

01. Download and Install SQL Server for Labworldsoft Server

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1. Downloading and Installing SQL Server database for Labworldsoft Server

Labworldsoft Server uses database for storing various data such as User information, User Logs, Configurations and Measurements. At present, Labworldsoft Server supports Microsoft SQL Server database only. Future versions will support more databases such as Oracle, Db2 and MySQL.

Major SQL Server editions are Enterprise, Developer and Express editions. Customers may choose any SQL Server edition as per their requirement. Enterprise edition provides premium offerings with fast performance, but it is not free of cost. On the other hand, Express edition is the entry-level, free database, suitable for small data management uses and free of cost. This section describes how to download and install Microsoft SQL Server 2019 Express Edition in a Windows 10 64-bit PC as an example.

1.1 Downloading SQL Server 2019 Express Edition

This section describes how to download SQL Server 2019. a. Go to SQL Server 2019 download page

b. Select Express edition and click Download now.



c. Web installer will be downloaded.

MA activity and the second sec	WAR MAN AND LODGED	the burger and	- MAR 11 154
% SQL2019-SSEI-Expr	17-02-2021 14:51	Application	6,227 KB



d. Run web installer. A window will be opened to Select an installation type. Select Download Media option.

© – × SQL Server 2019 **Express Edition** Select an installation type: Basic Custom Select Basic installation type to Select Custom installation type

install the SQL Server Database Engine feature with default configuration.

to step through the SQL Server installation wizard and choose what you want to install. This installation type is detailed and takes longer than running the Basic install.

Download Media

Download SQL Server setup files now and install them later on a

SQL Server transmits information about your installation experience, as well as other usage and performance data, to Microsoft to help improve the product. To learn more about data processing and privacy controls, and to turn off the collection of this information after installation, see the



e. A window will be opened to Specify SQL Server installer download. Select **Express Core option**.

In the SELECT DOWNLOAD LOCATION text box, provide a location to download the web installer.

SELE	CT LANGUAGE		
Engl			
WHE	CH PACKAGE WOULD YOU LIKE TO DOWNLOAD?		
0	Express Core (255 MB) SQL Server Engine only		
0	Express Advanced (796 MB) SQL Server Engine, Full Text Services, and R	eporting Services	
0	LocalDB (53 MB) Lightweight version of Express Edition with	all of its programmability features, but runs in use	er mode
0r, g	o to the Microsoft Azure portal to provision SQL Server is	n the cloud	
SELE	CT DOWNLOAD LOCATION		



f. SQL Server installer will be downloaded.





g. When download is completed, installation file can be accessed from the specified location in step e:



1.2 Installing SQL Server 2019 Express Edition

This section describes how to install SQL Server 2019. During the installation, SQL Server 2019 instance name chosen will be **LABWORLDSOFTDS** and authentication mode selected will be **Windows Authentication**.

a. Start web installer by double clicking the previously downloaded installer file.

Name	Date modified	Туре	Size
K SQLEXPR_x64_ENU.exe	03/07/2020 12:00	Application	261,808 KB



b. A window Choose Directory For Extracted Files will be popped-up. Provide a directory path for extracting files and click **Ok** button.

Choose Directory For Extracted Files	<
Choose Directory For Extracted Files QL Server 2019\new download\SQLEXPR_x64_ENU\]
Ok Cancel Browse	

c. In SQL Server Installation Center window, select the option **New SQL Server stand-alone installation** or add features to an existing installation.





d. Accept the necessary license agreements and click **Next** > button.





e. Click **Next >** button.

SOL Server 2010 Setup	_		×
Microsoft Update			~
Use Microsoft Update to ch	eck for important updates		
License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Feature Configuration Rules Installation Progress Complete	Microsoft Update offers security and other important updates for Windows ar Microsoft software, including SQL Server 2019. Updates are delivered using A Updates, or you can visit the Microsoft Update website. Use <u>Microsoft Update</u> to check for updates (recommended) <u>Microsoft Update FAQ</u> <u>Microsoft Update Privacy Statement</u>	ıd other .tomatic	
	< <u>B</u> ack <u>N</u> ext >	Canc	el



f. Click **Next >** button.

髋 SQL Server 2019 Setup			_		\times
Install Setup Files					
If an update for SQL Server	Setup is found and specified to be includ	led, the update will be installed	d.		
License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Feature Configuration Rules Installation Progress Complete	Task Scan for product updates Download Setup files Extract Setup files Install Setup files	Status Completed Skipped Skipped In Progress			
		< <u>B</u> ack	<u>N</u> ext >	Canc	el



g. Check for any errors and then click **Next** > button. Please contact the IT Administrator if warning reported on Windows Firewall. Windows Firewall should not block SQL Server.

SOL Server 2010 Setup			_		×
					~
Install Rules					
Setup rules identify potentia Setup can continue.	l problems	that might occur while running Setup. Failures must be correc	cted before		
Install Rules	Operatio	n completed. Passed: 3. Failed 0. Warning 1. Skipped 0.			
Feature Selection					
Feature Rules					
Instance Configuration	Hide de	tail <u>s</u> <<		<u>R</u> e-	run
Server Configuration	View deta	ailed report			
Database Engine Configurat		<u></u>			
Feature Configuration Rules	Result	Rule	Status		
Installation Progress		Consistency validation for SQL Server registry keys	Passed		
Complete		Computer domain controller	Passed		
	1	Windows Firewall	Warning		
		SQL 2019 minimum CTP for Upgrade and Side by Side S	Passed		
		. Parts	Next	Contra	-1
		< <u>В</u> аск	<u>IN</u> ext >	Cance	21



h. Select instance features as shown below. Click **Next >** button.

🐮 SQL Server 2019 Setup			-	- 🗆	×
Feature Selection Select the Express features t	o install.				
Install Rules Feature Selection	Cooking for Reporting Service	ices? <u>Download i</u>	it from the web		
Feature Rules	<u>F</u> eatures:		Feature description:		
Instance Configuration Server Configuration	Instance Features		The configuration and operation of each		
Database Engine Configurat	SQL Server Replicatio	n	Prerequisites for selected features:		
Feature Configuration Rules	Shared Features		Already installed		÷
Installation Progress	SQL Client Connectivity S	DK	<		>
Complete	Redistributable Features		Disk Space Requirements		
		Drive C: 1003 MB required, 165498 MB			
	Select <u>All</u> <u>U</u> nselect All				
	Instance <u>r</u> oot directory:	C:\Program Files\N	vicrosoft SQL Server\		
	Shared feature directory:	C:\Program Files\Microsoft SQL Server\			
	Shared feature directory (<u>x</u> 86):	C:\Program Files (:	x86)\Microsoft SQL Server\		
			< <u>B</u> ack <u>N</u> ext >	Ca	ncel



i. In **Instance Configuration** window, select **Named Instance**: option and provide the instance name as **LABWORLDSOFTDS**.

LABWORLDSOFTDS is the acronym for Labworldsoft Data Source. Click **Next >** button.

🐮 SQL Server 2019 Setup					1		×
Instance Configuration Specify the name and instance	ID for the instance of SC	QL Server, Instance ID t	becomes part of the in	stallation path.			
Global Rules Microsoft Update Product Updates	 <u>D</u>efault instance N<u>a</u>med instance: 	LABWORLDSOFTDS					
Install Setup Files Install Rules Installation Type Product Key License Terms Feature Selection Easture Ruler	Instance <u>I</u> D:	LABWORLDSOFTDS					
	SQL Server directory:	C:\Program Files\Mic	rosoft SQL Server\MSS	QL15.LABWORLDS	OFTDS		
Instance Configuration	Instance Name	Instance ID	Features	Edition	Ver	rsion	
Server Configuration	MSSQLSERVER	MSSQL15.MSSQLS	SQLEngine, SQLEn	Developer	15.0	.2000.5	
Database Engine Configuration	LABWORLDSOFT	MSSQL15.LABWOR	SQLEngine, SQLEn	Express	15.0	0.2000.5	
	<shared compone<="" td=""><td></td><td>Conn, BC, SDK, DQ</td><td></td><td>15.0</td><td>.2000.5</td><td></td></shared>		Conn, BC, SDK, DQ		15.0	.2000.5	
Feature Configuration Rules Ready to Install Installation Progress Complete							
			< <u>B</u> a	ck <u>N</u> ext	>	Cance	I



j. Click **Next >** button.

髋 SQL Server 2019 Setup				- [) ×
Server Configuration	1				
Specify the service accounts a	and collation configuration.				
Install Rules	Service Accounts Collation				
Feature Selection Feature Rules	Microsoft recommends that you	use a separate account for	r each SQL Serv	er service.	
Instance Configuration	Service	Account Name	Password	Startup	Туре
Server Configuration	SQL Server Database Engine	NT Service\MSSQL\$L		Automa	ic 🗠
Database Engine Configurat	SQL Server Browser	NT AUTHORITY\LOCA		Disable	I ~
Feature Configuration Rules Installation Progress Complete	Grant Perform Volume Mainte Engine Service This privilege enables instant may lead to information disc <u>Click here for details</u>	enance Task privilege to SQ file initialization by avoiding losure by allowing deleted o	L Server Databa g zeroing of dat content to be ac	se a pages. T cessed.	nis
		< <u>B</u> ac	k <u>N</u> ext :	>	Cancel



k. Select the **Windows authentication** mode. Make sure that the current user is added in **SQL Server administrators** list. If the current user is not added in **SQL Server administrators** list, the user can be added by clicking on **Add Current User** button.

In case of adding another user to **SQL Server administrators** list, use the **Add**... button.

Click **Next** > button.

📸 SQL Server 2019 Setup	— c	x c
Database Engine Con	nfiguration	
Specify Database Engine aut parallelism, Memory limits, a	hentication security mode, administrators, data directories, TempDB, Max degree of nd Filestream settings.	
Install Rules	Server Configuration Data Directories TempDB Memory User Instances FILESTRE	AM
Feature Selection Feature Rules	<u>W</u> indows authentication mode	^
Instance Configuration	O Mixed Mode (SQL Server authentication and Windows authentication)	
Server Configuration	Specify the password for the SQL Server system administrator (sa) account.	_
Feature Configuration Rules	Enter password:	
Installation Progress	C <u>o</u> nfirm password:	
Complete	Specify SQL Server administrators	_
	IWB\Aneesh.George (George, Aneesh) SQL Server administrators have unrestricted access to the Database Engine. Add Current User Add	•
	< <u>B</u> ack <u>N</u> ext >	Cancel



I. Click **Next >** button.

📸 SQL Server 2019 Setup		LogOutUser(string session, out UserAccount user)
Installation Progress		Use the dropdown to view and navigate to other iten
Install Rules		
Feature Selection		
Feature Rules	Validating feature settings.	
Instance Configuration		
Server Configuration		
Database Engine Configurat		
Feature Configuration Rules		
Installation Progress		
Complete		
		<u>N</u> ext > Cancel



m. Click **Next >** button.

🐮 SQL Server 2019 Setup		-		×
Installation Progress				
Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configurat Feature Configuration Rules Installation Progress Complete	Install_sql_common_core_Cpu64_Action : InstallFiles. Copying new files			
	N	jext >	Cance	<u>ا</u> ا



n. Click **Next >** button.

🐮 SQL Server 2019 Setup			_		\times
Complete Your SQL Server 2019 install	ation completed successfully with product	updates.			
Install Rules	Information about the Setup operation	or possible next steps:			
Feature Selection	Feature	Status			
	Satabase Engine Services	Succeeded			
	SQL Server Replication	Succeeded			
Server Configuration	SQL Browser	Succeeded			
Database Engine Configurat	SQL Writer	Succeeded			
Feature Configuration Rules	SQL Client Connectivity SDK	Succeeded			
Installation Progress	SQL Client Connectivity	Succeeded			
Complete					
	Details: Install successful. Summary log file has been saved to the C:\Program Files\Microsoft SQL Server\ 17-03 20200701 150650.txt	following location: 150\Setup Bootstrap\Log\20200701	<u>150650\S</u> (ummary	<u></u>
				Clos	e

- o. Check for any errors. Installation is completed. Click **Close** button.
- p. Close the SQL Server Installation Center window



2. Verifying SQL Server installation with Sql Server Configuration Manager

After the installation, make sure that the SQL Server instance LABWORLDSOFTDS is up and running, and all the communication protocols are enabled. The following steps describe the verification process.

a. Start Sql Server Configuration Manager from Windows Start menu.





b. Select the node **SQL Server Services** and select the service **SQL Server** (LABWORLDSOFTDS). Make sure that **SQL Server (LABWORLDSOFTDS)** service is running.

