eRetail3.1 Deployment Documentation

V1.3

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Historic Version

Version	Date	Describe	Maker	Reviewer
1.0	2022/3/31	First edition		
1.1	2023/10/20	UI interface modification		
1.2	2023/11/13	eRetail3.1 Deployment Documentation translate		
1.3	2024/01/08	Added the steps for disabling the firewall		

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1. System Environment

1.1 System Hardware Requirements

(1) CPU 4 cores above, memory 8G, hard disk 100G, instance support 4W ESL, 10W more products (single store or multiple stores).

(2) CPU4 above, memory 32G, hard disk 300G, instance support 20W ESL, 100W more products (10 stores).

(3) 1 application server + 1 database server (with backup function), each server: 16-cores CPU, 64GB RAM, 1TB Disk space, NETWORK 10Mbps, supports 100 stores, 10 million product data.

1.2 System Version Requirements

Windows 7sp1 and Server 2008 R2 sp1 above system version, (Windows server 2016, Windows10 above are preferred).

1.3 System Environment Requirements

(1) Server 2012R2 patch

Required patches and installation order: clearcompressionflag.exe, KB2919442, KB2919355, KB2932046, KB2959977, KB2937592, KB2938439, KB2934018, dotnet-hosting-6.0.1-win.exe (Please don't change the order)

> Patch download address: https://pan.quark.cn/s/f66503e95d1f (extraction code: GcLW)

(2) Win7×64 bit patch

➢ Win7 is version 7600, need to upgrade to version 7601, install win7SP1, and install.net4 dotNetFx40_Full_x86_x64 (net40)

- Win7 7601 version installs VC_redist.x64 and Windows6.1-KB3063858-x64.msu
- > Patch download address: https://pan.quark.cn/s/adb6634f5ae2 (extraction code: GdPF)

(3) Regular system patches-Win10, Win11

- dotnet-sdk-6.0.400-win-x64.exe, VC_redist.x64, NET Framework version 4.5.1 or higher
- > Patch download address: https://pan.quark.cn/s/78e427c5212c (extraction code: EpKU)

2. MySQL Installation

2.1 Installation Notes

(1) If database has been installed on the local server, the customer needs to provide the database account, password, and database port for installation of Setup.

(2) This database isn't installed on the local server. Set as account root, password Pass99, and port 3306.

(3) Install version 5.7.10.0 above. Installation tutorial -Select Developer Default mode.

https://blog.csdn.net/m0 68416190/article/details/127146770

- (4) My SQL 5.7.10.0 version download: https://pan.quark.cn/s/ad3d6903f082 (extraction code: ACXh)
- (5) Installation completed

G MySQL80	5280	MySQL80
Smsiserver		Windows Installer
Siscsi 🇠		Microsoft iSCSI Initiator Service
S MSDTC		Distributed Transaction Coordinator
Smpssvc	4328	Windows Defender Firewall

2.2 Installation Steps

1. Open file, select 'Developer Default' and Next.





2. Just click 'Next'.



3. Select 'YES'.



4. Select Execute.





5. All Complete, click 'Next'.

MySQL. Installer	Installation The following products will be installed.		
	Product	Status	Progress Notes
hoosing a Setup Type	MySQL Server 8.0.30	Complete	
stallation	MySQL Workbench 8.0.30	Complete	
oduct Configuration	MySQL Shell 8.0.30	Complete	
and a configuration	MySQL Router 8.0.30	Complete	
stallation Complete	Connector/ODBC 8.0.30	Complete	
	Connector/C++ 8.0.30	Complete	
	🖉 🔄 Connector/J 8.0.30	Complete	
	🖉 🔄 Connector/NET 8.0.30	Complete	
	MySQL Documentation 8.0.30	Complete	
	🖉 📇 Samples and Examples 8.0.30	Complete	
	Show Details >		

6. Select Next.

SQL installer		- 🗆 X
MySQL. Installer Adding Community	Product Configuration	rd for each of the following products.
Choosing a Setup Type	You can cancel at any point if you wish to lea products.	ave this wizard without configuring all the
Installation	Product	Status
Product Configuration	MySQL Server 8.0.30 MySQL Router 8.0.30	Ready to configure Ready to configure
Installation Complete		
	٢	>
		Next > Cancel

