ADVANCE WORKSHOP INSTALLATION

INSTALLATION PROCEDURE



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Introduction

This guide documents the installation process of Advance Workshop on a new server. It can be used to perform new installations where everything is set up.

It can also be used for hardware migrations where a new server is set up with the application and then the database is transferred over.

Parts of this guide can also be used to guide version upgrade process, where a database backup is created, new version deployed and then the database is upgraded to the newer version.

Step	Required Action	Notes
1	VPN	Client IT department to provide connection details
2	Remote Desktop	Client IT department to provide connection details
3	SQL Server	Setup files needed, available from Microsoft. Client IT
		department to provide product key
4	SQL Server	Setup files needed, available from Microsoft.
	Management Studio	
5	Graitec License	Download from here. License key to be issued by
	Manager	Graitec.
6	Prerequisites	Software dependencies and prerequisites list provided
		by Graitec.
7	Advance Workshop	Provided by Graitec
	Application	
8	Advance Workshop	Provided by Graitec.
	Database	In case of a migration, a backup of the existing
		database will be used.
9	Creation of users	The default "Administrator" user account will be
		created by Graitec.

Summary Checklist

Other user profiles will be created by the Customer's
IT department.

Accessing the Server

Configure Client VPN

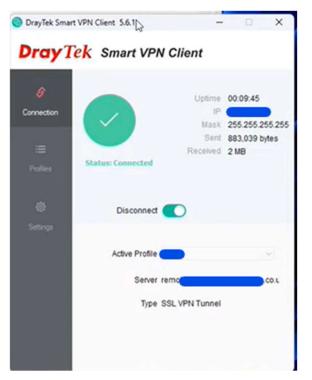
Some clients may require VPN (Virtual Private Network) to be used when accessing

their network.

In this example, the Customer's IT department have specified the VPN client and provided login details to be used. There are many VPN clients, and they all have similar interfaces allowing for the same functionality.

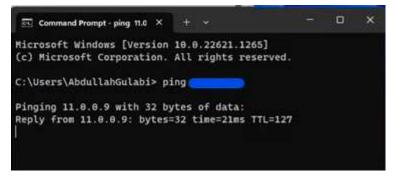
🕝 Drayī	fek Smart VPN Client 5	.6.0	-		\times
Dre	ay Tek Sm	art VPN Clier	at.		
0	Edit Profile		~	×	_
	Profile Name	-			
Conr	Server Information Type	SSL VPN Tunnel		~	
	IP or Hostname		- 4	43	
	VPN Information				
Pro	Authentication Type	Username and Passwo	rd	~	
	User Name	Graitec.Admin237			
1	Password	•••••	•		
Set	Remember My Crede	ntials	(
	Always Prompt for Cr	redentials			
	IP Property V				
	Advanced Options 🔻 -				
		ОК	Car		night run
	properly.				
		Edit	Remove	Ad	d

The VPN client provides confirmation once the connection is established.



This means we now have access to the Customer's private network through the internet. Since we are now virtually on the same network with the customer's server, we can test and see if we can ping the server.

Launch the command prompt "cmd" and type in the command "ping" and the IP address of the server.



Screenshot above shows us we are indeed getting a response from the server,

confirming our presence on the same private network as the server.

Establish Remote Connection to Client Server

Remote Desktop Connection details onto the Customer's server provided by the Customer's IT department.

Nemot 😽	te Desktop Connection	ı	-		\times
L ,	Remote De Connect				
General	Display Local Resou	rces Experience	Advance	d	
Log-on s	settings				
	Enter the name of the	e remote computer.			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Computer:			~	]
	Username:	graitec.admin23	7		
	You will be asked for	r credentials when y	ou conne	ct.	
	Allow me to save	credentials			
Connect	ion settings				
	Save the current con saved connection.	nection settings to a	an RDP fil	e or open	а
	Save	Save As		Open	

### Verify (Hardware) Resource Requirements

Verify if the client server meets the hardware resource requirements for running

Advance Workshop.

These requirements can be found on Graitec website => <u>aw-system-requirement-v2-en-</u>

1.pdf (graitec.com)



Settings		- O X
A Home	About	
Find a setting P	Your PC is monitored and protected. See details in Windows Security	This page has a few new settings Some settings from Control Panel have moved here, and you can copy your PC info so it's easier to share.
🖵 Display	Device specifications	
dŵ Sound	Device name	Related settings Device Manager
Notifications & actions	Processor GHz	Remote desktop
	Installed RAM	System protection
D Power & sleep	Product ID 0 41 System type 64-bit poenating system: 364-based and endoes DB	Advanced system settings Rename this PC (advanced)
🗂 Storage	Pen and touch No pen or touch input is available for this display.	Graphics settings
🕼 Tablet	and the second	
터 Multitasking	Rename this PC	
Projecting to this PC	Windows specifications	
> [✓] Remote Desktop	Edition Windows Server 2022 Standard	
① About	Installed on 17/11/2022 OS build 20348:1487	
	Copy Change product key or upgrade your edition of Windows	

Once hardware requirement has been verified, we can now proceed to the installation, starting with the SQL Server installation.



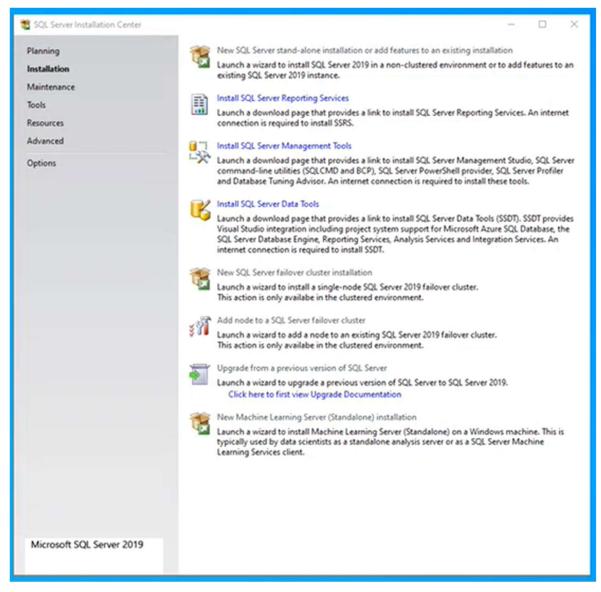
### Install SQL Server

Several versions of SQL Server can be used. This guide will cover SQL Server 2019 and

SQL Server Express.

Installation with SQL Server 2019 Standard In the SQL Server Installation Centre window, initiate a new installation with the first

option "New SQL Server stand-alone installation..."



Product Updates Installer will first check for any applicable updates.

🐮 SQL Server 2019 Setup				×
Product Updates Always install the latest upo	lates to enhance your SQL Server security and performance.			
Global Rules Product Updates Install Setup Files Install Rules Product Key License Terms Feature Selection Feature Rules Feature Configuration Rules Ready to Install Installation Progress Complete	Include SQL Server product updates Checking for updates		Skip S	ican
	Read our privacy statement online Learn more about SQL Server product updates			
	< Back	Next >	Cancel	

### A confirmation message will appear once the check for updates is complete.

SQL Server 2019 Setup		-		×
Product Updates Always install the latest up	dates to enhance your SQL Server security and performance.			
Global Rules Product Updates Install Setup Files Install Rules Product Key License Terms Feature Selection Feature Rules Feature Configuration Rules Ready to Install Installation Progress Complete	There are no updates for SQL Server found online.		Check a	gain
	Read our privacy statement online Learn more about SQL Server product updates			

#### Proceed to the next step in the installation.

#### Install Rules

SQL Server 2019 Setup			-	- 1		×
Install Rules Setup rules identify potentia can continue.	I problems that	t might occur while running Setup. Failures must be corrected b	efore Setup			
Global Rules Product Updates Install Setup Files Install Rules Product Key License Terms	Hide de	a completed. Passed: 3. Failed 0. Warning 1. Skipped 0. tails << iled report		[	Re-ru	un
Feature Selection Feature Rules Feature Configuration Rules Ready to Install Installation Progress Complete	Result ©	Rule         Consistency validation for SQL Server registry keys         Computer domain controller         Windows Firewall         SQL 2019 minimum CTP for Upgrade and Side by Side Support	Status Passed Warning Passed			
		< Back	Next 2		Cancel	

Firewall warning can be ignored at this stage, firewall configuration can be done at a later stage if required.

In this example, same server will be running both the SQL Server and the Advance Workshop application, eliminating any need for network transmission, therefore no need for firewall configuration.



#### Product Key

🐮 SQL Server 2019 Setup				×
<ul> <li>SQL Server 2019 Setup</li> <li>Product Key         Specify the edition of SQL Se     </li> <li>Global Rules         Product Updates         Install Setup Files         Install Rules     </li> <li>Product Key         License Terms         Feature Selection         Feature Rules     </li> <li>Feature Configuration Rules         Ready to Install         Installation Progress     </li> </ul>	<ul> <li>Aver 2019 to install.</li> <li>Validate this instance of SQL Server 2019 by entering the 25-character l of authenticity or product packaging. You can also specify a free edition Evaluation, or Express. Evaluation has the largest set of SQL Server feath Books Online, and is activated with a 180-day expiration. Developer edit has the same set of features found in Evaluation, but is licensed for nor development only. To upgrade from one installed edition to another, ru</li> <li>Specify a free edition:</li> <li>Evaluation</li> <li>Evaluation</li> </ul>	n of SQL Server: Devel ures, as documented i ition does not have an n-production database	oper, in SQL Se expiration e application	ite nver sn, ion
Complete	< Back	Next >	Cance	el

Enter product key and proceed to the next step in the installation.

