# Installing MySQL 5.7.28 on Windows (64-bit)

Instructions for installing MySQL on a Fastbase customer server. You will need to be logged in as a user with administrator privileges.

## **MySQL Installer**

Download the MySQL 5.7 Installer from the Fastbase website:

http://fastbase.co.nz/download/mysql-installer-web-community-5.7.28.0.msi

Install the MySQL Installer by right-clicking on the downloaded file and selecting "Run as administrator". A progress window similar to that shown on the right will appear.

MySQL Installer - Community	
Please wait while Windows configures MySQL Install	er - Community
	Cancel

If an error message appears, requiring the .NET version to be updated to 4.5.2, then you will need to download and install the following: https://www.microsoft.com/en-us/download/details.aspx? id=42642

Once the install has finished, the installer will run automatically. If it doesn't, locate the MySQL Installer from the Windows Start Menu – MySQL. Run as administrator via the right click menu.

MySQL Installer	
installer	Optional MySQL Installer Upgrade Available You will continue receiving product catalog updates if you do not apply the upgrade. Do you want to apply this upgrade now?
	Yes No

You may be prompted to upgrade the MySQL Installer to the latest version; Select "No". Accept the licence agreement if asked.

# Install MySQL Server

A MySQL Installer window will appear. Select "Server Only" as the Setup Type and press the "Next" button:



Check that the status is "Ready to Install", then press the "Execute" button:

题 MySQL Installer			-		×
MySQL. Installer	Installation				
Adding community	The following products will be installed.				
	Product	Status	Progress	Notes	
Choosing a Setup Type	MySQL Server 5.7.28	Ready to Install			
Installation					
Product Configuration					
Installation Complete					
	Click [Execute] to install the following packag	es.			
		< <u>B</u> ack	E <u>x</u> ecute	<u>C</u> ance	el

Wait while the Installer installs the server software:

🔯 MySQL Installer			-	
MySQL. Installer Adding Community	Installation The following products will be installed.			
	Product	Status	Progress	Notes
Choosing a Setup Type	🖋 📐 MySQL Server 5.7.28	Installing	50%	
Installation				
Product Configuration				
Installation Complete				
	Show Details >			
		< <u>B</u> ack	E <u>x</u> ecute	<u>C</u> ancel

Press the "Next" button one the install has completed successfully:



#### **Configure MySQL Server**

Press the "Next" button:



Select "Standalone MySQL Server / Classic MySQL Replication" and press the "Next" button:



Select Config Type "Dedicated Computer". Tick the TCP/IP checkbox, Port 3306. **Un-tick the "Open Windows Firewall port for network access" checkbox.** Press the "Next" button:



## Enter the MySQL root password, then press the "Add User" button:

🔯 MySQL Installer						×
MySQL. Installer MySQL Server 5.7.28	Accounts and Ro Root Account Password Enter the password for the r place.	les root account. Please	remember to store thi	s password in	a secure	
High Availability	MySQL Root Password:	•••••				
Type and Networking	Repeat Password:	•••••••	Wesk			
Accounts and Roles		Fassword strength	, weak			
Windows Service						
Apply Configuration	MySQL User Accounts Create MySQL user accoun consists of a set of privileg MySQL User Name	nts for your users and jes. Host	applications. Assign a	a role to the us	ser that       Add Usa       Edit Usa       Delete	er
			< <u>B</u> ack	<u>N</u> ext >	<u>C</u> ance	el

Enter "fbase" as the user name. Ensure Host is "All Hosts", Role is "DB Admin", and the password is left blank, then press "OK" to add the user, then the "Next button on the screen behind:

🔝 MySQL User Ac	count		×
Please specify	the user nan	ne, password, and database role.	
	User Name:	fbase	
Server	Host:	<all (%)="" hosts=""> V</all>	
	Role:	DB Admin v	
4	Authentication:	MySQL	
MySQL user cr	edentials		
	Password:	▲	
Confi	rm Password:		
		Password strength: Max	
		<u>O</u> K <u>C</u> ance	I

Tick "Configure MySQL Server as a Windows Service" and "Start the MySQL Server at System Startup". Change the Windows Service name to "MySQL". Select "Standard System Account" for the user to run the service. Press the "Next" button:

