



VeSion[®] Server

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VeSion® Server Installation Overview



VeSion System

Major Software Components

The VeSion system software runs on Microsoft Windows operating system. The operating system can be:

- Windows Server 2012
- Windows Server 2016
- Windows Server 2019

This quick guide provides detailed steps to install the applications needed for a VeSion Server. Below are the major software and server roles that need to be installed on the server, in addition to the relevant tools to facilitate the installation.

- Web Server (IIS), .NET Framework 3.5 and Telnet Client features
- MySQL database and workbench
- MySQL Connect 6.9.5
- GnuGPG Privacy Guard for VeSion system license
- VeSion Server Application
- VeSion Web HTML5 Application running under Internet Information Services (IIS)

Installation Highlights

This guide is based on the use of Windows Server 2016 and includes the following procedure highlights:

- Add operating system features and Install Microsoft applications
 - o Turn on Remote Desktop Connection
 - o Add Web Server (Internet Information Services) role
 - o Add .NET Framework 3.5 feature
 - o Add Telnet Client feature
 - o Install Microsoft Visual C++ Runtime Libraries 2015 Redistribution
- Open TCP ports on firewall (assuming that the built-in firewall of the Windows Operating System is used)
- Install database and configure VeEX applications
 - o Install MySQL Installer version 8
 - o Install MySQL Server
 - Install MySQL Workbench
 - o Configure MySQL Database
 - o Install MySQL Connector 6.9.5
 - o Install and configure VeSion Sever application
 - o Install VeSion Web HTML5 application and upload system license
- Add application shortcuts to Startup

Software and Tools

- MySQL Installer for Windows version 8.0.17.0.
 - o https://dev.mysql.com/downloads/mysql/
 - o Consult with VeEX Customer Care for compatibility with other versions
- MySQL Connector 6.9.5
 - o https://downloads.mysql.com/archives/c-net/
- MySQL configuration tool <MySQLConfigurationHelper(3.0.0)190218> (Provided by VeEX)
- PnuGPG <gpg4win-vanilla-2.3.3.zip> (Provided by VeEX)
- VeSion GPG public key file <vesion_public.key> (Provided by VeEX)
- VeSion license file:
 - o Provided by VeEX for the ordered configuration and license duration
- VeSion Server (Provided by VeEX)
- VeSion Web HTML5 (Provided by VeEX)

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Organizing the Software on the Server

- To allow an easy reference to the software installation history and access to the software for future use, it is recommended to put the installation software on the server
- If Drive C: has a good amount of free disk space, use the default Documents folder
- Create a Software_Archive folder under Documents
- Under the Software_Archive folder, create the following folders
 - o MySQL, which contains the MySQL installation software, MySQL Configuration Helper
 - o VeSion_License, which contains the gnu installation software and the vesion_public.key file
 - o VeSion_Package, which contains the VeSion Server and the VeSion Web HTMLT software



Upgrades

- If upgrading VeSion server version, perform step 5 only
 - o Make sure to uninstall previous VeSion server version first

- If upgrading VeSion HTML5 version, perform step 6 only
 - o Make sure to delete previous HTML5 folder first

Server Roles and Features

Step 1: Server Manager

Add Roles and Features

- The first step of the installation is to use the Add Roles and Features of the Server Manager to add the below roles and features
 - Web Server (IIS)
 - o .NET Framework 3.5 Features
 - o Telnet Client



Select installation	on type	DESTINATION SE VESIONSER	RVER RVER2
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	 Select the installation type. You can install roles and features on a running plimachine, or on an offline virtual hard disk (VHD). Role-based or feature-based installation Configure a single server by adding roles, role services, and features. Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to create or session-based desktop deployment. 	hysical computer or vi	rtual
	< Previous Next >	Install	cel

Add Web Server (IIS) Role

• Web Server (IIS) and associated features

📤 Add Roles and Features Wizard			- 🗆 X
Coloct conver role			DESTINATION SERVER
Select server role	🛓 Add Roles and Features Wizard	×	VESIONSERVER2
Before You Begin			×
Installation Type	Add features that are required for Web Server (IIS)?		otion
Server Selection	The following tools are required to manage this feature, but do not		erver (IIS) provides a reliable,
Server Roles	have to be installed on the same server.		eable, and scalable Web tion infrastructure.
Features	 Web Server (IIS) Management Tools 		
Confirmation	[Tools] IIS Management Console		
Results			
	 Include management tools (if applicable) 		
	Add Features Cancel		
	Addreatores		
L L			
		_	
	< Previous Next >		Install Cancel
-		_	
Add Roles and Features Wizard			- U X
Salact conver role	-		DESTINATION SERVER
Select server tole:	5		VESIONSERVER2
Before You Begin	Select one or more roles to install on the selected server.		
Installation Type	Roles	Descr	iption
Server Selection	☐ Active Directory Federation Services ^	Web S	Server (IIS) provides a reliable,
Server Roles	Active Directory Lightweight Directory Services Active Directory Rights Management Services	mana applic	geable, and scalable Web ation infrastructure.
Features	Device Health Attestation		
Web Server Role (IIS)	DHCP Server		
Confirmation	Fax Server File and Storage Services (1 of 12 installed)		
Results	Host Guardian Service		
	MultiPoint Services		
	Network Policy and Access Services Print and Document Services		
	Remote Access Remote Desiton Services		
	Volume Activation Services		
	Windows Deployment Services		
	Windows Server Essentials Experience Windows Server Update Services		
	< Previous Next >		Install Cancel
		_	

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Add .NET Framework and Telnet Features

- NET Framework 3.5 Features
 - The .NET Framework 3.5 features are needed to run the MySQL Configuration Tool when setting up the database
- Telnet client
 - o The telnet client is needed for probe troubleshooting, if needed

🚡 Add Roles and Features Wizard		– 🗆 X
Add Roles and Features Wizard Select features Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Select one or more features to install on the selected server. Features Image: Select one of the selected server of the selected server. Image: Select one one of the select one	– C × DESTINATION SERVER VESIONSERVER2 Description NET Framework 4.6 provides a comprehensive and consistent programming model for quickly and easily building and running applications that are built for various platforms including desktop PCs, Servers, smart phones and the public and private cloud.
	IP Address Management (IPAM) Server ISNS Server service LPR Port Monitor <	
	< Previous Next	> Install Cancel

Add Roles and Features Wizard		DESTINATION SERVER VESIONSERVER2
Before You Begin	Select one or more features to install on the selected server.	Description
Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	Vindews Client VM Shielding Tools for Fabric Management WkebDAV Redirector Windows Biometric Framework Windows Biometric Framework Windows Identity Foundation 3.5 Windows Internal Database Windows Process Activation Service Windows Server Backup Windows Server Backup Windows Standards-Based Storage Management Windows Stremer Migration Tools Windows Standards-Based Storage Management Windows Starderds-Based Storage Management Windows Mathie Staragement	Telnet Client uses the Telnet protocol to connect to a remote Telnet server and run applications on that server.
	< Previous Nex	t > Install Cancel

Add Roles and Features

• Check in the Web Server Role (IIS) > Role Services includes Management Tools > IIS Management Console. Then click Next> to continue



• Click Install in the Confirmation to proceed add the IIS role and the .NET Framework and Telnet Client features. Let it finish the installation

🔁 Add Roles and Features Wizard		-	
Installation progre	225	DESTINATIO VESIC	ON SERVER DNSERVER2
Before You Begin	View installation progress		
Installation Type	1 Starting installation		
Server Selection			
Server Roles			
Features	.NET Framework 3.5 Features		^
Web Server Role (IIS)	.NET Framework 3.5 (includes .NET 2.0 and 3.0)		
Role Services	Telnet Client		
Confirmation	Web Server (IIS)		
Results	Management lools IIS Management Console		
	Web Server		
	Common HTTP Features		
	Default Document		
	HTTP Errors		
	Static Content		
	Health and Diagnostics		~
	Export configuration settings		
	< Previous Next > Ins	tall	Cancel

Open Required Ports on Windows[®] Firewall Step 2

- For the VeSion Server, the following inbound TCP ports need to be opened:
 - o Port 80 for http web access
 - o Port 4523 for access from HTML5 web client and mobile app
 - o Port 40000 for VeSion probe servers to VeSion Server access
- Launch Windows Firewall with Advanced Security
 - Click Inbound Rules at the left pane, then click New Rule at the right under Actions > Inbound Rules to bring up the Rule setting pop-up

🗢 🔿 🖄 📷 🔒 🔽			
Windows Firewall with Advance	Inbound Rules	Actions	
Inbound Rules	Name 🔶	Group Profile A Inbound Rules	
Connection Security Rules	Remote Event Log Man	agement (RPC) Remote Event Log Management All 🗽 New Rule	
🗉 🍢 Monitoring	Remote Event Log Man	sgement (RPC-EPMAP) Remote Event Log Management Al	ET.
	www.inbound.kule.wizarc		
	Rule Type		
	Select the type of firewall rule to	steate.	
	Steps:		
	 Rule Type 	What type of rule would you like to create?	
	Protocol and Ports		
	Action	C Program	
	Profile	Rule that controls connections for a program.	
	Name	Port	
		Rule that controls connections for a TCP or UDP port.	
		O Predefined:	
		BranchCache - Content Retrieval (Uses HTTP)	
		Rule that controls connections for a Windows experience.	
		O Custom	
		Custom rule.	

