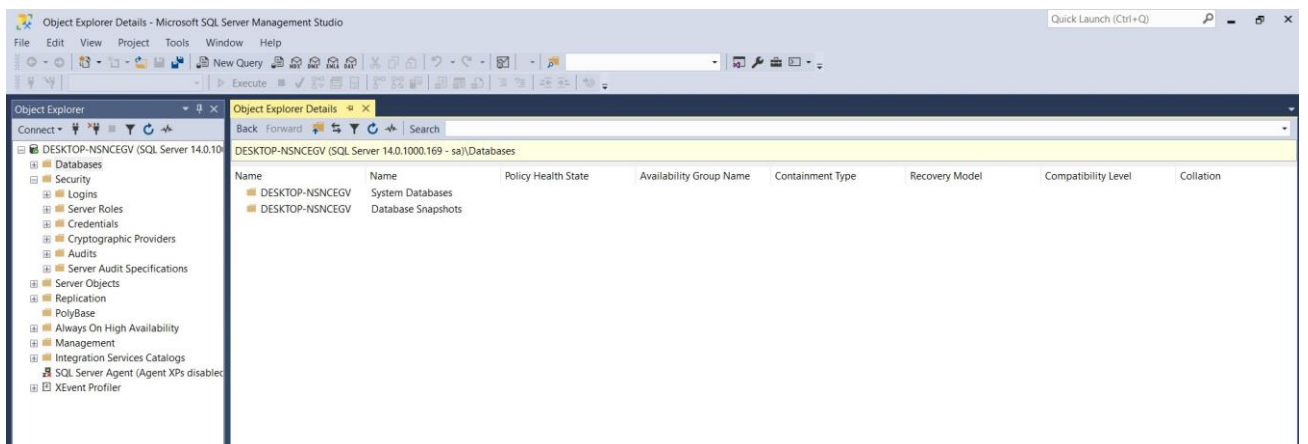
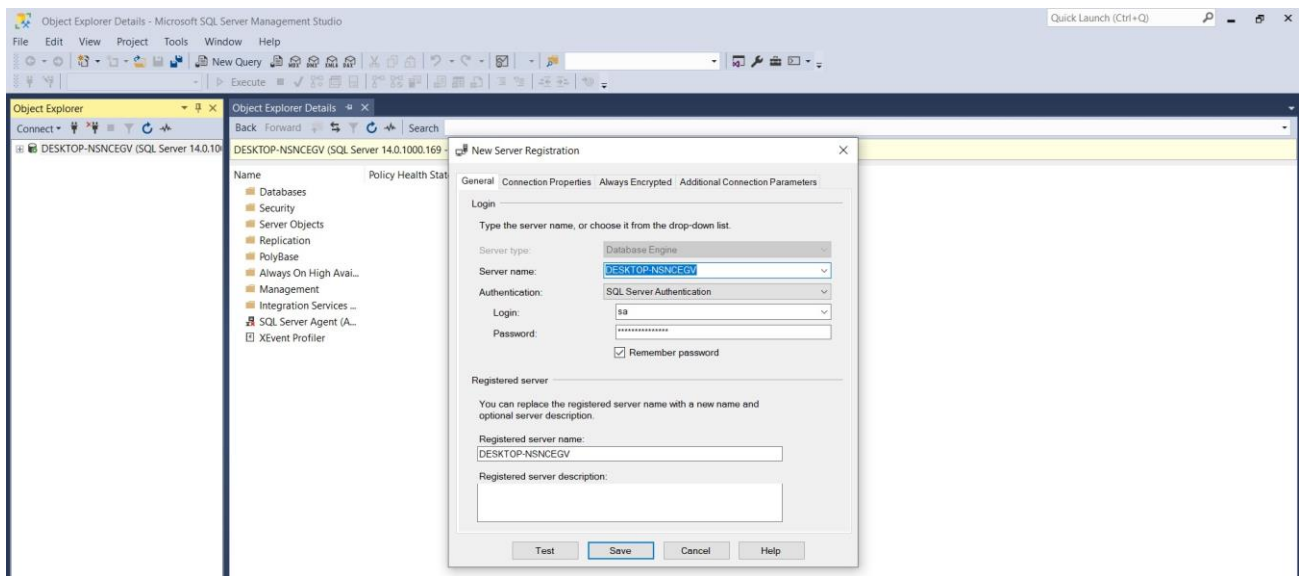
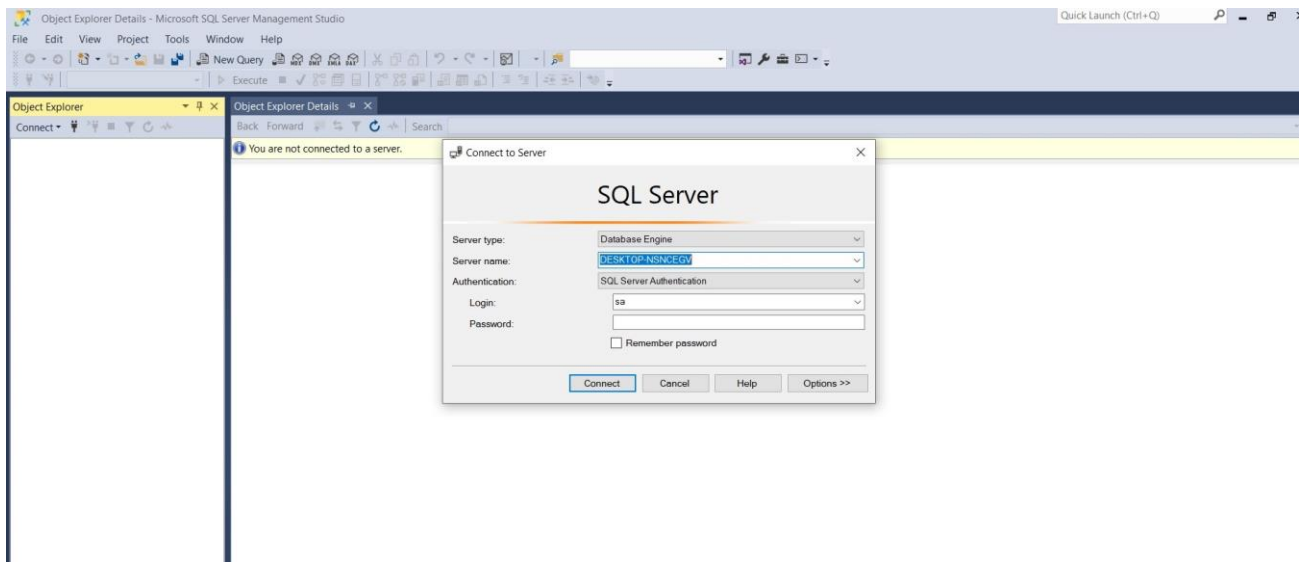
SQL Native Client 11.0 Configuration (32b