SQL Server product key is the customer's responsibility, and their IT department will have provided this product key.

This is usually made available by the client's IT team as a text file on the server.



#### License Terms

SQL Server 2019 Setup			- 0	) ×
License Terms To install SQL Server 2019, y	rou must accept the Microsoft Software License Terms.			
Global Rules Product Updates Install Setup Files Install Rules Product Key License Terms Feature Selection Feature Rules Feature Configuration Rules Ready to Install	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2019 STANDARD These license terms are an agreement between you and its affiliates). They apply to the software named above, w you received it, if any. The terms also apply to any Micro (except to the extent such services or updates are accom terms, in which case those different terms apply prospec Microsoft's rights relating to pre-updated software or services THECE ILCENCE TERMS, YOU HAVE THE RIGHTS RELEVANT	hich includes the me soft services or soft panied by new or ac tively and do not alt rvices). IF YOU CON	edia on w ware upda dditional er your o MPLY WI	hich ates r TH
Installation Progress Complete	<ul> <li>I accept the license terms and Privacy Statement</li> <li>Notice: A paid SQL Server edition product key has been provided ensure you are entitled to this SQL Server edition with proper lice (edition) supplied.</li> <li>SQL Server transmits information about your installation experier performance data, to Microsoft to help improve the product. To privacy controls, and to turn off the collection of this information documentation.</li> </ul>	nsing in place for the p ice, as well as other usa learn more about data	oroduct ke oge and processing	. Please Y
			_	

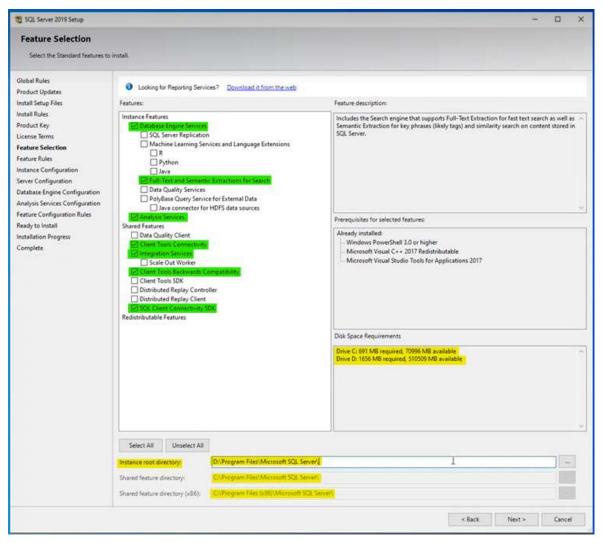
Accept the license terms and proceed to the next step of the installation.

#### Feature Selection

At this step of the installation, features to be installed are selected.

Highlighted in green and marked for installation are the following features:

- Database Engine Services
  - Full-text and semantic extractions for search
- Analysis Services
- Client Tools Connectivity
- Integration Services
- Client Tools Backwards Compatibility
- SQL Client Connectivity SDK



Pay attention to the "Instance Root Directory" to define the installation path.

Highlighted text also shows disk space requirements.

**Instance Configuration** 

Instance ID and name of the SQL Server are defined on this step.



🐮 SQL Server 2019 Setup					- 🗆 ×
Instance Configuratio	n				
Specify the name and instance	e ID for the instance of SQL Se	rver. Instance ID becomes part of the	installation path.		
Global Rules	Default instance				
Product Updates Install Setup Files Install Rules	O Named instance:	MSSQLSERVER			
Product Key License Terms	Instance ID:	MSSQLSERVER			
Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration	SQL Server directory: Analysis Services directory: Installed instances:	D:\Program Files\Microsoft SQL Ser D:\Program Files\Microsoft SQL Ser			
Analysis Services Configuration	Instance Name	Instance ID	Features	Edition	Version
Feature Configuration Rules Ready to Install Installation Progress Complete					
				< Back	Next > Cancel

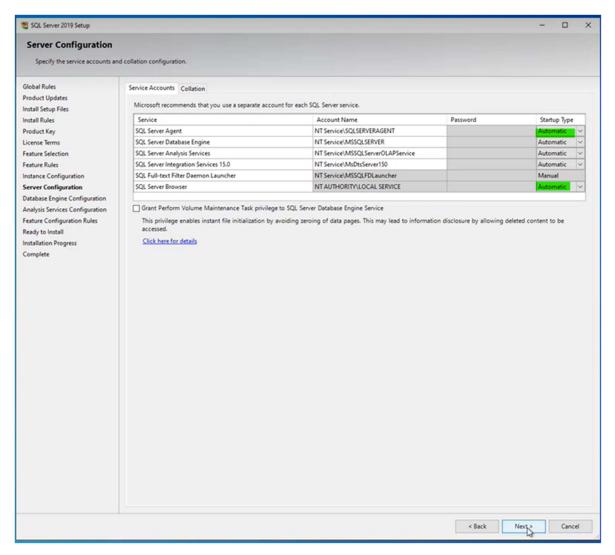
Proceed with the Default Instance and Instance ID.

Note the SQL Server Directory is as specified in the previous step.

Server Configuration

SQL Server Agent and SQL Server Browser both set to Automatic





#### Collation Tab

On the collation tab, database engine and analysis services collation configuration can

be left with defaults.



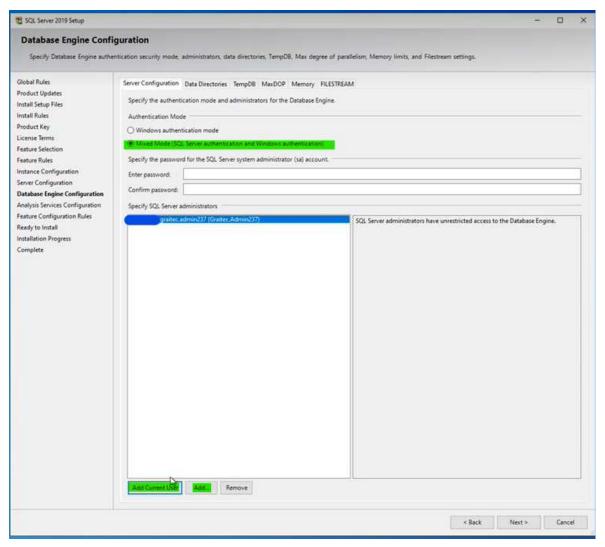
1 SQL Server 2019 Setup			-	o x
Server Configuration	d collation configuration.			
Global Rules Product Updates Install Setup Files Install Rules Product Key License Terms Feature Selection Server Configuration Configuration Database Engine Configuration Analysis Services Configuration Feature Configuration Rules Ready to Install Installation Progress Complete	Service Accounts Collation Database Engine: Latin1-General, case-insensitive, accent-sensitive, kanatype-insensitive, width-insensitive Analysis Services: Latin1-General, case-insensitive, accent-sensitive, kanatype-insensitive, width-insensitive			ustomize
		< Back	Next >	Cancel

### Database Engine Configuration

Server Configuration Tab

Authentication mode to be set to "Mixed Mode (SQL Server authentication and Windows authentication)".





Click on "Add Current User" to add the current windows user as a SQL Server

#### Administrator.

Then Click "Add" to add new users...

Select this object type	
Users, Service Accounts, Groups, or Built-in security principals	Object Types
From this location:	
Entire Directory	Locations
Enter the object names to select (examples):	
Daman Admini	Check Name
I	

Type in "domain admins" and click on "Check Names" to add them. Click OK. This will then add "domain admins" onto the list.



t SQL Server 2019 Setup		- 🗆 X
Database Engine Confi	iguration	
Specify Database Engine authority	entication security mode, administrators, data directories, TempDB, Max degree	of parallelism, Memory limits, and Filestream settings.
Global Rules Product Updates Install Setup Files Install Rules Product Key License Terms Feature Selection Feature Selection Server Configuration Database Engine Configuration Analysis Services Configuration Feature Configuration Rules Ready to Install Installation Progress Complete	Server Configuration Data Directories TempDB MaxDOP Memory FiLl Specify the authentication mode and administrators for the Database Engin Authentication Mode Windows authentication mode Mixed Mode (SQL Server authentication and Windows authentication) Specify the password for the SQL Server system administrator (sa) account. Enter password: Specify SQL Server administrators Specify SQL Server administrators Gastec administrators Domain Admins (Domain Admin:237) Domain Admins (Domain Admin:3)	L2 
		< Back Next > Cancel

Specify the SQL Server system administrator (sa) account password.



#### Data Directories Tab

t SQL Server 2019 Setup			-	
Database Engine Confi	guration			
Specify Database Engine authe	ntication security mode, administr	rators, data directories, TempDB, Max degree of parallelism, Memory limits, and Filestream settings.		
Specify Database Engine authors Global Rules Product Updates Install Setup Files Install Rules Product Key License Terms Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Analysis Services Configuration Feature Configuration Rules Ready to Install Installation Progress Complete		rectories TercoDB MaxDOP Memory FILESTREAM D:Program Files/Microsoft SQL Server/ D:Program Files/Microsoft SQL Server/MSSQL15.MSSQLSERVER/MSSQL\Data D:Program Files/Microsoft SQL Server/MSSQL15.MSSQLSERVER/MSSQL\Data		
		< Back	Next >	Cancel

Path for directories can be seen here. These are derived from the paths specified in the earlier stages.