🚪 Sql Server Configuration Manager				-	
<u>File Action View H</u> elp					
🗢 🔿 🚈 🔄 🗟 📔 🕑 🖲 💌					
 SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit) SQL Server Network Configuration (32bit) SQL Server Network Configuration (32bit) SQL Server Network Configuration Protocols for MSSQLSERVER Protocols for LABWORLDSOFTDS SQL Native Client 11.0 Configuration Client Protocols Aliases 	Name SQL Server Integration Services 15.0 SQL Full-text Filter Daemon Launcher (MSSQLSERVER) SQL Server Launchpad (MSSQLSERVER) SQL Server (MSSQLSERVER) SQL Server Analysis Services (MSSQLSERVER) SQL Server PolyBase Data Movement (MSSQLSERVER) SQL Server PolyBase Engine (MSSQLSERVER) SQL Server PolyBase Engine (MSSQLSERVER) SQL Server Agent (MSSQLSERVER) SQL Server Agent (LABWORLDSOFTDS) SQL Server Agent (LABWORLDSOFTDS)	State Running Running Running Running Running Running Running Running Stopped	Start Mode Automatic Manual Automatic Start Stop Pause Resume Restart Properties Help	Log On As NT Service\MsDtsS NT Service\MSSQL NT Service\MSSQL NT Service\MSSQL NT Service\MSSQL NT AUTHORITY\NE NT AUTHORITY\NE NT AUTHORITY\NE NT Service\SQLSER NT AUTHORITY\NE	Process ID 5820 7292 7444 5852 5944 5436 7320 7320 7320 7320 7320 7320 7320 7320

c. Select the node **Protocols for LABWORLDSOFTDS**.

🚟 Sql Server Configuration Manager		
<u>File Action View H</u> elp		
🗢 🔿 🖄 🗐 🧟 😹		
 SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit) SQL Native Client 11.0 Configuration (32bit) SQL Server Network Configuration SQL Server Network Configuration Protocols for MSSQLSERVER Protocols for LABWORLDSOFTDS SQL Native Client 11.0 Configuration 	Protocol Name Shared Memory Named Pipes	Status Enabled Disabled Disabled



d. Enable the protocols **Shared Memory**, **Named Pipes** and **TCP/IP** if not.

\overline Sql Server Configuration Manager			
File Action View Help			
🗢 🔿 🚈 🗐 🔒 👔			
 SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit) SQL Native Client 11.0 Configuration (32bit) SQL Server Network Configuration Protocols for MSSQLSERVER Protocols for LABWORLDSOFTDS SQL Native Client 11.0 Configuration 	Protocol Name Shared Memory Named Pipes	Status Enabled Disabled Disabled	Enable Disable Properties Help

e. Select the node SQL Native Client 11.0 Configuration >> Client Protocols and enable the protocols Shared Memory, Named Pipes and TCP/IP as in step **d**.

Eile Action View Help Image: Solution of the service of the	🜇 Sql Server Configuration Manager				
 SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit) SQL Server Network Configuration Protocols for MSSQLSERVER Protocols for LABWORLDSOFTDS 	<u>File Action View H</u> elp				
SQL Server Configuration Manager (Local) Name Order Enabled SQL Server Services Shared Memory 1 Enabled SQL Server Network Configuration (32bit) TCP/IP 2 Enabled SQL Server Network Configuration (32bit) Name Name Image: Solid Server Network Configuration (32bit) SQL Server Network Configuration Solid Server Network Configuration Solid Server Network Configuration Enabled Protocols for MSSQLSERVER Protocols for LABWORLDSOFTDS Named Pipes 3 Enabled	🗢 🄿 🖾 🖾 🖉				
 ✓ <u>₽</u> SQL Native Client 11.0 Configuration Q. Client Protocols Q. Aliases 	 SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit) SQL Native Client 11.0 Configuration (32bit) SQL Server Network Configuration Protocols for MSSQLSERVER Protocols for LABWORLDSOFTDS SQL Native Client 11.0 Configuration Client Protocols Aliaces 	Name Shared Memory TCP/IP Named Pipes	Order 1 2 3	Enabled Enabled Enabled Enabled	

f. After enabling the protocols, restart the service **SQL Server (LABWORLDSOFTDS)** once again as mentioned in step **b** to make these changes in effect.



3. Selecting SQL Server Roles using SQL Server Management Studio (SSMS)

SQL Server Management Studio (SSMS) is an integrated environment for managing any SQL infrastructure. SSMS provides tools to configure, monitor, and administer instances of SQL Server and databases.

Verifying whether the needed **server roles** are select for the SQL Server user with SQL Server Management Studio is optional. However, it is highly recommended to check whether the needed Server Roles are selected for the SQL Server user. SQL Server Management Studio will be useful in future as well for managing database and adding additional SQL Server users.

3.1 Installing SQL Server Management Studio

You may download SSMS from https://aka.ms/ssmsfullsetup and Install the software. This download link might change in future, so please visit Microsoft website for the updates.

3.2 Selecting Server Roles

a. Start SSMS. **Connect to Server** dialog will be popped-up. Provide the server name as **.\LABWORLDSOFTDS** and click **Connect** button.

	SQL Server	
Server type:	Database Engine	~
Server name:	LABWORLDSOFTDS	×
Authentication:	Windows Authentication	×
<u>U</u> ser name:	IWB\tony thomas	~
<u>P</u> assword:		
	Remember password	
<u>P</u> assword:	Remember password	
	Connect Cancel Help Opti	ons >>



b. After connecting successfully, **Object Explorer** for **LABWORLDSOFTDS** server instance will be displayed. If **Object Explorer** is not visible, open it by clicking the menu **View** >> **Object Explorer**.





c. Suppose the added user to the SQL Server Administrator list during installation is
 IWB\Aneesh.George. Right click the node IWB\Aneesh.George from
 .\LABWORLDSOFTDS / Security / Logins and select Properties.





d. When clicking **Properties** menu, **Login Properties** window will be popped-up. Select **Server Roles**. Select all the **Server roles** and press **OK** button.

Login Properties - IWB\Tony	r.Thomas	_		×
Select a page	🖵 Script 🔻 😮 Help			
Server Roles User Mapping Securables Status	Server role is used to grant server-wide security privileges to a user. Server roles: bulkadmin dbcreator diskadmin processadmin public securityadmin setupadmin sysadmin			
Connection				
Server: BW-12-05\LABWORLDSOFTDS				
Connection: IWB\tony.thomas				
Progress				
Ready				
		ОК	Can	cel



02. User Guide – Setting up Labworldsoft Server

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1. Introduction

Labworldsoft Server is a Server software working together with Labworldsoft 6 for the support of FDA 21 CFR Part 11, where Labworldsoft 6 works as a client software.

🚽 Labwerldsoft Server (1.0.1)	1		- 0 ×
Login			
Settings	Port		
My Account	Oatabase		
Server Admins	Database Connection String		
liner	Database Engine Microsoft 50E Server		
Useis			
User Logs			
Connections			
	Certificate		
	Creats And Initial Certificate		
	Options		
	Accept Climit Connections		
	Service Status		
	Connection Service 🔵		
	User Management Service 🛛 😑		
	Configuration Management Service		
	Configuration File Transfer Service		
	User Log Service		
	Measurement Service		
	Messurement fizei File Uplaad Service		
	Measurement PDF/A File Upload Service		
	Excel to PDF/A File Converter Service		
		Stop Server	

Labworldsoft Server supports User management, Configuration management, Measurement file uploading/downloading, Logging of user activities etc. Labworldsoft 6 implements FDA 21 CFR Part 11 with the support of Labworldsoft Server.

Labworldsoft Server and Labworldsoft 6 can be deployed in 3 different ways.



Deployment Type Details		
	Both Labworldsoft Server and Labworldsoft 6 are installed in the same PC.	
Local	In this configuration, Labworldsoft 6 can use any of Local, Intranet or Internet protocols for connecting to Labworldsoft Server . More details are present in Document 5 User Guide - Using Labworldsoft 6 and Labworldsoft Server .	
Intranet or Inside Firewall	Labworldsoft Server and Labworldsoft 6 are installed in 2 different PCs, but both PCs are installed in the same Intranet and inside the same firewall.	
	In this configuration, Labworldsoft 6 can use Intranet or Internet protocol for connecting to Labworldsoft Server .	
Internet or Outside	Labworldsoft Server and Labworldsoft 6 are installed in 2 different PCs. These 2 PCs are installed in 2 different networks.	
I II Evvall	In this configuration, Labworldsoft 6 can use only Internet protocol for connecting to Labworldsoft Server .	

Intranet protocol is faster than Internet protocol and Local protocol is the fastest. **Speed of Local > Speed of Intranet > Speed of Internet**



Local Deployement



designed for scientists





The term **Server PC** is used for denoting the PC where Labworldsoft Server is installed and the term **Client PC** is used for denoting the PC where Labworldsoft 6 is installed, throughout the document.

Server PC	PC where Labworldsoft Server is installed and run
Client PC	PC where Labworldsoft 6 is installed and run



2. Labworldsoft Server quick setup

A user can refer this section if he/she want to setup **Labworldsoft Server** quickly without diving deep into the details.

For setting up Labworldsoft Server quickly, we assume that, the Administrator used the default program installation location (C:\Program Files\Labworldsoft\Labworldsoft Server), default name for Data Source **(LABWORLDSOFTDS)**, default name for database **(Labworldsoft)** and default Authentication Mode as **Windows Authentication** Mode.

a. Download and install Labworldsoft Server from www.ika.com/LWS6

b. Start Labworldsoft Server. Log in to Labworldsoft Server using default User ID serveradmin and default password@1.

c. After successful log in, **Settings** tab will be displayed automatically.

d. Provide Database Connection String as follows:

Data Source=.\LABWORLDSOFTDS;Initial Catalog=Labworldsoft;Integrated Security=true

e. Click **Create And Install Certificate** button for creating and installing self-signed certificate. Certificate will be installed automatically.

The created certificate file LabworldsoftServer.cer is copied to

C:\ProgramData\Labworldsoft\LabworldsoftServer\ServerCertificate folder.

Please install this certificate into the Client PCs as described in the Document

4 User Guide - Setting Labworldsoft 6 and Labworldsoft Server.

f. Accept Client Connections check box should be checked.

g. Click **Start Server** button for starting the server.

Please refer the below sections for detailed information.



3. Installing Labworldsoft Server

Download Labworldsoft Server from www.ika.com/LWS6

3.1 Installation steps

a. Run **Labworldsoft Server** installer by double clicking LabworldsoftServerInstaller.msi file or setup.exe file.

🛃 Labworldsoft Server		_		×
Welcome to the Labworld	lsoft Servei	^r Setup Wiz	ard	-
The installer will guide you through the ste computer.	ps required to insta	l Labworldsoft Serv	er on your	
WARNING: This computer program is prot Unauthorized duplication or distribution of or criminal penalties, and will be prosecute	ected by copyright this program, or any d to the maximum e	law and internation portion of it, may re extent possible unde	al treaties. esult in sev er the law.	vere civil
	Cancel	< <u>B</u> ack	N	ext >



b. Click **Next >**. Accept license agreement.

😹 Labworldsoft Server			-		×
License Agreement	t				5
Please take a moment to read th Agree'', then ''Next''. Otherwise	e license agreement now. If yo click ''Cancel''.	iu accept the te	erms be	elow, clia	:k ''I
End User License	e Agreement				^
IKA Werke GmbH					
Janke & Kunkel Straße	10				
79219 Staufen					~
OIDoNotAgree					
	Cancel	< <u>B</u> ack		<u>N</u> ex	t>



c. Click **Next** >. Specify the installation folder. It is recommended to use the default installation folder and install **Labworldsoft Server** for **Everyone**.

