# Installation Guide

## ZKProto Server

www.zkteco.com

# 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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Our company does not guarantee that the information and technical parameters of this guide are exactly consistent with the actual product, nor make prior notice on any updates of the product.

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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

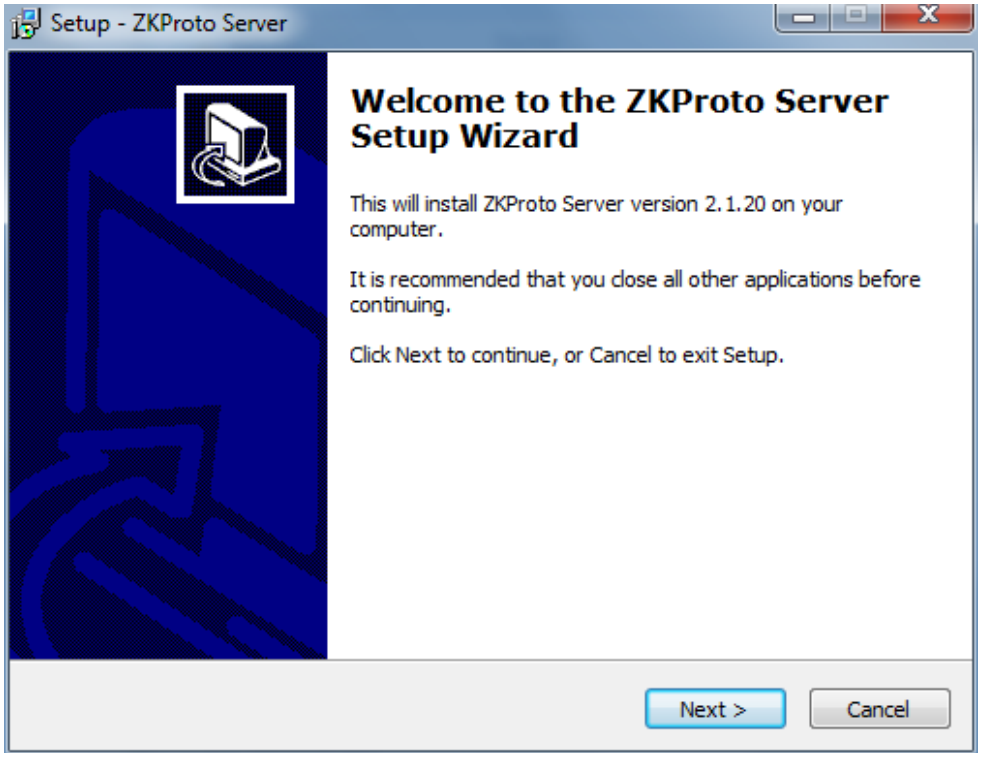
## Before Installation

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

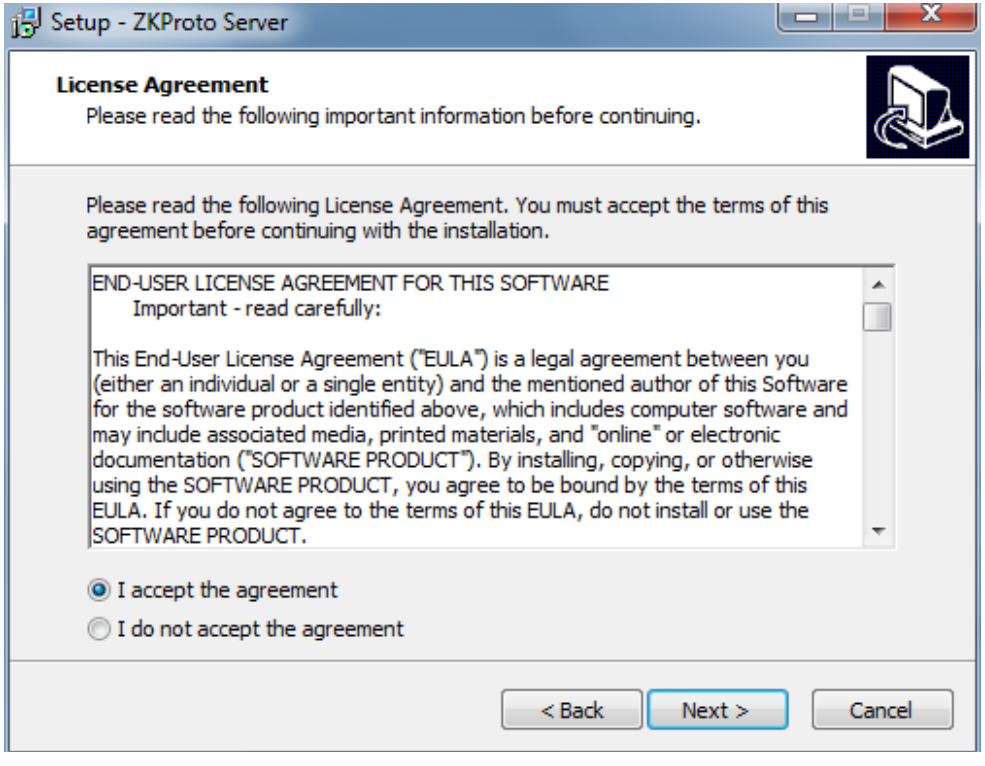
If you have not installed Java or PostgreSQL in your computer, ZKProto Server will install Java with version 1.7 or PostgreSQL with version 9.3.5 automatically.

