

Installation Guide ZKProto Server



Important Statement

Thank you for choosing our product. Before use, please read this installation guide carefully to acquire basic knowledge of using ZKProto, avoiding unwanted damages caused.

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Software Requirement

There are three software required to install in the computer to work in alliance with ZKProto Server:

- → Java installation package: Minimum version is 1.7
- → PostgreSQL installation package: Minimum version is 9.1.13
- → ZKProto Server installation package: Current version is standard 1.0

We have carried out some Windows OS compatibility tests for installation packages of Java, PostgreSQL and ZKProto Server. The ZKProto Server supports both 32 bits and 64 bits of Windows XP/7/8/Server 2003/Server 2008. However, on Windows Server 2003, you might face a problem when installing PostgreSQL, which is that the installation cannot initialize the database cluster. If this problem occurs, you can try to create a folder under which PostgreSQL will install, and then set the folder's limits of authority to the role of "User" with full-control permission before installing.

On the other hand, if there is any change especially in installation directory of Java or PostgreSQL, please stop ZKProto Server and re-install it.

Hardware Requirement

The server running ZKProto Server must at least possess the following features:

- → Single-core, 1GHz
- → 512M memory
- → 16G hard disk

Before Installation

Before installing ZKProto Server, you can install Java, JRE or PostgreSQP by yourself.

If you have not installed Java or PostgreSQL in your computer, ZKProto Server will install Java with version 1.7 or PostgreSQL with version 9.3.5 automatically.

Installation Steps

1. Click 🙀 ZKProtoServer V2.0.exe to start installation:



2. Click Next to go to the license agreement page:

j Setup - ZKProto Server	×
License Agreement Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
END-USER LICENSE AGREEMENT FOR THIS SOFTWARE Important - read carefully:	
This End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and the mentioned author of this Software for the software product licentified above, which includes computer software and may include associated media, printed materials, and "online" or electronic documentation ("SOFTWARE PRODUCT"), by installing, copying, or otherwise using the SOFTWARE PRODUCT, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, do not install or use the SOFTWARE PRODUCT.	Ŧ
I accept the agreement	
I do not accept the agreement	
< Back Next >	Cancel

please read the license agreement, and check *l accept the agreement*.

3. Cick Next to go to the installation information page.

15 Setup - ZKProto Server	x
Information Please read the following important information before continuing.	D
When you are ready to continue with Setup, dick Next.	
Thanks for installing 2KProto Server! XPProto is a reliable, fast, modern, secure and flexible communication protocol based on the concepts of middleware and RPC(Remote Procedure Cal). We use Apache Thrift framework to realize the middleware which takes care of all the raw communication aspects, so that it is easily to support DB synchronization between mult-platform clients. We develop 2KProto Server with Java and PostgreSQL. Please make sure those as followed: 1. Minimum RXE version is 1.7; 2. Minimum PostgreSQL version is 9.1.13 with histore extension. Please set the database; 3. The server running 2KProto Server must be at least: Single-core, 1GHz; 512M memory; 16G hard disk.	
< Back Next > Cance	el

This page shows some details of ZKProto Server. Please read it for helpful information.

If Java or PostgreSQL has not been installed in your computer, the page will be as shown as below:

j Setup - ZKProto Server	
Check and Install dependencies Java or PostgreSQL would be installed	
Installing Java.Please wait	

If Java or PostgreSQL has been installed in your computer, the page will be as shown as below:

15 Setup - ZKProto Server	×
Select Destination Location Where should ZKProto Server be installed?	
Setup will install ZKProto Server into the following folder.	
To continue, dick Next. If you would like to select a different folder, di	ck Browse.
C:\Program Files\ZKProto Server	Browse
At least 181.2 MB of free disk space is required.	
< Back Next >	Cancel

Please notice that the running logs of server are also located in the location you choose, so make sure there is enough memory to store the logs. Once there are too many logs, you can delete obsolete and useless logs.

you can choose a path to install ZKProto Server.

15 Setup - ZKProto Server	×
Select Start Menu Folder Where should Setup place the program's shortcuts?	
Setup will create the program's shortcuts in the following Start	: Menu folder.
To continue, click Next. If you would like to select a different folder, click	k Browse.
ZKProto Server	Browse
< Back Next >	Cancel

Set a Start Menu folder name.

弱 Setup - ZKProto Server	X
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while installin Server, then dick Next. Additional icons: Create a desktop icon	ıg ZKProto
< <u>B</u> ack Next >	Cancel

If you want to create a desktop icon, check the box.

j Setup - ZKProto Server		X
Ready to Install Setup is now ready to begin installing ZKProto Server on your computer.		
Click Install to continue with the installation, or click Back if you want to revi change any settings.	ew or	
Destination location: C:IProgram Files/20Proto Server Start Menu folder: ZCProto Server Additional tasks: Additional icons: Create a desktop icon		•
4	Þ	
< Back Instal	С	ancel

8. Click Install to start the installation.

j∃ Setup - ZKProto Server	×
Installing Please wait while Setup installs ZKProto Server on your computer.	

The installer will initialize the database for ZKProto Server as shown as below:



Press any key to continue.

At the end of installation, check *Launch ZKProto Server* to run the server after clicking *Finish*, or check *View the README file* to read readme file after clicking *Finish*.



How to Use

This ZKProto Server installation includes three functions in Start Menu.



Firstly, the ZKProto Server is for the server in JVM. Since TCP sockets consume resources, if you want to connect to more clients, please assign more memory to the JVM runtime, whose default memory is 256MB. For more JVM runtime configuration parameters, please consult your JVM documentation.

Secondly, the Clean database is to drop the default "imbo" zone and erase the data of tables including table "client", "client2zone", "operation_log", "pending_operation", "conflicf" and zones information except "limbo". It is strongly recommended to use this function when the ZKProto Server is not running.

Thirdly, the Reset database is for recreating the schema "zkproto" and initializing default values, but will not affect other schemes which belong to different zones. It is strongly recommended to use this function when the ZKProto Server is not running.

You need to set the paramters in the android device and in ZKTime.Net 3.0, then open ZKProto

Server by clicking *ZKProto Server* before seaching device in ZKTime.Net 3.0.

Tips for using ZKProto

- → We strongly suggest to have the devices connected as much time as possible to the server.
- → Consider all devices in the same zone having the same DB. If something is changed in one client's device, it will be changed in other clients' device as well.
- → The computer running the server must keep connecting to the network, especially after the computer enters standby mode.
- → If a client has been off-line for more than 2 months, his/her account will be obsolete and become unauthorized; re-authentication of this client is required.
- → We recommend to set the buffer size of embedded device with 256 KB or 512 KB.