Habworldsoft Server	- 🗆 X
Select Installation Folder	
The installer will install Labworldsoft Server to the following folder. To install in this folder, click "Next". To install to a different folder,	enter it below or click "Browse".
C:\Program Files\Labworldsoft\Labworldsoft Server\	B <u>r</u> owse
	Disk Cost
Install Labworldsoft Server for yourself, or for anyone who uses t	this computer:
Cancel	< <u>B</u> ack <u>N</u> ext >



d. Click **Next** >. Provide Windows user credential with **Administrative** privilege in the PC where **Labworldsoft Server** is being installed. The **User Name** should be in the format **Doman\UserName**. In this example, domain is IWB and User Name is Tony.Thomas. If there is no domain, please try single dot (.). For example, if there is no domain try with **.\Tony.Thomas**.

This user credential is used while installing Labworldsoft Server Measurement Excel File Upload Service, Labworldsoft Server Measurement PDF/A File Upload Service and Labworldsoft Server Excel To PDF/A File Converter Service.

If providing wrong user credential, the installation will fail. Please contact your IT Administrator if you cannot find your domain.

🛃 Labworldsoft Server			-		×
Labworldsoft Server				(
Please provide User Credential with Adn added to SQL Server Database Engine dbcreator, public, securityadmin, servera User Name (Domain\UserName) [WB\Tony.Thomas	ninistrative Privilege Logins with atleast admin, sysadmin	e. This Administrat the following Serv	ive Use ver Role	r should E s selecte	e d:
, Password					
•••••					
	Cancel	< <u>B</u> ack		<u>N</u> ext	>



e. Click **Next >**.

🛃 Labworldsoft Server		-	- 0	×
Confirm Installation				5
The installer is ready to install Labworlds	soft Server on your c	omputer.		
Click "Next" to start the installation.				
	Cancel	< <u>B</u> ack		ext≻

f. Click Next >. Labworldsoft Server is being installed.





g. Installation is completed. Click **Close** button.



h. Shortcuts are created in Windows Start Menu and Desktop.



3.2 Deployed package details

If the default installation location is selected, Labworldsoft Server will be installed in C:\Program Files\Labworldsoft\Labworldsoft Server folder.


Labworldsoft Server application suite comprises of 4 program components. Labworldsoft Server Desktop Main application, Labworldsoft Server Measurement Excel File Upload Service windows service, Labworldsoft Server Measurement PDF/A File Upload Service windows service and Labworldsoft Server Excel To PDF/A File Converter Service windows service.

Program Component	Application Type	Installation Folder
Labworldsoft Server application	Desktop Application	C:\Program Files\Labworldsoft\ Labworldsoft Server\LabworldsoftServer
Labworldsoft Server Measurement Excel File Upload Service	Windows Service	C:\Program Files\Labworldsoft\ Labworldsoft Server\LabworldsoftServer. MeasurementExcelFileUploadService
Labworldsoft Server Measurement PDF/A File Upload Service	Windows Service	C:\Program Files\Labworldsoft\ Labworldsoft Server\LabworldsoftServer. MeasurementPdfAFileUploadService
Labworldsoft Server Measurement Excel To PDF/A File Converter Service	Windows Service	C:\Program Files\Labworldsoft\ Labworldsoft Server\LabworldsoftServer. ExcelToPdfAFileConverterService









Labworldsoft Server Processes



4. Setting up Labworldsoft Server

It is recommended that an **IT Administrator** and a **Database Administrator** have to administer setting up **Labworldsoft Server**.

4.1 Login

Run Labworldsoft Server. The Login screen will be displayed. User can use the following default Server Administrator credential for logging to Labworldsoft Server.

Default User Credential	
User ID	serveradmin
Password	Password@1

Use the default User ID as **serveradmin** and Password as **Password@1** for logging for the first time.

Please refer section 7 for creating additional Server Administrators.

4.2 Server settings

After successful login, **Settings**, **My Account**, **Server Admins** tabs are visible and Settings screen will be displayed by default. Users can use this **Settings** screen for configuring **Labworldsoft Server**.







4.2.1 Port

As mentioned in section 2.2, Labworldsoft Server application suite comprises of 4 program components. Labworldsoft Server Desktop Main application, Labworldsoft Server Measurement Excel File Upload Service windows service, Labworldsoft Server Measurement PDF/A File Upload Service windows service and Labworldsoft Server Excel To PDF/A File Converter Service windows service.

Labworldsoft Server Desktop Main Application comprises of 7 Web Service components. These Web Service modules are listening on different TCP Ports from **8080** to **8093** for incoming requests from **Labworldsoft 6**.

At present, service ports are not configurable. Therefore, if any software is already listening on TCP ports from 8080 to 8093, stop that software. By using **netstat** command, it is possible to find port numbers used by all the applications.



GN Select	Administrator: Command Pro	mpt - netstat -a -b -o			- <u>- 1</u> 2	×
C:\Windo	ows∖system32≻netstat	-a -b -o				î
Active (Connections					
Proto TCP	Local Address 0.0.0.0:80	Foreign Address BL-19-01:0	State LISTENING	PID 4		
TCP RpcSs	0.0.0.0:135	BL-19-01:0	LISTENING	1500		
[svchos TCP Can not	st.exe] 0.0.0.0:445 t obtain ownership in	BL-19-01:0	LISTENING	4		
TCP [sqlser	0.0.0.0:1433 "vr.exe]	BL-19-01:0	LISTENING	8980		
TCP TermSe	0.0.0.0:3389 ervice	BL-19-01:0	LISTENING	1948		
TCP Can not	0.0.0.0:5357 t obtain ownership in	BL-19-01:0 iformation	LISTENING	4		
TCP [Labwor	0.0.0.0:8080 nldsoftServer.exe]	BL-19-01:0	LISTENING	10492		
Can not	0.0.0.0:8081 t obtain ownership in	BL-19-01:0 formation	LISTENING	4		
TCP [Labwor	0.0.0.0:8082 1dsoftServer.exe]	BL-19-01:0	LISTENING	10492		
TCP Can not	0.0.0.0:8083 t obtain ownership in	BL-19-01:0 formation	LISTENING	4		
TCP [Labwor	0.0.0.0:8084 hldsoftServer.exe]	BL-19-01:0	LISTENING	10492		~





Service Name	TCP Ports Used
Connection Service	8080, 8081
User Management Service	8082, 8083
Configuration Management Service	8084, 8085
Configuration File Transfer Service	8086, 8087
User Log Service	8088, 8089
Measurement Service	8090, 8091
Measurement File Transfer Service	8092, 8093

4.2.2 Database Engine

At present, **Labworldsoft Server** supports only **Microsoft SQL Server** database, which is selected by default. In future, it may support multiple databases such as **Oracle** and **MySQL**.

4.2.3 Database Connection String

Database Connection String is a script that specifies information about a data source and means of connecting to it using Entity Framework 6 (EF6). Labworldsoft Server uses Entity Framework 6 (EF6) Object-Relational Mapping (ORM) framework for accessing database. Since Labworldsoft Server supports only Microsoft SQL Server database at present, user has to provide connection string to connect to the SQL Server database only.



A simplest **SQL Server** database connection string using **Entity Framework 6** has 3 parts, **Data Source, Database Name** and **Authentication Mode**. Each part is delimited with semi-colon (;).





Data Source is the SQL Server **Instance Name** that the **Database Administrator** created during installing **SQL Server** database.

Initial Catalog specifies the database name. Suppose the Data Source name is LABWORLDSOFTDS and database name is Labworldsoft. When clicking Test Database Connection button or Start Server button, Labworldsoft Server checks whether a database with name Labworldsoft exists in the Data Source LABWORLDSOFTDS. If it does not exist, Labworldsoft Server will send SQL scripts using EF6 for creating a database with name Labworldsoft. Therefore, the creation of the database is automatic with Labworldsoft Server.

A Database Connection String should be a valid Entity Framework 6 (EF6) connection string for SQL Server Database. Therefore, any valid EF6 connection string can be provided in the Database Connection String text box.

If the **Database Administrator** used a different name for **Data Source** while installing **SQL Server**, he has to specify that new name in **Data Source** section of the connection string. If the Administrator thinks to choose a different name for database, he has to specify that new name in **Initial Catalog** part of the connection string. If the Database Administrator chose **Mixed** mode authentication instead of **Windows authentication** while installing SQL Server, do appropriate changes in the Authentication Mode section of the connection string.

A Database Administrator may refer Microsoft website or Google search for finding more advanced Database Connection Strings to satisfy their requirements.

If the Administrator chose the default Data Source name LABWORLDSOFTDS, choosing the default database name Labworldsoft and chose the default authentication mode Windows Authentication, he can use the default Database Connection String shown below.

Data Source=.\LABWORLDSOFTDS;Initial Catalog=Labworldsoft;Integrated Security=true

4.2.4 Test Database Connection

After providing a valid **Database Connection String** and selected the **Database Engine**, Administrator can check the database communication status by clicking **Test Database Connection** button. When clicking **Test Database Connection** button, **Labworldsoft Server** will try to connect to the Data Source specified, using the authentication mode specified, and checks whether the database name specified exists. If the database does not exist in the data source, it will be created automatically first. After that, the database will be opened and closed immediately as a test to find the status. The following message will be displayed if the communication is successful.





If communication fails, an appropriate error message will be displayed.

4.2.5 Accept Client Connections

Accept Client Connections check box should be checked to enable Labworldsoft 6 client connections to Labworldsoft Server. If Labworldsoft Server is started by clicking Start Server button after checking Accept Client Connections check box, all the 10 services (7 Web Service Modules + 3 Windows Services) will be started and the service status indicators will turn into green colour. On the other hand, if Labworldsoft Server is started with unchecking the Accept Client Connections check box, none of the services will be started and all the indicator lights remain in red colour.

If an Administrator wants to work on Labworldsoft Server directly without any interruptions from Labworldsoft 6 clients, start server by clicking Start Server button after unchecking Accept Client Connections check box. The usage of this option is explained with an example. Suppose an Administrator wants to modify users. If other Administrators also modify the same users remotely by connecting Labworldsoft 6 clients at the same time, the result will be inconsistent. Therefore, the Administrator can temporarily disable Labworldsoft 6 client connections by unchecking Accept Client Connections check Box and later after finishing his/her work, enable it back.

4.2.6 Certificate

A standard X. 509 digital certificate (self-signed certificate) with the name **LabworldsoftServer** has to be created and installed in Server PC and the same certificate has to be installed in all Client PCs to secure the communication.

The certificate in Server PC can be created and installed automatically by clicking **Create And Install Certificate** button and the installation location is **Local Computer\Personal** store in Server PC. This self-signed certificate has to be installed in all Client PCs manually and the installation location is **Local Computer\Trusted People** store.





Labworldsoft Server Certificate

4.2.6.1 Creating and installing Certificate

Labworldsoft Server queries for certificate with name LabworldsoftServer in Local Computer\Personal Store.

• 🔿 🛛 📅 🦨 🖕 🖾 🗟 🖬				
Certificates - Local Computer	^	Issued To	Issued By	Expiration Date
Personal		LabworldsoftServer	Root Agency	01-01-2040
Certificates Trusted Root Certification Authorities Enterprise Trust Intermediate Certification Authorities Trusted Publishers Untrusted Certificates Third-Party Root Certification Authorities Third-Party Root Certification Authorities		🔁 localhost	localhost	14-01-2024
Critificates Client Authentication Issuers Preview Build Roots Other People SIM Certification Authorities				
Homeoroup Machine Certificates	U	<		

Labworldsoft 6 client queries for certificate with name LabworldsoftServer in Local Computer\Trusted People store.





To access the Computer Certificate store, do the following:

Select the **Start** button and start typing the text **certificate**. Search opens automatically as typing the text. In search results, click **Manage computer certificates**, which will open **Computer Certificate** store.





Administrator has to click **Create and Install Certificate** button to create and install a self-signed certificate with name **LabworldsoftServer**. If the installation operation is successful, the following message will be displayed.