# Installation Steps

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

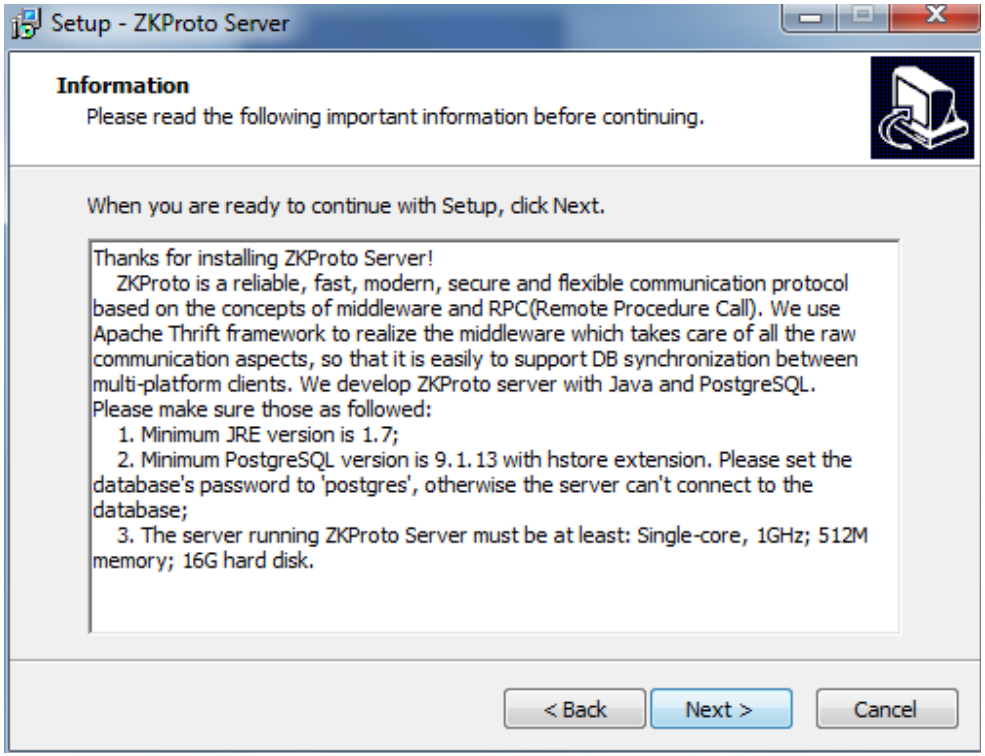


2. Click Next to go to the license agreement page:




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