🔯 MySQL Installer	- 🗆 X
MySQL. Installer MySQL Server 5.7.28	Windows Service ☑ Configure MySQL Server as a Windows Service
High Availability Type and Networking Accounts and Roles	Windows Service Details Please specify a Windows Service name to be used for this MySQL Server instance. A unique name is required for each instance. Windows Service Name: MySQL57 Start the MySQL Server at System Startup
Windows Service	
Apply Configuration	<ul> <li>Run Windows Service as</li> <li>The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to pick one of the options below.</li> <li>Standard System Account Recommended for most scenarios.</li> <li>Custom User An existing user account can be selected for advanced scenarios.</li> </ul>
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

#### Press the "Execute" button:



Wait for the Installer to configure the service:



### Press the "Finish" button:

MySQL Installer		-		×
MySQL. Installer MySQL Server 5.7.28	Apply Configuration The configuration operation has completed. Configuration Steps Log			
High Availability	<ul> <li>Writing configuration file</li> <li>Updating Windows Firewall rules</li> </ul>			
Accounts and Roles	<ul> <li>Adjusting Windows service</li> <li>Initializing database (may take a long time)</li> </ul>			
Windows Service	<ul> <li>Starting the server</li> <li>Applying security settings</li> </ul>			
	<ul> <li>Creating user accounts</li> <li>Updating the Start menu link</li> </ul>			
	The configuration for MySQL Server 5.7.28 was successful. Click Finish to continue.	[	<u>F</u> inis	h

You'll need to press another "Next" and "Finish" button to close the Installer.

#### Add MySQL commands to the Windows PATH

The MySQL software should be installed under C:\Program Files\MySQL\MySQL Server 5.7; confirm this by navigating there using Windows File Explorer (Windows Key + E):



press the "Advanced system settings" button, on the left:

	Control Panel\System and Security	\System				- 0	×
÷	• 🔿 • 🛧 🛃 > Control Pane	el > System and Security > Sy	stem		✓ ঊ Search Control P		م
	Control Panel Home	View basic information	about your computer				?
	Device Manager	Windows edition					
•	Remote settings	Windows 10 Pro					
•	System protection	© 2019 Microsoft Corporat	tion. All rights reserved.		Windo	νις΄	10
•	Advanced system settings				vvindo	••5	
		System					
		Processor:	Intel(R) Core(TM) i5 CPU	650 @ 3.20GHz 3.19 GHz			
		Installed memory (RAM):	8.00 GB (7.86 GB usable)				
		System type:	64-bit Operating System, x	64-based processor			
		Pen and Touch:	No Pen or Touch Input is a	vailable for this Display			
		Computer name, domain, and	workgroup settings				
		Computer name:	HUIA			Change se	ttings
		Full computer name:	HUIA				
		Computer description:					
		Workgroup:	WORKGROUP				
		Windows activation					
		Windows is activated Rea	d the Microsoft Software Lice	ense Terms			
		Product ID: 00330-80000-0	0000-AA514		Şa	hange prod	uct key
	See also						
	Security and Maintenance						
	,						

On the "Advanced" tab of the System Properties window, press the "Environment Variables..." button, at the bottom.

On the Environment Variables window, click on the "Path" in the "System Variables" list at the bottom; then click the "Edit" button.

On the Edit Environment variable window, press the "New" button, and enter the text:

```
C:\Program Files\MySQL\MySQL Server 5.7\bin
```

...then then press the Enter key. Press OK on all three windows to save the changes.

