

Introduction

IVTVision Enterprise Health Manager (IVTEHM) allows you to remotely monitor certain parameters and events on IVTVision Servers with Enterprise licenses. IVTEHM is a Client/Server application. The IVTEHM Server runs as a service on any computer with a network connection to the monitored IVTVision Servers and a database connection. The IVTEHM Client only requires connectivity to the database. IVTEHM can run as part of a multi-user platform connected to a MySQL or Microsoft SQL (MS SQL) database, or on a standalone Client/Server workstation using an SQLite database that is created by the IVTEHM Server.

MySOL MS SO Del IVTEHM LANWAN IVTEHM Client IVTEHM Client . Multi-User Health Monitoring **IVTVision NVRs** IVTEHM Server IVTEHM SOLto Standalore Health Monitor Workstation

The following diagram shows how IVTEHM communicates with the database server and IVTVision systems.

NOTE: In the Multi-User example, IVTEHM and the database can run on the same server.

NOTE: In the Standalone example, IVTEHM, SQLite, and the IVTEHM Client must all run on the same workstation (even an IVTVision client computer). Clients from remote machines cannot connect to the SQLite database in the standalone installation.





The following drawing shows the approximate bandwidth used by the various IVTEHM connections.



Hardware Requirements

See http://www.inaxsys.com/en/products/ivtvision-software/ivtvision-enterprise-health-manager.html for a complete list of IVTVision Server and IVTEHM Server requirements.





Installation

NOTES:

- IVTEHM Server can be installed on a Linux or Windows platform.
- IVTEHM Client can be installed on a Linux, Windows, or Mac platform.
- In Windows, the Client can be installed by itself or with the Server.
- In Linux, the Client and Server must be installed separately.
- If IVTEHM will connect to a new MySQL database, see Appendix A before starting the procedure in this section.

To install Enterprise Health Monitor Server, complete the following steps:

- 1. Run the IVTVisionHealthClientAndServer.exe file and follow the onscreen prompts.
- 2. When the database types appear, select the type as follows:
 - MySQL (appropriate for most installations)
 - **ODBC** (select only if the database type is MS SQL)
 - **SQLite** (select if the IVTEHM client will be run only on the IVTEHM server)
- 3. Configure the IVTEHM database connection to match your database. If IVTEHM and the database are located on the same server, enter 127.0.0.1 as the hostname, as shown in the following example.

Configure MySQL Database Connection Specify details regarding the MySQL database to be accessed.	XIVEVISION.
Hostnames	Ports
127.0.0.1	3306
Database Name:	
IVTEHM 1	
Lisemane:	
root	
Password:	
ubotr instal System v2.45	Next > Cencel

4. If IVTEHM will connect to an existing SQL server, select Write Schema File and provide the file to the database administrator for manual configuration. Otherwise, select the Update Database Schema During Installation to have the installation process take care of this for you.





IVTEHM Client Overview

By default, IVTEHM Client opens to the Active Events tab if the connection to the database is successful. Otherwise, you must select Open Database Connection from the File menu and select a database from the pop-up window:

Database Connection		
C MySQL:		
Address:	Port:	
Username:	Password:	
Database Name:		
C ODEC:		
C ODEC: DSN:		~
C ODBC: DSN: C SQUIte:		<u>×</u>
C ODBC: DSN: SQUIE: Database File:		

NOTE: The SQLite option is not available when running IVTEHM Client on a Mac platform.

To close a connection with a database, select Close Database Connection from the File menu. To open a connection with a different database, select Open Database Connection from the File menu to open the Database Connection window. Then select the new database and click OK.





Tabs

You can open the following tabs from the View menu:

- Unacked Events. This tab shows all active events that have not been acked.
- Active Events. This tab shows all monitored events that are still in progress or haven't been resolved. This can include events that have been acknowledged (acked).
- All Events. This tab shows all events regardless of whether they are active, inactive, acked, or unacked.
- Systems. This tab shows a list of all monitored servers and their status.
- **Options.** This tab allows you to modify EHM parameters.

