Remote monitoring by Office Excel

Preparation

- Download "MyODBC-3.51.06.exe" from following Link: <u>http://ftp.up.ac.za/pub/windows/mysql/Downloads/MyODBC3/MyODBC-3.51.06</u> <u>.exe</u>
- 2. Execute "MyODBC-3.51.06.exe", and install it.

Use Excel to receive and monitor the Inbound, Outbound, or Info's data of "Accounting Report" through the MyODBC in MySQL program.

STEP 1.Finished to install "MyODBC" in PC. (As Following Figures)





STEP 2.Execute "Excel" → select "Data" of tool bar → "Import External Data" → "New Database Query" option.(As following figures)

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Eile Edit View Insert Format Tools	Dat	a <u>W</u> indow <u>H</u> elp				
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A1 v fx		<u>F</u> ilter	F			
A B C D		Subtotals	Η		J	K
		Validation	F			
3		Text to Columns	⊢			
4		PivotTable and PivotChart Report	t			
5	U.ex		-			
6		Import External Data		Import <u>D</u> ata.		
7		List 🕨	1	New <u>W</u> eb Qu	ery	
9		XML •	11 E	New Databas	e Query	
10	2	Refresh Data		Edit Ouerv		
11		*				
12	-			D <u>a</u> ta Range I	roperties	
13			·[?	Parameters		
14			_	_		

STEP 3.Enter the following setting in **Choose Data Source** Window:(As following figures)

Choose Data Source	×
Databases Queries OLAP Cubes <new data="" source=""> dBASE Files* dBASE Files* KS Access Database* myodbc3-test* Visual FovPro Database*</new>	OK Cancel Browse
Visual FoxPro Tables*	Delete

STEP 4.You can define the data source name by yourself in **Create New Data Source** Window: (As following figures)

Crea	ate New Data Source	×
	What name do you want to give your data source?	
1.	monitor	
	Select a driver for the type of database you want to access:	
2.	MySQL ODBC 3.51 Driver	-
	Click Connect and enter any information requested by the driver:	
З.	Connect.	
	Select a default table for your data source (optional):	
4.		2
	\square Save my user ID and password in the data source definition	
2	OK Cancel	

STEP 5.Enter the following setting in **MySQL ODBC Driver - DSN Configuration** Window to monitor InBound, OutBound, or Info's immediate information of "Accounting Report":

If device LAN IP is 172.19.1.254, and use a PC of LAN to monitor the device. Now, we take monitor "Inbound" immediate information as the example. Enter the authentication data to connect the device "Accounting Report" MySQL database:

Host/Server Name(or IP): 172.19.1.254 Database Name: Inbound (Just can enter Inbound, Outbound, or Info) User: admin (This is default setting. Just enter "admin" at once.) Password: admin (This is default setting. Just enter "admin" at once.)

Click **Test Data Source** to display **Data Source "Connected Successfully" to 'mysqld-4.0.12'!!!** message to confirm if it can connect to database successfully.(As following figures)

MySQL ODBC 3.51 Drive	- DSN Configuration, Version 3.51.06	×
This dialog helps you	in configuring the ODBC Data Source Name, connect to MvSQL server	that you can use to
DSN Information		1
Data Source Name:		
Description:	Í	
MySQL Connection Parame	ters	E.
Host/Server Name(or IP):	172.19.1.254	6
Database Name:	Inbound	MuSQL
User:	admin	···· _ -
Password:	****	
Port (if not 3306):		
SQL command on connect:		
OK Cano	cel Options >> Test Data Courc	e Help



STEP 6.Select the table which you want to monitor in **Create New Data Source** Window: (As following figures)

Crea	te New Data Source 🔀
	What name do you want to give your data source?
1.	monitor
	Select a driver for the type of database you want to access:
2.	MySQL ODBC 3.51 Driver
	Click Connect and enter any information requested by the driver:
З.	Connect Inbound
	Select a default table for your data source (optional):
4.	Destination
	Save my user ID and password in the data source definition
2	OK Cancel

STEP 7.Double click the selected option in **Choose Data Source** Window: (As following figures)