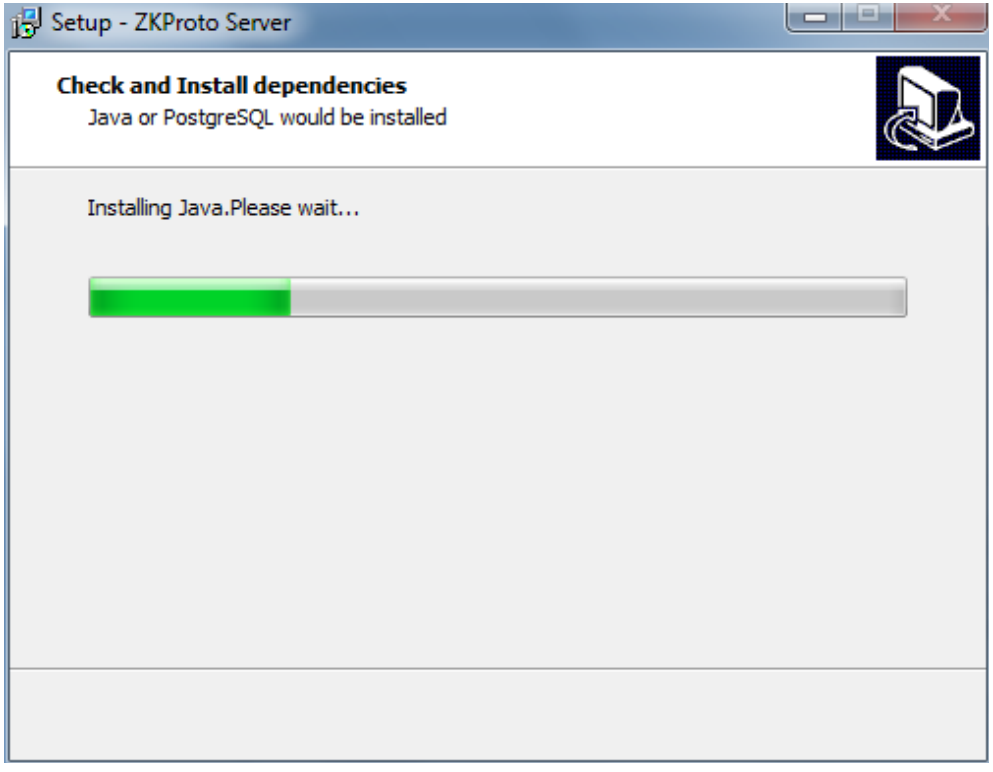
3. Cick Next to go to the installation information page.



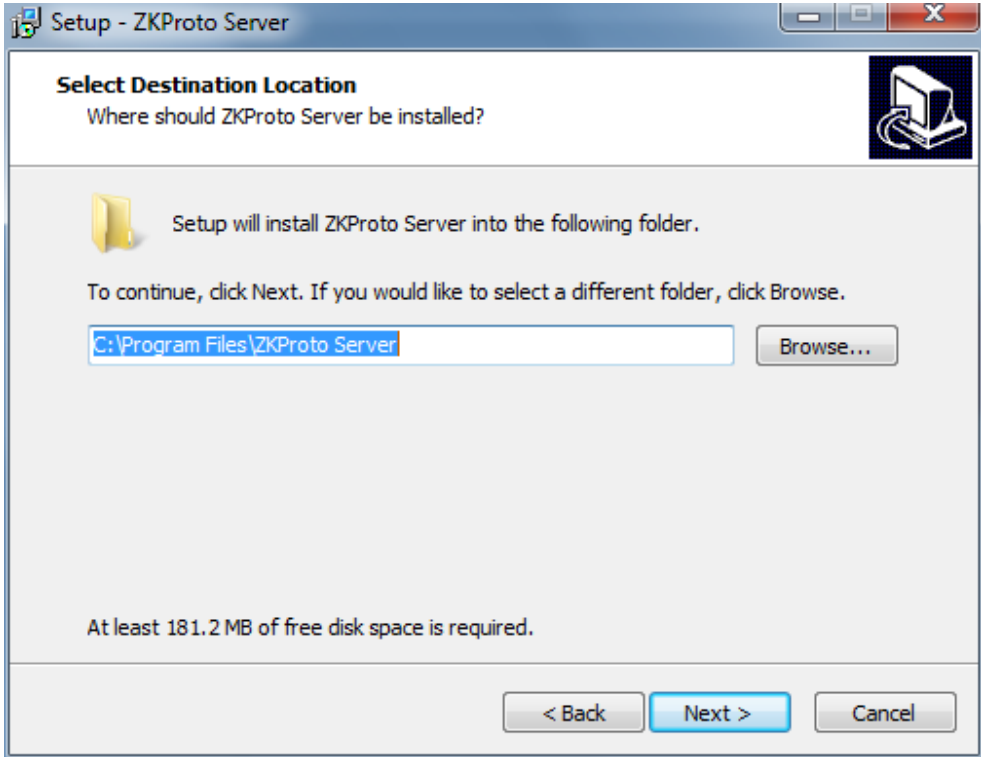

This page shows some details of ZKProto Server. Please read it for helpful information.