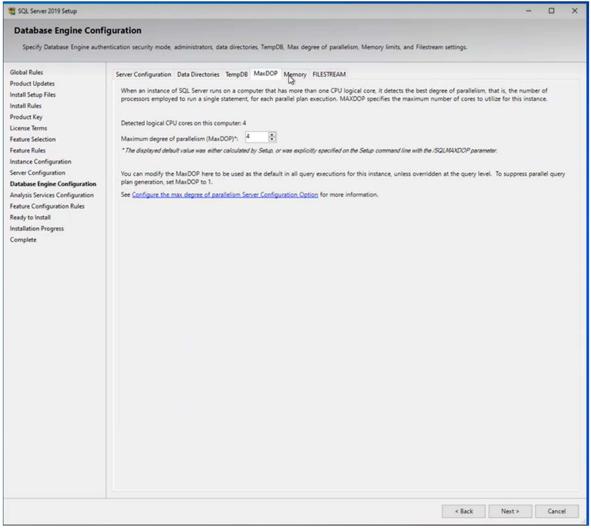
#### TempDB Tab

1 SQL Server 2019 Setup		- 0	×
Database Engine Confi Specify Database Engine authe	iguration entication security mode, administrators, data directories, TempDB, Max degree of parallelism, Memory limits, and Filestream settings.		
Global Rules Product Updates Install Setup Files Install Rules Product Key License Terms Feature Selection Feature Rules Instance Configuration Server Configuration Analysis Services Configuration Analysis Services Configuration Ready to Install Installation Progress Complete	Server Configuration       Data Directories       TempDB data files:       tempdb, mssql,#.ndf         Number of files:       4       0	Add Remove	
	Initial size (MB):       8       •       Setup could take longer with large initial size.         Autogrowth (MB):       64       •       •         Log directory:       Dt\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\Data		
	< Back Next	> Cano	e

Log directory path can be seen to match previous definitions.



#### MaxDOP Tab



This tab can be left with default values.



#### Memory Tab

1 SQL Server 2019 Setup									- 0	) ×
Database Engine Confi	guration									
Specify Database Engine authe	ntication security mode, adminis	strators, data director	ies, TempDB, Max de	egree of paral	llelism, Memory	limits, and Filest	ream settings.			
-		Arrectories TempDB memory requirements maged by the SQL Se O Recommended 0 28672 28672 and /SQLMAXMEMOR Server Memory Server	MaxDOP Merapry s dynamically based were Memory Manag Default 0 2147483647 (2147483647 2147483647 (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147483647) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (2147487) (214747) (2147487) (2147487) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214747) (214777) (214777) (214777) (2147777) (21477777) (214777777777777777777777777777777777777	FILESTREAM on available s er for this insi gour system of your system of	M system resources tance, by specif	s. However, in so ying min server r edition, unless the	me scenarios you c nemory and/or max	server memory.		
							< Back	Next >	G	incel

This tab can be left with the default settings.



#### FILESTREAM Tab

1 SQL Server 2019 Setup		-		×
Database Engine Confi	guration			
	ntication security mode, administrators, data directories, TempDB, Max degree of parallelism, Memory limits, and Filestream settings.			
Global Rules Product Updates Install Setup Files Install Rules Product Key License Terms Feature Selection Feature Configuration Database Engine Configuration Analysis Services Configuration Feature Configuration Rules Ready to Install Installation Progress Complete	Severe Configuration         Deta Directories         Temp08         Memory         FLESTREAM           Image: FLESTREAM for farmacite SCL access         Image: FLESTREAM for farmacite SCL access         Image: FLESTREAM for farmacite SCL access           Image: FLESTREAM for farmacite SCL access         Image: FLESTREAM for farmacite SCL access         Image: FLESTREAM for farmacite SCL access           Image: FLESTREAM for farmacite SCL access         Image: FLESTREAM for farmacite SCL access         Image: FLESTREAM for farmacite SCL access           Image: FLESTREAM for farmacite SCL access         Image: FLESTREAM for farmacite SCL access         Image: FLESTREAM for farmacite SCL access			
	< Back Next	>	Canc	el

First checkbox "Enable FILESTREAM for Transact-SQL access" should be checked and can now proceed to the next step of the installation.



#### Analysis Services Configuration

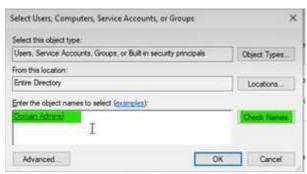
#### Server Configuration Tab

1 SQL Server 2019 Setup		- 🗆 X
Analysis Services Con Specify Analysis Services serv	onfiguration erver modes, administrators, and data directories.	
Global Rules Product Updates Install Setup Files Install Rules Product Key Licence Terms Feature Rules Instance Configuration Server Configuration Database Engine Configuration Analysis Services Configuration Feature Configuration Rules Ready to Install Installation Progress Complete	Domain Admins (Domain Admins)	ars have unrestricted access to Analysis Services.
	Add Current User Add. Remove	
		< Back Next > Cancel

Current user and domain admins should be added as users with admin privileges.

Click on "Add Current User" to add the current windows user as a user with admin privileges.

#### Then Click "Add" to add new users...



Type in "domain admins" and click on "Check Names" to add them. Click OK. This will then add "domain admins" onto the list.

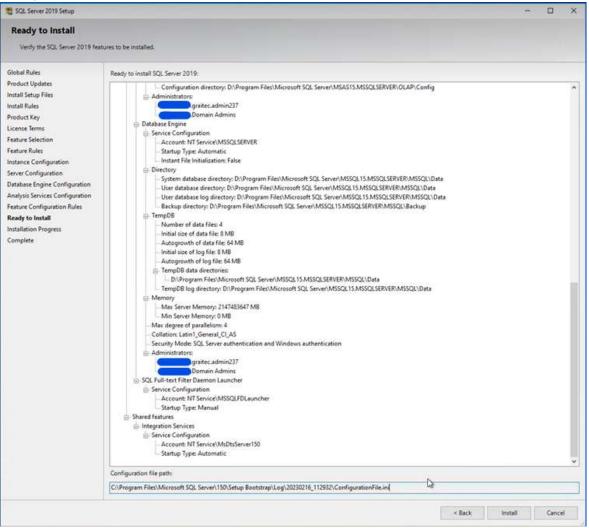
#### Data Directories Tab

1 SQL Server 2019 Setup		· □ ×
Analysis Services Confi	figuration	
Specify Analysis Services server	er modes, administrators, and data directories.	
Global Rules Product Updates Install Setup Files Install Rules Product Key License Terms Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Analysis Services Configuration Feature Configuration Rules Ready to Install Installation Progress Complete	Server Configuration         Data Directories           Specify the data directories for SQL Server Analysis Services.         Data directories         Dirk/Drogram Files/Microsoft SQL Server/MSASTS/MSSQLSER/ER/OLAP/Data           Log file directory:         Dirk/Drogram Files/Microsoft SQL Server/MSASTS/MSSQLSER/ER/OLAP/Log         Image: Configuration of Con	
	< Back Next >	Cancel

Data Directories file paths can be managed on this screen. Default configuration can be used.



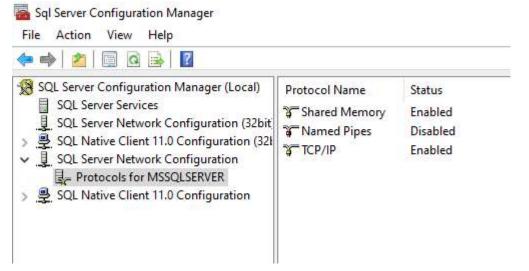
#### Ready to Install



A summary screen with all the features and configurations is displayed. Click on

"Install" to continue.

#### SQL Server Configuration Manager



#### Installation of SQL Express Advanced

When installing SQL Express version, it is key to install the advanced version

It can be downloaded here :

 https://download.microsoft.com/download/7/c/1/7c14e92e-bdcb-4f89-b7cf-93543e7112d1/SQLEXPRADV_x64_ENU.exe

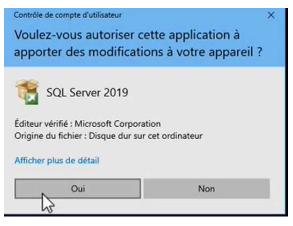
or

- https://www.graitec.info/Prerequisites/MsSql/SQLEXPRADV/2019/SQLEXPRADV_x64 ENU.exe
- 1) Download and extract the package



After downloading, open the downloaded file and agree on extraction.

#### It should launch SQL Server 2019 installer



If not, find in the extracted format the setup.exe file and double click

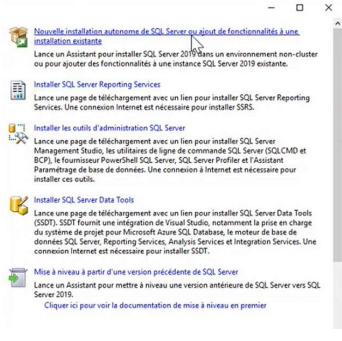
$\rightarrow \uparrow \uparrow \downarrow \rangle$	Ce PC > Téléchargements > SQLEXI	PRADV_x64_FRA >		
	Nom	Modifié le	Туре	Taille
Accès rapide	1036_FRA_LP	17/02/2023 15:45	Dossier de fichiers	
Bureau	redist	17/02/2023 15:45	Dossier de fichiers	
Téléchargement:	* resources	17/02/2023 15:45	Dossier de fichiers	
Documents	* k64	17/02/2023 15:45	Dossier de fichiers	
📰 Images	AUTORUN	24/09/2019 22:22	Informations de c	1 Ko
CePC	MEDIAINFO	24/09/2019 22:22	Document XML	1 Ko
LEPL	Packageld.dat	17/02/2023 15:45	Fichier DAT	1 Ko
Réseau	SETUP .	24/09/2019 22:22	Application	140 Ko
	SETUP.EX ONFIG	24/09/2019 22:22	Fichier CONFIG	1 Ko
	SOLSETUPBOOTSTRAPPER.D	LL 24/09/2019 22:22	Extension de l'app	244 Ko

As result, the SQL Server Installation Center should open.