When clicking Create and Install Certificate button, following events will occur.

a. Labworldsoft Server deletes all certificates with the name LabworldsoftServer from all the stores. It just clears the Certificate store.

b. Create a new self-signed certificate with name LabworldsoftServer and install this certificate

in Local Computer\Personal store and Local Computer\Trusted People store in Server PC.

c. Copies the certificate file LabworldsoftServer.cer into

C:\ProgramData\Labworldsoft\LabworldsoftServer\ServerCertificate directory.

4.2.6.2 Why automatic installation in Local Computer\Trusted People store in Server PC?

It is possible to install Labworldsoft Server and Labworldsoft 6 in the same PC. In this scenario, we say that Labworldsoft 6 communicates to Labworldsoft Server locally and is called Local **Deployment**. As mentioned in Section 1, Labworldsoft 6 can use any of Local, Intranet or **Internet** protocols to connect to Labworldsoft Server in Local Deployment. Here Intranet and Internet protocols require this self-signed certificate to communicate to Labworldsoft Server. That is why the certificate is installed automatically in Local Computer\Trusted People store as well, when clicking **Create And Install Certificate** button. However, users have to install this self-signed certificate created in **Server PC**, to all remote Client PCs manually. Please refer Document **4 User Guide - Setting Labworldsoft 6 and Labworldsoft Server** for more details about how to install the certificate in remote Client PCs.



4.2.7 Starting and stopping Server

a. Initially, the Server is in stopped state and service status indicators of all the services are in **Red** colour.



b. The server is started by clicking **Start Server** button. If the server is started successfully, service status indicators of all the services will be turned into **Green** colour, **Start Server** button is deactivated, **Stop Server** button is activated and all the tabs (including Users, User Logs and Connections) are visible.



c. If Server is in started state, it can be stopped by clicking the **Stop Server** button.



5. Server Admin Users and Labworldsoft 6 Users

Labworldsoft Server manages 2 types of users, **Server Admin Users** and **Labworldsoft 6 Users**. **Server Admin Users** are simply called **Server Admins** and **Labworldsoft 6** Users are simply called **Users**. **Server Admins screen** manages **Server Admin users** and **Users screen** manages **Labworldsoft 6 users**.

5.2 Server Admins

Server Admins are managed in Server Admins screen. Server Admins are used for logging in to Labworldsoft Server from Labworldsoft Server application.

When Labworldsoft Server is accessed first time, a local Microsoft SQL Server Compact database LabworldsoftServerAdminUsers_1_0_0_0.sdf is created and stored in C:\ProgramData\Labworldsoft\LabworldsoftServer\LocalDatabaseFiles folder in Server PC. In addition, default serveradmin user with password Password@1 is added into this database. All Server Admins are stored in this database.

If you forget Server Admins, close Labworldsoft Server application and delete LabworldsoftServerAdminUsers_1_0_0_0.sdf database file. Start Labworldsoft Server again and the database will be created again automatically with user **serveradmin** and password Passsword@1. Now you may use the default **serveradmin** user with password Password@1.

5.3 Labworldsoft 6 Users

Labworldsoft 6 Users are used for logging in to Labworldsoft Server from Labworldsoft 6 application. Labworldsoft 6 Users are stored in Microsoft SQL Server database mentioned in Settings tab >> Database Connection String.

Users screen is used for managing **Labworldsoft 6 Users**. After the installation, when Labworldsoft Server is access first time, log in to Labworldsoft Server using default Server Admin user **serveradmin** and password **Password@1**. After this, start Labworldsoft Server by clicking **Start Server** button in **Settings** screen. After server is started successfully, **Users** tab is visible. Access **Users** screen for adding/modifying **Labworldsoft 6 Users**.



6. My Account screen

After successful login, **My Account** screen will be displayed by default, which shows details about the logged in **Server Admin** user.

🗐 Labworldsoft Server (1.	0.1)		:	×
Login				
Settings	User ID	ServerAdmin		
My Account	Last Name			
Server Admins	Email	yyy@yyy.com		
Users	Role	Administrator		
User Logs	User created on (UTC)	2-19-2021 12:33 PM	и	
Connections	Password last changed on (UTC)	2-19-2021 12:33 PM	И	
	User last updated on (UTC)	2-19-2021 12:33 PM	И	
	Logout	Chang	e Password	

6.1 Changing password

Password can be changed by clicking **Change Password** button. When **Change Password** button is clicked, **Change Password** screen will be popped up.



Change Password		×
	<u></u>	
Current Password	*****	
New Password		
Confirm New Password	******	
Password must contain:	:	
Minimum 8 charact	ters	
Maximum 15 chara	acters	
At least 1 capital let	etter	
At least 1 small letter	ter	
At least 1 number		
At least 1 special cl	:haracter ! @ # \$ % ^ & * : + -	
	OF	
	- Ok	

Provide the new password with the password criteria as mentioned in this screen. If password is changed successfully, the following screen will be popped up.





7. Server Admins screen

Server Admins screen manages Server Admin users.

🗐 Labworldsoft Server							- 0 >
Login							
	User ID	First Name	Last Name	Email	Department	Team	State
Settings	ServerAdmin			xxx@xxx.xxx		_	Active
	Steven	Steven	George	Steven.George@ika.in	rd	lab	Active
My Account	Johan	Johan	George	johan.george@ika.in	rd	te	Created
Users User Logs							
Connections							
		Fetch	Server Admi	ins Add			

Please refer Document **3 User Guide - Using Labworldsoft Server** for more details about how to fetch, add, edit or delete a Server Admin User.

7.1 Managing default serveradmin user

A user can use the default Server Admin user **serveradmin** with **Password@1** for log in to Labworldsoft Server first time. A user account has 5 different states (Active, Inactive, Created, Locked and Password Resetted). When a user is added, it is in Created state at first. If a user account with Created state uses for log in to Labworldsoft Server, Change Password screen will be popped up to change the password for Activating the user. The serveradmin user is in Activated state by default.

We recommend 2 methods to make the system more secure:

a. Change the password of **serveradmin** user after logged in first time.

b. Log in using **serveradmin** user. Create a new **Server Admin** user. Log out from the default **serveradmin**. Login with the new **Server Admin** user. Delete the default **serveradmin** user. Please refer Document **3 User Guide - Using Labworldsoft Server** for details about how to add a new Server Admin user.



8. Database internals

We assume that the Administrator used the default Data Source name **LABWORLDSOFTDS** and Database name **Labworldsoft**. In addition, we assume that both SQL Server and Labworldsoft Server are installed in the same PC.

Each time when clicking **Test Database Connection** button or Start Server button in Settings screen, **Labworldsoft Server** checks whether **Labworldsoft** database exists in **LABWORLD-SOFTDS** data source. If Labworldsoft database does not exist, **Labworldsoft Server** will create a new database with name **Labworldsoft** in **LABWORLDSOFTDS** data source.

A user can view the database and tables created using **SQL Server Management Studio** (SSMS). For more details about SSMS, please refer the document **1 Download and Install SQL Server for Labworldsoft Server**.

For viewing created database tables, access SSMS as follows:

a. Start SSMS. Connect to Server window is popped up.

We assume the following:

- > Suppose the Server name or Data source name is **LABWORLDSOFTDS**.
- > Logged in windows user to PC is IWB\Tony.Thomas
- > IWB\Tony.Thomas was added to the Administrators list while installing SQL Server.

및# Connect to Server				
	SQL Serve	er		
Server type:	Database Engine		~	
<u>S</u> erver name:	LABWORLDSOFTDS			
Authentication:	Windows Authentication			
User name:	IWB\Tony.Thomas		~	
Password:				
	Remember passw	rord		
	Connect Cancel	Halo	Ontione >>	

Click the **Connect** button.



b. **Object Explorer** will be opened by default. Expand **Databases\Labworldsoft\Tables** as shown below:



Labworldsoft Server creates Labworldsoft database with several tables to store the data. Tables started with name METADATA_ contains metadata information. For example METADATA_Measurement table contains details about the Measurement table.



9. Log files

A log file is a computer generated data file which contains information about various application activities. Labworldsoft Server comprises with 1 Desktop application and 3 Windows service applications. Therefore, Labworldsoft Server application suite has 4 log files.

Component	Туре	Log file location
Labworldsoft Server	Desktop Application	C:\Users\Public\Documents\Labworldsoft\ Labworldsoft Server\Logs
Labworldsoft Server Measurement Excel File Upload Service	Windows Service application	C:\Users\Public\Documents\Labworldsoft\ LabworldsoftServer.MeasurementExcel FileUploadService\Logs
Labworldsoft Server Measurement PDF/A File Upload Service	Windows Service application	C:\Users\Public\Documents\Labworldsoft\ LabworldsoftServer.MeasurementPdfA FileUploadService\Logs
Labworldsoft Server Excel To PDF/A File Converter Service	Windows Service application	C:\Users\Public\Documents\Labworldsoft\ LabworldsoftServer.ExcelToPdfAFile ConverterService\Logs

When raising bugs, please send all the 4 respective log files together to Licensing, R&D rdlicensing@ika.de



10. Trouble shooting and FAQs

Question 1.

I had only one Server Admin user. I have forgotten the password. How can I access Labworldsoft Server again?

Answer 1.

Server Admin user is stored in local SQL Server Compact database C:\ProgramData\Labworldsoft\LabworldsoftServer\LocalDatabaseFiles\ LabworldsoftServerAdminUsers_1_0_0_0.sdf file.

Do the following steps:

- a. Close Labworldsoft Server
- b. Go to the folder C:\ProgramData\Labworldsoft\LabworldsoftServer\LocalDatabaseFiles
- c. Delete the database file LabworldsoftServerAdminUsers_1_0_0_0.sdf
- d. Start Labworldsoft Server again.

e. Log in to **Labworldsoft Server** again using the default Server Admin user **serveradmin** and password **Password@1**.

When Labworldsoft Server is started each time, it will check whether the database file LabworldsoftServerAdminUsers_1_0_0_0.sdf exists or not. If it does not exist, it will create a new database file and add the default credential serveradmin and Password@1.

Question 2.

While connecting to Labworldsoft Server, I am getting the following certificate error. How can I resolve this issue?



files for more details



Answer 2.

You have to install the self-signed certificate LabworldsoftServer.cer created by Labworldsoft Server, into all the Client PCs as well. Please refer section 4.2.6 of this document and 3 User Guide - Using Labworldsoft Server document for getting more details.

Question 3.

My Labworldsoft 6 was connecting to a remote Labworldsoft Server earlier using Intranet protocol. After I setup a Labworldsoft Server in my PC so that I can connect Labworldsoft 6 locally as well, I am not able to connect to the remote Labworldsoft Server anymore.

Answer 3.

After Labworldsoft Server is installed in your PC, you clicked Create and Install Certificate button in Settings screen for setting up Labworldsoft Server. Before creating a new certificate with name LabworldsoftServer, it will clear certificate store by deleting all the certificates with the name LabworldsoftServer. Therefore, you lost the remote Labworldsoft Server certificate from the certificate store and you will not be able to connect to the remote Labworldsoft Server anymore.

If you want to connect to multiple Labworldsoft Servers from your Labworldsoft 6 client, you have to setup your local **Labworldsoft Server** first. After that, you may import your remote Labworldsoft Server certificates into the certificate store in your Labworldsoft 6 Client PC.

Question 4.

I have installed Labworldsoft Server. I have setup Labworldsoft Server as mentioned in the document. When starting Labworldsoft Server by clicking **Start Server** button, I get **Starting Labworldsoft Server failed** error. I got the following error information from log file:





Answer 4.

There are mainly 3 reasons for this problem. At present, **Labworldsoft Server** is using 14 ports from port number **8080** to **8093**.

1. One or more ports from 8080 to 8093 are being used by another application.

C:\>netstat -a -b -o

By executing **netstat** –**a** –**b** –**o** command, we can find the port numbers used by all the applications. If the port 8080 - 8093 is being used by another app, please stop that application and start **Labworldsoft Server** again. In future we will make this port configurable.

2. The port is blocked by Windows firewall.

We have to add Labworldsoft Server into Windows Firewall. The steps are as follows:

a. Go to Control Panel. Click Windows Defender Firewall.

b. Click Allow an app or feature through Windows Defender Firewall.





c. Click Change Settings button.

d. Check whether **Labworldsoft Server** is listed in **Allowed apps and feature** list box. If it is listed, select the row and click the **Details**... button and make sure that the path is the installation path. If path is correct, click **Network types**... button and select all the network types **Domain**, **Private** and **Public**.