7. The default port is 3306. Go to the next step.

MySQL Server 8.0.30	Type and Server Configu Choose the co define how m	I Networ	king	r this MySQL : d to the MySQ	Server installation. This :	setting v
Type and Networking	Config Type:	Developmen	nt Computer			
Authentication Method	Connectivity	in a sector la t		and the terms	and to this second	
Accounts and Roles		p	Port:	3306	X Protocol Port:	33060
Windows Service		pen Window:	s Firewall ports for n	etwork access		
Apply Configuration	🗌 Name	ed Pipe	Pipe Name:	MYSQL		
	Share	d Memory	Memory Name:	MYSQL		
	Advanced Cor	nfiguration				
	Select the che and logging o	ck bax below ptions for thi	to get additional co s server instance.	infiguration pa	iges where you can set	advance
	Show	Advanced ar	nd Logging Options			



8. No operation required, just click 'Next'.



9. Confirm login password: Pass99, the account defaults to Pass99.

S MySQL Installer	- 0	×
MySQL. Installer MySQL Server 8.0.30	Accounts and Roles Root Account Password Enter the password for the root account. Please remember to store this password in a secure place.	
Type and Networking Authentication Method	MySQL Root Password:	
Accounts and Roles		
Windows Service Apply Configuration	MySQL User Accounts Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.	
	MySQL User Name Host User Role	er
	Edit Us	£1
	Delety	-
	<back sect=""> Canc</back>	el

10. Click "Next".

MySQL Installer	- a x
MySQL. Installer MySQL Server 8.0.30	Windows Service
Type and Networking Authentication Method 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: MySQL80 Start the MySQL Server at System Startup
Windows Service	
Apply Configuration	Run Windows Service as 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. Standard System Account Recommended for most scenarios. Custom User An existing user account can be selected for advanced scenarios.
	< Back Next> Cancel



11. Click "Execute" to proceed to the next step.

MySQL Installer MySQL Installer MySQL Server 8.0.30	- X Apply Configuration Click [Execute] to apply the changes Configuration Steps Log
Type and Networking Authentication Method Accounts and Roles Windows Service Apply Configuration	 Writing configuration file Updating Windows Firewall rules Adjusting Windows service Initializing database (may take a long time) Starting the server Applying security settings Updating the Start menu link
	< Back Egecute Cancel

12. User name: root, Password: Pass99. Click Check to confirm and click "Next".

MySQL. Installer Samples and Examples	Connect To Server Select the MySQL server instances from the list to receive sample schemas and data.
Connect To Server	Server Port Arch Type Status
Apply Configuration	Provide the credentials that should be used (requires root privileges). Click "Check" to ensure they work.
	User name: root Credentials provided in Server configuration Password: Check 🖋

13. Click "Execute".

vlySQL Installer						
MySQL. Installer Samples and Examples	Apply Configu Click [Execute] to app	ration ly the changes				
	Configuration Steps	Log				
Connect To Server	 Checking if Running Sc 	there are any features insta ripts	illed that need config	uration.		
Apply Configuration						
					-	



14. Click "Next" to complete the installation.

MySQL Installer		- 🗆 X
MySQL. Installer Adding Community	Product Configuration	ard for each of the following products.
Choosing a Setup Type	products.	eve this wizera without configuring all the
Installation	Product	Status
Product Configuration	MySQL Server 8.0.30 MySQL Router 8.0.30	Configuration complete. Configuration not needed.
Installation Complete	Samples and Examples 8.0.30	Configuration complete.
		Next > Cancel

3. Redis Installation

3.1 Installation Notes

1. Download link: https://pan.quark.cn/s/5271dc49239c

2. The service name defaults to Redis.

SemoteAccess		Routing and Remote Access
💫 Redis	5504	Redis
🗟 RasMan	21156	Remote Access Connection Manager
💫 RasAuto		Remote Access Auto Connection Manager
RAPSService	7388	Rivet AP Selector Service

3.2 Installation Steps

1. Open the Redis installation package, check I accept the terms in the License Agreement, and select Next.

na oser Electise Agre	eement					
Please read the following	license agreeme	nt carefully			rec	ji
Cop y right © 2006-20)15, Salvatore	e Sanfilippo				^
Modifications Copyri	ight © Micros	soft Open Te	chnologies,	Inc.		
All rights reserved.						1
Redistribution and us modification, are per met:	se in source a mitted provid	nd binary for ded that the	ms, with or following c	witho onditio	out ons are	
\checkmark I accept the terms in the	e License Agreen	nent Selec	t and c	lick	Next	>
		_				