📸 SQL Server Installation Center		<u>100</u> 97	
Planning	New SQL Server stand-alone installation or add features to an existing	install	ation
Installation	Launch a wizard to install SQL Server 2019 in a non-clustered environm features to an existing SQL Server 2019 instance.	nent o	r to add
Maintenance			

#### 2) Launch a new installation



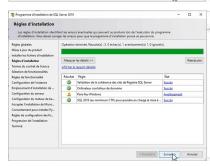
 $\Rightarrow$  <u>initialisation</u>

#### Few windows are running automatically :

SQL Server 2019								
Veuillez patienter per	ndant que le programme d'installation de Microsoft S	SQL Server 2019 traite	l'opération actuelle.	_				
🐮 Programme d'installation de SQL S	ierver 2019	– o ×	🐮 Programme d'installation de SQ	Genuer 2019	- 0 × [	Togramme d'installation de SC	31 Server 2019	- 0 >
Règles globales Les règles globales du programm les fichiers de support du progra	ne d'installation identifient les problèmes qui peuvent se produire lonque vou amme d'installation de SQL Server. Vous devez corriger les erreurs pour que l	s installez le program	Mises à jour du produ		d	Mises à jour du produ		
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 $\Rightarrow$  Licence agreement

#### Click next and validate the licence terms :

Lance un Assistant pour installer SQL Servi ou pour ajouter des fonctionnalités à une i Installer SQL Server Reporting Services Lance une page de téléchargement avec u Services. Une connexion Internet est néces	nstance SQL Server 2019 exis		L Server 2019	-	0	×		- ×
Installer les outils d'administration SQL Set Lance une page de téléchargement avec u Management Studio, les utilitaires de ligne BCP), le fournisseur PowerShell SQL Serve Paramétrage de base de données. Une cor	n lien pour installer SQL Ser de commande SQL Server , SQL Server Profiler et l'Ass	Termes du contrat de Pour installer SQL Server 2019	licence , vous devez accepter les termes du contrat de licence logiciel Microsoft.				rcher dans : SQLE)	(PRA , p
Installer ces outils. Installer SCL Server Data Tools Lance une page de téléchargement avec ur (SSDT). SSDT fournit une intégration de tŵr données SQL Server, Reporting Services, A connexion Internet est nécessaire pour indi Mise à niveau à partir d'une version précéé Lance un Assistant pour mettre à niveau u Server 2019. Cliquer ici pour voir la documentation	ual Studio, notamment la p s QL Database, le moteur e nalysis Services et Integratic ialler SSDT. Iente de SQL Server ne version antérieure de SQ	Règles globales Mises à jour du produit Installer les fichies d'installation Règles d'installation Termes du contrat de licence Sélection de fonctionnalité Regles de fonctionnalité Configuration de l'instance Emplacement d'installation de Configuration du noteur de Bas Accepter l'installation de Micro Consentement pour installer Py Règles de configuration de rfo	TERMES DU CONTRAT DE LICENCE LOGICIEL MICROSOFT MICROSOFT SQL SERVER 2019 EXPRESS Les présentes conditions de licence constituent un contrat entre vous et M (ou l'un de sea affiliés), lis s'appliquent au logiciel désigné c'dessus et au jour de logiciels fournis par Microsoft (à moins que d'autres termes n'acc éléments, auquel cas ces denières s'appliquent prospectivement et ne moi ni ceux de Microsoft en ce qui concerne les logiciels ou services mis à jou VOUS VOUS CONFORMEZ AUX PRÉSENTES CONDITIONS DE LICENCE, DIXOTS CI-DESSOUS, EN UTILISANT LE LOGICIEL, VOUS ACCEPTEZ CES NE LES ACCEPTEZ PAS, N'UTILISEZ PAS LE LOGICIEL. AVIS IMPORTANT : MISES À JOUR AUTOMATIQUES DES VERSIONS AM CEDIERS : La logiciel de timetable ser des computes ou démodrife présentement	x services ou ompagnent difient pas v ir au préalab VOUS AVEZ S TERMES. S NTÉRIEURES	i mises à ces os droits ile). SI LES I VOUS	5 5		
Services Performances Résultats BPA		Progression de l'installation Terminé	J'accepte les termes du contrat de licence et la <u>Declaration de confidentialité</u> SQL Server transmet à Microsoft des informations sur votre expérience d'installati     données d'utilization et de performance, afin de contribue à l'amélioration du pr     savoir plus aur le traitement des données et les poins de contrôle de policique,     de ces informations après l'installation, consultes la <u>documentation</u> .	ion, ainsi que roduit. Si vous	voulez e			

3) Select specific functionalities

#### You should only keep :

- Text extraction & Semantic seach (under BDD engine services)
- And the mandatory kit

<ul> <li>Services Moteur de base de données</li> <li>Réplication SQL Server</li> <li>Machine Learning Services et extensions de langage</li> <li>R</li> <li>Python</li> <li>Java</li> <li>Extraction en texte intégral et extraction sémantique de recherche</li> </ul>
Machine Learning Services et extensions de langage R Python Java
R Python Java
Python Java
Java
Extraction en texte intégral et extraction sémantique de recherche
Service de requête PolyBase pour données externes
Connecteur Java pour les sources de données HDFS
nctionnalités partagées
Connectivité des outils clients
Compatibilité avec des outils clients antérieurs
Kit de développement logiciel (SDK) des outils clients
Kit de développement logiciel (SDK) de l'option Connectivité client de SQL
Base de données locale
nctionnalités redistribuables

#### **Click Next**

Programme d'installation de SQL	Server 2019		- 0 X	
Sélection de fonctionn Sélectionnez les fonctionnalité				
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	Répertoire des fonctionnalités partagées :	ClProgram Files/Microsoft SQL Server\ ClProgram Files/Microsoft SQL Server\ ClProgram Files (MRI/Microsoft SQL Server\		0
			< Didektert Songer> Annuker	I,

4) Select Default Instance

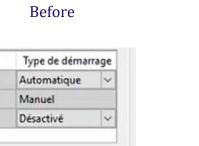
🐮 Programme d'installation de SQL	Server 2019			5.2. F. A.	- 0 ×
Configuration de l'ins Spécifiez le nom et l'ID d'insta		er. L'ID d'instance devient partie intégrante du chemin d'installation.			
Règles globales Mises à jour du produit Installer les fichiers d'installation	Instance par défaut     Instance nommée :	SQLEXPRESS			
Règles d'installation Termes du contrat de licence Sélection de fonctionnalités	ID d'instance :	SQLEXPRESS			]
Règles de fonctionnalité Configuration de l'instance Configuration du serveur Configuration du moteur de ba	Répertoire SQL Server : 0 Instances installées :	C/Program Files/Microsoft SQL Server/MSSQL15.SQLEXPRESS			
Regis de configuration de la co- progression de l'institution Terminé	Nem de l'instance	D d'instance	Fendionalités	Editon	Version
					< Précédent Suivant > Annuler

#### And click Next

#### 5) Modify server configuration parameters

Nom du compte	Mot de passe	Type de démarrage
NT Service\MSSQLSERVER		Automatique 🗸
NT Service\MSSQLFDLauncher		Manuel
NT AUTHORITY/LOCAL SERVICE		Automatique 🗸
tonnées SQL Server Ses. Cela peut entraîner la divulgation d'informations en autorisant l'accès au contenu supprimé.		<b>N</b>
	NT SenierAMSQUESHER NT SenierAMSQUESHundher NT AUTHORITYLLOCAL SERVICE tomnées SQL Server	NT SenietMISQ2USRUR NT SenietMISQ2USRURUNDHE NT AUTHORITYLOCAL SERVICE

#### Set the BDD Engine and SQL browser to Automatic start :



A	f	te	er

Automatique	~
Manuel	
Automatique	~

6) Modify more configuration data

Be careful, we have to modify different tabs. Do no click on next until documentation say

**SO.** 

- $\Rightarrow$  On tab Server configuration :
  - Select Mode mixte

Configuration du serveur Répertoires de données tempdb Mémoire Instances utilisateur FILESTRE/	Configuration du serveur Répertoires de données tempdb Mémoire Instances utilisateur FILESTREAM
Spécifiez le mode d'authentification et les administrateurs du moteur de base de données.	Spécifiez le mode d'authentification et les administrateurs du moteur de base de données.
Mode d'authentification	Mode d'authentification
Mode d'authentification Windows	O Mode d'authentification Windows
O Mode mixte (authentification SQL Server et authentification Windows)	Mode mixte (authentification SQL Server et authentification Windows)
Spécifiez le mot de passe pour le compte d'administrateur système (sa) SQL Server.	Spécifiez le mot de passe pour le compte d'administrateur système (sa) SQL Server.
Entrer le mot de passe :	Entrer le mot de passe :