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Inbound Rules

- Click Inbound Rules at the left pane, then click New Rule at the right under Actions > Inbound Rules to bring up the Rule setting pop-up
- Select Port, click Next > to continue then pick Specific local ports and enter the tcp port 80, 4523 and 40000. Click Next > to continue. Select Allow the connection and apply the rule to all three

• TCP	
O UDP	
Deep this rule apply to all legal s	ante ar apopiño logal porte?
Does this fulle apply to all local p	ons or specific local ports?
All local ports	
All local ports Specific local ports:	80, 4523, 40000
All local ports Specific local ports:	80, 4523, 40000 Example: 80, 443, 5000-5010
 All local ports Specific local ports: 	80, 4523, 40000 Example: 80, 443, 5000-5010
 All local ports Specific local ports: 	80, 4523, 40000 Example: 80, 443, 5000-5010

• Allow the connection

This includes connections that are protected with IPsec as well as those are not.

 When does this rule apply?
 Domain Applies when a computer is connected to its corporate domain.
 Private Applies when a computer is connected to a private network location.
 Public Applies when a computer is connected to a public network location.

INSTALLATION GUIDE: VeSion Server

- Apply the rule to Domain, Private and Public networks
- In the next screen enter VeSion Server for the Name and a short statement, e.g. VeSion Server inbound firewall rule for the Description
- Make sure that the rule is enabled, then click Apply

W	hen does this rule apply?
	Domain Applies when a computer is connected to its corporate domain.
V	Private Applies when a computer is connected to a private network location.
•	Public Applies when a computer is connected to a public network location.

¥eSion Prop	erties	×
Protoco Gene	ols and Ports Scope Advanced Users eral Programs and Services Computers	
Genera	l	
	Name: VeSion Server Description: VeSion Server inbound firewall rule	
	Enabled	
Action	 Allow the connection Allow the connection if it is secure 	

Installing MySQL

Step 3

Download

- Download MySQL Installer for Windows for MySQL Community Server from
 - o https://dev.mysql.com/downloads/mysql/
 - Download the mysql-installer-community version, which has a large file size and keep a copy on the server; this way if there is a need to reinstall/reconfigure MySQL Server or Workbench the software is readily available

Generally Available (GA) Re	leases
MySQL Installer 8.0).17
Select Operating System:	Looking for previous GA versions?
Microsoft Windows	T
Windows (x86, 32-bit), MSI Installer	8.0.17 18.5M Download
(mysql-installer-web-community- 8.0.17.0.msi)	MD5: 567707887fc0d1fad7fc848a878a0da2 Signature
Windows (x86, 32-bit), MSI Installer	8.0.17 393.4M Download
(mysql-installer-community- 8.0.17.0.msi)	MD5: 3aa8d6470fb6b58f517d3efb46e5472b Signature

• Run the installer and choose Customs as the Setup Type

o you want to run this file?	MySQL Installer		- 🗆 ×		
Name:or\Downloads\mysql-installe Publisher: <u>Oracle America, Inc.</u> Type: Windows Installer Package From: C:\Users\Administrator\Downl	er-community- MySQL Installer Adding Community Liciniz Agreement Choesing a Setup Type Installation Installer Installer Adding Community	License Agreement To proceed you must accept the Oracle Software License Terms. Convertigence Conver	S MySQL Installer MySQL. Installer Adding Community License Agreement	Choosing a Setup Type Plesse select the Setup Type that suits you O Developer Default Intellity and an analysis of an	- ur use case. Setup Type Description Althory you to safect eacity which products yo
Always ask before opening this file While files from the Internet can be useful, th harm your computer. Only run software from What's the risk?	n (miduation competer	Prendle International Control Service and English and Control Service	Choosing a Setup Type Select Products and Features Installation Installation Complete	ends as product needs for high Calc announce proposed for high Calc announce proposed for high Calc Server high Calc Server	wood (like to install. This also allows to pick oth server versions and architectures (depending on year CS).

MySQL Server

• Expand the MySQL Servers tree and select the MySQL Server version available to install



MySQL Server Installation Location

- Highlight MySQL Server in the Products/Features To be Installed section
- Click Advanced Options to bring up the Install Directory and Data Directory. Change the directory as appropriate. In our example, drive D: is used for the installation

NySQL Installer			-		×
MySQL. Installer Adding Community	Select Products and For	eatures ures you would like to install o	n this machine.		
License Agreement	Filter: All Software, Current Bund	e,Any		Edit	
Choosing a Setup Type	Available Products:	Products/Featu	res To Be Install	ed:	
Select Products and Features	MySQL Servers	⊞ <mark>.</mark> MySQL Ser	ver 8.0.17 - X64		
Check Requirements	Applications MySQL Connectors				
Installation	Documentation	⇒			
Product Configuration		4			
Installation Complete					
	Published: N/A Estimated Size: 513 MB Release Notes: <u>http://dev.mysql.com/doc/re</u>	notes/mysal/8.0/en/news-8-0-17.html	A	dvanced Option	
		Pa l	Nets	<u> </u>	-
		< Back	Next >	Canc	el

MySQL. Inst	aller	Select Products and Features	
Adding Commu	nity		
		Please select the products and features you would like to install on this n	nachine.
		Filter:	
License Agreement	Advanced Op	ions for MySQL Server 8.0.17	Edit
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Check Requirements	D:\Program	illes\MySQL\MySQL Server 8.0	
encernequirements			
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Product Configuration	D:\Program[ata\MySQL\MySQL Server 8.0	
Installation Complete	ŧ		
			_
		OK Cancel	
		Published: N/A Estimated Size: 513 MB	Advanced Options
		Release Notes: http://dev.mysgl.com/doc/relnotes/mysgl/8.0/en/news-8-0-17.html	

Add Workbench Application

• Expand the Applications tree and navigate to the MySQL Workbench



Workbench Installation Location

- Select MySQL Workbench in the Products/Features To Be Installed section
- Click Advanced Options and change the directory as appropriate. Change the directory as appropriate. In our example, drive D: is used for the installation

MySQL. Insta Adding Commun	a ller ity	Select Products and Featu Please select the products and features y	ITES ou woul	ld like to install on this m	achine.
License Agreement		All Software, Current Bundle, Any			Edit
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Select Products and Fi	eatures	MySQL Servers		MySQL Server 8.0.1	7 - X64
Check Requirements Installation Product Configuration Installation Complete	n	HySQL Server Applications P-MySQL Workbench MySQL Workbench 8.0 MySQL Workbench 8.0 MySQL For Excel MySQL For Excel MySQL Shell MySQL Router MySQL Router MySQL Connectors Documentation	- X6	U- MySQL Workbench	18.0.17 - X64
		Published: Monday, July 15, 2019 Estimated Size: 123 MB Release Notes: http://dev.mysol.com/doc/reinotes;	> workbench	/en/wb-news-8-0-17.html	Advanced Options
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Visual C++ Redistribution

• Click Next > to proceed. The installer will check if the Microsoft Visual C++ redistribution required is already installed in the system and provides the relevant requirement. Click Execute and the installer will attempt to download and install the required redistribution software

MySQL. Installer Adding Community	Select Products and Features
	Filter:
icense Agreement	All Software, Current Bundle, Any Edit
Choosing a Setup Type	Available Products: Products/Features To Be Installed:
Select Products and Features	MySQL servers MySQL server 8.0.17 - X64 Or MySQL Server Or MySQL Server 8.0.17 - X64
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nstallation	MySQL Workbench 8.0.17 - X6
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• Accept the agreement and click Install to proceed