Allow apps to communic To add, change, or remove allow What are the risks of allowing in	ate through Windov ed apps and ports, click C app to communicate!	vs Defen hange sett	ider Fir ings,	ewall	Chappene	tings -		
For your security, some sett	ings are managed by you	system ad	Inninistra	tor.				
Name LabweddsoftServer LabweddsoftServer LabweddsoftServer LabweddsoftServer LabweddsoftServer LabweddsoftServer LabweddsoftServer LabweddsoftServer LabweddsoftServer LabweddsoftServer LabweddsoftServer LabweddsoftServer MariaDS 10.4 (odd) mrDNS	Edit an app You can allow commune mose on the Internet o Name: D Labe Earth: Criprog What are the roles of ur You can choose which ne tgetwork types	Demain aton with t just from c orduoftSer ren files/ab block types	Private no app fro ompoters wer worldsoft sool to add th I	Public 0 an any compute ny pour network (advertised to a spo to. OK OK Details	irous Policy er, industing rk. erver Sabwor Cancel Ne Reggio	× i i ve		
				Allov	v enother ar	p-		

e. If Labworldsoft Server is not listed, click **Allow another app**... button and add the app **C:\Program Files\Labworldsoft\Labworldsoft Server\LabworldsoftServer\ LabworldsoftServer.exe** (if you installed Labworldsoft Server in the default path) to the list and select all the network types as mentioned in d.

3. Organizations firewall is blocking the port.

Please talk to your IT Administrator and enable access to this port in company firewall.



Question 5.

I installed and setup Labworldsoft Server. I used the default Database Connection String as mentioned in this document. When clicking Test Database Connection button, I got Connecting to database failed. Please refer the log files for more details error.

Labwerkkoft Sever (1.4.1)		- 5 X
Login		
	hurt 💿 🛈	
My Account	Database	
Server Admina	Database Connection String Data Source: LABNCRLDSDFT001Initial Catalog=LabasiticsUnlignated Security=Store	
	Database Engine Microsoft 508 Server	
	Tet: Database Connection	
	Certificate	
	Create And Instal Certificate	
	Options	
	Accept Client Connections 🦉	
	Service Status	
	Connection Survice	
	Ster Management Service	
	Comparation Ele Teorete Service	
	Landguinten nie indener service	
	Manufacture	
	Measurement File Francise Service	
	Measurement Excel TeleVerka Service	
	Massurment PDI/A File Upload Service	
	Excel to PDF/A File Converter Service	

When I refer the log file, I got the following error:





Answer 5.

Suppose the logged in Windows user is IWB\Tony.Thomas. Since Windows Authentication is used in Database Connection String, Labworldsoft Server uses IWB\Tony.Thomas as the SQL Server user as well. Please check *Server Roles* of the user IWB\Tony.Thomas using SQL Server Management Studio (SSMS) as shown below:



Please talk to your Database Administrator and select all the Server Roles.



Question 6.

I have added a new Windows user to my PC. He logged in to Labworldsoft Server, but when clicking Test Database Connection button, database connection is failing.

Answer 6.

You have to add this new Windows user to your SQL Server Data Source using SQL Server Management Studio (SSMS) and select all the Server Roles as mentioned in the Answer 5.





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Using Labworldsoft Server

Download and install the latest version of Labworldsoft Server from www.ika.com/LWS6

Login

1. Run the Labworldsoft server. The following screen will display. Enter the login credentials of **Server Admin** user and press **Login**.

🔮 Labworldsoft Server				_	×
Login					
	User ID	_			
	Passwor				
			Login		

Logging for first time

1. When logging for the first time use the **default server administrator** credentials, which is

User ID: serveradmin

Password: Password@1

Please do remember to create new server administrator accounts for further server usage and change the password of the default **serveradmin** account.

2. Change the password screen will be shown after the first login of user.

3. Do remember the password as it is the default account and server will be inaccessible if you forget this password and only this user account is present in the server.

Server Settings

After successful login, **Settings** screen will display. This screen will display all the settings information of the server.



1. Use the **Settings** tab to configure the server.

🗐 Labworldsoft Server		- 🗆 X
Login		
Settings	Port	
My Account	Database	
Server Admins	Database Connection String Data Source - ILABWORLDSOFT Initial Catalog - Labworldsoft Integral	ed Security=true
Server Statistics	Database Engine Microsoft SQL Server	-
		Test Database Connection
	Create And Install Certificate	
	Options	
	Accept Client Connections	
	Carruiza Shahur	
	Connection Service	
	User Management Service	
	Configuration Management Service	
	Configuration File Transfer Service 🛑	
	User Log Service . 🛑	
	Measurement Service 🛑	
	Measurement File Transfer Service	
	Measurement Excel File Upload Service	
	Measurement PDF/A File Upload Service	
	Excel to PDF/A File Converter Service	
		Start Server

2. Labworldsoft server will display only the following tabs before starting the service.



3. When the server is started from this section, it will display all other tabs too.



Start or stop server

Start / stop server button is used to start or stop the server

1. Labworldsoft server will display only the following tabs before starting the service.



2. When the server is in stopped state, each service status is indicated in red colour.





3. When the server is in started state, each service status is indicated in green colour.





4. When Labworldsoft Server is started by clicking **Start Server** button, all other tabs including Users, User Logs and Connections are visible.

🕒 Labworldsoft Server					×
Login					
Settings	Port 🚺				
My Account	Database				
Server Admins	Database Connection String				
Users	Database Engine				
User Logs			Test Database Connects		
Connections					
	Options				
	Counting Standard				
	Service status				
	Connects	n Service			
	Configuration Manageme	nt Service			
	Configuration Manageme				
	Use h	in Service			
	Measureme	nt Service			
	Measurement File Transf	er Senaire			
	Measurement Excel File Uploa	d Service			
	Measurement PDF/A File Uplos	nd Service			
	Excel to PDF/A File Convert	er Service			
			Stop Serv	ver	

5. Use the **Users** tab to create the users which can be used from Labworldsoft 6. We can edit, delete or reset the password of the user account from this screen.

Please refer Labworldsoft 6 client users (Users) for details.

Labworldsoft Server							- 0	×
Login								
Settings	User ID	First Name Last Name	Email	Department	Team	Role	State	
My Account								
Server Admins								
Users								
User Logs								
Connections								
		Fetch Users	<s previous<="" th=""><th>Next >> Ac</th><th>6</th><th></th><th></th><th></th></s>	Next >> Ac	6			
	Default Password	Pansword (2) 1						
	Default Password	Fetch Users Pansward@1	<s previous<="" th=""><th>Next >> Ad</th><th>4</th><th></th><th></th><th></th></s>	Next >> Ad	4			



My Account

1. After successful login, the following screen will display for **Login** tab. This screen will display all the information about the logged in user.

🗐 Labworldsoft Server			_	×
Login				
Settings	User ID First Name	Steven		
My Account	Last Name	George		
Server Admins	Email	Steven.George@ika.in		
Users	Role	Administrator		
UserLogs	Status	Active		
Connections	User created on (UTC) Password last changed on (UTC)	9/9/2020 11:51 AM		
	User last updated on (UTC)	9/9/2020 11:51 AM		
	Logout	Change Password		

Changing the password

1. Change the password message will be shown after the first login of user.





2. Change the password screen will be shown after user acceptance. Fill the current password, and new passwords in the fields and press **Ok**



3. Do remember the password as it is the default account and server will be inaccessible if you forget this password and only this user account is present in the server.

Labworldsoft Server			-	
Login				
Settings	User ID	Steven		
Jettings	First Name	Steven		
My Account	Last Name	George		
Server Admins	Email	Steven.George@ika.in		
	Role	Administrator		
Users	Status	Active		
User Logs	User created on (UTC)	9/9/2020 11.41 AM		
Connections	Password last changed on (UTC)	9/9/2020 11:51 AM		
	User last updated on (UTC)	9/9/2020 11:51 AM		
	Logout	Change Password		

4. A logged in user can change his own password directly from **Change Password** option.



5. Fill the current password, and new passwords in the fields and press Ok



6. Password criteria for Server User is that password must contain,

Minimum 8 characters Maximum 15 characters Atleast 1 capital letter Atleast 1 small letter Atleast 1 number Atleast 1 special character from ! @ # \$ % ^ & * + - :

7. The following screen will displayed after password is changed.





Types of Users

There are two kinds of users related to Labworldsoft server, which are

Server Admins User

Server Admins

Server Admins are the users in **Labworldsoft server** to manage the complete server. They are administrators for a **Labworldsoft server**.

1. We can create new server administrator accounts in the Server Admins tab. We can view, edit, delete or reset the password of the **Server Admins** account from this screen.

실 Labworldsoft Server							8 <u>4</u>	×
Login								
Settings	User ID ServerAdmin	First Name	Last Name	Email xxx@xxx.xxx	Department	Team	State Active	
My Account	Steven Johan	Steven Johan	George George	Steven George@ika.in johan.gcorgc@ika.in	rd rd	lah tc	Active Created	
Server Admins								
Users								
User Logs								
Connections								
		Fetch	Server Admi	ins Add			Reset Password	


Create new Server Admins

1.Click on **Add** button to create a new user. It will display the following screen. Fill the input fields and press the **OK button**.



2.User ID criteria for Server Admins is that it should have

Minimum 4 characters Maximum 40 characters First character a letter Allowed special characters . @ -_

3.Default password for a newly created Server Admin user is

Password@1

4. It is required to change the default password of the newly created user on his first login.

5. There are different states for a Server Admins , they are

Created	Initial state when the user is newly created.
Active	State of an active user.
Inactive	State of an inactive user.
Password Resetted	Password Resetted state.



6. Whenever a new **Server Admin** is created, the account is in **Created** state. When this user logs in for the first time and successfully changes the password, the account state will be changed to **Active**.

7. Only those **Server Admins** whose state is **Active** or **Created** is allowed to login to server.

8. A Server Admins can change an Active server user to Inactive state and vice versa.

List Server Admins

1. Click on the **Fetch Server Admins** button to list out the **Server Admins** account.

2. All Server Admins accounts and their details will be displayed as in the following screen.

🕘 Labworldsoft Server							- 🗆 X
Login							
	User ID	First Name	Last Name	Email	Department	Team	State
Settings	ServerAdmin			xxx:@xxx.xxx			Active
	Steven	Steven	George	Steven.George@ika.in	rd	lab	Active
My Account	Johan	Johan	George	johan.george@ikain	rd	ic	Created
Server Admins							
11							
Users							
User Logs							
Connections							
		Fetch	Server Adm	ns Add		Delete	Reset Password

3. When a new **Server Admin** account added in the server, it will be added to the list automatically.

Edit Server Admin

1. We can edit **Server Admin** accounts using **Edit** option.

2. We can not edit **Server Admin** account's state using **Edit** option, if this account is newly created and the **state** is **Created**. When he logs in for the first time and successfully changes the password, his state will be changed to **Active**.



Edit User	×
First Name	Steven
Last Name	George
Email	Steven.George@ika.in
Department	rd2
Team	lab
Role	
Status	Active 🔻
	Ok

Delete Server Admin

1. We cannot delete one **Server Admin** account from its own **Login**.

2. Use the **Delete** button to delete **Sever Admin** account other than own account.

The following warning screen will display.



3. Upon acceptance, the user will be deleted from the server.

Reset Password of Server Admin

1. We cannot reset the password of one **Server Admin** account from its own **Login**. You can use the **Change Password** option provided in **My Account** section for this purpose. When changing the password, new password should not be same as previous and current password.



2. To reset the password of another **Server Admin** account than own account, use the option **Reset Password**.

3. The new password will be **Password@1** and this password should be changed in the next login.

Labworldsoft client user (Users)

Labworldsoft client user (called as **Users**) are the users who will login to **the Labworldsoft server** from **Labworldsoft software** (i.e., Labworldsoft client).

1. Labworldsoft client user can be created in **Labworldsoft server** from the **Users** tab when the server is in **Started state**.

2. Use the **Users** tab to list, create, edit, delete or reset the password of the **users** which can be used from Labworldsoft.

