nox medical

Nox DB

Version 2.0.0 Release Bulletin

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Nox T3s®, Nox A1s®, Nox C1 and Noxturnal® are manufactured by: Nox Medical ehf Katrinartuni 2 IS - 105 Reykjavík Iceland Website: www.noxmedical.com

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Overview

This Release Bulletin announces an updated version of the **Nox DB**, a **database** solution from Nox Medical. **Nox DB** collects statistics from Nox sleep study data (T3/A1) on a local/networked sleep facility storage. After collecting statistics, the tool can filter and query data for export to Excel (.xlsx and .csv) data formats for further data processing or reporting.

The **Nox DB** runs as a Microsoft Windows application but requires Noxturnal 6.3.1 and an SQL database installed on the same computer. The following are required to complete the setup of the Nox DB:

- Noxturnal 6.3.1 or later
- SQL Server 2019
- SQL Server Management (Optional with Nox DB 2.0.0)

Download Nox DB

You can **download** the latest version of Nox DB from the <u>Nox Medical Website</u> or from this <u>Dropbox</u> <u>link</u>.

Note: The SQL Server and (optional) SQL Server Management Tool must be installed before Nox DB.

SQL Server 2019

The install file can be downloaded from the Microsoft download center here.

SQL Server Management Tool (Optional)

Install the SQL Server Management tool from the Microsoft download center.

Changelog for Nox DB 2.0.0

New Features & Functional Enhancements

- Introduced a report generation feature in the Records tab. Each row has a report icon that opens a dialog listing all available reports for the selected study.
- Enabled recursive scanning of subfolders when a parent folder containing multiple study folders is selected as a datastore.
- Added UI support for enabling scheduled scan via Windows service.
- Automatic scanning configurable via settings, executed through a Windows service based on user input.
- Users allowed to represent Number, Datetime, or Timespan values as raw strings.
- Disabled the database list when the "create new database" radio button is selected. Included a fix for the loading indicator.
- Added buttons and descriptions for preset creation and editing.
- Displayed estimated time and elapsed time during the scanning process.
- All paging, filtering, and sorting operations in the Record View use headers from the materialized table, which is recreated upon data import or preset changes.
- Enabled opening a study in Noxturnal directly from NoxDB.
- Enabled export functionality for large databases.

Install Instructions

Minimum Required Noxturnal 6.3.1 and Later for Nox DB Install

Noxturnal or Noxturnal US 6.3.1.34324 is required for Nox DB to function. The version on your Noxturnal installation can be found in the Help Menu – About.

The Noxturnal software is available at www.noxmedical.com/download

Windows Administrative privileges are required to install Nox DB.

Install SQL Server 2019

The user must install SQL Server 2019 Express for the database functionality of Nox DB. The recommended SQL server is a free version. Download the install file from the Microsoft <u>download</u> <u>center here</u>.

To install SQL Server 2019:

- 1. Run the install file (SQL2019-SSEI-Expr.exe)
- 2. Select the "Basic" installation type:



- 3. Accept the license agreement.
- 4. Select the default installation location:

^{sql Server 2019} Express Edition		(t) _ ×
Specify SQL Server install location		MINIMUM FREE SPACE
CiProgram Files/Microsoft SQL Server	Browse	6578 MB DOWNLOAD SIZE 266 MB
	Close	< Previous Install 15.2204.5490.2

5. The SQL Server 2019 Express edition has been successfully installed on the computer. Do not change the settings listed after the installation has been completed.

SQL Server 2019 Express Ec Installation has comp			© – ×
INSTANCE NAME	CONNECTION STRING		
SQLEXPRESS			inection=True
SQL ADMINISTRATORS	SQL SERVER INSTALL LOG FOLDER		
LAPTOP-FGAH2219\admin			Log\2022120
FEATURES INSTALLED	INSTALLATION MEDIA FOLDER		
SQLENGINE	C:\SQL2019\Express_ENU		Ē
VERSION	INSTALLATION RESOURCES FOLDER		
15.0.2000.5, RTM			Ē
	Connect Now Customize	Install SSMS	Close

6. Close SQL Server Installation

Install Nox DB

To install Nox DB:

- 1. Run the executable file (NoxDB_X.X.X.exe)
- 2. Accept the license agreement.