#### Before

#### After

#### • Select Admin users for database TAB (you should already be on it)

#### 1. Click on Add button, advanced button and then search button

écifiez le mode d'authentification et les administrateurs du moteur de bas			
de d'authentification			
Mode d'authentification Windows			
Mode mixte (authentification SQL Server et authentification Windows)			
écifiez le mot de passe pour le compte d'administrateur système (sa) SQL			
nfirmer le mot de passe :			
icifier les administrateurs SQL Server K-TSE\admin.armaplus (admin.armaplus)			
ke tastiauminiarmapius (auminiarmapius)	To Programme d'installation de SC	L Server 2019	
	Sélectionnez des utilisateurs ou d		×
	Sélectionnez le type de cet objet :		
	des utilisateurs, des groupes ou Prin	cipaux de sécurité intégrés	Types d'objets
	A partir de cet emplacement :		
	TGK-TSE		Emplacements
	Entrez les noms des objets à sélection	nner ( <u>exemples</u> ) :	
	1		Vénfier les noms
	Aumai		OV Annular
uernouner oes neusenens on nes Annhes	Avancé Configuration de l'instance	Spécifiez le mot de passe por	OK Annuler ur le compte d'administrate
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Vestionnez des utilisateurs ou des groupes  Sélectionnez des utilisateurs ou des groupes  Sélectionnez le type de cet objet :  Sélectionnez le type de cet objet :  Apatir de cet emplacement :	Configuration de l'instance	Spécifiez le mot de passe por	
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	Configuration de l'instance	Spécifiez le mot de passe por	
	Configuration de l'instance X Types d'objets Emplacements	Spécifiez le mot de passe por	

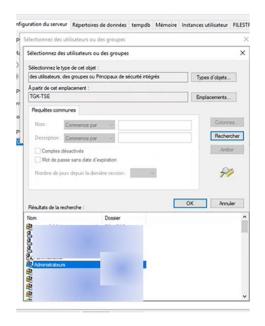
2. Select the user that is going to do the admin of advance workshop database and click OK



	le type de cet objet : irs, des groupes ou Principaux o	de sécurté intégrés	Types d'obiets
A partir de cel	t emplacement :		
TGK-TSE			Emplacements
Requêtes o	ommunes		
Nom :	Commence par v		Colonnes
Descriptio	n: Commence par 🗸		Rechercher
Compte	es désactivés		Arritter
	passe sans date d'expiration		
Nonbre d	le jours depuis la dernière sessio	on: 🗠	<del>?</del>
Nonbre d	le jours depuis la dernière sessio	on: 🗸	<del>?</del> "
Nonbre d	le jours depuis la dernière sessio	m: v	<i>9</i> /
	le jours depuis la dernière sessi la recherche :	n: v	OK Annuler
Résultats de l		on:	OK Annuler
Résultats de l			OK Annuler
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Résultats de l			OK Ander
Résultats de l	la recherche :	Dosser	OK kender
	la recherche :	Dosser	OK Arnsker

3. Same process for the user dedicated to Armaplus (if any)

#### 4. Same process with the group of Administrators (if any)



Click OK to come back to configuration screen

The selected names should now be in the box below "Select administrator" If there is no name, then it means that the only administrator of the database will be "sa" (for system admin), and thus will be the only one that can be used to do admin

	teur de base de données onnées, spécifiez le mode de sécurité de l'authentification, les administrateurs, les répertoires de données, TempD8, le degré maximal de parailélisme, les	limites de mémoire et les paramètres FileStream.	
Règles globales Mises à jour du produit Installer les fichiers d'installation Règles d'installation Termes du contrat de licence Sélection de fonctionnalités	Configuration du serveur Repetatives de données tempdo Mémoire Instances utilisateur FILESTREAM     Spécifies le mode d'authentification et les administrateurs du moteur de base de données.     Mode d'authentification     Mode d'authentification Windows     Mode multi-guithentification QL Server et authentification Windows)		
Règles de fonctionnalité Configuration de l'instance Configuration du serveur	The number of the passe pour le compte d'administrateur système (sa) SQL Server.      There in mot de passe:		
Configuration du moteur de b Règles de configuration des fo Progression de l'installation	Confirme la mol de passe l		
Terminé	1004 SEA series serangelas (dente a serangelas) 1064 SEA Merco Madecka (dente a serangelas) BUILTIN-Administrateurs (Administrateurs)	es administrateurs SQL Server bénéficient d'un accès illimité au moteur de base de données.	

5. Enter the password for admin

operate in more posse po	our le compte d'administrateur sy
Entrer le mot de passe :	•••••
Confirmer le mot de passe :	

Should have 10 car 1 letter, 1 capitalize car and a number

#### o Select FILESTREAM tab

Select Active FILESTREAL as per below image

ègles globales fises à jour du produit	Sonfiguration du serveur Répertoires de données tempdb Mémoire Instances utilisateur FILESTREAM			
staller les fichiers d'installation	Activer FILESTREAM pour l'accès Transact-SQL Activer FILESTREAM pour l'accès aux E/S de fichier			
gles d'installation				
rmes du contrat de licence lection de fonctionnalités	Nom de partage Windows : MSSQLSERVER			
gles de fonctionnalité onfiguration de l'instance onfiguration du serveur	Autoriser les clients distants à avoir un accés aux données FILESTREAM			
nfiguration du moteur de b gles de configuration des fo				
ogression de l'installation rminé				

7) Carry on by clicking next till the end



Installation with SQL Server Developer Edition

### **Install Prerequisites of Advance Workshop** Prerequisites can be found on **INSERT LINK HERE**

SQL Server Management Studio Installation of SQL Server Management Studio

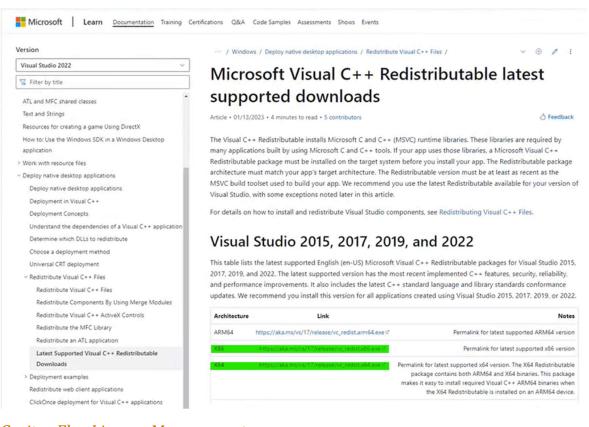
Microsoft Visual Studio Redistributable Download and install both.

Permalink for latest supported x86 version:

https://aka.ms/vs/17/release/vc redist.x86.exe

Permalink for latest supported x64 version:

https://aka.ms/vs/17/release/vc_redist.x64.exe



#### Graitec Flex License Management

License Utilities

Download and install the following License components:

https://www.graitec.info/Prerequisites/Graitec/2023.1/GRLICInstaller.msi

License Manager

https://www.graitec.info/Advance2023.1/LicenseServer/LicenseServerInternational.

<u>msi</u>

#### Advance Workshop Licenses

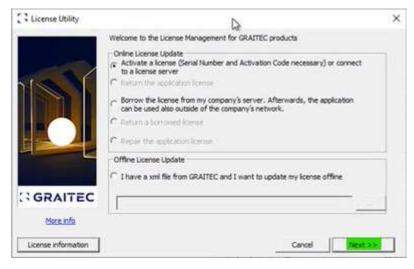
Advance Workshop licenses issued by Graitec need to be installed. This can be done by entering a product key or via an XML file.

#### **Network Licenses**

・ 个  ・ This PC	<ul> <li>Local Disk (</li> </ul>	C:) > Program Files (x86) > Common Files	Graitec		~ õ	, Search Graitec
		Name ^	Date modified	Туре	Size	
🖈 Quick access		FlexUtility.dll	19/12/2022 02:28	Application exten	3,482 KB	
Documents	*	FlexUtility_libFNP.dll	19/12/2022 02:28	Application exten	4,930 KB	
Downloads	*	FnpCommsSoap.dll	16/08/2022 00:20	Application exten	416 KB	
E Pictures	*	GraitecInfo2.dll	19/12/2022 02:28	Application exten	1,363 KB	
Desktop		GraitecLicenseWizard.adb	19/12/2022 02:29	ADB File	1,924 KB	
		GraitecLicenseWizard.dll	19/12/2022 02:28	Application exten	2,732 KB	
This PC		grflexw.dll	19/12/2022 02:28	Application exten	5,285 KB	
DVD Drive (E:) SqlSetup_x64	ENU	grflexw_libFNP.dll	19/12/2022 02:28	Application exten	4,930 KB	
		grflexwserver	19/12/2022 02:28	Application	5,047 KB	
Network		grflexwserver_libFNP.dll	19/12/2022 02:28	Application exten	4,930 KB	
		S InfoUsage.dll	19/12/2022 02:28	Application exten	129 KB	
		LexActivator.dll	08/12/2022 07:10	Application exten	1,050 KB	
		LexFloatClient.dll	08/12/2022 07:10	Application exten	831 KB	
		LicenseUtility	19/12/2022 02:28	Application	413 KB	
		LicenseUtility_libFNP.dll	19/12/2022 02:28	Application exten	4,989 KB	
		LicenseUtilityNetwork	19/12/2022 02:28	Application	4,139 KB	
		LicenseUtilityNetwork_libFNP.dll	19/12/2022 02:28	Application exten	4,989 KB	
		LicenseUtilityTools.adb	19/12/2022 02:29	ADB File	636 KB	
		i resourcesGui.dll	19/12/2022 02:28	Application exten	278 KB	
		🔄 sqlite3x86_lic.dll	16/08/2022 00:20	Application exten	685 KB	
		Toolinfo.dll	19/12/2022 02:28	Application exten	206 KB	

# Launch "LicenseUtilityNetwork" located in C:\Program Files (x86)\Common

#### **Files\Graitec**



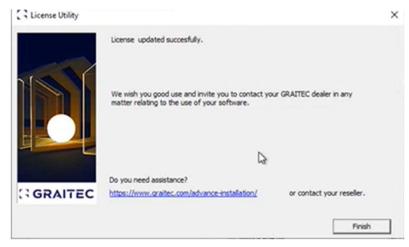
Click next to proceed.