Variable	Value
OneDrive	C:\Users\i5 User\OneDrive
Path	C:\Users\i5 User\AppData\Local\Microsoft\WindowsApps;
TEMP	C:\Users\i5 User\AppData\Local\Temp
TMP	C:\Users\i5 User\AppData\Local\Temp
	<u>N</u> ew <u>E</u> dit <u>D</u> elete
stem variables	
stem variables Variable	Value
stem variables Variable asl.log	Value Destination=file
stem variables Variable asl.log ComSpec	Value Destination=file C:WINDOWS\system32\cmd.exe
stem variables Variable asl.log ComSpec DriverData	Value Destination=file C:\WINDOWS\system32\cmd.exe C:\Windows\System32\DriverData
stem variables Variable asl.log ComSpec DriverData NUMBER_OF_PROCESSORS	Value Destination=file C:\WINDOWS\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 4
stem variables Variable asl.log ComSpec DriverData NUMBER_OF_PROCESSORS OS	Value Destination=file C:\WINDOWS\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 4 Windows_NT
stem variables Variable asl.log ComSpec DriverData NUMBER_OF_PROCESSORS OS Path	Value Destination=file C:\WINDOWS\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 4 Windows_NT C\Tcf\biny:Ci\ProgramData\Oracle\Java\javapath;Cr\Windows\system32;C:\Wind
stem variables Variable asl.log ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT PROCESSOR A DICHTECTURE	Value Destination=file C:\WINDOWS\system32\cmd.exe C:\Windows\System32\cmd.exe 4 Windows_NT C\Tcf.binyC:\ProgramData\Oracle\Java\javapath;C:\Windows\system32;C:\Wind .COM;EXE:BAT;.CMD;.VBS;.VBE;JS;JSE;WSF;WSH;.MSC;tcl
stem variables Variable asl.log ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT PROCESSOR_ARCHITECTURE PROCESSOR_IPENTIFIEP	Value Destination=file C:\WinDOWS\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 4 Windows_NT C.\Tchlin;c\\ProgramData\Oracle\Java\javapath;C:\Windows\system32;C:\Wind .COM;EXE;BAT;:CMD;VBS;,VBE;JS;JSF;WSF;WSH;MSC;tcl AMD64 Intel64 Enviro.6 Model 37 Exercise 5. Cranicaland
stem variables Variable asl.log ComSpec DriverData NUMBER_OF_PROCESSORS OS Path PATHEXT PROCESSOR_ARCHITECTURE PROCESSOR_JDENTIFIER	Value Destination=file C:\WINDOWS\system32\cmd.exe C:\Windows\System32\Drivers\DriverData 4 Windows_NT C:\Tchbin;C:\ProgramData\Oracle\Java\javapath;C:\Windows\system32;C:\Wind C:OM;EXE;B:AT;:CMD;.VBS;.VBE;JS;JSE;.WSF;.WSH;.MSC;tcl AMD64 Intel64 Family 6 Model 37 Stepping 5, GenuineIntel



it environment variable	>
C:\Tcl\bin	New
C:\ProgramData\Oracle\Java\javapath	
C:\Windows\system32	Edit
C:\Windows	
C:\Windows\System32\Wbem	Browse
C:\Windows\System32\WindowsPowerShell\v1.0\	
C:\Program Files (x86)\NVIDIA Corporation\PhysX\Common	<u>D</u> elete
%SystemRoot%\system32	
%SystemRoot%	
%SystemRoot%\System32\Wbem	Move <u>U</u> p
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	
C:\MySQL\bin	Move D <u>o</u> wn
%SYSTEMROOT%\System32\OpenSSH\	
C:\Program Files (x86)\Windows Kits\10\Windows Performance Toolkit\	
C:\Program Files (x86)\Windows Kits\10\Microsoft Application Virtuali	Edit <u>t</u> ext
C:\Program Files\MySQL\MySQL Server 5.7\bin	
OK	Cancel
UK	Cancel

Test the changes by opening a new command line window, and running the mysql command line client with the following command:

```
mysql -u fbase
```

```
Command Prompt - mysql -u fbase
Microsoft Windows [Version 10.0.18362.418]
(c) 2019 Microsoft Corporation. All rights reserved.
 C:\Users\i5 User≻mysql -u fbase
Welcome to the MySQL monitor. Commands end with ; or g.
Your MySQL connection id is 6
Server version: 5.7.28-log MySQL Community Server (GPL)
Copyright (c) 2000, 2019, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql>
mysql>
 nysal>
mysql>
 nysql>
 nysql>
```

## **MySQL Performance Tuning**

Stop the MySQL service, using an administrator command prompt. To do this, right-click on the windows start button, and select "Command Prompt (Admin)". Type in the following command:

net stop mysql

The MySQL configuration file, my.ini, is located under

```
\texttt{C:\ProgramData} \\ \texttt{MySQL} \\ \texttt{Server 5.7} \\
```



Make a backup of the file before editing it and adding the tuning parameters, which are found in the template file under R:\support\Server setup\mysql 5.7 config for Windows.txt.

WARNING: Do not use notepad to edit the my.ini; the default my.ini has non-ascii characters in the comments that notepad converts to gibberish, which causes MySQL to fail to start.

Once you have saved the changes, restart the MySQL service using the administrator command prompt:

net start mysql

Confirm MySQL is working by running the MySQL client on the command prompt:

mysql -u fbase