NySQL Installer	– 🗆 X
MySQL. Installer	Check Requirements
Adding Community	The following products have failing requirements. MySQL Installer will attempt to resolve them automatically. Requirements marked as manual cannot be resolved automatically. Click as each itemat the reducember it prevents.
License Agreement 🛛 🛱 M Choosing a Setup Type	icrosoft Visual C++ 2015 Redistributable (x64) - 14.0.241 C ×
Select Products and Fe	Redistributable (x64) - 14.0.24123
Installation	tup Successful
Product Configuration	
	Close
	< Back Execute Next > Cancel

INSTALLATION GUIDE: VeSion Server

- Click Next > to verify the prerequisite of the installation has been met that the MySQL Server and MySQL Workbench are ready to install
- Click Execute to continue the installation



S MySQL Installer			-		×
MySQL. Installer Adding Community	Installation The following products will be installed	L			
License Agreement Choosing a Setup Type Select Products and Features Check Requirements Installation Product Configuration Installation Complete	Product Product MySQL Server 8.0.17 MySQL Workbench 8.0.17	Status Ready to Install Ready to Install	Progress	Notes	
		< Back	Execute	Cance	el

Installation Completed

• Once the installation is complete, the next step is the configure MySQL Server



MySQL Installer	_	- 🗆 X	
MySQL. Installer Adding Community	Product Configuration We'll now walk through a configuration	wizard for each of the following products.	
License Agreement	You can cancel at any point if you wish products.	to leave this wizard without configuring all the	
Choosing a Setup Type Select Products and Features Check Requirements Installation	Product MySQL Server 8.0.17	Status Ready to configure	
Product Configuration			
Installation Complete			
	٢	>	
		Next > Cancel	

MySQL Server: Basic Configuration

- Select Standalone MySQL Server / Classic MySQL Replication. Use the below settings:
 - o Config type: Server Computer
 - o TCP/IP port: 13300

N	
MySQL Installer	- 🗆 X
MySQL. Installer	High Availability
MySQL Server 8.0.17	Standalone MySQL Server / Classic MySQL Replication Choose this option to run the MySQL instance as a standalone database server with the opportunity to configure classic replication later. With this option, you can provide your own biob-availability coulting if required
High Availability	
Type and Networking	 InnobB Cluster The InnobB duster technology provides an out-of-the-box high availability (HA) solution for MySQL using Group Replication.
Authentication Method	
Accounts and Roles	
Windows Service	
Logging Options	Client App \leftrightarrow MySQL Router
Advanced Options	InnoDB Cluster
Apply Configuration	Note: <u>InnoDB cluster</u> requires a minimum of three MySQL server instances to provide a fully automated HA solution. Members of a cluster should be located such that network communication latency between servers is low.
	Next > Cancel
MySQL Installer	Next > Cancel
MySQL Installer	Next > Cancel -
MySQL Installer MySQL. Installer MySQL. Server 8.0.17	Next > Cancel - - X Type and Networking Server Configuration Type
MySQL Installer MySQL. Installer MySQL Server 8.0.17	Next > Cancel - - X Type and Networking Server Configuration Type Choose the correct server configuration type for this MySQL Server installation. This setting will
MySQL Installer MySQL. Installer MySQL Server 8.0.17 High Availability	Next > Cancel - - X Type and Networking Server Configuration Type Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server installation.
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MySQL Installer MySQL. Installer MySQL Server 8.0.17 High Availability Type and Networking	Next > Cancel — _ <
MySQL Installer MySQL. Installer MySQL Server 8.0.17 High Availability Type and Networking Authentication Method	Next > Cancel — — — × Type and Networking
MySQL Installer MySQL. Installer MySQL. Installer MySQL. Server 8.0.17 High Availability Type and Networking Authentication Method Accounts and Roles	Next > Cancel - - × Type and Networking - × Server Configuration Type Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance. ✓ Config Type: Server Computer ✓ Connectivity Use the following controls to select how you would like to connect to this server. ✓ M TCP/IP Port: 13300 X Protocol Port: 18306 M Open Windows Firewall ports for network access 18306
MySQL Installer MySQL Server 8.0.17 High Availability Type and Networking Authentication Method Accounts and Roles Windows Service	Next > Cancel — — × Type and Networking Server Configuration Type Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance. ✓ Config Type: Server Computer ✓ Connectivity Use the following controls to select how you would like to connect to this server. ✓ ☐ TCP/IP Port: 13300 X Protocol Port: 132060 ☐ Open Windows Firewall ports for network access _ MYSQL _
MySQL Installer MySQL Server 8.0.17 High Availability Type and Networking Authentication Method Accounts and Roles Windows Service Apply Configuration	Next > Cancel - - Cype and Networking Server Configuration Type Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance. Config Type: Server Computer Connectivity Vise the following controls to select how you would like to connect to this server. Marcel Pipe Port: 13300 X Protocol Port: 18060 Open Windows Firewall ports for network access Named Pipe Pipe Name: MYSQL Shared Memory Memory Name: MYSQL
MySQL Installer MySQL. Installer MySQL. Installer MySQL Server 8.0.17 High Availability Type and Networking Authentication Method Accounts and Roles Windows Service Apply Configuration	Next > Cancel - - × Type and Networking - - Server Configuration Type - - Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance. - Config Type: Server Computer ~ Connectivity Use the following controls to select how you would like to connect to this server. Image: TCP/IP Port: 1330 X Protocol Port: 1300 1000 Mamed Pipe Pipe Name: MYSQL Image: Top Memory Name: MYSQL Advanced Configuration State to abach would be not access Image: Top Memory Name: MYSQL
MySQL Installer MySQL Server 8.0.17 High Availability Type and Networking Authentication Method Accounts and Roles Windows Service Apply Configuration	Next > Cancel — — X Type and Networking Server Configuration Type Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance. Config Type Config Type Server Computer ~ Connectivity Use the following controls to select how you would like to connect to this server. Image: Server Computer Mande Pipe Port: 1330 X Protocol Port: 18360 Mande Pipe Pipe Name: MYSQL Shared Memory Memory Name: MYSQL Advanced Configuration Select the check box below to get additional configuration pages where you can set advanced and logging options for this server instance. Shared Advanced and Logging Options for this server instance. Shared Advanced and Logging Options for this server instance.
MySQL Installer MySQL. Installer MySQL. Installer MySQL Server 8.0.17 High Availability Type and Networking Authentication Method Accounts and Roles Windows Service Apply Configuration	Next > Cancel - ~ Type and Networking - Server Configuration Type - Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance. Config Type: Server Computer Connectivity Vise the following controls to select how you would like to connect to this server. Copen Windows Firewall ports for network access Open Windows Firewall ports for network access Named Pipe Pipe Name: MYSQL - Advanced Configuration Misserver instance. Select the check box below to get additional configuration pages where you can set advanced and logging options for this server instance. Show Advanced and Logging Options
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Image: NySQL Installer MySQL Installer MySQL Server 8.0.17 High Availability Type and Networking Authentication Method Accounts and Roles Windows Service Apply Configuration	Net > Cancel Child and an analysis Cancel

INSTALLATION GUIDE: VeSion Server

- Select Use Legacy Authentication Method. Click Next to continue
- Set the MySQL Root Password. Safe keep this root password and is needed to reconfigure MySQL and perform database export and import, if needed



INSTALLATION GUIDE: VeSion Server

- Take note of the default Windows Service Name make sure that the MySQL Server starts at Windows system startup
- Click Execute to apply and complete the configuration