C License Utility	Select an action :	×
	C Activate a license (Serial Number and Activation Code necessary)	
	Connect to a license server (server hostname necessary)	
	Do you need assistance?	
GRAITEC	https://www.graitec.com/advance-installation/ or contact your	reseller.
	Cancel < <previous< td=""><td>Next &gt;&gt;</td></previous<>	Next >>

Enter the hostname for the license server and specify Port as "7621".

License Server Server Name Port 7621		_
C Overwrite existing GRAITEC license settings	K	

### Click Next to proceed.



Prerequisites Specific to Advance Workshop Steel 01 - AWS Release



### **BIM Designer Modules**

Documents > 01 - Product > Advance Workshop - Steel > 00 - Product - Installation & News > 01 - AWS Release

<ul> <li>00 - PRE-REQUISITES</li> <li>01 - LAUNCHER</li> <li>02 - ADVANCE WORKSHOP</li> <li>03 - BIM DESIGNER MODULES</li> <li>04 - OPTIMAL</li> </ul>		Name V	Description $ \smallsetminus $
02 - ADVANCE WORKSHOP 03 - BIM DESIGNER MODULES		00 - PRE-REQUISITES	
03 - BIM DESIGNER MODULES		01 - LAUNCHER	
		02 - ADVANCE WORKSHOP	
04 - OPTIMAL	-	03 - BIM DESIGNER MODULES	
		04 - OPTIMAL	
05 - MISC		05 - MISC	
EN-AWS-BUG_ON_DEVOPS.docx		EN-AWS-BUG_ON_DEVOPS.docx	
EN-AWS-INSTALLATION_TEST.docx		EN-AWS-INSTALLATION_TEST.docx	
FR-AWS-INSTALLATION_TEST.docx		FR-AWS-INSTALLATION_TEST.docx	

#### OPTIMAL

This is used for nesting.

Unzip and place in path

### C:\Program Files\Graitec\Components\Optimal

Graitec	> Components > Optimal		~ (	C Q Search	n Optimal	
*	Name		Date r	nodified	Туре	Size
*	📄 optimal1dx.lib		04/10/	/2022 05:39	LIB File	2 KB
*	🗟 optimal1dx_64.dll		04/10/	/2022 05:39	Application extension	410 KB
*	🗟 optimal2dx.dll		04/10/	/2022 05:39	Application extension	549 KB
*	optimal2dx.lib		04/10/	/2022 05:39	LIB File	2 KB
*	🖲 regdll		04/10/	/2022 05:39	Windows Batch File	1 KB
	9	K (D (		Û		
	E	Open		Enter		
	E	🔋 Run as ad	Iministrator			
	T	🏠 Add to Fa	vourites			
	F	Compress	to Zip file			

For optimal : Extract the files to c:\Program Files\Common Files\Graitec\ and launch regdll.bat as Administrator

## Advance Workshop

### Installing the Application

Advance Workshop is installed simply by copying the folder containing the binaries for the version.



A new version can be installed alongside any older versions simply by copying the version folder.

When performing hardware migrations, it is possible to copy the version in use on the old server, onto the new server, this will simply move the same version over to the new server hardware.

Screenshot below shows the folder containing the Advance Workshop application on an existing (old) server.

The application is installed on the "D" drive, and the version folder is named "Arma" and located in the "Armaplus" folder.

1 🖓 🔝 🗉 👘	Application Tools	,	Arma		_ <b>D</b> X
File Home Share	View Manage				✓ Ø
🔆 🕙 • 🕆 🗼 • This P	C + Data (D:) + Armaplus + Arma			マ C Search Arma	Q
Favorites	Name *	Date modified 30/04/2022 18:30 02/12/2021 11:46	Type File tolder File folder	Size	-
3. Recent places	<ul> <li>3OF9</li> <li>ACAD3D</li> </ul>	08/08/1995 12:11 23/08/2007 10:47	TrueType font file Application	16 KB 208 KB	
🐴 This PC	<ul> <li>ACAD3D2000</li> <li>ACAD3D2005</li> </ul>	23/08/2007 10:47 23/08/2007 10:47	Application Application	208 KB 208 KB	
Ketwork 💽	ACAD3D2008     Mir Accounts (O) - Shortcut     AlDE03	23/08/2007 10:46 15/12/2020 09:58 01/10/1998 12:52	Apple G Short Help	APlus Pro	Security Details Previous Version
	AIDE05     allemand.wdm     anglais.wdm	26/03/1999 11:11 16/11/2012 11:52 16/11/2012 11:47	Help Property WDM Descripti	Value on ption Advance Workshop Application	
	ApGtc.dll     apidsp_windows.dll     apidsp_windows.x64.dll	29/04/2020 18:12 15/09/2014 07:22 15/09/2014 07:21	Applie Product ne	and the second se	
	APlus - Shortcut APlus.Configuration.dll APlus.Configuration.pdb	31/10/2017 11:23 12/10/2020 17:59 07/03/2017 18:22	Short Size Date modil Applie Language	1.51 MB fied 25/01/2022 07:53	
	APlus.Container.dll APlus.dl Gr APlus.dl	22/11/2021 16:24 23/09/2021 08:38	Applie Applie		
	APlus.exe     APlus.lndustry.DeviceManager.dll	25/01/2022 07:53 19/01/2017 10:52 12/10/2020 17:59	Apple XML ( Apple		
	APlus.Industry.Exceptions.dll APlus.Industry.Exceptions.pdb	12/10/2020 17:59 07/03/2017 18:22	Apple PDB F		
58 items 1 item sele	APlus.Industry.Framework.dll     APlus.Industry.Framework.pdb  cted 1.51 MB State: 23 Shared	12/10/2020 09:44 07/03/2017 18:22	Appli- PDB F	operties and Personal Inform	Cancel Apply

Copying the entire "Arma" folder onto the new server will mean that the same version (20.22.4.1 in this example) will run on the new server.

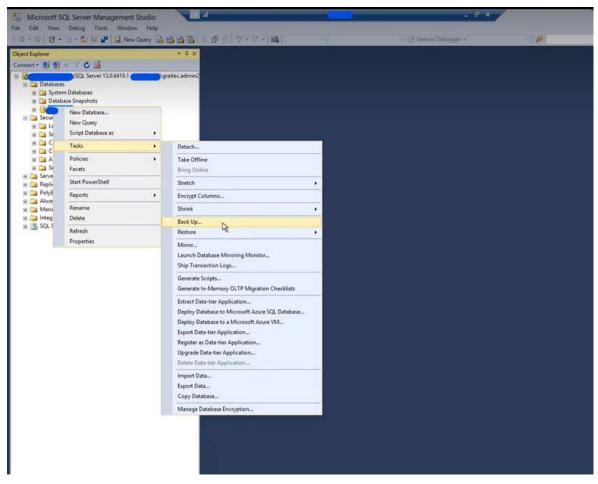
For new installations, follow the restore backup process to install the database configured for the client onto the server.

### Database Backups

Creating a Database Backup Using SQL Server Management Studio Connect to the server hosting the database.

Expand the "Databases" folder and right click on the Database that is being backed up.

On the Right click menu, under "Tasks", select "Back Up..."



Back Up Database screen will pop up.



U	B	ack Up Database -	_ 0 X
Select a page	Script 🔹 🚺 Help		
Media Options Backup Options	Source		
	Database:		~
	Recovery model:	SIMPLE	
	Backup type:	Full	~
	Copy-only backup		
	Backup component:		
	<ul> <li>Database</li> </ul>		
	O Files and filegroups:		
	Destination		
	Back up to:	Disk	~ ~
Connection			Add
Server:			Remove
Connection: gratec.admin237			Contents
Wew connection properties			
Progress			
Ready			
			OK Cancel

To save the backup file on the disk, select "Disk" under "Destination > Back up to" and then click "Add" do add a destination path and filename.

	Select Backup Destination
	lie or backup device for the backup destination. You can create vices for frequently used files.
Destination	s on disk
• File	name: SOL Server/MSSOL13 MSSOLSERVER/MSSOL\Backup!
	skup device:
	~
	OK Cancel
	·

Define file path and filename and use ".bak" extension when defining the filename. At the restore stage, backup file will not be recognized without the expected ".bak" extension.

Click "OK" on the "Back Up Database" window to initiate the backup file creation.