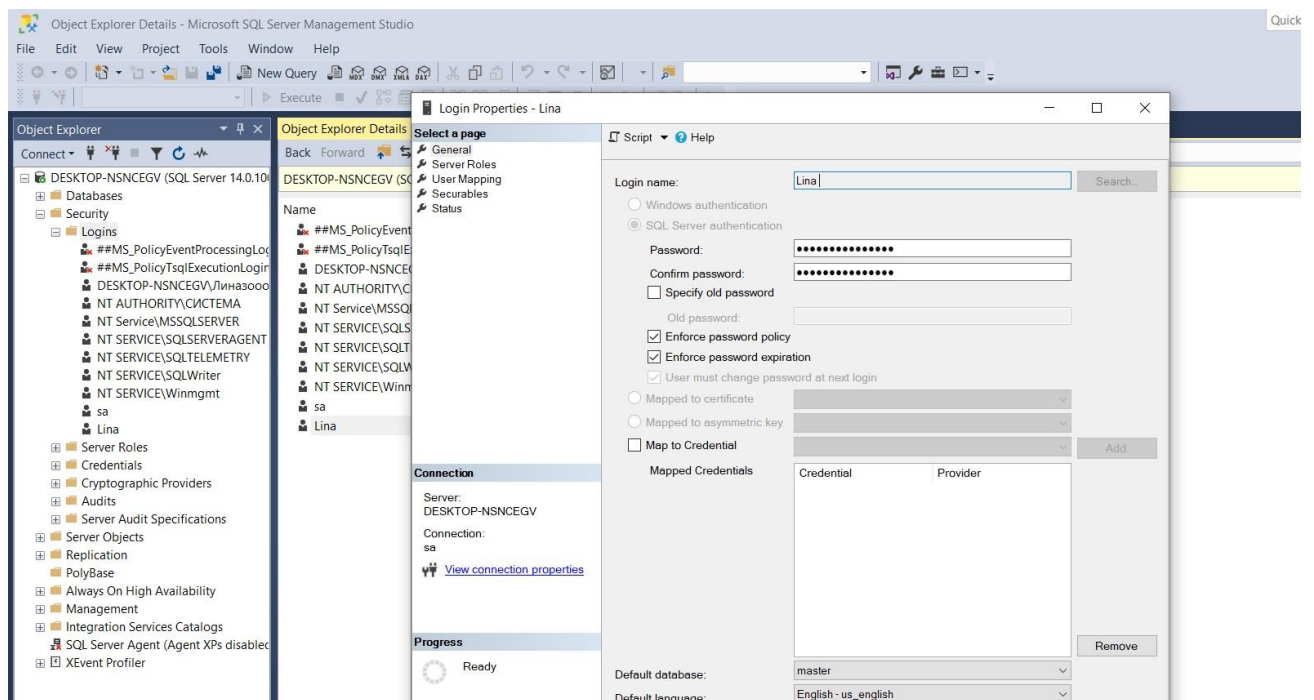
SQL Server Network Configuration

SQL Native Client 11.0 Configuration

Name	State	Start Mode	Log On As	Process ID	Service T
SQL Server Browser	Stopped	Other (Boot, System,...	NT AUTHORITY\LOC...	0	
SQL Server Analys...	Running	Automatic	NT Service\MSSQLS...	14080	Analysis
SQL Server (MSSQ...	Running	Automatic	NT Service\MSSQLS...	15776	SQL Serv
SQL Server Agent ...	Stopped	Manual	NT Service\SQLSERV...	0	SQL Age
SQL Full-text Filte...	Running	Manual	NT Service\MSSQLF...	6864	

# System logins.





## Conclusion:

During the laboratory work I learnt how to install and to configure complex system MSSQL. I learnt how to install connection to the server, register server and configure the authentication mode.