**MySQL + Info-Gathering:**

**CMF - MySQL Server Info-Gathering Automation for Windows - User Guide**

**For Script:**

**CMF-MySQL-Windows.ps1**



**Document Summary**

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**Revision History**

This section represents the change history of the document. Revisions of the document must be tracked by identifying a new version number, the date it was modified, the person making the change, and the reason for the change.

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# Executive Summary

## Objective

This document provides the procedure/steps to execute the Automation script (CMF-MySQL-Windows.ps1) which gathers the MySQL Server details from Windows environment.

* Server Version
* Top 10 tables of the Databases
* Databases and Size details
* Current parameter setting details.

Note: This Automation Script does not fetch/access any of the user database data. The values present in the Screenshots are demo values. Please change the values as Appropriate.

# Prerequisites for MySQL Server Info gathering - Execution

## Operating System Requirements

* Supported Operating System

Windows 10, Windows Server 2012, Windows Server 2012 R2 and above

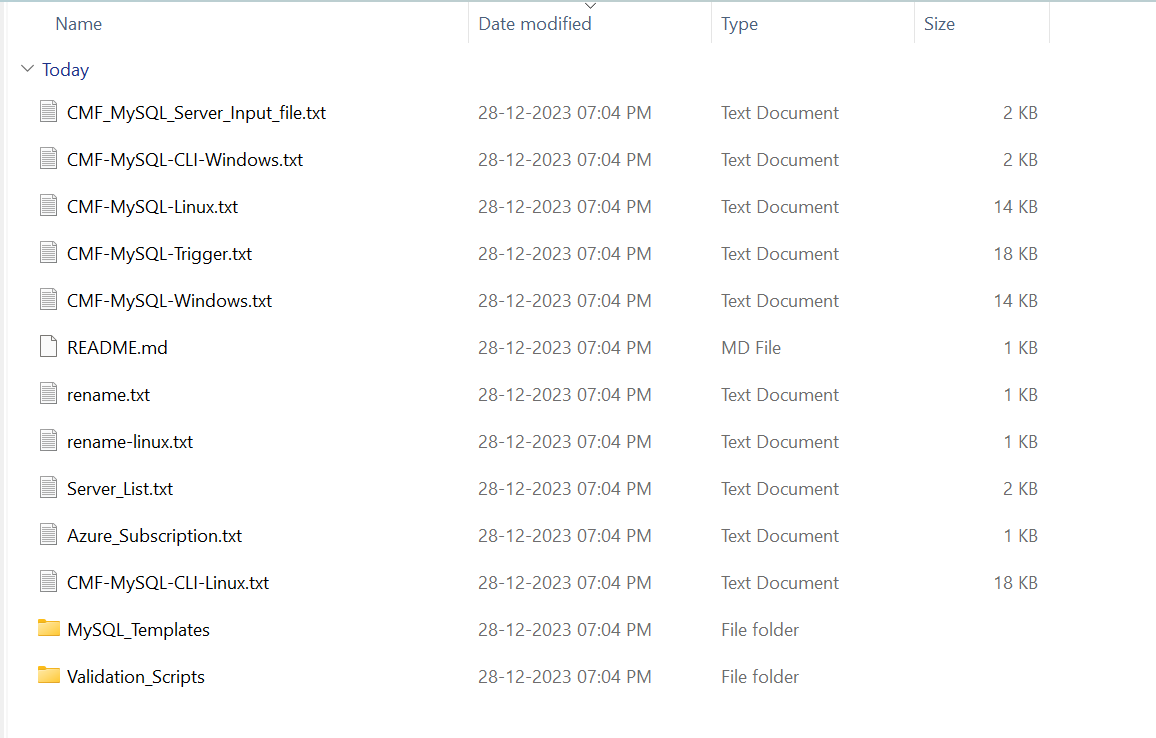
## Software requirements

* MySQL Client 5.6 and above
* Windows PowerShell 4.0 and above.

# Executing the Script

# 3.1 Copying Script

* Create a folder C:\MySQL\ MySQL-info-Gather (you may choose any available drive)
* Copy all the provided files to this folder (MySQL-Info-Gather) as shown below…



## Renaming Scripts

* Execute the following command in MySQL-Info-Gather folder to rename the scripts from .txt to .ps1 in **Windows** Command Prompt.



* Execute rename.bat file as shown below..

# Preparing the INPUT CSV File

In Order to support the Info Gathering process, INPUT CSV FILE (**CMF-MySQL\_Server\_Input\_file.csv**) should be provided with MySQL Server details as below…

A screenshot of a computer

Description automatically generated

# Executing the Script

## MySQL Info Gathering execution.

### Open windows Command prompt as **Administrator**

* Change the working directory/folder to the folder (MySQL-Info-Gather) where you created/copied the script (CMF-MySQL-Windows.ps1) in previous step as shown below…

A computer screen shot of a computer program

Description automatically generated

* Ensure the connectivity exists between the SYSTEM which runs the MySQL Info Gathering Automation script and MySQL Server.
* Note: Ensure you add the location of Mysql.exe to your Path environment variables
* Once the input file is prepared Copy the file (**CMF-MySQL\_Server\_Input\_file.csv**) under the folder (Mysql-Info-Gather) created in the previous step …

## CMF-MySQL\_Windows.ps1 script execution

* Enter the following command at the windows command prompt.