3. Insert the server's name into the SQL Version field. The string snipped from the SQL Server 2019 Express install is an example below. Windows Authentication will suffice to connect to the database. Users can click on the blue help icon (1) to find details (2) for the default server and other details to help set up the local server.

Setup - NoxDB version 1.1.3	-		×	Setup		×
Connect to Database Server Enter the information required to connect to the database server SQL Server: • Server name: Log on credentials Use Windows Authentication				i 2	To establish a connection with the SQL Server, verify that you're using Microsoft SQL Server Express 2019 version or a comparable edition. Ensure that you have the necessary permissions and access rights. Server names in the connection string should be formatted as follows: [ServerName]\[InstanceName]	
Connect Database: Create new Database Create new Database Database Database:	0	i			For example: localhost\sqlexpress Here: - [ServerName] is the name or IP address of the SQL Server. - [InstanceName] is the name of the SQL Server instance (if applicable). Make sure to replace "localhost" and "sqlexpress" with the actual server name and instance name you want to connect to.	
Back	Next		Cancel		ОК	

4. Paste the server's name into the server' name section (1) and click Connect (2). A green tick will appear when the connection to the database is made.

etup - NoxDB version 1.1.3 nnect to Database Server Enter the information required to connect to the database server	_		×
SQL Server: 🕐			
Server name: SQLEXPRESS 1	1		
Log on credentials Use Windows Authentication			
Connect			
Database:			
Create new Database Default database name noxdb		?	
Select existing database Database:			

5. Select an existing database or create a new one. The default database name is noxdb.

📥 Setup - NoxDB version 1.1.3	_		\times
Connect to Database Server Enter the information required to connect to the database server			
SQL Server: 🕐			
Server name: SQLEXPRESS			
Log on credentials Use Windows Authentication			
Connect V Database:			
Create new Database Default database name noxdb		2	
O Select existing database Database:			
Back	Next		Cancel

6. Optional feature to execute scans automatically (See more detailed description: <u>Automatic</u> <u>Scans</u>)



7. Proceed to the next page using the default shortcut settings.

reductory - NoxDB version 1.2	-		×
Select Additional Tasks Which additional tasks should be performed?			Co
Select the additional tasks you would like Setup to perform while instal	lling NoxDB, then dick Ne	xt.	
Additional shortcuts:			
	Back Next	Ca	ancel

8. The settings have now been configured for connecting the Nox DB interface to the SQL Express database. Click Install to continue with the installation.

📩 Setup - NoxDB version 1.2	-	□ ×
Ready to Install Setup is now ready to begin installing NoxD8 on your computer.		(In the second s
Click Install to continue with the installation, or click Back if you want to review or chang	e any sett	ings.
Additonal tasks: Additonal shortcuts: Create a desktop shortcut		^
٤		>
Back	stall	Cancel

9. The software is now ready to be launched. Note that Nox DB can take a while to load initially. It is recommended to wait and not try to load the program again, as two instances of the Nox DB program will eventually load.

Setup - NoxDB version 1.2	– 🗆 X
	Completing the NoxDB Setup Wizard
(IION)	Setup has finished installing NoxDB on your computer. The application may be launched by selecting the installed shortcuts. Click Finish to exit Setup. Launch NoxDB
	Finish

Automatic Scans

Important Security Notice: Enabling this feature allows the task to run automatically even when the user is signed off. This could pose a security risk, as it may allow unauthorized access to local computer resources. Please notify your system administrator before enabling this feature to ensure proper security measures are in place.

Follow these steps to modify a task in Task Scheduler to run even when the user is signed off.

Note: The default installation path is: C:\Program Files (x86)\Nox Medical\NoxDB\.

1. Open Task Scheduler:

- a. Click the Start menu and search for Task Scheduler.
- b. Right-click on **Task Scheduler** and select Run as administrator.

2. Create the Task:

- a. In the Task Scheduler window, click on "Create Task."
- b. In the dialog box, set the Name to NoxDB_Scan.
- c. In the Security options section, select the radio button "Run whether user is logged on or not."
- d. Check the box for "Do not store password. The task will only have access to local computer resources."
- e. It's recommended to use a different location than the username and specify a service account with the necessary permissions. This account should also be authenticated in SQL Server and have access to the NoxDB database.

3. Configure the Task Triggers:

a. Go to the "Triggers" tab and click "New."

b. Choose the desired time when the task will repeat itself and click "OK."