4. Click Next.

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



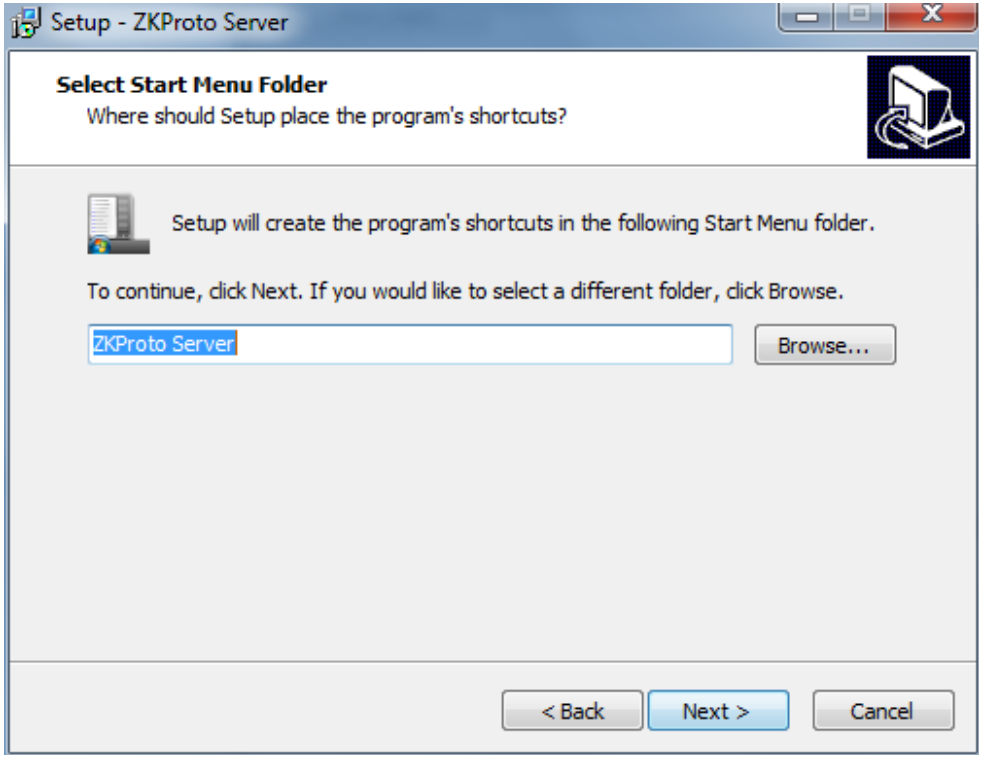
If Java or PostgreSQL has been installed in your computer, the page will be as shown as below:




you can choose a path to install ZKProto Server.