2. Select the database installation location and check Add the Redis installation folder to the PATH environment variable. Select Next

estination Folder			
Click Next to install to the defa	ult folder or click Change to choose anot	ner.	redis
Install Redis on Windows to:	The installation par customized	th ca	n be
C:\Program Files\Redis\			
<u>C</u> hange			
Add the Redis installation fol	der to the PATH environment variable.		
Select and click	Next		

3. The default port is 6379. Click "Next".

Redis on Windows Setup		-		\times
Port Number and Firewall Exception				
Select whether to add an exception to the Wind	lows Firewall for Redis.		rec	lis
Port to run Redis on:				
Default next 627	0 een he eu		inad	
⁶³⁷⁹ Default port 6379	9, can be cu	stom er	izea,	
		••		
Add an exception to the Windows Firewall.]			
Add an exception to the Windows Firewall.]			
Add an exception to the Windows Firewall.]			
Add an exception to the Windows Firewall.]			
Add an exception to the Windows Firewall.	Back Nex	đ	Can	cel

4. Click "Next" .





5. Click "Install" to start installing Redis.

🕼 Redis on Windows Setup	-	×
Ready to install Redis on Windows		redis
Click Install to begin the installation. Click Back to review of settings. Click Cancel to exit the wizard.	or change any of your i	nstallation
Back	Install	Cancel

4. Installation .NET 6.0

Click the link "https://dotnet.microsoft.com/", select "All .NET versions" and choose to download any .net

6.0 version.

Build. Tes NET is the free, open- ramework for buildin powerful cloud service verset and the started septement of the started	t. Deploy. source, cross-platform g modern apps and is. Build it	with .NET	
Web Build web apps and services for macOS, Windows, Linux, and Docker.	Mobile and desktop Use a single codebase to build native apps for Windows, macOs, IOS, and Android.	Cloud Build scalable and resilient cloud- native apps that run on all major cloud providers.	88 Microservices Create independently deployable microservices that run on Docker containers.

Download .NET 6.0				
Not sure what to download? See recomm	ended downloads for the latest version of INEL			
✓ 6.0.25 Security patch ⊙				
✓ 6.0.24 Security patch ⑦				
✓ 6.0.23 Security patch ⊙				
✓ 6.0.22 Security patch ⊙				
✓ 6.0.21 Security patch ☺				
✓ 6.0.20 Security patch ⊙				
∨ 6.0.19				
✓ 6.0.18 Security patch ⊙				
\checkmark 6.0.16 Security patch ()				
∨ 6.0.15				

5. Setup Installation

5.1 Installation Notes

The version is continuously being updated. Please install the latest version when installing. The installation version will be provided by the project manager.

5.2 Installation Steps

1. Open the Setup package and click Agree

LEL Electronic price tag installer		- 0	>
Install eRetail 3.1			
Ilser Ilse Agreement			
User use Agreement			_
If you install, copy or otherwise use the Software Product, you are deeme and have entered into this Software License Agreement (hereinafter refer Italer Electronic Technology Co., Ltd. (hereinafter referred to as "Italer") I Agreement, please do not install the Software. If you obtain any copy of t through lawful channels, you have the following rights:	ed to have agreed to the fo red to as "the Agreement" f you do not agree to the to he Software from the Trad	llowing terms) with Suzhou erms of this ing Center	
1			
I. Usurruct	ar and use the Softw	ave within	
the scope of your business to reproduce all the functions	of the Software.	a e er chin	
2. Technical Support			
(1) . You are entitled to full technical support from It	aler.		
(2). For any questions and problems arising from the in software, you have the right to raise and request the ans software.	stallation and use of wers or solutions of	this the	
Ν	Refuse	Agree	e

2. You need to install the environment first and click Next

Install eRetail 3. begin:	1 ,Prepare t	he following	; environment	before	you
1、.Net6.0 Run th	e environme	<u>nt</u>			
<u>2、MySq1 Serve</u>					
<u>3、Redis Serve</u>					



3. Fill port and installation path parameters, click Installation.

install exetall 3.1, bet the startup parameters
Name: eRetail_V3.1
Select the installation location:(approximately:300MB)
C:\Program Files (x86)\eRetail_V3.1
Main program port: 4000 🗘 TFT API Port: 4001 💼
Send service port: 9071 🔹 Video service port: 4002 🔹
Set the firewall to open the current port
🥑 Mainprogram 🕑 Sending service 🛛 Synchronization service 🗌 TFT APIserve 🗌 Video services
Not started

• When there are multiple instances, use port to distinguish the naming.