4. Configure the Task Actions:

- a. Go to the "Actions" tab and click "New."
- b. In the "Program/script" field, set: (installPath)\NoxDB.exe
- c. In the "Add arguments (optional)" field, insert: **/args --arg1=sync**.
- d. Click "OK."

The task is now successfully added to the Task Scheduler.

Edit the Configuration File:

- Open (installPath)\Shared\appsettings.json with Notepad.
- Change "IsAutomaticScanning" property from false to true

Configure Local Security Policy:

- a. Open the Start menu and search for Administrative Tools.
- b. Find and open Local Security Policy as an administrator.
- 5. Modify User Rights Assignment:
 - a. In the Local Security Policy window, navigate to Local Policies -> User Rights Assignment.
 - b. Locate and double-click Log on as a batch job.
 - c. In the Log on as a batch job Properties window, click Add User or Group.
 - d. Enter the name of the location that runs the task from the task scheduler and has access to the database and click **Check Names** to validate.
 - e. Click **OK** to add the user and then click Apply and OK to save the changes.



Your task NoxDB_Scan should now be configured to run automatically even when the user is signed off.

Install SQL Server Setup (optional, adding new user is also available in NoxDB)

Now, it's time to set up user access for the SQL server. Depending on how user access is set up on the PC, this is the trickiest part of the installation. If it's a local PC with local user access, it's relatively easy to set up, as per below.

• Install SQL Server Management tool from <u>Microsoft</u>. Note, scroll down to the **Download** SSMS section of the webpage. Installing SQL Server requires Admin privileges.



• Copy the server location specifier below in the Server name menu (This server name will differ between installations). Below is an example and your Server name will be different. Click **Connect** to connect to the server.

	SQL Server	
Server type:	Database Engine	~
Server name:	localhost/sqlexpress	~
Authentication:	Windows Authentication	~
User name:	NOX\thorsteinn	×
Password	Remember password	

Create a new Login for users that will operate the Nox DB

Next, we need to add security access for the user to access the server tools and database.
 We first need to give the user access to the server database to do this. Navigate to "Security", go to Login, right click, and select "New Login" from the context menu.



• Click Search, type in the user account name (Windows login username or user group) for the Nox DB user and click OK.

Select a page & General	🕼 Script 💌 😡 Help				
IF ServerRoles IF UserMapping IF Securables	Login name:			Search	
P Status	Windows authentication O SQL Server authentication				
	Panaword				
	Confirm password.				
	Old password				
	Enforce password expire User must change pase				
	O Mapped to certificate				
	O Mapped to asymmetric key				
	Map to Credential			~ Add	
Connection	Mapped Credentials	Credential	Provider		
Server: Connection					
View connection properties					
*rograss				Remove	
Ready	Default database:	master		~	
	Default language:	<default></default>		~	

• Now, we need to access the server for the user. In the left menu for the user, go to server roles (1) and select public (2).

Login Properties - BUILTIN\U	Jsers	-		×
Select a page & General & Server Fides 4: User Mapping & Securables & Securables & Status	Script Generation Ge			
Connection Server, SQLEXPRESS Connection: AsureAD WhiteHiCobordt AwareAD WhiteHiCobordt				
Progress				
Ready				
		ОК	Car	ncel

• Next, go to the Securables menu (1) and scroll through the permissions to find connect SQL and grant access.

Select a page	🖵 Script 🔻 🕜 Help				
🖗 General	a south . A help				
 Server Roles User Mapping 	Login name: BUILTIN	Linem			
Securables	Login name: BUILTING	Osers		-	
🖌 Status	Securables:				Search
	Name			T	ype
		QLEXPRESS		S	Server
	Pemissions for CPC-Mitch-	3PA3M\SQLEXPR			
	Pemissions for CPC-Mitch- Explicit Effective	3PA3M\SQLEXPR			
Server:		3PA3M\SQLEXPR	ESS: Grant	With Grant	Deny
Server:	Explicit Effective			With Grant	Deny
Server: Connection:	Explicit Effective			With Grant	
Server: Connection:	Explicit Effective Permission Connect any database		Grant	With Grant	
Server: Connection:	Explicit Effective Permission Connect any database Connect SQL	Grantor	Grant	With Grant	
Server: Connection:	Explicit Effective Permission Connect any database Connect SQL Connect SQL	Grantor	Grant	With Grant	
Server: Connection: V <u>Wew connection properties</u>	Explicit Effective Permission Connect any database Connect SQL Connect SQL Control server	Grantor	Grant	With Grant	
Server: Connection: Wew connection properties rogress	Explicit Effective Permission Connect any database Connect SQL Control server Create any database	Grantor	Grant	With Grant	
Connection Server: Connection: Vew connection properties Vogress Ready	Explicit Effective Permission Connect any database Connect SQL Control server Create any database Create availability group	Grantor	Grant	With Grant	