MySQL Installer	- D X
	Windows Convice
MySQL, ITIStaller	
Nysqe server 0.0.17	✓ Configure MySQL Server as a Windows Service
	Windows Service Details
High Availability	Please specify a Windows Service name to be used for this MySQL Server instance. A unique name is required for each instance.
Type and Networking	Windows Service Name: MySQL80
Authentication Method	☑ Start the MySQL Server at System Startup
Accounts and Roles	
Windows Service	Run Windows Service as
Apply Configuration	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.
	An existing user account can be selected for advanced scenarios.
	< Back Next > Cancel
MySQL Installer	< Back Next > Cancel -
MySQL Installer	Apply Configuration
MySQL Installer MySQL. Installer MySQL Server 8.0.17	Apply Configuration Click [Execute] to apply the changes Configuration Steps Log
MySQL Installer MySQL. Installer MySQL Server 8.0.17	< Apply Configuration Click [Execute] to apply the changes Configuration Steps Log O Writing configuration file
MySQL Installer MySQL. Installer MySQL Server 8.0.17 High Availability	< Back Next > Cancel - - × Apply Configuration - × Click [Execute] to apply the changes - - O Writing configuration file - - Updating Windows Firewall rules - -
MySQL Installer MySQL. Installer MySQL Server 8.0.17 High Availability Type and Networking	< Back Next > Cancel - - × Apply Configuration Citck [Execute] to apply the changes - × Configuration Steps Log • • • Writing configuration file • Updating Windows Firewall rules • • Adjusting Windows service • • • • •
MySQL Installer MySQL. Installer MySQL Server 8.0.17 High Availability Type and Networking Authentication Method	< Back Next > Cancel - - × Apply Configuration - × Click [Execute] to apply the changes - × Configuration Steps Log - - Writing configuration file - Updating Windows Firewall rules - - Adjusting Windows service - - - - -
MySQL Installer MySQL. Installer MySQL Server 8.0.17 High Availability Type and Networking Authentication Method Accounts and Roles	Apply Configuration Click [Execute] to apply the changes Configuration Steps Log Writing configuration file Updating Windows Firewall rules Adjusting Windows service Initializing database (may take a long time) Starting the server
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MySQL Installer MySQL Installer MySQL Server 8.0.17 High Availability Type and Networking Authentication Method Accounts and Roles Windows Service Apply Configuration	 < Back Next> Cancel × Apply Configuration Click [Execute] to apply the changes Configuration Steps Log 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
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- At this point the basic configuration of MySQL is complete
- Click Next to finish and it will bring up Workbench

Choosing a Se Select Product Check Require Installation

Installation Co



Product	Status
MySQL Server 8.0.17	Configuration complete.
<	

MySQL Workbench

- When done, the MySQL Workbench opening menu is displayed
- There is a Local Instance MySQL80 in the MySQL Connections list
- The connection was set up during MySQL configuration phase earlier

MySQL W	/orkbench		-	×
File Edit	Wew Database Tools Scripting Help Welcome to	o MySQL	Workbench	×
	MySQL Workbench is the official g create and browse your databa design and run SQL queries to wor data	graphical user interface (GUI) tool f ise schemas, work with database ol k with stored data. You can also mi base vendors to your MySQL datal	or MySQL. It allows you to design, bjects and insert data as well as grate schemas and data from other base.	
	Browse Documentation >	Read the Blog >	Discuss on the Forums >	
	MySQL Connections 👁 🛇		٩	
	Local instance MySQL80			

MySQL Database: Setup for VeSion

- Double click on the Local instance MySQL80 connection and log in as root
 - o Use the password previously set up during MySQL Server installation and configuration

⊥ root Ψ localhoot13300

MySQL Database: Create Schema

- Select the Schemas tab near the bottom left, then
 - o Click on the Create a New Schema icon on the tool bar
 - Type vesion as the name of the schema. Click Apply.





Create VeSion Schema

- In the Review SQL script click Apply to create the schema. Click Finish to complete creating the schema
- Check that the VeSion schema is listed in the SCHEMAS section

Apply SQL Script	Review the SQL Script to be Applied	on the Database
	Online DDL Algorithm: Default ~	Lock Type: Default \checkmark
	1 CREATE SCHEMA 'vesion' ; 2	
	¢	
		Back Apply Cancel
MySQL Workbench Local instance MySQL80 × ile Edit View Query Database	Server Tools Scrinting Help	
Navigator Question SCHEMAS Image: Comparison of the second secon	Name: Vesion Name: Vesion Rename References	Specify the name of the schema here. You can use any combination of Refactor model, charging all references found in view, triggers, stored procedures and functions from the old schema name to the new one.
Vesion	Charset/Collation: Default Charset V Default Collation V	, The character set and its collation selected here will be used when no

Add User for VeSion Server Login

Administration Schemas

No object selected

- Select Administration tab, at the bottom left, then click on Users and Privileges and Add Account
- Add a new user account with login name "master". Enter a password and click Apply. Safe keep the user account password

NySQL Workbench					– 🗆 X
Local instance MySQL80 ×					
<u>File Edit View Query Databa</u>	se <u>S</u> erver <u>T</u> ools <u>S</u> cripting	<u>H</u> elp			
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Client Connections	User Accounts	Select an account to ed	help for f	the current caret position o	r to toggle automatic help.
Status and System Variables	User From Hos	t Login Account Limits A	\dm -		55
📥 Data Export	mysql.infoschema localhos mysql.session localhos	Login Name:			
💩 Data Import/Restore	mysql.sys localhos	cogri runci			
	root localnos	Authentication Type:			
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© * Performance Schema Setup		Commin Password.			
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Administration Schemas					
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No object selected	Add Account Delete	Refresh Revert	A Context Help Snippr	ets	
MySQL Workbench					
A Local instance MySQL	.80 ×				
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	6-6-6-	1			
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Losers and Privileges	USER ACCOUNTS	Det	and for account news	uscre /d	
Status and System Varia	ables User	From Host Log	n Account Limits A	dministrative Roles Schema Privileg	es
🕹 Data Export	mysql.session	localhost	Login Name:	master	You may create multiple accounts with
Data Import/Restore	mysql.sys	localhost			to connect from different hosts.
INSTANCE 🖏	newuser	%	Authoritantian Toran	Quadrat	For the standard password and/or host
Startup / Shutdown	1000	iocamosc	Autorentication Type:	Stanualtu	select 'Standard'.
A Server Logs				N	
🎤 Options File		Li	mit to Hosts Matching:	[%]	% and _ wildcards may be used
PERFORMANCE			Password:	*******	Type a password to reset it.
Oashboard				Strong password.	
🖑 Performance Reports			Confirm Paceword	********	Enter password again to confirm
💣 Performance Schema Se	etup		commin ussword.		enter passifora again to commit.
				Expire Password	

Revert Apply

Add Account Delete Refresh

Assign Administrative Roles

• While with user "master" selected in the User section, move to the Administrative Roles tab and enable DBA. This allocates all privileges to the user "master"

MySQL Workbench			
A Local instance MySQL80 ×			
<u>File Edit View Query Databa</u>	se <u>S</u> erver <u>T</u> ools	Scripting He	<u>H</u> elp
	i 🐻 😼		
Navigator	Query 1 Admini	stration - Users	rs and Privil. ×
MANAGEMENT			
Server Status	Local inst	ance MySQL80) Vilazor
Client Connections			nieges
👤 Users and Privileges	User Accounts		Details for account newuser@%
Status and System Variables	User	From Host	Login Account Limits Administrative Roles Schema Privileges
🚠 Data Export	mysql.session	localhost	Role Description Global Privileges
Data Import/Restore	mysql.sys	localhost	DBA grants the right ALTER
INSTANCE	newuser	%	MaintenanceAdmin grants rights n ALTER ROUTINE
Startup / Shutdown	1000	locamosc	UserAdmin grants rights to CREATE ROUTINE
Server Logs			SecurityAdmin rights to manage CREATE TABLESPACE
Options File			MonitorAdmin minimum set of CREATE TEMPORARY TABLES DBManager grants full right CREATE USER
PERFORMANCE			DBDesigner rights to create CREATE VIEW
Oashboard			ReplicationAdmin rights needed t DELETE
8 Performance Reports			BackupAdmin minimai rightsi V DROP
Performance Schema Setup			EXECUTE
			GRANT OPTION
			INSERT
			PROCESS
			REFERENCES Y
Administration Schemas			Revoke All Privileges

Schema Privileges

• Now, make sure that the Workbench window is maximized to fully display the window select the Schema Privileges tab and hit the Add Entry button to access the schema list

	tance MySQU80 5 and Privileges	Delals for yound markedby	
User	From Host	Login Account Limits Administrative Roles Schema Privileges	
mysql.infoschema mysql.session mysql.sys root	localhost localhost localhost localhost	Johana mwaga	
		Schema and Host felds may use % and _wildcards. Revolte All Privileges Delete Entry The server will match specific entries before wildcarded ones.	Add Entry

Assign VeSion Schema Privileges to "Master" User

- Choose the Selected schema option in the New Schema Privilege Definition pop-up. Pick the vesion • schema from the list, then click OK to close the selection window
- Click on Select "ALL" to allocate all applicable privileges •