🗐 Labworldsoft Server		9-0-0-09			alasia contra de cont	-0-2747 - 0-			- 1	o x
Login										
	User ID	First Name	Last Name	Email	Department	Te	arri	Role	State	
Settings	Aneesh	Aneesh	George	aneesh.george@ika.	in RD	TC		Administrator	Created	
	Angel	Angel	George	angel.george@ika.de	e RD	TC		Super User	Created	_
My Account										
Server Admins										
User Logs										
Connections										
		Fetch U	lsers	<< Previous	Next >>	Add				

User roles

There are different categories of Users based on the access rights they have. The privileges and rights they have categorize these users, they are called Role of a user. The different user roles are,

User	Read-only permissions
Super User	Read and limited write permissions
Administrator	Full access rights



User management capabilities based on User roles

Function	Administrator	Super User	User
View own user details present in server in My Account section	Yes	Yes	Yes
Create a new user of normal user role	Yes	Yes	No
View all normal user's user details present in server	Yes	Yes	No
Change other users details of normal user role	Yes	Yes	No
Reset other user's Password of normal user role	Yes	Yes	No
Change other user's user state (Active / Inactive) of normal user role	Yes	Yes	No
Create a new user of any user role	Yes	No	No
Delete a user	Yes	No	No
View all users user details present in server	Yes	No	No
Reset other user's Password of any user role	Yes	No	No
Change other user's user state (Active / Inactive) of any user role	Yes	No	No
Change other users details of any user role	Yes	No	No
Change other users role	Yes	No	No
Reset own password	No	No	No
Change own details (First Name, Last Name and Mail Address)	No	No	No
Change own user state (Active / Inactive)	No	No	No
Change own role	No	No	No

Labworldsoft measurement functionalities based on User roles

Function	Administrator	Super User	User
Save a measurement to server	Yes	Yes	Yes
Download a measurement in excel	Yes	Yes	Yes
Download a measurement in PDFA	Yes	Yes	Yes
Change status of a measurement from Active to Inactive	Yes	Yes	No
Change status of a measurement from Inactive to Active	Yes	No	No
Signing a measurements	Yes	Yes	No
Delete a measurement permanently	Yes	No	No



Labworldsoft configuration functionalities based on User roles

Function	Administrator	Super User	User
Open an existing Labworldsoft configuration from server	Yes	Yes	Yes
Create a new Labworldsoft configuration	Yes	Yes	No
Change an existing Labworldsoft configuration	Yes	Yes	No
Upload a Labworldsoft configuration to server	Yes	Yes	No

Labworldsoft User Logs functionalities based on User roles

Function	Administrator	Super User	User
Saving the User Logs to server	Yes	Yes	Yes
Viewing the User Logs	Yes	Yes	No

Add User

1. Click on Add button to create a new user in Users tab. It will display the following screen.

2. User ID criteria for a User is that it should have

Minimum 4 characters Maximum 40 characters First character a letter Allowed special characters . @ -_

Add User		×
User ID	aneeshuser	
First Name	Aneesh	
Last Name	George	
Email	aneesh.george@ika.in	
Department	RD	
Team	Lab	
Role	Administrator	•
User ID shoul ● Minimun ● Maximur ● First cha ● Only alp	d have: 1 8 characters n 15 characters racter a letter ha numeric letters	
	Ok	



3. Fill all the fields and select the proper Role on this screen and press **OK**.

4. There are different states for a **User**, they are

Created	Initial state when the user is newly created
Active	State of an active user.
Inactive	State of an inactive user.
Password Resetted	Password Resetted state.

5. Whenever a new **User** is created, his state is **Created**. When he logs in for the first time from **Labworldsoft** and successfully changes the password, his state will be changed to **Active**.

6. Only those **User** whose state is **Active** or **Created** is allowed to login to server from **Labworldsoft**.

7. A Server Admin can change an Active user to Inactive state and vice versa.

8. The default password of the newly created user will be the password, which is provided in the **Users** tab, **Default Password** field.

🕒 Labworldsoft Server			nik mandalanan	and the second sec	Max No. 1999		0 - C.S C.M C.M.		- 0	×
Login										
	User ID	First Name	Last Name	Email	Department		Team	Role	State	
Settings	Aneesh	Aneesh	George	aneesh.george@ika.in	RD		TC	Administrator	Created	
	Angel	Angel	George	angel.george@ika.de	RD.	_	TC	Super User	Created	
My Account										
Server Admins										
Users										
User Logs										
Connections										
		Fetch U	sers	<< Previous	Next >>	Add				



Edit User

1. We can edit user account from this **Users** tab screen. The following screen will be diaplayed.

Edit User		×
First Name	Aneesh	
Last Name	George	
Email	aneesh.george@ika.in	
Department	RD	
Team	Lab	
Status	Active	•
Role	Administrator	-
	Ok	

Reset Password of User

1. To reset the password of a user to the password which is provided in the **Users** tab, **Default Password** field, use the option **Reset Password**

Server Users	aneeshuser	Aneesh	George	ancesh george@ika.	in RD	La	6	Administrator	PasswordResetted
Settings									
Users									
Events									
Connections									
			Refre	h	Add	Edit	Delete		leset Password
	Password resetted	l successfully							
	Default Password	Password@	1						



Delete User

1. Use the **Delete** button to delete user, who is not in **Active** state.

User Logs

User can view the User Logs in this section. Click on the **Fetch User Logs** button to display the User Logs. Maximum of 50 User Logs will be displayed in the screen. Use the Next >> and Previous << button to view the desired group of User Logs.

Abworldsoft Server		-	O	×
Login				
Settings	Item: User Log Description: User Log Details: User Log Cool: Logged Time: User ID First Name User added successfully: A new user Angel is added by Steven successfully: User added successfully: USERIOG_USER_ADDED_SUCCESS 1997/2020 1xH146 PM Steven Steven User added successfully: A new user Angel is added by Steven successfully. User added successfully. USERIOG_USER_ADDED_SUCCESS 1997/2020 1xH146 PM Steven Steven User Log Cool: Steven Us		Last Name George George	
My Account				
Server Admins				
Users				
User Logs				
Connections				
	Fetch User Logs. << Previous	Next >>		



The following User Logs and details about these User Logs are covered for better understanding the server activity. The User Log Code definitions are described in the table below

USERLOG_USER_ADDED_SUCCESS	User added successfully.
USERLOG_USER_ADDED_FAILED	Adding a user failed.
USERLOG_USER_DELETED_SUCCESS	User deleted successfully.
USERLOG_USER_DELETED_FAILED	Deleting a user failed.
USERLOG_USER_MODIFIED_SUCCESS	User modified successfully.
USERLOG_USER_MODIFIED_FAILED	Modifying user failed.
USERLOG_PASSWORD_RESETTED_SUCCESS	Password resetted successfully.
USERLOG_PASSWORD_RESETTED_FAILED	Resetting password failed.
USERLOG_USER_LOGGED_IN_SUCCESS	User logged in successfully.
USERLOG_USER_LOGGED_IN_FAILED	User login failed.
USERLOG_USER_LOGGED_OUT_SUCCESS	User logged out successfully.
USERLOG_USER_LOGGED_OUT_FAILED	User logout failed.
USERLOG_PASSWORD_CHANGED_SUCCESS	Password changed successfully.
USERLOG_PASSWORD_CHANGED_FAILED	Password changing failed
USERLOG_MEASUREMENT_STARTED_SUCCESS	Measurement started successfully.
USERLOG_MEASUREMENT_STARTED_FAILED	Measurement starting failed.
USERLOG_MEASUREMENT_SIGNED_SUCCESS	Measurement signed successfully.
USERLOG_MEASUREMENT_SIGNED_FAILED	Measurement signing failed.
USERLOG_MEASUREMENT_ACTIVATED_SUCCESS	Measurement activated successfully.
USERLOG_MEASUREMENT_ACTIVATED_FAILED	Measurement activation failed.
USERLOG_MEASUREMENT_INACTIVATED_SUCCESS	Measurement inactivated successfully.
USERLOG_MEASUREMENT_INACTIVATED_FAILED	Measurement inactivation failed.
USERLOG_MEASUREMENT_DELETED_SUCESS	Measurement deleted successfully.
USERLOG_MEASUREMENT_FILE_EXCEL_DOWNLOADED_SUCCESS	Measurement file excel downloaded successfully.
USERLOG_MEASUREMENT_FILE_EXCEL_DOWNLOADED_FAILED	Measurement file excel downloading failed.
USERLOG_MEASUREMENT_FILE_PDFA_DOWNLOADED_SUCCESS	Measurement file pdfa downloaded successfully.
USERLOG_MEASUREMENT_FILE_PDFA_DOWNLOADED_FAILED	Measurement file pdfa downloading failed.
USERLOG_MEASUREMENT_FILE_EXCEL_UPLOADED	Measurement file excel uploaded successfully.
USERLOG_MEASUREMENT_FILE_PDFA_UPLOADED	Measurement file pdfa uploading successfully.
USERLOG_MEASUREMENT_FILE_UPLOAD_ABORTED_SUCCESS	Measurement file upload aborted successfully.
USERLOG_MEASUREMENT_FILE_UPLOAD_ABORTED_FAILED	Measurement file upload aborting failed.



Connections

User can view the active connection of **Labworldsoft 6** and this server in this section.

🗐 Labworldsoft Server								12	0	Х
Login										
Settings	Session ID 605dd220469a40e9b1794856aa1a13d1	Machine Name BL-17-03 in ika intra	User ID aneeshgeorge	First Name	Last Name aa	Email a©ikain		Role Administ		
My Account										
Server Admins										
Users										
User Logs										
Connections										
							Clinice Service	in.		

It is possible to close an existing connection of **Labworldsoft server** with a **Labworldsoft 6**.



04. User Guide Setting up Labworldsoft 6 and Labworldsoft Server

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Installing Certificate in Labworldsoft 6 for connecting to	
Labworldsoft Server	2
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Accessing Labworldsoft Server from Labworldsoft 6

Labworldsoft 6 implements FDA 21 CFR Part 11 with the support of Labworldsoft Server. Labworldsoft Server can be accessed from Labworldsoft 6 by selecting the Server menu or from View >> Server menu.

We may use the term **Client PC** or **Labworldsoft 6 Client PC**, in this document, to denote the computer where **Labworldsoft 6** is installed and run.

We may use the term **Server PC**, in this document, to denote the computer where **Labworld-soft Server** is installed and run.

Installing Certificate in Labworldsoft 6 for connecting to Labworldsoft Server

While setting up Labworldsoft Server, a self-signed digital certificate is created and installed in Server PC. This certificate is copied into C:\ProgramData\Labworldsoft\LabworldsoftServer\ServerCertificate folder in Server PC. We have to install this certificate in Client PC for connecting Labworldsoft 6 successfully to Labworldsoft Server.



Installing Certificate in Client PC

The steps to install the digital certificate in **Client PC** are as follows:

1. Run **Manage computer certificates** console, which is marked in green box in the following screen shot.

Make sure that you are using the certificate manager for Local Machine, not the Local User or anything else.



2. Alternatively, you can use **certIm.msc** command for this purpose.



3. This will open the management console for certificates of Local Computer.





4. Select the location **Certificates (Local Computer)/Trusted People/Certificates**. This is the location where **Labworldsoft 6** looking for the certificate.





5. Right click on **Certificates (Local Computer)/Trusted People/Certificates** and select **All Tasks >> Import...**





6. Clicking Import... will open Certificate Import Wizard. Store Location is automatically selected as Local Machine. Click **Next**.

¢	🖉 Certificate Import Wizard	×
	Welcome to the Certificate Import Wizard	
	This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.	
	A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.	
	Store Location Current User Local Machine	
	To continue, click Next.	
	Next Cance	1

7. Provide the certificate location in the File name: text box and Click next.

Certificate is created by the makecert.exe tool in the Server.