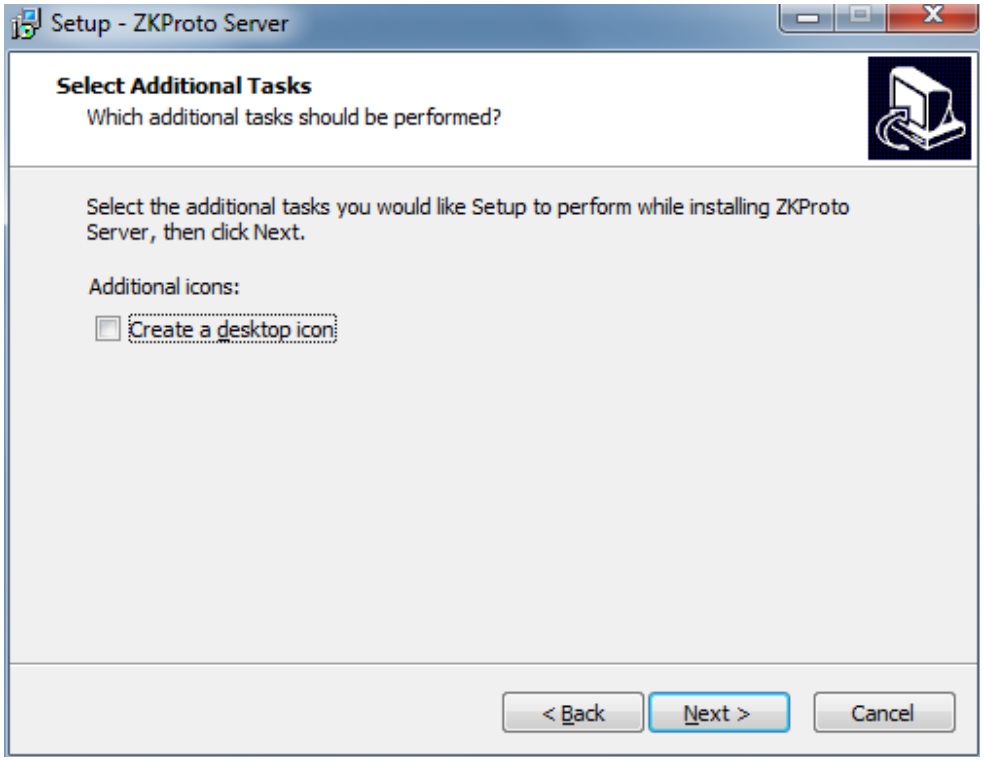
Please notice that the running logs of server are also located in the location you choose, so make sure there is enough memory to store the logs. Once there are too many logs, you can delete obsolete and useless logs.

5. Click Next.



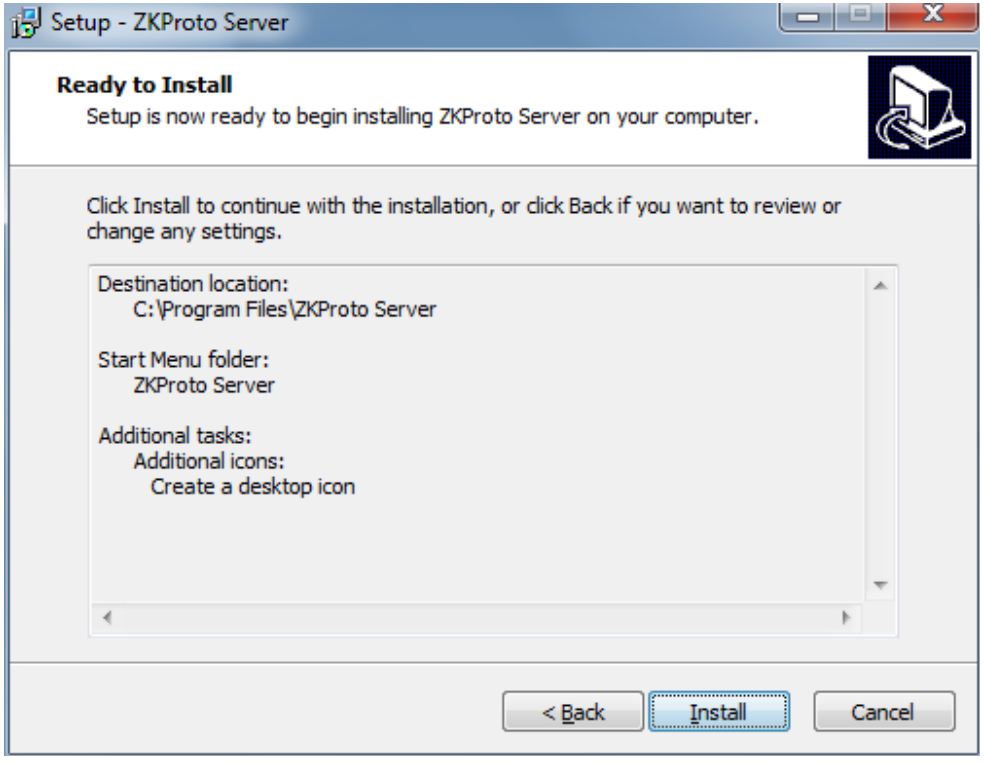

Set a Start Menu folder name.