File Edt	View Help				
Unacked	Refresh FS	the Events All Even	Rs ×		
Event 10	Unacled Events	vent End Time	Event Type	Event Details	0
10058	Active Events	2/13/2010 12:13:57 PM	Server Connection Error	System 192,168,100.21:22609 disconnected.	
10057	Al Dynats	2/13/2010 12:13:57 PM	Server Connection Dror	System 192,168,100,21:22609 disconnected.	e
10056	Systems	2/L3/2010 12/11/40 PM	Server Connection Error	System 192,168,100,21(22609 disconnected)	
10055	Options	2/13/2010 12:11:40 PM	Server Connection Error	5ystem 192,168,100,21:22609 disconnected.	
10054	12/13/2010 12:10:1	12/13/2010 12:21:14 PM	Server Convection Error	System 192,168,100,10:22609 discovered.	
10053	12/13/2010 12:10:0	12/13/2010 12:21:14 PM	Server Connection Error	System 192,168,100,10:22609 deconnected.	
10052	12/13/2010 12:07:0	12/13/2010 12:00:04 PM	Server Connection Error	System 192,168,100,10,22609 disconnected.	0
10051	12/33/2010 12:06:5	12/L3/2010 12:08:34 PM	Server Connection Error	System 192,168,100,10:22609 disconnected.	
10050	12/33/2010 12:02:1	12/L3/2010 12:06/23 PM	Server Connection Error	System 192, 168, 100, 50, 22009 had a receive failure.	
10049	12/19/2010 12:02:0	12/13/2010 12:06:23 PM	Server Connection Error	System 192,168,100,50:22609 had a receive failure.	
10140	1014010640 +0-00-0	1011010010 10:01-00 Def	Cause Connection Dates	Custom 109 400 100 00 01008 december	

To close a tab, click on the X next to the tab's title. You can open multiple tabs simultaneously. To view more than one tab at a time, click and drag a tab title to an empty part of the screen. You can then resize a tab as desired by clicking and dragging its borders.

Each tab is described in greater detail the following sections.

NOTE: Information on all IVTEHM tabs is displayed in columns. To add or remove a column from a tab, right-click any column title and select a column name (columns with check marks next to them are displayed in the tab). You can also re-sort entries by clicking a column title.

Also, after the IVTEHM Client verifies that the IVTEHM Server is connected, the IVTEHM Server version number is displayed at the bottom of the IVTEHM Client window.





Adding Systems

The first thing you should do when you run IVTEHM is add a server that you want to monitor. Open the Systems tab and select Add System from the Edit menu to display the System Information pop-up window. Enter a valid username as configured on the system, a password, the password again, the IP address of the system, and the port number through which the system communicates on the network. Click OK when finished.

System Information	
Usemene:	
Password:	
Confirm:	
Address:	
Port: 22609	
	-
Cancel	

When you select a line on the Systems tab, the Edit menu also contains an Edit System and a Delete System menu item. You can use these to modify system information or remove a system from IVTEHM monitoring.

The Systems tab contains the following columns:

- System ID. This is a sequential number assigned to each server. The first system is 1, and each successive server is the next available number. If a system is deleted from the list, all systems maintain their original System ID.
- Address. The IP address of each server (not the address of an IP camera).
- **Port.** The port number through which the server communicates over the network.
- Username. The account through which the user is logged in to the server.
- **Password.** The password that the account used to log in to the server.
- **System Name.** The name of the server as it is identified on the network.
- Serial Number. The serial number of the system as assigned during manufacturing
- Status. The current status of IVTEHM monitoring on the system.





Viewing and Managing Monitored Events

By default, the Active Events, Unacked Events, and All Events tabs contain the following columns:

- **Event ID.** This is a sequential number assigned to each event. The first event is 1, and each successive event is the next available number.
- Event Start Time. This is the date and time of the start of the event.
- Event Type. See the "Options Tab" section of this document to see the types of events that can be monitored.
- Event Details. This shows the camera affected by the event or the name of an activated trigger.
- **Description.** This is the server on which the event occurred.

The ActiveEvents and All Events tabs also include the following columns:

- Ack Timestamp. The time that the event was acked (if applicable).
- Ack Name. The name of the person or account that acked the event.
- Ack Comment. Any optional information about the ack.