Choose Data Source	×
Databases Queries OLAP Cubes Asses Queries Ms Access Database* Ms Access Database* Visual FoxPro Database* Visual FoxPro Tables*	OK Cancel Browse Options Delete
Use the Query Wizard to create/edit queries	

STEP 8.Select columns which you want to monitor in Query Wizard – Choose Columns Window:(As following figures)

Query Wizard - Choose Columns		×
 What columns of data do you want to include Available tables and columns: ● Destination ● Source ● TopService ● TopSite ● Total	e in your query? Columns in your query: DIP SIP DIPNum TCP_Rx_Bytes TCP_Tx_Bytes UDP_Rx_Bytes UDP_Tx_Bytes ICMP_Rx_Bytes	
Preview of data in selected column:		
Preview Now Options	< Back Next >	Cancel

Query Wizard - Filter Data		×
Filter the data to specify which If you don't want to filter the Column to filter:	ch rows to include in your query. data, click Next. Only include rows where:	
DIP SIP DIPNum TCP_Rx_Bytes TCP_Tx_Bytes UDP_Rx_Bytes UDP_Tx_Bytes ICMP_Rx_Bytes OTHER_Rx_Bytes OTHER_Tx_Bytes	And O Or And O Or]]]
2	< Back Next > Cano	el

Query Wizard - Sort Order	X
Specify how you want your data sorted. If you don't want to sort the data, click Next.	
Sort by	C Ascending
Then by	C Ascending C Descending
Then by	C Ascending C Descending
	Back Next Cancel

Q	uery Wizard - Finish			×
	What would you like to do next?			
	Return Data to Microsoft Office Excel			Save Query
	O View data or edit query in Microsoft Query		ſ	
	C Create an OLAP Cube from this query			
		F		1
		< Back	Finish	Cancel

STEP 9.Select Excel worksheet which you want to put the data in **Import Data** Window:(As following figures)

Import Data	×
Where do you want to put the data?	ОК
Existing worksheet:	Cancel
C New worksheet	
Create a PivotTable report	
Properties Parameters	Edit Query

STEP 10.Display "Monitor Information" in Excel worksheet:(As following figures)

	A	В	C	D	E	F	G
1	DIP	İ SIP	DIPNum	TCP_Rx_Bytes	TCP_Tx_Bytes	UDP_Rx_Bytes	UDP_Tx_Bytes
2	61.218.49.29	61.56.86.61	1037709597	486564	568160	0	0
3	61.218.49.29	71.133.133.20	1037709597	1699638	2272561	0	0
4	61.218.49.29	61.221.30.216	1037709597	583849882	606410656	0	0
5	61.218.49.29	211.21.10.174	10377095 <u>97</u>	106263564	<u>110</u> 885892	0	0
6	61.218.49.29	210.14.88.3	1037709(Ext	ernal Data	<u> </u>	0	0
7	61.218.49.29	61.240.99.58	1037709 🛃	· 🚰 📲 🛛 🕴 🕺	🐴 🚯 555706	0	0
8	61.218.49.29	202.64.143.34	1037709597	542Ubb	634928	0	0
9	61.218.49.29	211.23.77.125	1037709597	271164	313060	0	0
10	61.218.49.29	211.23.196.24	1037709597	485862	559228	0	0
11	61.218.49.29	10.111.12.2	1037709597	767280	1596600	0	0
12	61.218.49.29	163.16.1.110	1037709597	165716	191836	0	0
13	61.218.49.29	220.130.211.106	1037709597	488962	562144	0	0
14	61.218.49.29	202.130.80.222	1037709597	481324	566532	0	0
15	61.218.49.29	210.201.132.85	1037709597	48524	271038	0	0
16	61.218.49.29	211.23.104.10	1037709597	114360335	117815468	0	0
17	61.218.49.29	163.29.128.253	1037709597	428218	500776	0	0
18	61.218.49.29	61.132.120.170	1037709597	480734	558584	0	0
19	61.218.49.29	202.39.153.162	1037709597	478228	552880	0	0
20	61.218.49.29	220.130.75.206	1037709597	113104248	118026476	0	0
21	61.218.49.29	211.21.220.76	1037709597	36910858	38462392	0	0