		×
÷	🐓 Certificate Import Wizard	
	File to Import	
	Specify the file you want to import.	
	File name:	
	D:\Projects\src\LabworldsoftServer.cer Browse	
	Note: More than one certificate can be stored in a single file in the following formats:	
	Personal Information Exchange- PKCS #12 (.PFX,.P12)	
	Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)	
	Microsoft Serialised Certificate Store (.SST)	
	Next Cano	el

8. Follow the instructions, Certificate will be installed in the client machine in the location **Certificates (Local Computer)/Trusted People/Certificates**.



05. User Guide Using Labworldsoft 6 and Labworldsoft Server

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Delete User	24
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User Guide - Using Labworldsoft 6 and Labworldsoft Server

Labworldsoft Server makes it possible for you to store generated configurations and measurement results centrally in your company network. Your data is safely stored in your own database in your own company network and not on third-party servers.

Integrated user administration allows you easy and simple access to your configurations and measurement results from anywhere in your network. Manipulation of the measurement results is therefore excluded. Share your configurations and measurement results with your colleagues. Generate configurations and easily make them available to others. Your configurations are also protected from modification when doing so.

- Central storage of all configurations and measurement results in the network
- All the data are safely located in your own network
- No connection to the Internet required
- Protected from manipulation
- Rapid access from anywhere in the network
- Simple sharing of configurations
- Integrated user administration

Accessing Labworldsoft Server

1. You can access Labworldsoft Server from the Labworldsoft 6 main menu and sub menu Settings/Login





2. Alternatively, you can access **Labworldsoft Server** from the **Labworldsoft 6** main menu Item **View** and then,



3. Server tab is displayed on Labworldsoft 6. User can navigate among other tabs like workspace by using these tabs.

4. Double click on tab to display it as a separate window. Closing this separate window will again add this tab to the bottom as displayed earlier.

Ô La	bworld	dsoft 6	- test meas_202	00913_09011	18.LWS6										×
<u>F</u> ile	Edit	⊻iew	Measurement	Company	Product group	<u>M</u> odules	<u>S</u> ettings	Tools	<u>S</u> erver	<u>L</u> anguage	<u>I</u> nfo	Internal	Internal	6.2.7	0
	[>		þ	6		C		Ç			00:0	00:00	Ś	5
	Se	ettings													
	ļ	ogin		User ID Password	_										
					Login										
W	orkspa	ice	Overview	Server									70 %	-	Q

Settings

Use the **Settings** tab to configure the server.



Server Location

Туре	Description
Local Machine	Labworldsoft 6 and Labworldsoft server are running in the same PC.
Intranet (Inside firewall)	Labworldsoft 6 and Labworldsoft server are running in the same or different PC in same network within the firewall.
Internet (Outside firewall)	Labworldsoft 6 and Labworldsoft server are running in the same or different PC in different network outside the firewall. Use this option when Labworldsoft 6 is connecting to Labworldsoft server through internet.

IP Address

Provide the **IP Address** of the server. It is applicable only if **Server Location** is other than **Local Machine**

Port

Provide the same **Port** number specified in **Labworldsoft Server**. At present, **Port** number is **8080** in **Labworldsoft Server**, which is not configurable. Therefore, provide the same number **8080** in **Labworldsoft 6** as well. In future Port number will be configurable. Please refer **Section 4.2.1** in Document **User Guide – Setting up Labworldsoft Server** for more details.

Test Communication

Use this option to test the Labworldsoft 6 and Labworldsoft server connectivity with the provided server settings. It will show the result message in the same window as shown below in case all the settings are correct and server is working.



It will show the result message in the same window as shown below in case settings are incorrect or server is not working.





Advanced Sever setting

Advanced server setting is for FDA 21 CFR 21 Part 11 compliance.

Advanced server setting is provided in the Settings tab. These settings will be available only to an Administrator level user when he is logged in.

Advanced Server Settings		
Use FDA 21 CFR 21 Part 11 settings		
	Server Login Is Mandatory For All Users	
	Use automatic Logout	
	Time to logout 5 min	

Options in Advanced server settings described in following sections

Use FDA 21 CFR Part 11 settings

Use this option to make compliance with FDA 21 CFR Part 11. If we enable this option, all the sub options will be activated automatically.

Note: If this option is selected it is not possible to work with Labworldsoft 6 any more without logging to server.

Server Login is Mandatory for all users.

Check this option to insist for a login to Labworldsoft server to work with Labworldsoft 6. Note: If this option is selected it is not possible to work with Labworldsoft 6 any more without logging to server.

Use automatic Logout

This option is used to set a time out to automatically logout from **sever** in case of inactivity in the **PC**. User need to login again to work with **Server**.

Time to Logout

Use this option to specify the timeout duration in minutes in case of inactivity in the PC.



Login

User has to login to **Labworldsoft server** to make use of the Server functionalities and features in **Labworldsoft 6**. Server functionalities may differ according to the different logins based on their defined capabilities.

The following screen will display. Enter the login credentials and press Login

Login from Labworldsoft 6

1. You can Login from the Labworldsoft 6 main menu and sub menu Login.



2. And then Workspace Server Tab's Login Tab.





3. Alternatively, you can **Login** from the **Login** Tab section of **Labworldsoft server** main tab. Main Server tab can be displayed from clicking menu Item **View** and then selecting **Server**.





👌 Labworldsoft 6 - Ag Ele	traSyn_No_input_No_Values1WS6	- 0 X
Eile Edit View Measu	ement Company Productgroup Modules Settings Tools Cloud Language Info Internal	Internal 6.2.7.0
\triangleright		00:00:00 🛆
Settings		
Login	User ID Password	
Login Tab Page	Login	
Workspace Overv	iew Server	100 % 🕶 🔍

- 4. Provide the Login credentials and click on **Login** button.
- 5. Labworldsoft 6 will prompt you in case of any issues with the Login.

Mandatory Server Login on Labworldsoft 6 startup

1. If the option **Server Login is Mandatory for all users** is selected in **Labworldsoft 6**, login window will show when **Labworldsoft 6** starts up. It is not possible to work with Labworldsoft 6 without logging to server.



- 2. Labworldsoft 6 will close with a warning dialog if we close this window.
- 3. Provide the Login credentials and click on **Login** button.
- 4. Labworldsoft 6 will prompt you in case of any issues with the Login.
- 5. Server settings can done by clicking the Settings button.



Settings		×
Server Location	Local Machine 🔫	
IP Address	192 . 168 . 68 . 35	
Port		
	Test Communication	
	Close	

Logging a user for first time

1. When logging for the first time use the credentials provided to you by your Administrator.

User ID: Your user ID provided by Administrator **Password**: Your initial password provided by Administrator

2. Change the password of your account is mandatory after your first login. **Labworldsoft 6** will prompt you for changing the password as shown as below.



3. Change Password screen will display.





- 4. Password criteria is that password must contain
- New password should not be same as previous and current password
- Minimum 8 characters
- Maximum 15 characters
- Atleast 1 capital letter
- Atleast 1 small letter
- Atleast 1 number
- Atleast 1 special character from ! @ # \$ % ^ & * + :

5. After changing the Password, Login again with new Password.

Logout

Click on the **Logout** button to logout from the server.

My Account

1. After successful login, the following screen will display. This screen will display all the information about the logged in user account.





Changing the password

1. A logged in user can change his own password directly from **Change Password** option.



Note: Change password screen will be shown after the first login of a user.



- 2. Fill the current password, and new passwords in the fields and press Ok
- 3. Password criteria for user is that password must contain
- New password should not be same as previous and current password
- Minimum 8 characters
- Maximum 15 characters
- Atleast 1 capital letter
- Atleast 1 small letter
- Atleast 1 number
- Atleast 1 special character from ! @ # \$ % ^ & * + :
- 4. The following screen will displayed after password is changed.



Password expiry

Set passwords will expire after a defined duration of 90 days. Change the password of a user in particular intervals.

Logout

Click on the **Logout** button to logout from the server.

Measurements

Measurements running in Labworldsoft 6 can be stored in Labworldsoft Server. Administrator and Super User level users can create Labworldsoft 6 configurations and run the measurements using these Labworldsoft 6 configuration files. It will possible for them to save these Labworldsoft 6 configurations in the Labworldsoft Server in future release.

Using Labworldsoft 6 and Labworldsoft Server 13



Normal **user** can open this **Labworldsoft 6 configuration** and run the **measurement** of it. This **Labworldsoft 6 Measurement** files can be saved in to **Labworldsoft Server** and can be downloaded as **Excel** or **PDAF/A** format by a user based on his provided access rights. Further validation and certification functionalities can be applied to the **Measurement** files saved in the server.

Saving a measurement to server

Labworldsoft 6 Measurements are saved in Labworldsoft Server after setting up the necessary settings. User must login to the server before setting up the measurement to be saved to server. Large Measurement files, which is more than 86400 Excel rows will be splited to sub files containing of maximum 86400 Excel rows.

There are two ways to save the measurement to server.

- 1. Using Save Module.
- 2. Using Record function.

Saving a measurement to server

Measurements running in Labworldsoft 6 can be stored in Labworldsoft Server using the Save Module

- 1. Login to the server. login to the server is mandatory to save the measurement to Labworldsoft Server
- 2. Use **Save Module** in the **Labworldsoft 6 Configuration** for setting up the Measurement to be saved to the server.
- 3. Create number of input pins (channels) in **Save Module** as per the number of parameters to save to Server.
- 4. Connect all the Output pins of other modules and devices which has to be saved, to input pins (channels) of a save module.
- 5. Open the Configuration dialog of Save Module.
- 6. Use any of the measurement file naming options.
 - a. Provide the measurement **file name** in the field [Marked as ***A** in the following figure]
 - b. Select the option **Create automatic file** name to auto generate a file name based on the current date and time along with Configuration name. [Marked as ***B** in the following figure]



- c. Select the option **Change file name when measurement starts** to provide a file name manually when the measurement starts [Marked as ***C** in the following figure]
- d. Select the option **Save to server**. Keep this check box checked. [Marked as ***D** in the above figure]

Save		×
Module name	Save	
No. of channels	- 8	+
Path	D:\Test\Server	Open
	Create a separate folder for each day	
File Name *A ElectoSynthesisSubstanceCode101		
	Create automatic file name	
	Change file name when measurement starts	
Sample rate	100 ms	
	CSV CSV format English	-
	Excel	
File format	ASCII (LWS 5)	
	Save to server	
Current channel	<u> </u>	
Color		-
0 Trigger		
Help	Ok	

7. It is possible to select any of the provided **File format** options along with **Save to server** option.



Saving a measurement using Record function

Record functionality is used to save the **measured values** of all **output pins** of all the **modules** and **devices** in a measurement to files in a specified path. The file format can be either **CSV**, **Excel**, **Save to server** or all of them.

1. Login to the server. Login to the server is mandatory to save the measurement to Labworldsoft Server.

2. Select the **Record** function from Labworldsoft 6 main menu **Measurement** and the sub menu **Record**.



- 3. Configuration dialog for **Record measurement** will display. Configure the functionality.
- 4. Set any of the file naming options.
 - a. Provide the **file name** in the field [Marked as ***A** in the following figure]
 - b. Select the option **Create automatic file name** to auto generate a file name based on the current date and time along with Configuration name. [Marked as ***B** in the following figure]
 - c. Select the option **Change file name when measurement starts** to provide a file name manually when the measurement starts [Marked as ***C** in the following figure]

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- Select the option Save to server. Keep this check box checked. [Marked as *D in the above figure]
- 6. It is possible to select any of the provided **File format** options along with **Save to server** option.

View measurements saved in server

Click on the Measurements tab page to list out the measurements saved in server. Further validation and certification functionalities can be applied to the **Measurement** files saved in the server from this section.

Click on the **Fetch Measurements button** page to list out the measurements saved in server. File listing is depending upon the access rights, user has.