6. Click Next.

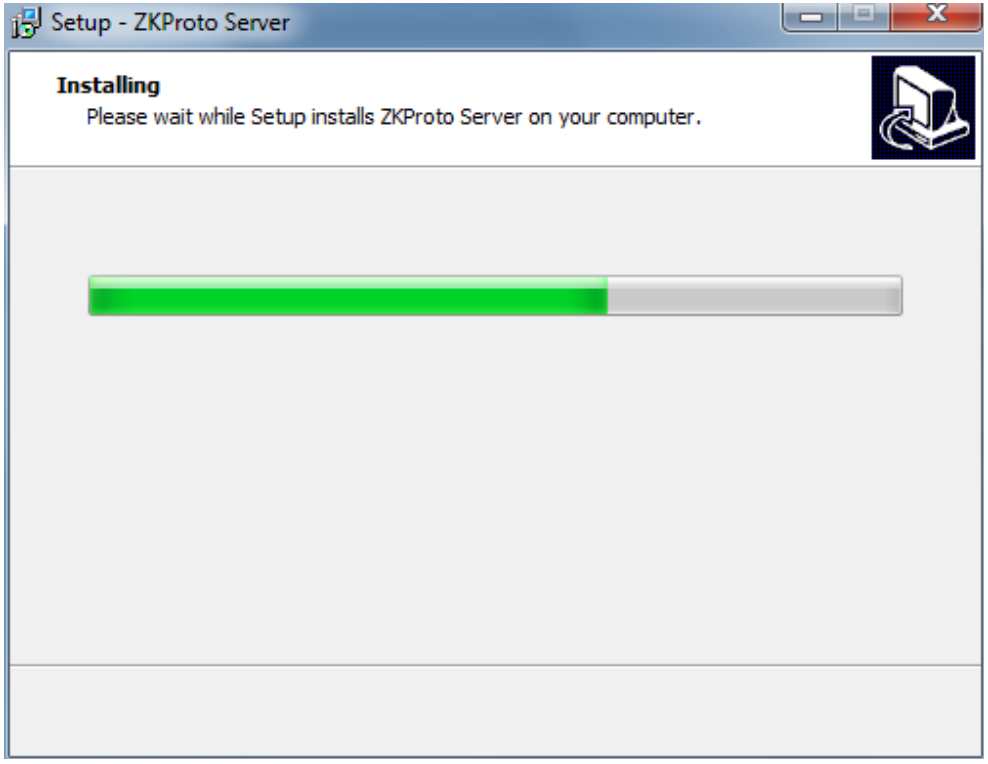



If you want to create a desktop icon, check the box.

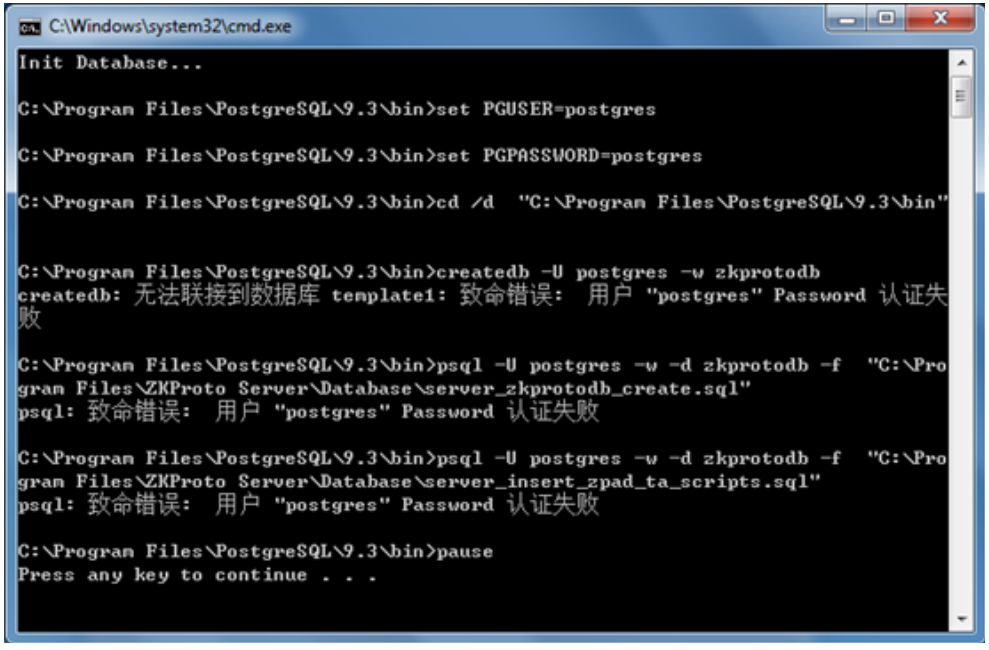
7. Click Next.