STEP 11.Right click on Excel existing worksheet and select Data Range Properties. You can adjust query setting in External Data Range Properties window: (As following figures)

	A	В	С	[)	E	F	G
1	DIP	SIP	DIPNum	TCP_R>	_Bytes	TCP_Tx_Bytes	UDP_Rx_Bytes	UDP_Tx_Bytes
2	61.218.49.29	61.56.86.61	LADOTTOOLOT		*86564	568160	0	0
3	61.218.49.29	71.133.133. 🗖	Cu <u>c</u>		99638	2272561	0	0
4	61.218.49.29	61.221.30.2 🗎	⊆opy		19882	606410656	0	0
5	61.218.49.29	211.21.10.1 🚗	Paste		63564	110885892	0	0
6	61.218.49.29	210.14.88.3 🔭	Casto		93157	2225067334	0	0
7	61.218.49.29	61.240.99.5	Paste Special		02001	3214555706	0	0
8	61.218.49.29	202.64.143.	Insert		12066	634928	0	0
9	61.218.49.29	211.23.77.1	Delete		71164	313060	0	0
10	61.218.49.29	211.23.196.	Delete		35862	559228	0	0
11	61.218.49.29	10.111.12.2	Clear Co <u>n</u> tents		67280	1596600	0	0
12	61.218.49.29	163.16.1.11 🝋	Insert Comment		65716	191836	0	0
13	61.218.49.29	220.130.211 💆				562144	0	0
14	61.218.49.29	202.130.80. 🗳	Eormat Cells		81324	566532	0	0
15	61.218.49.29	210.201.132 🚙	Edit Ouerv		18524	271038	0	0
16	61.218.49.29	211.23.104.			60335	117815468	0	0
17	61.218.49.29	163.29.128.	Data Range Pro	perties	28218	500776	0	0
18	61.218.49.29	61.132.120.	Parameters		80734	558584	0	0
19	61.218.49.29	202.39.153. 💡	Refresh Data		78228	552880	0	0
20	61.218.49.29	220.130.75.	1001100001		J 4248	118026476	0	0

External Data Range Properties							
Name: Query from monitor							
Query definition Save guery definition Save password							
Refresh control Enable background refresh Refresh every 60 Refresh data on file open Remove external data from worksheet before saving							
Data formatting and layout Include field names ✓ Include field names ✓ Preserve column sort/filter/layout ✓ Include row numbers ✓ Preserve cell formatting ✓ Adjust column width ✓ Preserve cell formatting							
If the number of rows in the data range changes upon refresh: Insert <u>c</u> ells for new data, delete unused cells Insert entire ro <u>w</u> s for new data, clear unused cells <u>o</u> verwrite existing cells with new data, clear unused cells							
Eill down formulas in columns adjacent to data							

STEP 12.Select worksheet of Excel where the statistical chart you want to make, click Chart Wizard button. Select the chart type you want to make and click OK in Chart Wizard Window: (As following figures)

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	A1 🔻 🏂 DIP												
	A	B	С	D -		F							
1	DIP	SIP	DIPNum	TCP_Rx_Bytes	TCP_Tx_Bytes	UDP_Rx_Bytes							
2	61.218.49.29	61.56.86.61	1037709597	486564	568160	0							
3	61.218.49.29	71.133.133.20	1037709597	1699638	2272561	0							
4	61.218.49.29	61.221.30.216	1037709597	583849882	606410656	0							
5	61.218.49.29	211.21.10.174	1037709597	106263564	110885892	0							
6	61.218.49.29	210.14.88.3	1037709597	1172693157	2225067334	0							
7	61.218.49.29	61.240.99.58	1037709597	2974502001	3214555706	0							
8	61.218.49.29	202.64.143.34	1037709597	542066	634928	0							





* The detailed information of Excel list and statistics chart will synchronize process updating from Multi-Security UTM according to the update time setting.