Unecked	Events	Systems	Active Events ×					
Event ID	Event Start	Time	Event Type	Event Details	Deception	Ack Timestamp	Adcitiono	Adk Comment
8404	12/1/2010	9:57:50 AM	IP Centere Not Connected	WV-NV/5025 - 1.3M Cube	IVTVision Penesonic Server			
2926	12/1/2010	9:57:50 AM	IP Canasa Not Connected	WV-WW5825 - 1.3M Cube	IVTVision Penesonic Server			
7878	12/1/2010	9:57:50 AM	JP Cemera Not Connected	WV-NW5025 - 1.314 Cube	IVTVision Peneconic Server			
2809	12/1/2010	9:57:50 AM	IP Canasa Not Connected	WY-NY/5825 - 1.311 Cube	IVTVision Peneconic Server			
7763	12/1/2010	9:57:50 AM	JP Camera Not Connected	WY-NY/5825 - 1.371 Cube	IVTVision Feneronic Server			
3746	12/1/2010	9:57:50 AM	IP Camera Not Connected	WV-WW5025 - 1.371 Cube	IVTVIsion Farasonic Server	12(3/2010 4:12:55 PM	MDG	Testing Adv
77(5	12/1/2010	9:57:50 AM	JP Camera Not Connected	WV-WW5025 - 1.311 Cube	IVTVision Fenesoric Server	12/3/2010 + 12:55 PM	MDG	Testing Ack
7703	12/1/2010	9:57:50 AM	JP Caneta Not Connected	WV-WV/5825 - 1.371 Cube	IVTVision Panesonk Server	32(3/2010 + 12:55 PM	MDG	Testing Ack
7702	12/1/2010	9:57:40.AM	IP Camera Not Connected	WV-WW5025 - 1.371 Cube	IVTVision Peresonic Server			
9195	12/1/2010	MA-2018C19	JP Camera Not Connected	Tashiba FT7161 - Sales	IVTVision Linux Server			
8799	12/1/2010	MA-2019019	IP Camera Not Connected	Toshiba F17161 - Sales	IVTVision Linux Server			

To ack an event, double-click its entry (or select Acknowledge Event from the Edit menu) to open the Acknowledge Event window. Enter an identification and comment about the ack, and then click OK. To modify an ack, doubleclick the event entry again (or select Edit Acknowledgement from the Edit menu) and modify the information in the pop-up window. To delete an ack, highlight its entry and select Delete Acknowledgement from the Edit menu.

cknowledge	Event		
System: Type: Details: Acknowledger: Commont:	IVTVision Sony Server IP Camera Not Connected EX104 - E Main Entrance		
		ОК	Cancel

NOTE: Acking an event does NOT remove it from the Active Events list; it simply means that the event has been noted. The event is removed from the Active Events list only when it has an actual Event End Time.





The All Events tab also includes the following columns:

- **Event End Time.** The date and time of the end of the event.
- Address. The IP address of the server on which the event occurred.

File Dát	fär Cd1 Vavi Help									
Unodied	Braded Events Stylens Addre Events All Events × Options									
£ +	Stating	Event End Time	Event Type_ID	Event Ostals	Description	Address	Scrieffeunber	Ad: Tirestarp	Ack Name	Adc:
9554	12/10/2010 9:36:40	12/10/2010 9:36:40 AM	IP Canera Not Connected	AU8360 - 360 IPEG 3	IVTVisionArecast Server	152.168.100.50	00-19-01-12-12-52			
9653	12/10/2010 9:36:40	12/10/2010 9:36:40 AM	IP Carriera Not Connected	AV8360 - 360 JPEG 2	IVTVision Arecont Server	192.168.100.50	00-19-01-62-12-92			
9652	12/10/2010 9:36:40	12/10/2010 9:36:40.AM	IP Carters Not Connected	AU8360 - 360 JPEG 1	IVTVision Avecant Server	192.168.100.50	00-19-01-£2-12-92			
9651	12/10/2010 9:27:13		D ² Carners Not Connected	Jopul L	IVTVision ACT Server	192.168.100.23	00-10-00-85-60-01			
9550	12/10/2010 9:27:13	MA SEL10-01 0105001/SE	IP Camera Not Connected	CAN/7321 - Erg-Oubes	IVTVisionACT Sever	192:169.100.23	00-10-00-85-68-01			
9549	12/9/2010 3/20/92 PM		DP Carriers Not Connected	AUSLOSON - SH W Windows	IVTVision Arecont Server	192.168.100.50	00-19-01-62-12-92			
9548	12/1/2010 9:57:50 AM		IP Carners Not Connected	WVMA5025 - 1.3MO.6e	(VTVision Panasonic Server	192.168.100.21	EPI0835001209			
9247	12/0/2010 4:47:32 PM		Storage Alam	Eil	Dens Inunk Server	192,165,100.34	03-16-76-13-40-09			
9546	12(8/2010 4:54:17 FM		Video Loss	Input 12	Dans frunk Server	192.168.100.34	00-16-76-13-40-09			
9545	12(0/2010 4:47:34 FM		Video Loss	Jopan L1	Dans Trunk Server	192, 168, 100, 24	03-16-76-13-40-09			
9544	L2/8/2010 4:54:17 FM		Ukden Lowe	Input 4	Dans Trunk Server	310.168.100.54	00-16-76-13-40-09			
9843	12/9/2010 2:44:26 PM		D ² Carriers Not Corrected	Avde MODIII Imus Test	Dans Inunit Server	192,160,100,34	00-16-76-13-40-09			
44.0			11 . I In	· · · · · · · · · · · · · · · · · · ·		144 124 244 4 2				