2 B • F	Backup			
Home Mare View				
Burn to disc     Print     Fax     Fax				
Send Share with	07/04/2017 09:36	100	2,400,100 ND	
J. Zip 7040	07/04/2017 10:01	Compressed (zippe	270.361 KB	
Create a compressed (zipped)	17/01/2019 13:27	BAK File	4.461.896 KB	
folder that contains the selected 90117	30/01/2019 11:07	File	4.520.264 KB	
1 20100210	19/07/2019 09:47	File	4,984,136 KB	
Network 20190719	19/07/2019 09:54	Compressed (zippe	577,688 KB	
230617	23/06/2017 12:06	File	2,729,288 KB	
230617	23/06/2017 12:15	Compressed (zippe	303,199 KB	
30917	03/09/2018 16:54	File	4,074,888 KB	
030917	03/09/2018 17:01	Compressed (zippe	469,196 KB	
050819	05/08/2019 16:36	File	5,037,448 KB	
150819	05/08/2019 16:40	Compressed (zippe	583,778 KB	
50518	15/05/2018 12:03	File	3,656,008 KB	
50518	15/05/2018 12:11	Compressed (zippe	418,119 KB	
50822	15/08/2022 14:43	File	9,057,684 KB	
50822	15/08/2022 14:52	Compressed (zippe	1,009,767 KB	
80117	18/01/2017 08:30	Compressed (zippe	238,610 KB	
180521	18/05/2021 15:49	File	7,204,180 KB	
250522	25/05/2022 10:55	File	8,753,492 KB	
50522	25/05/2022 11:03	Compressed (zippe	975,063 KB	
0191210	10/12/2019 14:39	File	5,689,736 KB	
91210	10/12/2019 14:43	Compressed (zippe	653,240 KB	
BACKUP16022023	16/02/2023 11:45	File	9,632,084 KB	
tems 1 item selected 9.18 G8				

When transferring backup files, to speed up the process, the backup file can be

### compressed via the "Share>Zip" command on the toolbar.

BACKUP16022023	16/02/2023 11:45	File	9,632,084 KB
L BACKUP16022023	16/02/2023 12:10	Compressed (zippe	1,072,397 KB
25 items 1 item selected 1.02 G8			

In this example, a backup file  $\sim$ 9.6GB is compressed to  $\sim$ 1.0 GB.

Restoring from a Backup Using SQL Server Management Studio The backup file needs to be placed into the backup directory.

· · 🕇 📑	> This PC	> Data (D:) > Program Files > M	icrosoft SQL Server >		~	õ	, Search Microsoft SQL Server		
1.0.11		Name	Date modified	Type	Size				
Quick access     Documents		MSAS15.MSSQLSERVER	16/02/2023 11:38	File folder					
Documents	*	MSSQL15.MSSQLSERVER	16/02/2023 11:56	File folder					
Pictures	2								
This PC									
DVD Drive (E:) Sq	Sets								
Network									

Locate the MSSQL folder and then the Backup folder within it.

1	• Pn	ogrem Files - Micn	oseft SQL Server + N	HSSOL 15-MISSOL SERVER MIS	SQL Backup	~ O	,D Search Backup	
Quick access		Name	^	Date modified	Type	Size		
Documents					This folder in	empty.		
Downloads	÷.					A.8.		
Pictures	+			S		1000		
This PC			*- Copying		C	×		
DVD Drive (E:) S			Copying	g 'BACKUP16022023.zi	p*			
	quent		In DARIE	gram Files/Microsoft SQL Serv	ACCRESSION AS ARE ARE	charge.		
Network					CAMPERATOR NO			

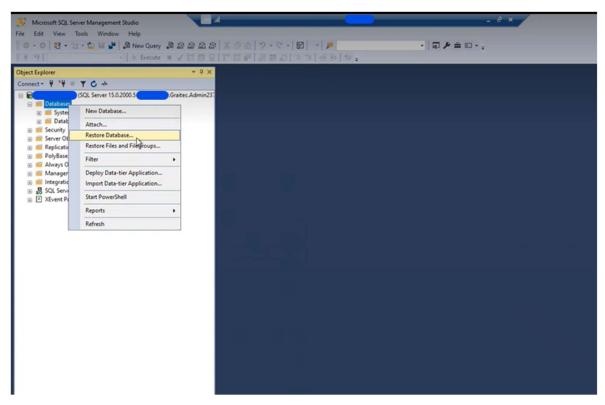
### Unzip the backup files into the same location.

-) • 🛧 📙 «	Program Files >	Microsoft	iQL Server > M	SSQL15.MSSQLSERVER > MSSQ	L > Backup	~	ð	, Search Backup		
	Name		^	Date modified	Туре	Size				
Quick access		101603303	12	16/02/2023 12:10	Compressed (zipp	1,072	2,397 KB			
Open Open in ne	ew window									
Extract All. Pin to Start	t	De .								
T Scan with : D Share D Open with	Sophos Endpoint									
	evious versions									
Send to		>								
Cut Copy										
Create sho	ortcut									
Delete Rename										
Properties										

If the unzipped file does not have a ".bak" extension, rename the file to include the extension.

Launch the SQL Server Management Studio and connect to the server.





Right click on the "Databases" and select "Restore Database..."

No hark part selected to be set	-		
<ul> <li>No backupset selected to be rest</li> <li>Select a page</li> <li>General</li> <li>Files</li> <li>Options</li> </ul>	ered.  Source  Database:  Database:  Select backup devices  Specify the backup media and its location for your restore operation.	×	
	Backup media type Backup media	Add Contents	LSN Checkpoint LSN Full LS
Connection	OK	Cancel Help	
View connection properties Progress			
Ready	¢		Verify Tarking Hodg

🗑 Locate Backup File			×
Backup File location: D.\Program Files\Micro	soft SQL Server MSSQL15 MSSQLSERVER MSSQL\Backup \BACF		12
C C SRECYCLE BIN Gratec Program Files From MSAS15 MSSOLSERVER MSSOL15 MSSOLSERVER MSSOL Backup Backup Backup DATA FTData Sol batal Sol Server Sol Server System Volume Information Sol Server Sol Server So	RACKUP 16022023 bak		
File name: BACKUP16022023.bak	Backup File	e("bak:"tm:"log)	×
	OK	N Cancel	111

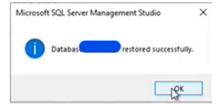
Specify the source of the file as "Device" and click on "Add" to select the backup file.

Select the backup file you'd like to use and click OK.



Kestore Database									×
Verfying backup media D. Program File	s/Mcrosoft SQL Server/MSSQ	L15 MSSQLSERVERV	MSSQL\Back	ip\BACH	KUP16022023	BACK			9
Select a page // General // Riet // Options	Script - O Help Source C Ontshase: 3) Device: Database: Destination Database: Restore to:	The last backup				Vyzazeranie i v	920312	2	
	Restore plan Backup sets to restore: Restore Name	uf Database Backup	Component Database	Type Full	Server	Database	Postion	Feat USN 0726400	
Connection Vice gratec admin237			4						
Progress	c	_							>
0									
					1	96 0	ancel	Help	8

Click on "Verify Backup Media" to verify the integrity of the backup file.



Click OK to restore the backup. A success message is displayed. Click OK to close the window

window.

Setting Up Database Logins

**Creating ODBC Connections** Type ODBC on the windows search bar.



	■ D @ …
	Best match
	App ODBC Data Sources (32-bit)
	Apps
	ODBC Data Sources (64-bit)
-	P lodbC Data Sources (32-bit)

Select the version to match the need. A 64-bit ODBC Connection is needed to use Advance Workshop on 64-bit, and similarly 32-bit connection for the matching app version.

System Data Sources			
Name Platform Driver		Add	
		Pare	-
		Cartigu	19
An OOBC System dat	a source stores information about h	ow to connect to the indicated data	provider.
A System data source	is visible to all users on this machin	e, including NT services.	

Navigate to the "System DSN" tab to ensure that the ODBC connection is made available

to all users on the server.

Click on "Add" to add a new connection.

<u>.</u>	Name ODBC Driver 17 for SQL Server SQL Server SQL Server Native Client 11.0 SQL Server Native Client RDA 11.	Version 2017.1710.03.01 10.00.20348.1487 2011.110.7462.06 0 2011.110.5069.66
	¢	>

Select "SQL Server Native Client" and proceed by clicking the "Finish" button.

100	This wizard will help you create an ODBC data source that you can use to connect to SQL Server.
SOL Server 2012	What name do you want to use to refer to the data source? Name:
	How do you want to describe the data source? Description:
	Which SQL Server do you want to connect to?
	Server: [0000]

Define a name for the connection. For ease of reference, use the name of the Database that you're connecting to.

Also on this screen, you'll need to specify "Which SQL Server do you want to connect to?".

If you've installed both SQL Server and the Advance Workshop application on your local machine, you can type in "localhost". This will point the connection to your local machine.

Alternatively, you can specify the name of the server to point the tool.

Finally, if the application server and SQL server are on different servers, the connection needs to be established to the SQL server, so that the application server can fetch the data from it.

	How should SQL Server verify the authenticity of the login ID?	
SOL Server 2012	O With Integrated Windows authentication.	
	SPN (Optional):	
	With SQL Server authentication using a login ID and past user.	sword entered by the
	Login ID: 58	
	Password: •••	

Select "With SQL Server authentication..." and enter the password defined in the **Database Engine Configuration > Server Configuration Tab** referenced above.