Setup - ZKProto Server
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 review or change any settings.
Destination location:
C:\Program Files\ZKProto Server
Start Menu folder:
ZKProto Server
Additional tasks:
Additional icons:
Create a desktop icon
< Back
Install
Cancel

8. Click Install to start the installation.

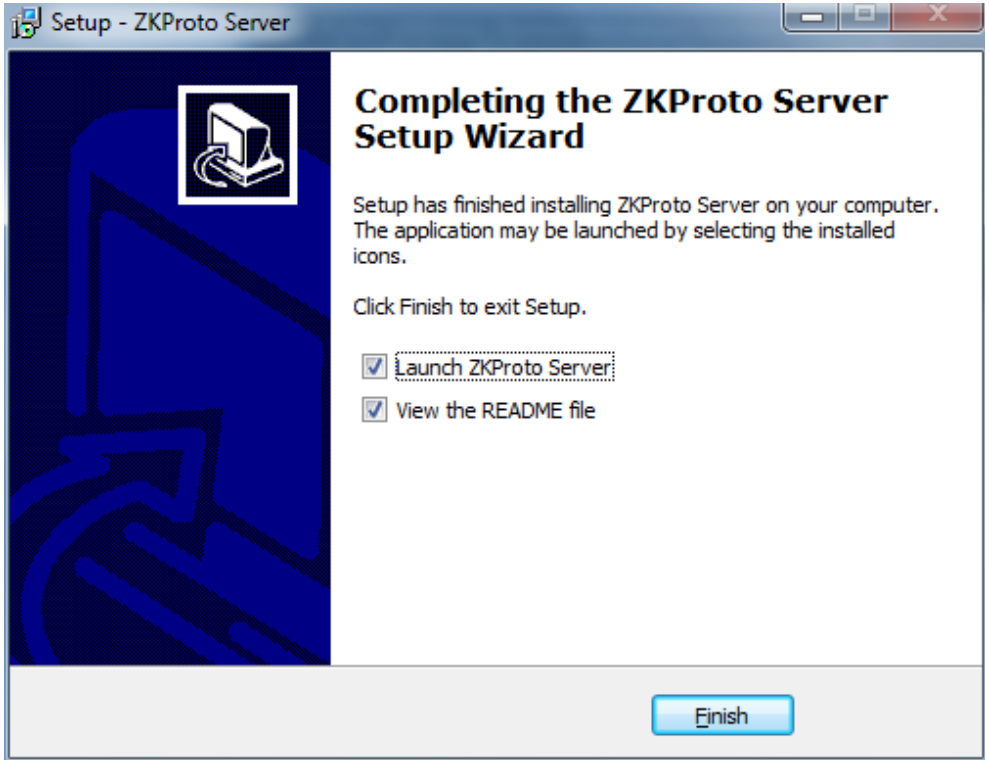


The installer will initialize the database for ZKProto Server as shown as below:



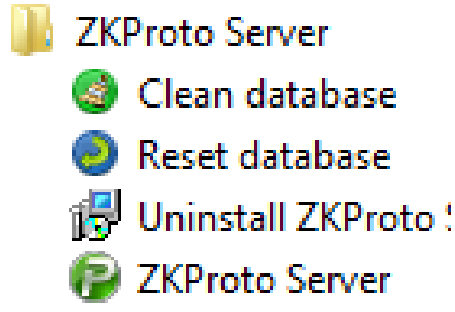

Press any key to continue.

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.

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