Options Tab

The Options tab allows you to modify IVTEHM parameters and select which event types IVTEHM monitors. The Options tab contains the following tabs:

- Database. This tab allows you to configure the following options:
- Database Change Poll Interval (Seconds). This determines how often IVTEHM checks the database for events.
- **Failed Database Op Retry Interval (Seconds).** This determines how soon IVTEHM tries to reconnect to the database server when a connection to the server is lost.

Database	Events Emai Logging		
Databa	se change pol interval (seconds):	30	:
Failed data	abase op retry interval (seconds):	1	÷

• Events. This tab allows you to choose whether to create a log entry or send an email notification for each of the following events:

Option on Events tab	Definition	
Device Failure	A device has failed.	
Input Trigger	Discrete input on a hybrid server (or IP camera with alarm input) activated.	
IP Camera Not Connected	Network cannot connect to an IP camera.	
License Expiry Notices	License expiration information.	
Motion	Camera has detected motion.	
Server Connection Error	Error when connecting to server.	
Soft Trigger	Signal sent from Client to server.	
Storage Alarm	Drive capacity threshold reached.	
Temperature	Temperature threshold exceeded.	
Video Loss	Analog video signal lost.	
Throttle Alarm	Disk throughput threshold exceeded.	
Fan Alarm	Fan has failed.	

Select the appropriate checkboxes for each event type. You can select one logging option, both logging options, or neither logging option for each event separately. The Events tab also allows you to configure events older than a certain number of days and configure how often those events are purged.



• **Email.** This tab allows you to configure the email notification feature. Enter the email server address, username, password, and timeout (in seconds). Also enter the information that will be included in the email, such as the name of the email's sender, the email's recipients, and the email's subject line. Also select the maximum number of events that can be included in a single email and how often email notifications should be sent (in minutes).

NOTE: A username and password are not required if authentication is not required on the mail server.

NOTE: Notifications are sent for active events that have occurred since the most recent notification. Notifications are not sent for cleared events.

Database Events Email	Logging
Server Address:	
Server Username:	
Server Password:	
Server Timeout (seconds):	60 -
Message From:	ſ
Message To:	
Message Subject:	
Max Events per Message:	20 🕂
Nessage Interval (minutes):	60 ÷

• Logging. This tab allows you to configure the maximum number of days of event information to include in the log file, which is saved to the IVTEHM server and inaccessible from the IVTEHM Client.

Database	Events	Email	Logging
Maxmum	Days to Lo	g: 3	50 <u>+</u>





Troubleshooting

An IVTEHM log file created on the server daily in \Program Files\IVTVision\Health\logs (default location) can help you determine the cause of various issues. Following are common issues that can be identified using the log file:

Issue: IVTEHM Server does not start. Cause: Database connection error. Log file entry: "Failed to open DB." Resolution: Contact the database administrator for information about database credentials.

Issue: IVTEHM Client shows no data. Cause: IVTEHM Server unable to write event data to database. Log file entry: "Failed to update system status into DB" and "... server has gone away." Resolution: Contact the database administrator for information about database credentials.

The following issue can also appear in the IVTEHM Client:

Issue: This message appears: "Enterprise Health Manager is not connected to this database. Please contact your system administrator." The title bar of the IVTEHM Client also displays the message "Enterprise Health Manager Server is not connected."
Cause: In normal operation, the IVTEHM Server increments a heartbeat counter in the database. This message indicates the heartbeat counter is not changing.
Resolution: Contact the database administrator to determine why the IVTEHM Server is not writing to the database.