. will have the following access rights to the sch

Object Rights

	1					
elect the Schema for which the user '	master' will have the privileges you want to define.					
Schema						
🔿 All Schema (%)		This rule will apply to any scher	na name.			
		This rule will apply to schemas t	hat match the	given name	or patte	rn.
 Schemas matching pattern: 		You may use _ and % as wildca Escape these characters with \	rds in a patter in case you wa	n. ant their liter	al value	
Selected schema:		Select a specific schema name	for the rule to a	apply to.	an raide	
Sciected scienta.	information scheme					
	mysal					
	performance_schema					
	sys					
	vesion					
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for account master@¥6 Account Lints Admisignative Rales Schema Pr Printoges ion ALTER, ALTER ROUTINE	vRoges	delete, drop, event, execute, index, ins	ERT, LO			
s for account master@% AccountLinks Administrative Roles Schema Pr ma Privleges ALTER, ALTER, ALTER ROUTINE	VRQES	DELETE, DROP, EVENT, EXECUTE, INDEX, INS	ERT, LO			

Other Rights

GRANT OPTION

CREATE TEMPORARY TABLES

LOCK TABLES

Unselect All Select "ALL"

Set Up Variable Values

- Unzip MySQLConfigurationHelper(3.0.0) and put a copy in the local drive of the server
- Execute the software by clicking on MySQLConfigurationHelper.exe. If .NET Framework 3.5 features have not been added, then it will prompt for the required features
- Once the configuration tool is launched, enter the password for user "master" and then Connect

The following featu	ire couldn't l	pe installed:					
.NET Framework 3.5	(includes .NI	ET 2.0 and 3.0	0)				
Windows Server roles and Control Panel. To install Windows Server Windows PowerShell.	d features canno r roles and featu	t be automatica res, start Server	illy installed or u Manager, or use	ininstalled via th the Server Man	e Windows ager cmdle	s Features ets for	
						_	
						Cl	ose
MySQL Configuration H	lelper(3.0.0.19	908)			-		×
MySQL Configuration H	Connect to My: Server IP: Port: User ID: Password:	008) SQL 127.0.0.1 13300 master ******	Connect	Cancel			×

- Select Set All Automatically to run the configuration tool
- It will go through each variable setting and set the value. Click Forward when prompted
- Click Restart Server to restart MySQL to take the new variable settings. Or click Close to restart MySQL using Workbench

MySQL Configur	ation Helper(3.0.0.19908)	–
	Set All Automatically	✓ MySQL Configuration Helper(3.0.0.19908)
		Memory Size: <u>4</u> G
		Variable Infomation Variable Name: long_query_time
		Variable current Value: 3 Variable reseting value: 3
≪ Mys	QL Configuration Helper(3.0.0.19908	<pre># If a query takes longer than this many seconds, the server increments the Slow_queries status variable. # If the slow query log is enabled, the query is logged to the slow query log file. This value is measured in real time, not CPU time, # so a query that is under the threshold on a lightly loaded system might be above the threshold on a heavily loaded one. # Prior to MySQL 5.1.21, the minimum value is 1, and the value for this variable must be an integer. # Beginning with MySQL 5.1.21, the minimum is 0, and a resolution of microseconds is supported when logging to a file. # However, the microseconds part is ignored and only integer values are written when logging to tables. </pre>
		Back Forward
	Please restart the	e server to recover the new settings.
	Re Restart Server	start server,please.

Installing MySQL Connector 6.9.5

Download

- Download MySQL Connect 6.9.5 from
 - o https://downloads.mysql.com/archives/c-net/
 - o Select Product VerSion 6.9.5 from the dropdown and choose Download
 - O MySQL Product Archives
 - MySQL Connector/NET (Archived Versions)

Please note tha To download the	t these are old versions. New releases wil latest release of MySQL Connector/NET, ple	I have recent bug f ase visit MySQL Dov	fixes and features! vnloads.
Product Version: Operating System:	6.9.5 7.0.5 m4 7.0.4 m3 7.0.3 m2 7.0.2 m1	×	
Windows (x86, 32-bit) (mysql-connector-net-6.9.5.r	6.10.8 6.10.7 6.10.6 6.10.5 6.10.4		11.6M Download
Ue suggest that you download.	6.10.3 rc 6.10.2 beta 6.10.1 beta 6.10.0 alpha		e integrity of the packages
MySQL open source sof	6.9.11 6.9.10 6.9.9 6.9.8 6.9.7 6.9.6		

• Select Typical and continue until the installation is completed

Choose Setup Type			
Choose the setup type that best suits y	our needs		
Typical			
Installs the most common p	rogram features. Recomme	ended for mos	t users.
Custom			
Allows users to choose whic will be installed. Recommen	ch program features will be ded for advanced users.	installed and	where they
Complete			
All program features will be	installed. Requires the mo	st disk space.	
	Back	Next	Cancel

Installing PnuGPG

Step 4

Install GPG4win Application

- Unzip the gpg4win-vanilla-2.3.3.zip then double-click gpg4win-vanilla-2.3.3.exe to start the installation
- Set the Destination Folder to the appropriate installation drive, Drive D: in our example. Follow the onscreen instruction to complete the installation

© Gpg4win Setup Choose Insta Choose the for Setup will install Gpg4win in the following fol and select another folder. Click Next to cont	I Location Ider in which to install Gpg4win. der. To install in a different folder, click Browse inue.
Destination Folder DI:\Program Files (x86)\GNU\GnuPG	Image: Choose Start Menu Folder Image: Choose Start Menu Folder Choose a Start Menu Folder Choose a Start Menu folder for the Gpg4win shortcuts. Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.
Space required: 19.5MB Space available: 59.1GB Gpg4win-vanilla-2.3.3	System Tools Windows PowerShell
	Completing the Gpg4win Setup Wizard Gpg4win has been installed on your computer. Click Finish to close this wizard.
GPG	✓ Show the README file Click here for the project's homepage
	< Back Finish Cancel

INSTALLATION GUIDE: VeSion Server

Import Public Key File

- Copy the provided vesion_public.key file to \Documents\Software Archive\License folder
- Launch Command Prompt (cmd). Change directory to the GnuPG installation folder and enter the below command to import the public key to the system

```
D:\Program Files (x86)\GNU\GnuPG>gpg2.exe --import
"c:\users\Administrator\Documents\Software
Archive\License\vesion public.key"
```

• Below is the expected output of the command for a successful public key import



Running on Windows OS: Non-English Version

- If the VeSion system is running on a non-English language version, then it is required to remove the locale folder in the GnuPG installation
 - This can be done by renaming the folder from locale to locale_not-used

▼ Program Files (x86) ▼ GNU ▼ GnuPG ▼ share ▼
▼ New folder
Name *
🎉 gnupg
🔑 gpg4win
locale_not-used

• If this is not done, the VeSion System will always display the license expiration page when logging in, even when having a valid license

Installing VeSion Server

Step 5

Install VeSion Server Application

- Run setup.exe to install the VeSion Server application to the target hard drive •
 - The VeSion Server is a 64-bit application and will install in the \Program Files\VeEx\VeSion Server\ by default
 - o Set the target drive as appropriate. In the example below drive D: is the target drive
 - o Select install VeSion for Everyone
 - Click Next> to continue

VeSion Server -	- 🗆 X
Welcome to the VeSion Server Setup Wizard	
The installer will guide you through the steps required to install VeSion Server o	on your computer.
	⊮ VeSion Server – □ ×
	Shortcuts Creation Wizard
WARNING: This computer program is protected by copyright law and internation Unauthorized duplication or distribution of this program, or any portion of it, may	Setup can create shortcuts to VeSion Server on your Desktop and in the Quick Launch bar. Would you like Setup to create the shortcuts?
or criminal penalties, and will be prosecuted to the maximum extent possible un	Yes, I would like to create the VeSion Server shortcut on the Desktop.
	Yes, I would like to create the VeSion Server shortcut in the Quick Launch bar.
Cancel < Back	
🕼 VeSion Server	- 🗆 X
Select Installation Folder	
The installer will install VeSion Server to the follo	owing folder.
To install in this rolder, click TNext . To install to	a different folder, enter it below of click "browse".
Eolder: D:\Program Files\VeEx\VeSion Server\	Browse
,	Disk Cost
Install VeSion Server for yourself, or for anyor	ne who uses this computer:
Everyone	
⊖ Just me	
	Cancel < Back Next >
(Inc. 2827 Lakeview Court Fremont CA 94538 USA Tel·+1 510 651	.0500 Fax: +1.510.651.0505 www.veexinc.com CustomerCare@veexinc.com