Next, go to the "User Mapping" menu and mark the checkbox next to the Nox DB database. In the role membership settings, check db_datareader and db_datawriter as shown below.

Select a page				
₽ Goneral ₽ Server Roles ₽ User Mapping	ET Script Ve Help			
A Soparatiko A Status	Conservation and a second and a second and a second and a second a	User	 efault Schema	1
Connection				
Connection				
Server:	Guest account enabled for	noxdb_1.04		
	Database role membership fo			
Server Connection:	Database role membership fo db_accessadmin db_backupoperator db_datareader db_datareader db_detadawin db_denydatawater			
Server:	Database role membership fo db. accessadmin db. backupoperator v db. datavader v db. datavader db. datavader db. datavader			

Granting User Group Permissions in SQL Server

Follow these steps to grant a user group permission to access an SQL Server database and store procedures using SQL Server Management Studio (SSMS).

1. Open SQL Server Management Studio (SSMS).

2. Navigate to Security:

- a. In the Object Explorer, expand the **Security** folder.
- b. Right-click on Logins and select New Login.

3. Create a New Login:

- a. In the Login New window, click the **Search** button next to the Login name field.
- b. In the Select User or Group dialog, click Object Types and ensure **Groups** are checked.
- c. Click **Locations** to specify the location if necessary.
- d. Enter the name of the user group and click **Check Names** to validate.
- e. Click **OK** to close the Select User or Group dialog.

Select a page			
F General	🗊 Script 🔻 😧 Help		
General & Server Roles & User Mapping & Securables & Status	Login name: Windows authenticatio SQL Server authenticatio Password: Confirm password: Specify did password Confirm password: Enforce password User must change M Select User or Grou M Select this object by	policy expiration password at next login	Search
Connection	User or Built-in sec		Object Types
140	From this location:		
Server:			Locations
Connection:	Enter the object nam	ne to select (examples):	Locasona
View connection properties	[⊂ \Users		Check Names
Progress	Advanced	ок	Cancel
Ready	Default database:	master	~
The second	Default language:	<default></default>	~

4. Configure Authentication:

a. Ensure the Windows authentication option is selected.

5. Map the User to a Database:

- a. In the Login New window, select **User Mapping** from the left menu.
- b. In the Users mapped to this login list, check the box for the database you want to assign permissions to.
- c. In the Database role membership for section, check the roles **db_datareader** and db_datawriter.
- d. Click **OK** to create the login.

6. Grant Stored Procedure Permissions:

- a. In the Object Explorer, expand the database (e.g., **noxdb**).
- b. Expand the **Programmability** folder, then the Stored Procedures folder.

	 get_min_max_values_for 	or_parameter		-)
elect a page	🗊 Script 🔻 😮 Help					
 General Permissions 						
Extended Properties	Schema:	dbo				
	View schema permission	n <u>s</u>				
	Stored procedure	get_min_max_values_for_parameter				
	Users or roles:				Search	
	Name			Туре		
	2			User		
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	Dormissions for DI III 7	TINGLINGEN				
Server:	Permissions for BUILT Explicit Effective	TIN\Users:				
Server:	Permissions for BUILT Explicit Effective Permission	TIN/Users: Grantor	Grant	With Gr	Deny	
Server: Connection:	Explicit Effective		Grant	With Gr	Deny	
Server:	Explicit Effective Permission		Grant	With Gr	Deny	
Server: Connection:	Explicit Effective Permission Alter Control Execute			With Gr	Deny	
Server: Connection:	Explicit Effective Permission Alter Control Execute Execute		Grant	With Gr	Deny	
Server: Connection: View connection properties	Explicit Effective Permission Atter Control Execute Execute Take ownership	Grantor		With Gr	Deny	
Server: Connection: View connection properties	Explicit Effective Permission Alter Control Execute Execute	Grantor		With Gr	Deny	
rogress	Explicit Effective Permission Atter Control Execute Execute Take ownership	Grantor		With Gr	Deny	

Right-click on each stored procedure you want to grant permissions to and select **Properties**.