100	Onange the default database to:
SQL Server 2012	Minor server:
	SPN for mirtor server (Optional)
	Attach database filename:
	Use ANSI quoted identifiers.
	Application intent READWRITE
	Multi-subnet fallover.
	Þ

#### Change the default database, specify the database you wish to connect to.

(SA)	Change the language of SQL Server system messages to:	
(Default)	(Default)	
SAF Server 2012	Use strong encryption for data	
Perform translation for character data	Perform translation for character data	
	Use regional settings when outputting currency, numbers, d	ates and times.
	Save long running queries to the log file:	
	C:\Users\GRAITE~1.ADM\AppData\Local\Temp\Q	Browse
	Long query time (milliseconds): 300	00
	Log ODBC driver statistics to the log file:	
	C:\Users\GRAITE~1.ADM\AppData\Local\Temp\S	Browse

#### Click Finish to proceed.



A final confirmation page will be shown. Click on "Test Data Source..." to test the connection.



Norosoft SQL Server Native Client Version 11.00.7462	~
Running connectivity tests	
ttempting connection connection established ferfying option settings laconnecting from server	
TESTS COMPLETED SUCCESSFULLY	
	~

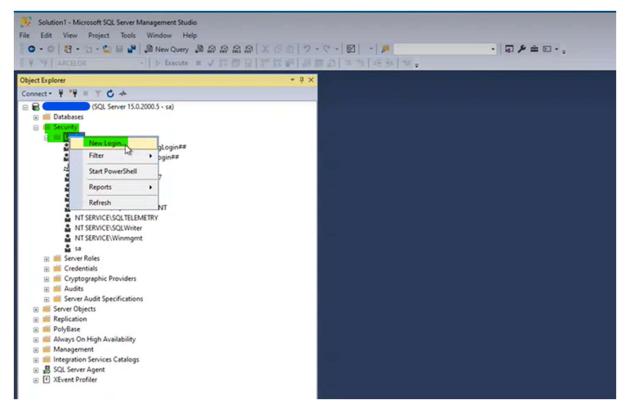
**Creating a user on the Database using SQL Server Management Studio** Advance Workshop user logins must have corresponding users set up on the database.

This can be done using the SQL Server Management Studio interface.

	SQL Server	
Server type:	Database Engine	
Server name:		~
Authentication:	SQL Server Authentication	~
Login:	50	~
Password:		
	Remember password	

Connect to the server using the system admin (sa) account created during the Server Configuration step of the SQL Setup.





Expand the "Security" folder and right click on "Logins" to create a "New Login..."



Login - New	3		-	• ×
Select a page & General	🗊 Script 👻 😧 Help			
Server Roles     User Mapping     Securables	Login name:	Administrator		Search
Status	<ul> <li>Windows authentication</li> </ul>			
	SQL Server authentication			
	Password:			
	Confirm password:			
	Specify old password		· · · · · · · · · · · · · · · · · · ·	
	Old password:			
	Enforce password policy			
	Enforce password expira	tion		
	User must change pass	word at next login		
	<ul> <li>Mapped to certificate</li> </ul>		~	
	O Mapped to asymmetric key		~	
Connection	Map to Credential		~	Add
	Mapped Credentials	Credential	F	
Server:			1	
Connection:				
50				
YY Vew connection properties				
Progress		٢	>	Remove
Ready	Default database:	master	~	
neauy	Crement Concerner.			

Create the user "Administrator". This can initially be created without a password. Proceed to the "Server Roles" page.

Login - New		-		×
Select a page	🗊 Script 👻 😧 Help			
Server Roles     Server Roles     Securables     Securables     Status	Server role is used to grant server-wide security privileges to a user.  Server roles: bulkadmin			
	doverator     diskadmin     processomin     secutlyadmin     setupadmin     setupadmin     setupadmin			
Connection				
Server:				
sa Y¥ <u>Vew connection properties</u>				
Progress				
Ready				
		ОК	Can	cel

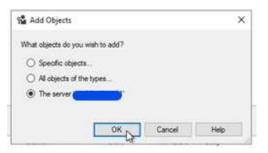
Check the sysadmin box to assign this user "Administrator" as a sysadmin. Proceed to the "User Mappings" page.

elect a page	CT Course	- 0 11-1-							
& General	T) Script	• 🕜 Help							
Server Roles									
User Mapping	Users mapped to this login:								
Securiales	Мар	Database	User	Default Schema					
Status									
		master							
	i i	model							
		msdb							
		tempdb							
		tempoo							
nnection	Guet	account available for							
	Guest	account enabled for							
Server:	Database	role membership for							
Server:	Database	role membership for							
Server: Connection: sa	Database	role membership for							
Server: Connection: sa	Database	role membership for							
Server: Connection: Ja	Database	role membership for							
Connection: a	Database	role membership for coessadmin sckupoperator stareader stareter stareter stariter							
ierver: ionnection: a	Database	role membenship for coessadmin sckupoperator stareader starenter Badmin mydatareader							
ienver: ionnection: a ¥ <u>Vew connection properties</u>	Database	role membership for ccessadmin sckupoperator stareader stareter stareter stareter stareter stareter stareter stareter							
Server: Connection: 58 Wew.connection.properties		role membership for coessadmin sckupoperator stareader starenter Sladmin snydat areader enydat areader enydat areader wher							
Server: Connection: sa Wew connection properties regress		role membership for coessadmin sckupoperator stareader starenter Sladmin snydat areader enydat areader enydat areader wher							
onnection Server: Connection: a Wew connection properties rogress Ready		role membership for coessadmin sckupoperator stareader starenter Sladmin snydat areader enydat areader enydat areader wher							
Server: Connection: Isa Wex connection properties (ogress		role membership for ccessadmin sckupoperator stareader stareter stareter stareter stareter stareter stareter stareter							
ierver: ionnection: a ¥ Verw connection properties ogress		role membership for coessadmin sckupoperator stareader starenter Sladmin snydat areader enydat areader enydat areader wher							

Login - New						- 0 X
Select a page	🗊 Script 🔹 🔞 Hel	p				
& General & Server Roles						
& User Mapping	Login name: Adr	ninistrator				
& Securables & Status	Securables:					Search
- Jak	Name			T	jpe	
_						
	Permissions:					
Connection	Explot					
Server:	Permission	Grantor	Grant	With Grant	Deny	
Connection: sa						
Vew connection properties						
Progress						
Ready						
Sec. 1						

## No changes needed on the default setup. Proceed to the "Securables" page.

### Click on "Search" and select the server.





Login - New						– 🗆 X
Select a page	🗊 Script 👻 🕜 Help					
& General	a cost					
Server Roles	Login name: Administrator					
& Securables						
🖋 Status	Securables:					Search
	Name			Type		
				Server	22	
Connection	Permissions for AMCS-ARMA01 Explot	Grantor	Grant	With Grant	Deny	
Server:	Ater resources	Grantor				^
	Ater resources Ater server state					
Connection: sa	Ater settings					
Vew connection properties	Atertrace					
YT New comection properties	Authenticate server			i i		
	Connect any database					
	Connect SQL					
Progress	Control server					
Ready	Create any database					
0	Create availability group					~
						OK Cancel

## Grant permissions for "Connect SQL" and proceed to the "Status" page.

Login - New				$\times$
Select a page	🗊 Script 👻 😧 Help			
<ul> <li>Server Roles</li> <li>User Mapping</li> <li>Securables</li> <li>Status</li> </ul>	Settings Permission to connect to database engine:			
Connection				
Server: Connection: 58 VIII View connection properties		C	3	
Progress				
O Ready				
		OK	Can	cel

No changes needed on the status page. Click OK to finish the new login creation.



A warning is presented if no password is provided. This can be added later. Click "Yes"

#### to proceed without a password.

• • • •         • • • •         • • •         • • •         • • •         • • •         • • •         • • •         • • •         • • •         • • •         • • • •         • • • • •         • • • • • •         • • • • • • • • • • • • • • • • • • •	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	-	
bject Explorer	• # ×		
Connect - # *# = T C +			
B S (SQL Server 15.0.2000.5 - sa)			
Databases     Detabases			
🖻 📕 Security			
Logins ##MS_PolicyEventProcessingLogin##			
##MS_PolicyTsqlExecutionLogin##			
Domain Admins			
Graitec.Admin237			
NT AUTHORITY\SYSTEM			
NT Service\MSSQLSERVER			
NT SERVICE\SQLSERVERAGENT			
NT SERVICE\SQLTELEMETRY			
NT SERVICE\SQLWriter			
NT SERVICE\Winmgmt			
🛔 sa			
Administrator			
Server Roles			
Credentials			
Cryptographic Providers			
🖲 📕 Audits			
B Server Audit Specifications			
Server Objects     Replication			
PolyBase			
<ul> <li>Polybase</li> <li>Always On High Availability</li> </ul>			
Management			
Integration Services Catalogs			
SQL Server Agent			
XEvent Profiler			

The newly added "Administrator" user can now be seen on the list of logins.

adminLaunching the Advance Workshop Application for the First Time Upon the first launch, the application will ask for the "Customer Identifier" (Spefic

#### Client).

Gr Configuration assistant	×
Customer identifier	
Language	English
ODBC source of the main database	-
Main database	
	QK Cancel

A confirmation will be requested.

istant			
ou confirm va	lidation of the o	aptured dat	a?
Yes	No		
	ou confirm va	ou confirm validation of the c Yes No	ou confirm validation of the captured dat

### Click "Yes" to proceed.

The main application window will be opened, and a login prompt displayed.

Advance Workshop	
Administrator	1
Permerd	
Remember password	
01	

If you've followed the previous section of this guide, you can now login with the "Administrator" account just created.