Configure Login for VeSion Server Services

- After the VeSion Server application has been installed, open Windows Services
- Navigate to and double click on VeSion Server service, then open Properties

9,		Services					_ □	x
File Action View	Help							
	à 🔒 🛛 🖬 🕨 🔳 🕪							
🔍 Services (Local)	Services (Local)							
	VeSion Server	Name 🔺	Descrip	ption	Status	Startup Type	Log On As	^
		🔍 User Profile Service	This se	ervice	Running	Automatic	Local Syste	
	Start the service	VeSion CX180F Server	VeEx V	eSion		Automatic	Local Syste	
		VeSion CX180R Server	VeEx V	eSion		Automatic	Local Syste	
	Description:	VeSion CX380X Server	VeEx V	eSion		Automatic	Local Syste	
	VeEx VeSion Server	🍓 VeSion Server	Sta	art		Automatic	.\Administ	
		🧠 Virtual Disk	Cho			Manual	Local Syste	
		🔍 Volume Shadow Copy	510	pp		Manual	Local Syste	
		🔍 W3C Logging Service	Pau	use		Manual	Local Syste	
		🔍 Windows Audio	Res	sume		Manual	Local Service	
		Windows Audio Endpoint B.	Res	start		Manual	Local Syste	
		Windows Color System	All	Tasks	•	Manual	Local Service	
		Windows Connection Mana.				Automatic (T	Local Service	
		Windows Driver Foundation.	Ref	tresh		Manual (Trig	Local Syste	
		Windows Encryption Provid	Pro	operties		Manual (Trig	Local Service	
		Windows Error Reporting Ser	He	In		Manual (Trig	Local Syste	
		🔍 Windows Event Collector	The second	Р		Manual	Network S	

General Log On Recovery Dependencies Service name: VeSion Server Display name: VeSion Server Description: VeEx VeSion Server Path to executable: `` "C:\Program Files\VeEx\VeSion Server\VeSion Server.exe" Startup type: Automatic Service status: Stopped Start Stop You can specify the start parameters that apply when you start the service from here. Start parameters: OK	VeSion	Server Properties (Local Computer)
Service name: VeSion Server Display name: VeSion Server Description: VeEx VeSion Server Path to executable: "C:\Program Files\VeEx\VeSion Server\VeSion Server.exe" Startup type: Automatic Service status: Stopped Start Stop You can specify the start parameters that apply when you start the service from here. Start parameters: OK Cancel	General Log On	Recovery Dependencies
Display name: Ve Sion Server Description: Ve Ex Ve Sion Server Path to executable: '' ''C:\Program Files\Ve Ex\Ve Sion Server\Ve Sion Server.exe'' Startup type: Automatic Service status: Stopped Start Stop You can specify the start parameters that apply when you start the service from here. Start parameters: OK	Service name:	VeSionServer
Description: VeEx VeSion Server Path to executable: "C:\Program Files\VeExion Server\VeSion Server.exe" Startup type: Automatic Service status: Stopped Start Stop You can specify the start parameters that apply when you start the service from here. Start parameters: OK Cancel	Display name:	VeSion Server
Path to executable: "C:\Program Files\VeEx\VeSion Server\VeSion Server.exe" Startup type: Automatic Service status: Stopped Start Stop Pause You can specify the start parameters that apply when you start the service from here. Start parameters: OK Cancel Apply	Description:	VeEx VeSion Server
Startup type: Automatic ✓ Service status: Stopped Start Stop Pause You can specify the start parameters that apply when you start the service from here. Start parameters: Start parameters: OK Cancel	Path to executable ''C:\Program Files\	e: \VeEx\VeSion Server\VeSion Server.exe''
Service status: Stopped Start Stop Pause Resume You can specify the start parameters that apply when you start the service from here. Start parameters: Start parameters: OK Cancel Apply	Startup type:	Automatic V
Start Stop Pause Resume You can specify the start parameters that apply when you start the service from here. Start parameters: Start parameters: OK Cancel Apply	Service status:	Stopped
You can specify the start parameters that apply when you start the service from here. Start parameters: OK Cancel Apply	Start	Stop Pause Resume
Start parameters: OK Cancel Apply	You can specify th from here.	ne start parameters that apply when you start the service
OK Cancel Apply	Start parameters:	
OK Cancel Apply		
		OK Cancel Apply

Configure VeSion Server Application

- Open the Log On tab
- Select This account
 - o Enter the credentials of the user account with the administrator rights
 - o The Administrator account was used in this example
- Click Apply
- Click OK to exit

VeSion Ser	ver Properties (Local Computer)
General Log On Reco	overy Dependencies
Log on as:	
C Local System account	nt nteract with desktop
This account:	.VAdministrator Browse
Password:	•••••
Confirm password:	•••••
	OK Cancel Apply

- Launch VeSion Server Administrator and select the Configuration tab
- Update the settings in the Server Setting sub-tab:
 - o DB User Name: master
 - o DB Password: as previously configured
 - o Mark the checkbox corresponding to the VeSion
 - sub-systems that the VeSion system is supposed to use and is licensed for

- o To set the PGP Path, clock Select GPG and navigate
 - to the GnuPG installation folder and select gpg2.exe
- o Click Save to save settings

VeSion Server Administrator(4.0.9.20419)	-		×
Services Control Configuration			
Server Setting URL PNM Server Data Forward Server Email Server SNMP			
DD Liese Name			
DB Oser Name imaster			
DB Password			
CX180F CX180R			
CX380X 🖌 RTU410			
🗌 RTU320 🔲 3010H			
PNM Realworx			
CX280X ROME			
Refresh Alarms			
GPG Path			
D:\Program Files (x86)\GNU\GnuPG\gpg2.exe Select GPG			
License File Path			
Select License File			
SSL Cert Path			
Select SSL Cert File			
SSL Cert Password			
		Sav	/e

• Run 'SET GLOBAL log_bin_trust_function_creators = 1;' in Workbench



Database Creation/Update

- Starting with version 4.1.5 and onwards, VeSion Server Administrator will include a "Create/Update" database function for the user to upgrade or initialize the vesion database
- DB Host: The host IP of the MySQL Server
- Once database information are configured, click "Create/Update" to initiate the database modification
- NOTE: vesion schema must be created in MySQL or this step will result in an error

ices Control				
ver Setting	URL PNM Server	Data Forward Server		
_	DB Host	127.0.0.1]	
	DB User Name	master		
	DB Password	•••••	Create/Update database	
	CX180F	✓ CX180R		
	CX380X	RTU410		
	RTU320	3010H		
	PNM	Realworx		
	CX280X	ROME		
	Refresh Alarms			
	GPG Path			
	C:\Program Files (x)	86)\GnuPG\bin\gpg.exe	Select GPG	
	License File Path			
	C:\Program Files\Ve	Ex\VeSion Server\License\vesion_3A_21_78_1B_F4_0	Select License File	
	SSL Cert Path			
	C:\Users\Administra	tor\Desktop\VESION-VM201-SelfSigned.pfx	Select SSL Cert File	
	SSL Cert Password	•••••]	

• Run 'SET GLOBAL log_bin_trust_function_creators = 0;' in Workbench



URL

- Go to the URL tab
 - Enter the VeSion Web HTML5 URL
 - The other on-demand test links are used to provide a link to the alarmed port in the SNMP alarm trap to facilitate a Network Operator Center tester to verify the issue

VeSion Server Administrator(4.0.9.20419)	-		×
Services Control Configuration			
Server Setting URL PNM Server Data Forward Server Email Server SNMP			
Html Web http://192.168.0.82			
CX180F On-demand Test			
CX180R On-demand Test			
CX280X On-demand Test			
CX380X On-demand Test			
RTU320 On-demand Test			
RTU410 On-demand Test			
		Sav	e
1		1	

Email Server

- Navigate to the Email Server tab to set up email account for email notifications
- When finished with all the settings, click the Check button to run an email check

INSTALLATION GUIDE:	VeSion Server			
	VeSion Server Administrator(4.0.9.20419) -		×	
	Server Setting URL PNM Server Data Forward Server Email Server SNMP			
	Enable Sms Enable Smtp Server Port 25			
	Email Address Username Password BCC SSL Check			
		Sav	/e	

SNMP Server

- Navigate to the SNMP tab to configure the IP address and the UDP port of the SNMP trap collector server
- The SNMP Server settings on the VeSion Server Administrator are for sending system alarm traps