For normal user	Displays only his own measurements.
For Super user	Displays only the measurements having the state Active.
For Administrator user	Displays all the measurements


Labworkdsoft 6 - Ag Electr	νSyn_No Input_No Yalues.tW56			– 🗆 X
Elle Edit View Measurer	ent Company Product group Modules Settings Tools	Cloud Language Info Internal		Internal 6.2.7.0
		১৫	00:	13:21 🛆
Settings				
Login	Item Measurement Name BectoSynthesisSubstanceCode IUS BectoSynthesisSubstanceCode IUS BectoSynthesisSubstanceCode IUS BectoSynthesisSubstanceCode IUS	Start Time User ID 7/20/2020 5:21:15 PM aneeshgeorge 7/20/2020 1:54:03 PM aneeshgeorge	Signed Active Machine Name Messurement Key Fishe True 51-17-03 in Jkalimtra 160e 13:0931534000ba Falce True 51-17-03 in Jkalimtra 080k 1clibe 16948a 094	0909c100857d305 2978cd47a6f29c7
My Account	5. CountProcess. 4. Terry Text	7/20/2020 12:18:42 PM aneshgenge 7/20/2020 11:27:46 AM aneshgenge	Falce True BL-17-03-in-Insietra ac152/fa8036a4c30a2d Falce True BL-17-03.in-Insietra ac537c7d312d514bb681	52c2768ce6416 42e647fcc5e6d2
Users	Fetch Measurements CK Previous	Nert>> Fetch Excel Fetch PD	IF/A Sign Arministe Inactivate	Delete
Events				
Workspace Overview	v Server			100 K - 🔍

A **Measurement** file, which is more than **86400 Excel rows**, will be spited to sub files containing of maximum **86400 Excel rows**. So, Multiple measurement excel files will be created as file size increases when a measurement runs for long time.

Signing a measurement

Only **Administrator** level users can sign a measurement. Click on the **Sign** button, following screen will display.



1. Select the **Signing State**.

Unsigned	Initial state of signing.
Reviewed	Measurement is in reviewed state.
Authorship	Measurement is in authorized state.
Approved	Measurement is in approved state.
Responsibility	Assigning the responsibility of measurement.

2. Enter the comments in provided place and click **Ok** button.



Downloading a measurement in Excel format

Select the Measurement from the list and click on **Fetch Excel** button. All the measurement Excel files associated with the particular measurement will be displayed.

e Number	File Size (Bytes)	Recording Start Time	Recording End Time		
	40726	7/20/2020 5:01:15 PM	7/20/2020 5:02:09 PM		
	40842	7/20/2020 5:02:10 PM	7/20/2020 5:03:04 PM		
	40643	7/20/2020 5:03:04 PM	7/20/2020 5:03:58 PM		
	40640	7/20/2020 5:03:58 PM	7/20/2020 5:04:53 PM		
	40674	7/20/2020 5:04:53 PM	7/20/2020 5:05:47 PM		
	40406	7/20/2020 5:05:47 PM	7/20/2020 5:06:43 PM		
	40530	7/20/2020 5:06:43 PM	7/20/2020 5:07:38 PM		
	40410	7/20/2020 5:07:39 PM	7/20/2020 5:08:34 PM		
	40772	7/20/2020 5:08:34 PM	7/20/2020 5:09:28 PM		
0	40701	7/20/2020 5:09:28 PM	7/20/2020 5:10:23 PM		
1	40733	7/20/2020 5:10:23 PM	7/20/2020 5:11:19 PM		
2	40540	7/20/2020 5:11:19 PM	7/20/2020 5:12:14 PM		
3	40451	7/20/2020 5:12:14 PM	7/20/2020 5:13:10 PM		
4	40562	7/20/2020 5:13:10 PM	7/20/2020 5:14:05 PM		
5	29674	7/20/2020 5:14:05 PM	7/20/2020 5:14:36 PM		

Select the desired file and click **Download File** button. Provide the file path to save the **Excel** file in the local disk.

Use the << **Previous** and **Next**>> button to navigate through the file listing.

Downloading a measurement in PDF/A format

Select the Measurement from the list and click on **Fetch PDF/A** button. All the measurement PDF/A files associated with the particular measurement will be displayed.

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irement F	le Information				
Contractic					
File Number	File Size (Bytes)	Recording Start Time	Recording End Time		
1	40726	7/20/2020 5:01:15 PM	7/20/2020 5-02:09 PM		
2	40842	7/20/2020 5:02:10 PM	7/20/2020 5:03:04 PM		
3	40643	7/20/2020 5:03:04 PM	7/20/2020 5:03:58 PM	2	
4	40640	7/20/2020 5:03:58 PM	7/20/2020 5:04:53 PN	8	
5	40674	7/20/2020 5:04:53 PM	7/20/2020 5:05:47 PM		
6	40406	7/20/2020 5:05:47 PM	7/20/2020 5:06:43 PM	1	
7	40530	7/20/2020 5:06:43 PM	7/20/2020 5:07:38 PM		
8	40410	7/20/2020 5:07:39 PM	7/20/2020 5:08:34 PN		
9	40772	7/20/2020 5:08:34 PM	7/20/2020 5:09:28 PM		
10	40701	7/20/2020 5:09:28 PM	7/20/2020 5:10:23 PM		
11	40733	7/20/2020 5:10:23 PM	7/20/2020 5:11:19 PN		
12	40540	7/20/2020 5:11:19 PM	7/20/2020 5:12:14 PN		
	40451	7/20/2020 5:12:14 PM	7/20/2020 5:13:10 PN		
14	40562	7/20/2020 5:13:10 PM	7/20/2020 5:14:05 PN		
	20674	7/20/2020 5-14/05 044	Trans langer at a section		

Select the desired file and click **Download File** button. Provide the file path to save the **PDF/A** file in the local disk.

Use the **Next** and **Previous** button to navigate through the file listing.

States of measurement

State of a measurement used for administrative purpose. There are two different states for a measurement and described below.

Active	 It is the default sate of a measurement when it is saved to server. When an Administrator user changes an Inactive measurement to Active.
Inactive	 State when an Administrator or Super User changes an Active measurement to Inactive. Measurement state, then it is possible to delete the measurement by an Administrator

When a new measurement is saved in server, measurement state is Active.

Deleting a measurement

Administrator user can delete a measurement from server. Only Inactive measurement can be deleted from server.

If we want to delete an Active measurement, change its state to Inactive first. Then delete it.



Users

Labworldsoft 6 user are the users who will login to the Labworldsoft server from Labworldsoft 6 software (i.e., Labworldsoft 6 client).

1. Use the **Users** tab to create, edit, delete or reset the password of the **users** which can be used from Labworldsoft 6.

User Roles

There are different categories of **Users** based on the access rights they have. The privileges and rights they have categorize these users, they are called **Role** of a user. The different user roles are,

User	Read-only permissions and Least privileges.
Super User	Read and limited write permissions. They have All User role privileges and some of the Administrator privileges.
Administrator	Full access rights. They have highest level of privileges.

User management capabilities based on User roles

Function	Administrator	Super User	User
View own user details present in server in My Account section	Yes	Yes	Yes
Create a new user of normal user role	Yes	Yes	No
View all normal user's user details present in server	Yes	Yes	No
Change other users details of normal user role	Yes	Yes	No
Reset other user's Password of normal user role	Yes	Yes	No
Change other user's user state (Active / Inactive) of normal user role	Yes	Yes	No
Create a new user of 'Super User' user role	Yes	No	No
Create a new user of 'User' user role	Yes	No	No
Delete a user	Yes	No	No
View all users user details present in server	Yes	No	No
Reset other user's Password of any user role	Yes	No	No
Change other user's user state (Active / Inactive) of any user role	Yes	No	No
Change other users details of any user role	Yes	No	No
Change other users role	Yes	No	No
	•••••••		



Labworldsoft 6 measurement functionalities based on User roles

Function	Administrator	Super User	User
Save a measurement to server	Yes	Yes	Yes
Download a measurement in excel	Yes	Yes	Yes
Download a measurement in PDFA	Yes	Yes	Yes
Change status of a measurement from Active to Inactive	Yes	Yes	No
Change status of a measurement from Inactive to Active	Yes	No	No
Signing a measurements	Yes	Yes	No
Delete a measurement permanently	Yes	No	No

Labworldsoft 6 configuration functionalities based on User roles

Function	Administrator	Super User	User
Open an existing Labworldsoft configuration from server	Yes	Yes	Yes
Create a new Labworldsoft configuration	Yes	Yes	No
Change an existing Labworldsoft configuration	Yes	Yes	No
Upload a Labworldsoft configuration to server	Yes	Yes	No

Labworldsoft 6 User Logs functionalities based on User roles

Function	Administrator	Super User	User
Automatically saving the User Logs to server	Yes	Yes	Yes
Viewing the User Logs	Yes	Yes	No



Add User

1. Click on **Add** button to create a new user in **Users** tab. The following screen will be displayed.



2. Fill all the fields and select the proper Role on this screen and press OK.

3. There are different states for a User , they are

Active	State of an active user.
Inactive	State of an inactive user.

4. Only those User whose state is Active is allowed to login to server from Labworldsoft 6.

5. An Administrator user can change an Active user to Inactive state and vice versa.

Edit User

1. We can edit user account from this **Users** tab screen. The following screen will be displayed.





Reset Password of User

1. To reset the password of a user to **Default Password**, Click on this button.

Default Password is the Password provided in the **Users** tab, **Default Password** field in **Laworldsoft Server**.

Delete User

- 1. Only the users who is in **Inactive** state can be deleted from the server.
- 2. Edit the user and make his state from Active to Inactive.
- 3. Use the **Delete** button to delete user, who is not in **Active** state.

User Logs

User can view the **User Logs** in this section. The following **User Logs** and their details are covered for better understanding the server activity.



USERLOG_USER_ADDED_SUCCESS	User added successfully.
USERLOG_USER_ADDED_FAILED	Adding a user failed.
USERLOG_USER_DELETED_SUCCESS	User deleted successfully.
USERLOG_USER_DELETED_FAILED	Deleting a user failed.
USERLOG_USER_MODIFIED_SUCCESS	User modified successfully.
USERLOG_USER_MODIFIED_FAILED	Modifying user failed.
USERLOG_PASSWORD_RESETTED_SUCCESS	Password resetted successfully.
USERLOG_PASSWORD_RESETTED_FAILED	Resetting password failed.
USERLOG_USER_LOGGED_IN_SUCCESS	User logged in successfully.
USERLOG_USER_LOGGED_IN_FAILED	User login failed.
USERLOG_USER_LOGGED_OUT_SUCCESS	User logged out successfully.
USERLOG_USER_LOGGED_OUT_FAILED	User logout failed.
USERLOG_PASSWORD_CHANGED_SUCCESS	Password changed successfully.
USERLOG_PASSWORD_CHANGED_FAILED	Password changing failed
USERLOG_MEASUREMENT_STARTED_SUCCESS	Measurement started successfully.
USERLOG_MEASUREMENT_STARTED_FAILED	Measurement starting failed.
USERLOG_MEASUREMENT_SIGNED_SUCCESS	Measurement signed successfully.
USERLOG_MEASUREMENT_SIGNED_FAILED	Measurement signing failed.
USERLOG_MEASUREMENT_ACTIVATED_SUCCESS	Measurement activated successfully.
USERLOG_MEASUREMENT_ACTIVATED_FAILED	Measurement activation failed.
USERLOG_MEASUREMENT_INACTIVATED_SUCCESS	Measurement inactivated successfully.
USERLOG_MEASUREMENT_INACTIVATED_FAILED	Measurement inactivation failed.
USERLOG_MEASUREMENT_DELETED_SUCESS	Measurement deleted successfully.
USERLOG_MEASUREMENT_FILE_EXCEL_DOWNLOADED_SUCCESS	Measurement file excel downloaded successfully.
USERLOG_MEASUREMENT_FILE_EXCEL_DOWNLOADED_FAILED	Measurement file excel downloading failed.
USERLOG_MEASUREMENT_FILE_PDFA_DOWNLOADED_SUCCESS	Measurement file pdfa downloaded successfully.
USERLOG_MEASUREMENT_FILE_PDFA_DOWNLOADED_FAILED	Measurement file pdfa downloading failed.
USERLOG_MEASUREMENT_FILE_EXCEL_UPLOADED	Measurement file excel uploaded successfully.
USERLOG_MEASUREMENT_FILE_PDFA_UPLOADED	Measurement file pdfa uploading successfully.
USERLOG_MEASUREMENT_FILE_UPLOAD_ABORTED_SUCCESS	Measurement file upload aborted successfully.
USERLOG_MEASUREMENT_FILE_UPLOAD_ABORTED_FAILED	Measurement file upload aborting failed.