• Select the installation location.



The "Main program" must

"Send Service" is a service used for ESL communication. ✔

"Synchronization service" for data synchronization and docking \checkmark

"TFT APiServe" and "Video Service" are programs for TFT LCD or advertising screens.



4. Database parameter configuration.

Install eRetail	3.1, Please enter the following configuration:
DatabaseIP:	192.168.1.68
Database port:	3306
Username:	root
Password:	Pass99
Database name:	TitanDB
Redis:	192.168.1.68
Redis port:	6379 😧 0 🜩 When deploying multiple instances, each instance+
Native IP:	Please enter the external access IP address
	192.168.198.1

- > Database IP Install the My SQL server IP. You can fill in 127.0.0.1 locally.
- > Database port My SQL database port, default port 3306.
- Username My SQL database account, default root.
- Password My SQL database password.
- Database name Default name is fine.
- Redis Install the Redis server IP. You can fill in 127.0.0.1 locally.
- Redis Port Default is fine.
- Local ip: local IP address or mapped IP address

🧠 eRetail_V3.1-4000-4001-4002-9071	19312
🧠 eRetail_V3.1-4000-4001-4002-9071_DataSync	16336
eRetail_V3.1-4000-4001-4002-9071_SendServer	21212
🧠 eRetail_V3.1-4000-4001-4002-9071_TFTApi	17140
<pre>@ eRetail_V3.1-4000-4001-4002-9071_VideoService</pre>	13668



- 5. Turn off the firewall:
- 1) Click on the "Windows System."



2) Click on the "Control Panel."



3) Click on the "System and Security."





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System and Security						-	o x
\leftrightarrow \rightarrow \uparrow	S > Control Panel	System and Security >		~ C	Search Control Panel		م
Control Panel Home • System and Security Network and Internet	he	Security and Maintenance Review your computer's status and resolve Troubleshoot common computer problem	issues 🔰 🍤 Change User Account S	Control setting	в		
Hardware and Sound Programs	1	Windows Defender Firewall Check firewall status Allow an app thro	ugh Windows Firewall				
User Accounts Appearance and Personalization		System View amount of RAM and processor speed See the name of this computer	Second Se	nch remote ass	istance		
Clock and Region Ease of Access	1	Power Options Change what the power buttons do Ch	ange when the computer sleeps				
		File History Save backup copies of your files with File H	listory Restore your files with Fil	e History			
	海	Backup and Restore (Windows 7) Backup and Restore (Windows 7) Restore) re files from backup				
		BitLocker Drive Encryption Manage BitLocker					
	(H)	Storage Spaces Manage Storage Spaces					
		Work Folders Manage Work Folders					
		Windows Tools Free up disk space Defragment and opt View event logs Schedule tasks	imize your drives 🛛 🍤 Create and	format hard di	k partitions		

5) Click on the "Turn Windows Defender firewall on or off."

C	Help protect your PC with Wir	ndows Defender Firewall
Control Panel Home		
Allow an app or feature through Windows Defender	Windows Defender Firewall can help pro access to your PC through the Internet	event hackers or malicious software from gainin or a network.
Firewall	Private networks	Not connected
Turn Windows Defender Firewall on or off	Guest or public netwo	orks Connected
Restore defaults	Networks in public places such as airp	orts or coffee shops
Advanced settings	Windows Defender Eirewall state	02
Troubleshoot my network	Incoming connections:	Block all connections to apps that are not on the list of allowed apps
	Active public networks:	Network 2
	Notification state:	Notify me when Windows Defender Firewall blocks a new app

6) Click on the "Turn off Windows Defender Firewall".