7. Assign Execute Permission:

- a. In the Stored Procedure Properties window, go to the **Permissions** page.
- b. Click **Search** to find the user group.
- c. Repeat the process of selecting **Object Types**, ensuring Groups is checked, and locating the user group.
- d. Click Check Names to validate and **OK** to select the user group.
- e. In the Explicit Permissions for <user group> list, check the **Grant** box for Execute.
- f. Click **OK** to save the permissions.

The user group should now have the correct permissions to access and execute the specified stored procedures in the database.

Getting Started with Nox DB

Below are the main steps for successfully operating the Nox DB.

Scan the data locations

The first step is to scan the data location with PSG studies that the user wants to extract statistical information. Multiple locations can be selected, and a new location can be added via the "plus" icon in the top right corner.



Scanning is initiated by pressing the Play icon, and the status is displayed in the "Progress" column.

NoxDB						∩ o X	medical
NOX							ে +
≔	Active	\square	Name	Path	Last Upload	Progress	
Records		\triangleright	PSG 2013 - 1			New Location	
Scan ※ Settings		\triangleright	PSG_3			New Location	
Settings							
\searrow							

After scanning has been initiated, a status bar will be displayed about the progress of scanning.

	-
Progress	Status
Processing 8 of 9	×
New Location	☆ :

Note that each study scan will take about 4 seconds, so when scanning big data libraries, it can take quite some time to process as multiple parameters are being gathered. The Nox DB will scan all parameters and custom fields that are a part of the studies being scanned.

In some cases, the Nox DB is unable to process specific data folders, and that is displayed with a message if that is the case that a study is incomplete. Reasons can be empty study folders e.g.

96 of 97 Processed - 6 incomplete studies

Working with statistical data and exporting

After scanning is completed, the "Records" tab will be populated with the information from the scanned locations. The "Records" tab is where the data is displayed, processed, and exported.

in NoxDB									- 🗆 X
NON	Clear filters		Parameter	rs		Preset	s		Export Selected Preset
•					~	defaul	lt N	- + 🖻	
Records			ADD		C	[→ ·	→〕 <u> </u>		Export All Parameters
♠ Scan ※	SubjectNameUS $\equiv \uparrow \downarrow$ SubjectID $\equiv \uparrow \downarrow$	AHI		SubjectHeight	=	t↓	SubjectWeig	ght ☰ ↑↓	SubjectBMI
Settings									
		ADD A	FILTER	TO LOAD RECO	RDS	5			
	Ŷ	Showing 0 to	o 0 of 0 entrie	es «< < >	>>	10 🗸			
_									
\sim									

The "Records" tab pre-defines the most common parameters in the default Nox Medical reports. New Parameters can be added by selecting one or more from the list at the top right of the "Records" sheet.

Parameters	
	•
ADD	C

The order of the parameters can be changed by dragging the parameter labels. They can also be reordered with arrows by right-clicking on the label and selecting "REORDER WITH ARROWS." They can be removed by right-clicking on the label and selecting DELETE. You can also set what parameter is a REFERENCE parameter. Setting the reference parameter will freeze that single parameter while scrolling through the records library.



Displaying Data in Nox DB

A filter needs to be applied to display data. To activate the filter, click the hamburger button and define it.

For example, if you want to show all the studies in the database with an ODI greater than 10:

- 1. Click the green hamburger icon highlighted above (1 in the image above).
- 2. Set the parameter to Great than
- 3. Adjust the numeric value to 10
- 4. Click Apply

	SubjectHeig	ght 🔳	î↓		
Greater than				\sim	
			-0		
2		2			
Apply					
					input

The filter is now shown in Nox DB (1) in the example below. The studies that meet the filter requirements are now in the database (2). The number of studies that meet the filter requirement is shown at the bottom of the database outline (3).

nox Records	Clear filters AHI >2 ×	Parameters ADD	~ C	Presets default [→ →]	~ +	6	Export Selected Preset Image: Constraint of the selected preset Image: Conselected preset
Scan ※ Settings	SubjectNameUS ≡ ↑↓	SubjectID ↓ // 02e47204-9ee9-4e39-8773-b30 3)≡ ↑≞	SubjectHeight	=	↑↓ SubjectWeigh
	2	3 Showing 1 to 1 of 1 entries	×	< 1 →	» 10 v		

Note it is possible to show all data from a dataset without a filter. Click the show all button as shown below. This can be toggled on and off to display data.