Server Setting URL PNM Server Data Forward Server Email Server SNMP
Image: Enable Enterprise Image: VeEX OID(1.3.6.1.4.1.36290) Community public Host(IP:Port;IP:Port) 192.168.0.70:162

INSTALLATION GUIDE: VeSion Server

Starting VeSion Server

Ethernet Port

- Before starting VeSion Server service, make sure the Ethernet port, with the MAC address the VeSion Server is licensed for, is in port linkup state
- The MAC address of the Ethernet port should be provided to VeEX in order to obtain a license file for the VeSion system
 - The MAC address of the Ethernet port is found in the 'Network Connection > Details window
 - When there are multiple Ethernet ports in the server, make sure to provide the one that will be used for connecting the server to the network

9		Network and Sharing) Center		_ 🗆 X
€	etwork and Internet 🕨 N	etwork and Sharing Center		✓ C Search Contr	ol Panel 🔎
Control Panel Home	View your	basic network inform	mation and	set up connections	
Change adapter settings	View your act	tive networks			
Change advanced sharir settings	ng Network Public ne	twork		Access type: Interne Connections: II NIC1	et
	Q.	NIC1 Status	X	¢	
	General	Network	Connection	Details ×	cess point.
	Connection IPv4 Connectivity IPv6 Connectivity Media State: Duration: Speed: Details Activity	Network Connection Details Property Connection specific DN Description Physical Address DHCP Enabled IPv4 Address IPv4 Subnet Mask Lease Obtained Lease Expires IPv4 Default Gateway IPv4 DHCP Server IPv4 DNS Servers	Value VeEX_Office Broadcom Net 10-98-36-82-C Yes 192.168.0.189 255.255.255.0 Tuesday, June Saturday, June Saturday, June 192.168.0.1 192.168.0.2 9.9.9	Xtreme Gigabit Ethemet 0-E2 18, 2019 3:40:37 PM ≥ 22, 2019 9:40:38 AM	on.
See also Internet Options Windows Firewall	Bytes:	JPv4 WINS Server	208.67.222.22 8.8.8.8 8.8.2.2 192.168.0.5	¹² 2 ~	
		<	III	Close	

Services Control

- Go to the Services Control tab on the VeSion Server Administrator
- Click Start Service button to start the VeSion Server service



Installing VeSion Web HTML5

Step 6

VeSion Web HTML5 Installation

- Create a VeSionWebHTML5 folder under the Drive:\Program Files\VeEx\
- Unzip the VeSionWebHTML5 software
- Copy all the files to the \Program Files\VeEx\VeSionWebHTML5 folder

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File Home Share Vie	ew						~
🔄 💿 🝷 🕆 퉬 🕨 This PC 1	DATA	A (C:) ► Program Files (x86) ► VeEx ► Ve	SionWebHTML5 >		∨ Ċ Sea	rch VeSionWebHTML5	P
👂 퉬 Program Files	^	Name	Date modified	Туре	Size		
4 🍌 Program Files (x86)		assets (6/18/2019 3:58 PM	File folder			
🛛 📗 Common Files		3 1.92737a90dc727e1f3c5b	6/17/2019 10:09 AM	JavaScript File	83 KB		
👂 퉬 Internet Explorer		2.f0a55ec9386089f50303	6/17/2019 10:09 AM	JavaScript File	18 KB		
Microsoft.NET		3.263da44584adb3190ad0	6/17/2019 10:09 AM	JavaScript File	36 KB		
MSBuild		3rdpartylicenses	6/17/2019 10:09 AM	Text Document	160 KB		
🖻 🎍 MySQL		4.eec59f172ae0e8c47f21	6/17/2019 10:09 AM	JavaScript File	17 KB		
Reference Assemblies		5.221b5e1f2c48f515f8f0	6/17/2019 10:09 AM	JavaScript File	21 KB		
Uninstall Information		6.ad3c7a559d0d3ff5729b	6/17/2019 10:09 AM	JavaScript File	37 KB		
4 📕 VeEx		7.2427118dd6a9c139e43b	6/17/2019 10:09 AM	JavaScript File	80 KB		
VeSion CX180F Server		8.70fe6a569f6166165fec	6/17/2019 10:09 AM	JavaScript File	21 KB		
Vesion CX180K Server		9.e9f52715f6a80d1fe545	6/17/2019 10:09 AM	JavaScript File	759 KB		
VeSion CX380X Server	_	10.e6b1fa65e5b2ec14f833	6/17/2019 10:09 AM	JavaScript File	340 KB		
VesionWebHTML5		11.bce8fbad1cc883370fd1	6/17/2019 10:09 AM	JavaScript File	102 KB		
Windows Iviali	_	12.4045fbc3189ad44a8490	6/17/2019 10:09 AM	JavaScript File	27 KB		
P Windows N1		13.1d69ca0a633e67aa6327	6/17/2019 10:09 AM	JavaScript File	50 KB		
V windowsPowerShell		14.f637d5f855048fc0e8e5	6/17/2019 10:09 AM	JavaScript File	15 KB		
V V ProgramUata		15.952fcf8a029546041fa2	6/17/2019 10:09 AM	JavaScript File	25 KB		
V 🐻 Users		16.62c5c709f73fdfa73413	6/17/2019 10:09 AM	JavaScript File	211 KB		
V 💼 Windows		I7.be570c8037524d8c7d3c	6/17/2019 10:09 AM	JavaScript File	4 KB		
V 👔 Windows.old		18.9bdb20165492343f4b3e	6/17/2019 10:09 AM	JavaScript File	55 KB		
V 💼 US (D:)		19.6ea03ba6e4f995f37bf7	6/17/2019 10:09 AM	JavaScript File	22 KB		
126 items	~	Phone 2 4 - 2 - 41 - 2 - 2	£/17/0010 10:00 A&A	1	17 10		8== (

Setting Up VeSion Website

• Open Internet Information Services (IIS) Manager on the Server Manager

🔁 Server Manager		– 🗆 X
Server Ma	anager 🕨 IIS 🛛 🔹 😨 I 🧗 Manage	Tools View Help
III Dashboard	SERVERS All servers 1 total	Computer Management Defragment and Optimize Drives
Local Server All Servers	Filter ρ (ii) \bullet (ii) \bullet	Disk Cleanup Event Viewer
■ File and Storage Services ▷	Server Name IPv4 Address Manageability	Internet Information Services (IIS) Manager iSCSI Initiator
To IIS	VESIONSERVER2 192.168.0.82 Online - Performance counters n	Local Security Policy
		Microsoft Azure Services ODBC Data Sources (32-bit)
		ODBC Data Sources (64-bit)
		Performance Monitor Print Management
	<	Resource Monitor
		System Configuration
	EVENTS All events 0 total	System Information
	Filter D E V R V	Windows Firewall with Advanced Security
		Windows Memory Diagnostic

- Right click on Sites and then select Add Web Site
- In the Add Web Site window
 - o Enter VeSion as the Site Name
 - o Set Physical path to Drive:\Program Files\VeEx\VeSionWebHTML5
 - o Enable 'Start Website immediately'
- Press OK

\$]	Internet Information Services (IIS) Manager	_ 🗆 X
€ S WIN-GEURBE4	UFG6 > Sites >	🖾 🖄 🔞 -
File View Help		
Connections	Sites	Actions Add Website
Start Page ⊿ · ♥ WIN-GEURBE4UFG6 (WIN-	Add Website	Set Website Defaults
Application Pools	Site name: Application pool: VeSion VeSion Select	• Help
▷ O Default web site ▷ O Vesion	Content Directory Physical path: C:\Program Files (x86)\VEX\VeSionWebHTML5 Pass-through authentication Connect as Test Settings Binding Type: Paddress: Port: http V All Unassigned V 80 Host name Example: www.contoso.com or marketing.contoso.com V Start Website immediately	
Ready		• 1 .:

MIME Types

- Select VeSion in the Sites list
- Double-click MIME Types

8	Internet Information Services (IIS) Manager	
	G6 → Sites → VeSion →	🕶 🗠 🟠 i 😨
File View Help		
Connections	A McGing Harry	Actions
🔍 • 🔚 🖄 😥	Vesion Home	🔊 Explore
🐴 Start Page	Filter:	Edit Permissions
A win-GEUKBE4UFG6 (WIN-GE		Edit Site
⊿ - i Sites	🔔 🦪 🗋 📅 🔒 🕋	Bindings Basic Settings
VeSion	Authentic Compression Default Directory Error Pages Handler HTTP	View Applications
	Document Browsing Mappings Respon	View Virtual Directories
		Manage Website
	Logging MIME Types Modules Output Request SSL Settings	🗢 Restart
	Caching Filtering	Start
	Management	Stop
		Browse Website
	Configurat	Advanced Settings
	Editor	Configure
		Limits