Appendix A MySQL Installation Procedure

If IVTEHM will connect to a new MySQL database, complete these steps before starting the procedure in the "Installation" section of this document:

- 1. Download the most recent version of MySQL from www.mysql.com.
- 2. Run the MySQL installer. This might require additional software upgrades to support MySQL on your server.
- 3. On the Choosing a Setup Type screen, select Server Only or Full. (Do not select Client Only.)

MySQL Installer	Choosing a Setup Type	
	Please select the Setup Type that su	uits your use case.
License biformation Find latast products	Onveloper Default ander al productomediat for MySQL development purposes.	Setup Type Decorption Entatio only the MySQL Server. This type should be used vitrem you mant to stepping MySQL Server, but will not be developing MySQL lengedcom.
Setup Type	Server only Installs univ the MySQL Server	
Check Reparements	product.	
Datelation	Client only	
Configuration	products, vethout a server.	
Complete :	© Full	Instakation Parthy
	Installs all induced MySQL products and features.	Cr9nopan Res/MySQL1
	© Custom	Deta Patho
	Menally relies the products that should be installed on the system.	C/ProgramData (HySQL WySQL Server 5.5

4. When prompted to select the type of configuration on the MySQL Server Configuration screen, select Server Machine. (Do not select Developer Machine.)







5. When prompted to specify the network, Windows, and security settings on the MySQL Server Configuration screen, take note of all the information that you enter because you will need it in the next step and during IVTEHM installation.



- 6. After the MySQL installation is complete, create the IVTEHM database in MySQL. To do this, complete the following steps:a) Start the MySQL command line application.
 - b) Enter "create database xxxxx;," where "xxxxx" is the Windows service name created in step 5.

NOTE: A return of "Query OK, 1 row affected" indicates a successful database creation

c) Type "exit" and press Enter to close the command line application.







7. By default, Windows Firewall blocks database access to remote users. Either disable Windows Firewall, or configure an exception for the SQL port.



8. By default, MySQL does not grant user access to remote clients. Add each user account to MySQL as follows:

a. Start the MySQL command line application.b. Enter the following:

grant all privileges on [dbname].* to [user]@'[IP address] identified by '[Password]';

- [dbname] is the database name created in step 5.
- [user] is either the database username created in step 5, or the first of each username to be created.
- [IP address] is the IP address of the user. If multiple IP addresses are possible (such as with DHCP), use the % wildcard symbol as shown here:



• [Password] is the database password of the [user] account.

NOTE: The special characters (dot-asterisk, apostrophes, and semicolon) are all required. If a "Query OK" message is not received after pressing Enter, the privilege was not added.

9. Continue with the procedure in the "Installation" chapter of this document.





Appendix B Installation Notes

Creating a DSN

In a Windows deployment where the database backend will be SQL server, the database connection will be via ODBC. Before installing either the Client or the Server on a computer, a data source name (DSN) must be created. This DSN is used to inform both IVTEHM Server (evHealthServer.exe) and IVTEHM Client (evClientServer.exe) where to find the database. Creating a DSN is done via Start->Settings->Control Panel->Administrative Tools->Data Sources (ODBC). If this computer will run the IVTEHM Server, ensure that the DSN created is a System DSN, not a User DSN. This is selected on the first tab of the ODBC Data Source Administrator dialog.

Service Control Manager

The Windows IVTEHM Server installer registers evHealthServer as a service. It sets the recovery operations to retry the service first and then reboot the system upon service failure. These recovery options can be edited using Windows Service Control Manager (Start->Run->services.msc). There is no dependency set against the SQL Server because it is possible that the SQL Server will be running on a different computer. Upon startup, the IVTEHM Server will continue trying to connect to the SQL Server periodically until it successful.

IVTEHM Client Database Permissions

The IVTEHM Client user must have database credentials giving permission for certain operations:

For true read only access to the data, SELECT ON [healthdbname].*

For the ability to acknowledge alarms SELECT, INSERT, UPDATE, DELETE ON [healthdbname].EVH_Acks

For the ability to add/remove systems SELECT, INSERT, UPDATE, DELETE ON [healthdbname].EVH_Systems

For the ability to change settings SELECT, INSERT, UPDATE, DELETE ON [healthdbname].EVH_Options

If a user without sufficient permissions attempts an operation, a message box will be displayed containing the SQL error from the database.