With Nox DB 1.1.3, users can now input values with the keyboard:

			1
AHI	$\equiv \uparrow \downarrow$ SubjectHeight $\equiv \uparrow \downarrow$ SubjectWeight	≡	1↓
17.7	Greater than Or Equal		
0.0			
0.0	15 0.00		
4.5	Apply		
13.2			
	Showing 1 to 5 of 5 entries << < 1 >	>>>	

Clear filters	Parameters		Presets		Export Selected Pre
		~	default	~ + 🛱	
	ADD	C	[→ →] 💼		Export All Paramete
RecordingStartDate					
	≡ ↑↓ AHI ≡ ↑↓ SubjectWeight ≡	: TI Sur	ojectBMI ≡ 1↓	DeviceT	ype ≡ †↓
	= It AHI = It Subjectivelynt =	: TI Sur	ojectBMI ≡ 1↓	DeviceT	ype ≡ †↓
	= 11 AHI = 11 Subjectiveight =	: 14 Sur	ojectBMI ≡ 1	DeviceT	ype ≡ †↓
	ADD A FILTER TO LOAD		ojectBMI ≡ 1	DeviceT	ype ≡ ti
			ojectBMI ≡ 1↓	DeviceT	ype ≡ 11
			ojectBMI	DeviceT	ype ≡ 11
			ojectBMI 🗮 1	DeviceT	ype ≡ 11
			ojectBMI ≡ 1	DeviceT	ype ≡ 1i

The filters have different functionalities depending on if the data is numeric values, dates or text strings.

The data can also be sorted using the shortcut below.

SubjectHeight	≡	î↓

The active filters will be displayed at the top of the page.

Records			
Clear filters	SUBJECTHEIGHT >164 ×	SUBJECTWEIGHT <75 ×	0DI >47 ×

The drop-down menu at the top right of the page allows you to save a combination of filter setups for future use.

Pres	sets				
def	ault		\sim	+	8
[→	→]	Ō			

The "plus" icon allows you to create a new filter preset, while the "save" icon merges the changes done on the active filtering to the active filter presets.

The "arrow icons" allow the user to import and export filter presets from other users, and the "trash can" lets the user delete the active filter preset.

After completing the filter adjustments, the final step would be to export the data to either .csv format or .xlsx from the icons on the top right of the "Records" page for further statistical processing or reporting. There are two options, export selected Preset or all parameters.

Export Selected Preset



Managing Database settings

You can establish connections with other databases in the database settings by configuring the form in the settings tab. Additionally, you have the option to apply new configurations for database connections.

- 1. **Connection Status:** Displays the status of the NoxDB application's connection to the database.
- 2. Server Name Input: Users can enter the server name in the input field. After entering the server name, clicking the "Connect" button will verify if the database connection is successful.
- 3. **Existing Databases Dropdown:** Users can select a database from the dropdown list, connect to it, and verify if they have permission to access the database.
- 4. **Connect Button:** Attempts to connect to the database using the current configuration.
- 5. **Apply Configuration:** Users can apply the database configuration and reload the workspace.
- 6. **Create New User:** Users can create a new user with a Windows domain in the SQL Database and be granted read and write permissions to the selected database.
- 7. **Create New NoxDB Database:** Users can create a new NoxDB database and start with a clean database. Creating a new user or database is only feasible if the current user holds sysadmin privileges.

向 NoxDB File Help		- □ >
NOX	Database Setti	ngs
HERECORDS CARACTER Scan Settings	Connection Status Status: Connection Success Server: localhost\sqlexpress	6 Create new user with read/write permission DOMAIN\USERNAME: User Has Windows Login Create
	Databases: NOXDB_Test_creation Connect to SQL with current configuration Connect	7 Create Database Database Name NOXDB_Test_creation Create Database
	Apply current configuration to the workspace 5 Apply	