P Customize Settings	_		×
\leftarrow \rightarrow \checkmark \uparrow \textcircled{e} « Windows Defender Firewall » Customize Settings \checkmark \circlearrowright	Search Cont	trol Panel	Ą
Customize settings for each type of network			
You can modify the firewall settings for each type of network that you use.			
Private network settings			
O Turn on Windows Defender Firewall			
Block all incoming connections, including those in the list of allowed apps			
Notify me when Windows Defender Firewall blocks a new app			
Turn off Windows Defender Firewall (not recommended)			
Public network settings			
O Turn on Windows Defender Firewall			
Block all incoming connections, including those in the list of allowed apps			
Notify me when Windows Defender Firewall blocks a new app			
Turn off Windows Defender Firewall (not recommended)			
▲ .			
ОК	Cancel		



6. After the installation is completed. Automatically enter eRetail3.1, need to perform [System]

Configuration] - [System Activation]

	System Configuration -> System Activation	
System Configuration		
* Instance name		
* Customer code		
* Client name		
	世一	

Click Activate, you need to provide the device ID, feature code, and Client name to the project manager, the project manager will activate the system for you.

0B132919BB0341729915DCE77177C195	-	
	=)	
fOUvRNCb1m2aTITykQu7WASCAIG3LRu+f/EZkW35rszPGdnM5kNHRmjsXbt/qnC +WyoD2op5+oIldXomDldVoCVgXhWur+CeweUR0xdMm/U5FpeZPZfDOoorDcBG1 53ICMZ6/432WhovJicSKPGIGkD6DyZ9yog9/gz1lfpysnmXAzPPdLdKycc3b+fcr1n MrMi7Y00K1uICTmGDdRIWXW2wkZd4JclQgEy+uE7nlfQ3UObP2qDVU8kVPYau		
ULZo9w+3YMzjkF74cPZx3/+w0o69I8NYqz+fBU08khX9+2w/ENE01ExNzf5jXLlgc8 4UPC7Xt/hvJ1Ra27Y197bK8SLwh67FeUxinwz0kPXv7d8KkPWLGnZGfdDQAL3gv FflstxE8DQr1wQ9+eHRe54Yb1fvXo46V2/T6rRe6ikyaOIGKrnF7aDpH2jlH/47K9rcr5 mTu5P0UJRYKMOGyEuUM3wkOw3+dk1NrvDk1DHWyKcpctgMnfMSS+Rfm7zJ8N	đ	
	fOUvRNCb1m2aTITykQu7WASCAIG3LRu+f/EZkW35rszPGdnM5kNHRmjsXbl/qnC +WyoD2op5+oIldXomDIdVoCVgXhWur+CeweUR0xdMm/U5FpeZPZfDOoorDcBG1 53ICMZ6/432WhovJioSKPGIGkD6DyZ9yog9j/gz1lfpysmmXAzPPdLdKycc3b+fcr1n MrMi7Y00K1uICTmGDdRIWXW2wkZd4JclQgEy+uE7nifQ3UObP2qDVU8kVPYau ULZo9w+3YMzjkF74cPZx3/+w0o69I8NYqz+fBU08khX9+2w/ENE01ExNzf5jXLlgc8 4UPC7Xt/nvJ1Ra27Y197bK8SLwh67FeUxinwz0kPXv7d8KkPWLGnZGfdDQAL3gv FflsIxE8DQr1wQ9+eHRe54Yb1fvXo46V2/T6rRe6ikyaOIGKrnF7aDpH2jIH/47K9rcr5 mTu5P0UJRYKMOGyEuUM3wkOw3+dk1NrvDk1DHWyKcpctgMnfMSS+Rfm7zJ8N 8	fOUvRNCb1m2aTITykQu7WASCAIG3LRu+f/EZkW35rszPGdnM5kNHRmjsXbt/qnC +WyoD2op5+oIldXomDIdVoCVgXhWur+CeweUR0xdMm/U5FpeZPZfDOoorDcBG1 53ICMZ6/432WhovJioSKPGIGkD6DyZ9yog9j/gz1lfpysmmXAzPPdLdKycc3b+fcr1n MrMi7Y00K1uICTmGDdRIWXW2wkZd4JcIQgEy+uE7nifQ3UObP2qDVU8kVPYau ULZo9w+3YMzjkF74cPZx3/+w0o69I8NYqz+fBU08khX9+2w/ENE01ExNzf5jXL1gc8 4UPC7Xt/hvJ1Ra27Y197bK8SLwh67FeUxinwz0kPXv7d8KkPWLGnZGfdDQAL3gv FflsIxE8DQr1wQ9+eHRe54Yb1fvXo46V2/T6rRe6ikyaOIGKrnF7aDpH2jIH/47K9rcr5 mTu5P0UJRYKMOGyEuUM3wkOw3+dk1NrvDk1DHWyKcpctgMnfMSS+Rfm7zJ8N 8