Server Database Configuration

The IVTEHM Server always reads evHealthServer.ini from its current directory. If the INI file is missing or invalid, the service defaults to a SQLite database evHealth.db in its immediate directory. The INI file is expected to contain the following:

- Group "[DatabasePrefs]".
- Required property "Engine" is "SQLite", "ODBC", or "MySQL".
- Required property "Name" is the relative/full path to a SQLite database file, an OBDC DSN, or a MySQL schema name.
- Property "Username" is ignored by SQLite, optional for ODBC, and required for MySQL.
- Property "Password" is ignored by SQLite, optional for ODBC, and required for MySQL.
- Property "Hostname" is ignored by SQLite and ODBC, and required for MySQL.
- Property "Port" is ignored by SQLite and ODBC and optional for MySQL (the default MySQL port 3306 is hard-coded in the service).

Client Database Configuration

The IVTEHM Client must use the same database as the IVTEHM Server. The Client is pointed to that database in the following order:

- Command Line parameters:
 - /I, --ini=<str>INI file to use, defaults to "evHealthServer.ini"
 - o /s, --sqlite=<str> sqlite database to open, defaults to "evHealth.db"
 - /m, --mysql=<str>mysql database to open, defaults to "evHealth"
 - $\circ~$ /o, --odbc=<str> odbc database to open, defaults to "evHealth"
 - /u, --username=<str>username for database connection (not used for SQLite)
 - /p, --password=<str>password for database connection (not used for SQLite)
 - $\,\circ\,$ /a, --address=<str>mysql host address or name (not used for SQLite or ODBC)
 - /t, --port=<str>mysql host port or name (not used for SQLite or ODBC)
- evHealthServer.ini in the current directory with the same format specified for the IVTEHM Server.
- Windows Registry entries in HKEY_CURRENT_USER\Software\evHealthClient. In Linux or MacOS, the /Conf or /Pref files are
 used.
- An SQLite database called evHealth.db in the current directory.
- Open blank and force the user to 'File | Open Database Connection'.





Server Command Line Parameters

The Windows Server installer will invoke evHealthServer as appropriate to register the IVTEHM Server as a service and update database schema as necessary. A Linux IVTEHM Server installation must perform these operations manually.

- evHealthServer /registerService /displayName="exacqVision Health Service" -- (Windows) Service recovery options are configured and sets the description.
- evHealthServer /unregisterService -- (Windows) Unregister service and exit.
- evHealthServer --daemon --pidfile=/var/run/whateveryouwant.pid -- (Linux) Run as daemon.
- evHealthServer /updatedb (Windows), evHealthServer –updatedb -- (Linux) The database is validated at startup, and any necessary changes are attempted. If any change fails (for example, if the database user doesn't have change permissions), regardless of whether the field is *required* or *optional*, an error code (non-zero) is returned, and a short error message is returned on stdout. Otherwise, a success code (zero) is returned.
- evHealthServer /writeschema=FILENAME (Windows), evHealthServer --writeschema=FILENAME -- (Linux). The database is validated at startup, and the SQL statements for any necessary changes are written to the specified file.





Appendix C Installing and Configuring MySQL in Linux

Installation

To install MySQL in Linux, complete the following steps:

1. Enter the following command in a Terminal prompt:

sudo apt-get install mysql-server

Alternatively, you can install mysql from Synaptic package manager.

NOTE: During the installation process, you will be prompted to enter a password for the MySQL root user.

2. After the installation is complete, MySQL server starts automatically. To verify that the server is started, enter the following:

sudo netstat -tap | grep mysql

This command should return something similar to this:

tcp00 localhost:mysql*:* LISTEN2556/mysqld





Configuration

To configure MySQL in Linux, complete the following steps:

1. Log in to mysql issuing the following command in Terminal, followed by the root password:

mysql -u root -p

2. To create the database, enter the following:

CREATE DATABASE exacqEVHM_1;

3. To create user, enter the following:

CREATE USER username;

4. To select a password, enter the following:

SET PASSWORD FOR username= PASSWORD("passwordgoeshere");

5. To grant the user all privileges over the database, enter the following:

GRANT ALL PRIVILEGES ON exacqEVHM_1.* TO username IDENTIFIED BY "passwordgoeshere";

6. To open Gedit and modify my.cnf, enter the following:

sudo gedit /etc/mysql/my.cnf

7. To search for "Bind address" and comment out the line, enter the following:

bind-address=127.0.0.1

8. Type exit to close Terminal.