**Powershell.exe -ExecutionPolicy RemoteSigned -File .\CMF-MySQL-Windows.ps1**

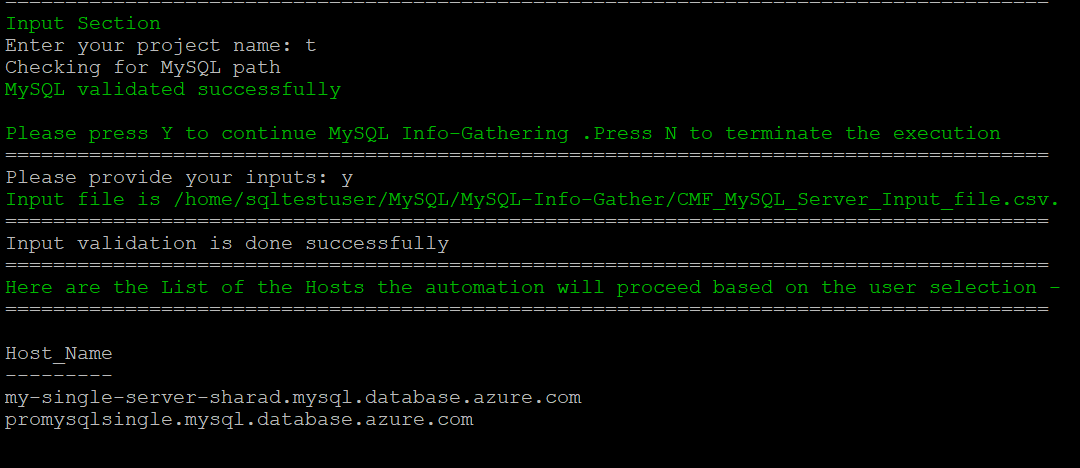


Below screen will appear…

A screenshot of a computer

Description automatically generated

**Note:** After triggering the automation all the support folders (Output , Download etc. ) will be created automatically by the automation script, MySQL path is validated and it will ask user to proceed with the execution of the script



* The script then Validates the list of approved Hosts to proceed with execution. Continue by Entering “Y” and provide your Project Name. You’ll get below final Status of the Script Execution.
* Please Enter “Y” to perform Info Gathering of Hosts above, otherwise Enter ‘N’ to terminate the execution.

A screenshot of a computer

Description automatically generated

A black screen with text

Description automatically generated

### Export Info-Gathering details and generating csv Output files

The info gather output csv files can be found in “output” folder on the server where script is executed as shown in below screenshot…

A screenshot of a computer

Description automatically generated

The transcript log file can be found in Logs folder on the server where script is executed.

A screenshot of a computer

Description automatically generated

Please Share the Compressed Output and Logs Folder with the CMF Team for further review.

## Prerequisites for MySQL Server Automation - Execution.

## Input CSV file

A screenshot of a computer

Description automatically generated

**Important Notes:**

* MySQL Client is required to establish Connectivity to MySQL Servers.
* This script is based on the CSV file named   
  ‘**CMF-MySQL\_Server\_Input\_file.csv**’.
* **Column Name must be kept as shown below, change in names will result in errors**
* **Values in the column must be correct, incorrect values will also result in errors**
* **Tenant and Subscription\_ID columns are Optional.**

1. **Columns for Input File: CMF-MySQL\_Server\_Input\_file.csv**

|  |  |
| --- | --- |
| **Column Name** | **Note** |
| **Host\_Name** | **Provide Host Name (Example: localhost)** |
| **Port** | **Provide Port Number (Example: 3306)** |
| **User\_ID** | **Provide the User\_ID** |
| **Password** | **Provide the Password** |
| **DB\_Name** | **Provide Database Name (Example:mysqldb)** |
| **Tenant** | **Azure Subscription tenant ID (Optional)** |
| **Subscription\_ID** | **Azure Subscription ID (Optional)** |
| **Approval Status** | **Provide YES to fetch the information and NO to exclude the host.** |
| **SSL\_Mode** | **Provide SSL\_Mode (Example : disable)** |

|  |  |  |
| --- | --- | --- |
| **Seq.No** | **File** | **Note** |
| 1 |  | Sample**: CMF-MySQL\_Server\_Input\_file.csv** |

## PowerShell Version, Modules & Execution policy

Execute the below commands from windows PowerShell as Administrator.

1. To find the PowerShell Version

* Get-Host

Graphical user interface, text

Description automatically generated

1. Set the PowerShell execution policy

* **Set-ExecutionPolicy Unrestricted -Scope CurrentUser**



## 5.5 Input File - **CMF-MySQL\_Server\_Input\_file.csv** CSV File

|  |  |  |  |
| --- | --- | --- | --- |
| **Columns** | **Sample value** | **Mandatory** | **Description** |
| Host\_Name | test-single-server | Yes | The name or resource ID of the source Azure Database for MySQL Single Server. |
| Resource\_Group | test-rg | Yes | The name of the Azure resource group of the source Azure Database for MySQL Single Server. |
| Port | 3306 | No | Port number of MySQL, not require if default port 3306 |
| VCore | 2 | No | The number of vCores of the Source Azure Database for MySQL Single Server |
| Auth\_Type | mysql | No | database auth type |
| User\_ID | adminuser | Yes | The username for the administrator sign-in for your Source Azure Database for MySQL Single Server. |
| Password | password | Yes | The Password for the administrator sign-in for your Source Azure Database for MySQL Single Server. |
| DB\_Name | mysql | No | database Name |
| Tenant | test.onmicrosoft.com | No | tenant Id |
| Subscription\_ID | edf6dd9d-\*\*\*\*-4bca-a997-\*\*\*\*\* | No | subscription\_id |
| Approval\_Status | No | Yes | Approved to migrate - Yes/No. |
| SSL\_Mode | PREFERRED | yes | ssl\_mode Id – Preferred |