# Change SQL Server Service Account Password using PowerShell

The PowerShell script uses SQL Server SMO and Win32\_Service class to update the password for one or more servers. I have tested the script against SQL Server 2016 on Windows 2016; please test the script for yourself before executing on production.

**Created by:** Mohit K. Gupta ([mogutpa@microsoft.com](mailto:mogutpa@microsoft.com))

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## Execution Method 1: Updating Password Information on a Single Server

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| **Command to Execute** |
| .\ChangeServiceAccountPassword\_v3.ps1 -ComputerName SQL1 -ServiceAccountName "LAB\SQLSvc" -ServiceAccountOldPassword P@ssw0rd123 -ServiceAccountNewPassword P@ssw0rd |
| **Output** |
| ComputerName : SQL1  OperatingSystem : Microsoft Windows Server2016  ServiceName : MSSQLSERVER  ServiceMode : Auto  ServiceState : Running  OperationStatus : Password Change Successfully |

## Execution Method 2: Updating Password Information on Multiple Servers

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| **Command to Execute** |
| @("SQL1","SQL2") | .\ChangeServiceAccountPassword\_v3.ps1 -ServiceAccountName "LAB\SQLSvc" -ServiceAccountOldPassword P@ssw0rd123 -ServiceAccountNewPassword P@ssw0rd |
| **Output** |
| ComputerName : SQL1  OperatingSystem : Microsoft Windows Server 2016 Datacenter  ServiceName : MSSQL$CLUSINST  ServiceMode : Manual  ServiceState : Stopped  OperationStatus : Password Change Completed  ComputerName : SQL1  OperatingSystem : Microsoft Windows Server 2016 Datacenter  ServiceName : SQLAgent$CLUSINST  ServiceMode : Manual  ServiceState : Stopped  OperationStatus : Password Change Completed  ComputerName : SQL2  OperatingSystem : Microsoft Windows Server 2016 Datacenter  ServiceName : MSSQL$CLUSINST  ServiceMode : Manual  ServiceState : Running  OperationStatus : Password Change Completed  ComputerName : SQL2  OperatingSystem : Microsoft Windows Server 2016 Datacenter  ServiceName : SQLAgent$CLUSINST  ServiceMode : Manual  ServiceState : Running  OperationStatus : Password Change Completed |

## Execution Method 3: Updating Passwords Information on Multiple Servers with Server List

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| **Command to Execute** |
| Get-Content .\Servers.txt | .\ChangeServiceAccountPassword\_v3.ps1 -ServiceAccountName "LAB\SQLSvc" -ServiceAccountOldPassword P@ssw0rd123 -ServiceAccountNewPassword P@ssw0rd |
| **Output** |
| ComputerName : SQL1  OperatingSystem : Microsoft Windows Server 2016 Datacenter  ServiceName : MSSQL$CLUSINST  ServiceMode : Manual  ServiceState : Stopped  OperationStatus : Password Change Completed  ComputerName : SQL1  OperatingSystem : Microsoft Windows Server 2016 Datacenter  ServiceName : SQLAgent$CLUSINST  ServiceMode : Manual  ServiceState : Stopped  OperationStatus : Password Change Completed  ComputerName : SQL2  OperatingSystem : Microsoft Windows Server 2016 Datacenter  ServiceName : MSSQL$CLUSINST  ServiceMode : Manual  ServiceState : Running  OperationStatus : Password Change Completed  ComputerName : SQL2  OperatingSystem : Microsoft Windows Server 2016 Datacenter  ServiceName : SQLAgent$CLUSINST  ServiceMode : Manual  ServiceState : Running  OperationStatus : Password Change Completed |

## Support for -Verbose

Any method can have the -Verbose added to get additional information from execution. If the script is failing due to WMI error or password change is failing; you’ll need to run in -Verbose to capture the error.

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| **Example Verbose Output** |
| OVERBOSE: 05/04/2017 00:02:25 Updating SQL Server Services' Service Accounts' Passwords  VERBOSE: 05/04/2017 00:02:25 Changing Password on Target \\SQL1\MSSQL$CLUSINST via Method Change (Win32\_Service)  VERBOSE: 05/04/2017 00:02:25 Changing Password on Target \\SQL1\SQLAgent$CLUSINST via Method Change (Win32\_Service)  VERBOSE: 05/04/2017 00:02:26 Changing Password on Target \\SQL2\MSSQL$CLUSINST via Method ChangePassword (SQLSMO)  VERBOSE: 05/04/2017 00:02:27 Changing Password on Target \\SQL2\SQLAgent$CLUSINST via Method ChangePassword (SQLSMO)  VERBOSE: 05/04/2017 00:02:27 Script Completed. |

## Support for -WhatIf

If you wish to see what services will be impacted by executing the command you can also supply -WhatIf switch. Notice when running with -WhatIf, you do not need to supply password information. In this example I am also outputting the results as a table for readability.

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| **Command to Execute** |
| @("SQL1","SQL2") | .\ChangeServiceAccountPassword\_v3.ps1 -ServiceAccountName "LAB\SQLSvc" -WhatIf | FT |
| **Output** |
| ComputerName OperatingSystem ServiceName ServiceMode ServiceState OperationStatus  ------------ --------------- ----------- ----------- ------------ ---------------  SQL1 Microsoft Windows Server 2016 Datacenter MSSQL$CLUSINST Manual Stopped Dry Run  SQL1 Microsoft Windows Server 2016 Datacenter SQLAgent$CLUSINST Manual Stopped Dry Run  SQL2 Microsoft Windows Server 2016 Datacenter MSSQL$CLUSINST Manual Running Dry Run  SQL2 Microsoft Windows Server 2016 Datacenter SQLAgent$CLUSINST Manual Running Dry Run |

## Outputting Results to CSV

If you are running it against a server list, you can capture the information to a CSV file via following command.

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| **Command to Execute** |
| @("SQL1","SQL2") | .\ChangeServiceAccountPassword\_v3.ps1 -ServiceAccountName "LAB\SQLSvc" -ServiceAccountOldPassword P@ssw0rd123 -ServiceAccountNewPassword P@ssw0rd | Export-Csv PasswordResult.csv -NoTypeInformation |
| **Output (PasswordResults.csv)** |
| "ComputerName","OperatingSystem","ServiceName","ServiceMode","ServiceState","OperationStatus"  "SQL1","Microsoft Windows Server 2016 Datacenter","MSSQL$CLUSINST","Manual","Stopped","Password Change Completed"  "SQL1","Microsoft Windows Server 2016 Datacenter","SQLAgent$CLUSINST","Manual","Stopped","Password Change Completed"  "SQL2","Microsoft Windows Server 2016 Datacenter","MSSQL$CLUSINST","Manual","Running","Password Change Completed"  "SQL2","Microsoft Windows Server 2016 Datacenter","SQLAgent$CLUSINST","Manual","Running","Password Change Completed" |