- Click on Add in the Actions pane at the right
- Add or modify the below 2 MIME types
 - Filename extension: .json
 MIME type: application/json
 - Filename extension: .svg
 MIME type: image/svg+xml

	iper				Ac	tions
	pes					Add
Use this feature to mana	age the list of file name (extensions and ass	sociated content typ	es that are served as		Edit
static files by the Web s	erver.				×	Remove
Group by: No Groupin	q •				0	Help
Extension A	MIME Type	Entry Type	1			Online Hele
ine	Edit MIME Type		? ×			Online help
ipeq						
.ipg	File name extension:					
,is	json					
.json	MIME type:					
.jsx	application/ison					
.latex	Pappinganon().com			_		
.lit						
.lpk		ОК	Cancel			
.lsf						
.lsx	video/x-la-asf	Inherited				
.lzh	application/octet-st	Inherited				
.m13	application/x-msme	Inherited				
.m14	application/x-msme	Inherited				
.m1v	video/mpeg	Inherited				
.m3u	audio/x-mpegurl	Inherited				
.man	application/x-troff	Inherited				
.manifest	application/x-ms-ma	Inherited		•		

Use this feature to man static files by the Web s	ypes hage the list of file name server.	extensions and ass	ociated content typ	pes that are served as
Group by: No Groupin	ng 🔻			
Extension 🔺	MIME Type	Fotry Type	1	
.sv4cpio .sv4crc	Edit MIME Type		? ×	
.svg	File name extension:			
.swf	svg			
.t	MIME type:			
.tar	image/svg+xml			
.tcl	,			
.tex				
.texi		ОК	Cancel	
.texinfo	P R L	The sufficient]
.tgz	application/x-compr	Innericed		
.tnmx	application/vnd.ms	Innerited		
FiF	image/tiff	Inherited		
tiff	image/tiff	Inherited		
.toc	application/octet-st	Inherited		
.tr	application/x-troff	Inherited		
.trm	application/x-mster	Inherited		•

Error Pages

• Double click on Error Pages

€ <u>i</u>	Internet Information Services (IIS) Manager	_ 🗆 X
🛞 🚱 🕨 WIN-GEURBE4UI	FG6 → Sites → VeSion →	😂 🗠 🟠 🔞 -
File View Help		
Connections	NeSion Home	Actions
Start Page Start Page A Sturk-GEURBE4UFG6 (WIN-GEI → Application Pools A Sites ▷ Consult Web Site ▷ Consult Web Site ▷ Vesion	Filter: • @ Go • @ Show All Group by: Area • @ • IS Is Is Is Authentic Compression Default Directory Default Directory Is Image: Solution of the structure Image: Solution of the structure Image: Solution of the structure	Explore Edit Permissions Edit Site Bindings Sasic Settings View Applications View Virtual Directories Manage Website
	Logging MIME Types Modules Output Request SSL Settings Caching Filtering Management Configurat Editor	Restart Start Stop Browse Website Browse *30 (http) Advanced Settings Configure Limits

- This setting is to support the user account password reset email function
 - o Double click Status Code 404 to edit the setting
 - o Select Execute a URL on this site and enter " / "

8 F	Internet Information Cenuices (IIC) Manager	_ D X
WIN-GEURBE4UF	FG6 → Sites → VeSion →	
File View Help		
File View Help Conections Start Page Start Page Start Page Start Start Start Page Start Page	Error Pages Status code Void V	Actions Add Edit Change Status Code Remove Edit Feature Settings Help
< III >	Features View OK Cancel	
Configuration: 'VeSion' web.config	L	• <u>1</u> .:

HTTP Response Headers

• Double click on HTTP Response Headers

Connections	🍑 VeS	ion Hom	e						
Start Page DPY5FX1 (DDPY5FX1)Administr	Filter:		- 🛱 Go - 🕻	Show All Gr	oup by: Area		-		
Application Pools	ASP.NET								
C a Sites C a G Default Web Site C a G VeSion B assets	.NET Authorizati	.NET Compilation	.NET Error Pages	.NET Globalization	.NET Trust Levels	Application Settings	Connection Strings	SMTP E-mail	
	115								
	Authentication	Default Document	Directory Browsing	A04 Error Pages	Handler Mappings	HTTP Response	Logging	MIME Types	Andules
	Output Caching	Request Filtering	SSL Settings			Treduers			

Web Content Expiration

- In the left Actions pane, click on Set Common Headers to bring up the Set Common HTTP Response Headers setting window
- Enable Expire Web contents: Immediately

🕘 HTTPI	Response Hea	aders	Actions Add
Use this feature to c	onfigure HTTP header	rs that are added to responses from the Web server.	Set Common Headers
Group by: No Grou	uping 🔻		Help
Name 🔺	Value	Entry Type	Online Help
X-Powered-By	ASP.NET	Inherited	
	۲ ۲		

• Restart VeSion website



Logging In Using Web Browser

- Use a high-score HTML5 compatible web-browser
 - Chrome is recommended
- Enter the IP address of the VeSion server
 - o If the VeSion login web page is displayed this indicates that the VeSion website is active
- Log in with the default user account
 - o User ID: master
 - o Password: master

	☆ 8
VeSion	
The Verification Experts	
User ID	
Password	
Remember me Forgot Password	
Log In	

VeSion System License Upload

Step 7

Uploading System License

- When logging in the VeSion system via web interface for the first time, after the installation is done, it will display the 'No License Data Found' message
- Make sure the Ethernet port with the MAC address the VeSion Server is licensed for is in port linkup state

Upload New License File Choose File No file chosen	
VeEX Contact Information	
2827 Lakeview Court Fremont, CA 94538, USA	
Customer Service: +1-510-651-0500	
Email: sales@veexinc.com	
	Upload New License File Choose File No file chosen VeEX Contact Information 2827 Lakeview Court Fremont, CA 94538, USA Customer Service: +1-510-651-0500 Email: sales@veexinc.com

INSTALLATION GUIDE: VeSion Server

- Click Choose File to upload the license file,
 - Licenses have the following file name format vesion_XX_XX_XX_XX_XX_XX.txt.asc, where XX_XX_XX_XX_XX_XX is the MAC address of the Ethernet port licensed
- Click on the Open button
- Once the license is uploaded, the system will auto log out the user
- Log in to the system again

VeEX VeSion	× +			- 0	
← → C ▲ Not se	cure 192.168.0.189/#/systemlicense			☆	θ
No License Data Found		Upload New License File VeEX Contact Information 2827 Lakeview Court Fremon Customer Service: +1-510-65	thoose File It, CA 94538, USA 51-0500		
	 Open ← → < ↑ ↓ → This PC → Downloads Organize ▼ New folder 	Linai, saies vecanic.com	× ▼ [ð] [Search Dowmloads) I = ▼ 11 0		
	Downloads Music Pictures Videos	DN 0_98_36_B2_C0_E2.txt.asc File	Date modified: 4/11/2019 9:57 AM Date modified: 6/18/2019 4:07 PM Size: 1.03 KB		
	File name: vesion_10_98_3	j_B2_C0_E2.txt.asc	ASC File (*.asc) Open Cancel	11	

• After uploading the license file successfully and logging in again, the web browser should display the Main Menu



• Going back to the VeSion Server Administrator > Configuration > Server Setting tab, the License File Path is now populated with the license uploaded



• A License folder containing the license file has been created under the VeSion Server installation folder



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	Notes
	About VeEX Inc.

Founded in 2006 by test and measurement industry veterans and strategically headquartered in the heart of Silicon Valley, VeEX Inc. provides innovative Test and Measurement solutions for next generation networks, services and communication equipment.

With a blend of advanced technologies and vast technical expertise, VEEX has developed products that diligently address all stages of network deployment, maintenance, and field service turn-up and integrate service verification features across DSL, fiber optics, CATV/DOCSIS, mobile 4G/5G backhaul and fronthaul (CPRI/OBSAI), next-generation transport network, fiber channel, carrier and metro Ethernet technologies, WLAN, and synchronization.

The VeEX team brings simplicity to verifying tomorrow's networks.

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