

HERMES Installation Guide (10.6)

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Contents

Introduction & Scope	4
Exclusions	4
Summary of the Automated Installation Process	5
Prerequisites	7
SQL Server 2019	
Upgrading/Installing ASM to EOS	
Step by Step Guide	
1. Getting the install files - PowerShell Script	9
2. Getting the install files – Non-Interactive Installation	9
3. Entering parameters	10
1. Key Vault – Cloud systems	11
2. Connection String	11
3. Hostname	12
4. System Name	12
5. Certificate Thumbprint	12
6. Certificate Store Location	13
7. Install prerequisites	14
8. Replace existing versions	14
9. Optional Modules	14
10. Licence Key text	16
FAQ	17
How-To: Administration using PowerShell Scripts	22



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Related Documents

DOC REF	Document title	Document description
	N/A	



Introduction & Scope

Applicable Versions: Alemba Service Manager HERMES, v10.6 and above

Alemba no longer provides a Patch MSI or Setup EXE file for install or upgrade.

We have found that this process is out of sync with current trends and maintaining these install tools is preventing improvements in the design, development, test, release, and maintenance processes.

We believe that ASM will be easier to install, own and operate without the old install process.

ASM Gaia (v10.4) marks the last release which supports the old installation process.

ASM Eos (v10.5) and ASM Hermes (v10.6) is geared towards automated installation on cloud environments.

- If you currently have a version of ASM earlier than v10.5.1, ASM is going to be removed and reinstalled during the upgrade process.
- Any screen designs used in this document are used to represent the solution and may differ from what is delivered.

Exclusions

None



Summary of the Automated Installation Process

Below are the steps the automated installer performs. If monitoring the installation, you will be able to follow along with this list. Space is available for you to take notes during the process.

Installation Checklist:

#	ITEM
1	Check for PowerShell 5 or later
2	Check current user is a member of the built in Administrator role
3	Find package.zip
4	Install Azure Platform Utilities if on Azure and that ASM KeyVault environment variable is set.
5	 Validate install parameters. Parameters are gathered in the following order: from script arguments from Azure Key Vault secrets (if ASM KeyVault is set for the environment) environment variables (prefixed with ASM_) user input (if interactive)
6	Validate database connection string
7	Uninstall ASM Gaia or earlier
8	Disable Windows Defender Realtime monitoring
9	Extract files to ALEMBA_PATH\staging
10	Stop ASM services
11	 Check if upgrade is supported Only if it's a minor upgrade e.g. 10.5.1 to 10.5.2 If not, the existing version will be removed before the install continues
12	Install pre-requisites Windows features .Net Core
13	Uninstall existing version of ASM if necessary
14	Copy files for each system
15	Remove existing files (if necessary)
16	Copy new files
17	Update registry



18	Configure IIS
19	Configure IIS and registry for each system
20	Install ASM services
21	Configure connection string and update database for each system
22	Start services
23	Verify installation using health-status page
24	Restore Windows Defender Realtime monitoring
25	Reboot to complete install of pre-requisites if required.



Prerequisites

Summary Checklist:

VERIFIED Y/N	CRITICALITY	ITEM
	SQL 2019	From EOS (10.5.X), SQL 2019 or later is necessary if you wish to create a new database
	PowerShell >5.0	
	User is Administrator	
	Key Vault	
	ADO net connection String	
	Host Name	
	System Name	
	Certificate Thumbprint	
	Certificate Store Location	
	Download Prerequisites	
	License Key Text	
	Ensure Outlook is not installed on the Application Server	
	Minimum 8GB RAM, Recommended 16GB RAM in Production Environments	

ADDITIONAL INFORMATION:

SQL Server 2019

From EOS (10.5.X), SQL 2019 or later is necessary if you wish to create a new database. You can check it by opening the Properties:

□			
	bases		
🗄 🖬 Sy	stem Databases		
	tabase Snapsnots		
🕀 🖬 🔤	New Database		
🕀 📕 Serve	New Query		
🗄 🛑 Repli	Script Database as	•	
🕀 🛑 Poly	Tasks	•	
🗄 💻 Alwa	Policies	•	
🕀 💻 Mana	Facets		
🗄 💻 Integ			
🛃 SQL :	Start PowerShell		
🕀 🗹 XEve	Azure Data Studio	•	
	Reports	•	
	Rename		
	Delete		
	Refresh		
	Properties 🗡		
L			

Go to Options and click on the Compatibility Level:

🗑 Database Properties - asm			_	×
Select a page General Files	🖵 Script 🔻 😯 Help			
Filegroups	Collation:	Latin1_General_CI_AS		\sim
Options Change Tracking	Recovery model:	Full		\sim
Permissions	Compatibility level:	SQL Server 2012 (110)		\sim
 Extended Properties Mirroring Transaction Log Shipping Query Store 	Containment type: Other options:	SQL Server 2008 (100) SQL Server 2012 (110) SQL Server 2014 (120) SQL Server 2016 (130) SQL Server 2017 (140) SQL Server 2019 (150)		
	✓ Automatic			^

There should be a SQL Server 2019 option. Please note, you need the Full Text Search feature for SqlServer.



Upgrading/Installing ASM to HERMES Step by Step Guide

1. Getting the install files - PowerShell Script

There are 2 ways to start the upgrade/install ASM; This is the recommended approach: Run PowerShell V5 or later as an Administrator and execute the following script:

Set-ExecutionPolicy -ExecutionPolicy Unrestricted -Scope Process -Force; Invoke-WebRequest "https://alembareleases.blob.core.windows.net/asmcore/hermes_latest" -OutFile "\$env:TEMP\Download_ASMCore.ps1"; Invoke-Expression "\$env:TEMP\Download_ASMCore.ps1";

The script will download the necessary files and prompt for various information as required GO TO STEP 3

The following values can be set using environment variables for non-interactive installation and can also be set as arguments for the command

e.g. Invoke-Expression ".\windows-install.ps1 -connectionString
\$connectionstring"

WIN

2. Getting the install files - Non-Interactive Installation

The install process also supports non-interactive installation (e.g. via remote PowerShell) if your application server does not have a direct Internet Connection.

1. In this case, all parameters must be set either as machine level environment variables or must be added to the registered key vault before install.ps1 is executed.

[Environment]::SetEnvironmentVariable("ASM_ConnectionString", "Server=localhost;Database=asm;User ID=sa;Password=password", 'Machine')



2. Download package.zip and install.ps1 and copy these files to the same location on your server

You can download the files manually from here:

https://alembareleases.blob.core.windows.net/asmcore/[HermesBuildNumber]/package.zip

https://alembareleases.blob.core.windows.net/asmcore/[HermesBuildNumber]/Windows-Install.ps1

The [HermesBuildNumber] can be found in the Hermes Release Notes e.g. "Hermes10.6.5.1x"

- 3. Run PowerShell as an administrator and execute Windows-Install.ps1
- 3. Entering parameters

After downloading the files, the process will start and the script will ask for parameters as an interactive installation:





1. Key Vault - Cloud systems

This is the name of the key vault which has been configured for access by your Azure Virtual Machine

This setting is entirely optional and is only applicable to systems running in Alemba Cloud.

Parameter Name	KeyVault
Environment Variable Name	ASM_KeyVault
Default	Null
Example	mykeyvault

2. Connection String

This is the ADO Net connection string used to connect to the ASM database

The way we deal with this connection string has been simplified to help support more advanced scenarios such as Windows Authentication

See https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/connection-string-syntax

Even if you had a running ASM before (if it's not EOS), you have to enter the following variables:

- Server name
- Database name
- User ID
- Password

Parameter Name	ConnectionString
Environment Variable Name	ASM_ConnectionString
Default	Null
Example	Server=asm-server;Database=asm;User Id=MyUser;Password=MyPassword



3. Hostname

This is the URL which will be used to access ASM over the network and will be used to configure IIS

Parameter Name	Hostname
Environment Variable Name	ASM_Hostname
Default	localhost
Example	support.alembacloud.com

4. System Name

This name refers to the ASM instance and is used to determine the base URL for the ASM system

Assuming you use the default name of production, you would access ASM using https://support.alembacloud.com/production/core.aspx

Parameter Name	systemName
Environment Variable Name	ASM_systemName
Default	production
Example	production

5. Certificate Thumbprint

The installation can configure HTTPS bindings for the system, but a suitable certificate must be installed on the server prior to running the installation.

Please consider that the IIS worker process must have suitable permissions to access the certificate and ASM is configured to use Application Pool Identity by default.



The certificate thumbprint is used as a unique identifier for the certificate and can be found in the certificate properties

See the related section in https://docs.microsoft.com/en-

📃 Certificate		×
General Details Certification Path		
Show: <all></all>	~	
Field	Value	^
📴 Public key	RSA (2048 Bits)	
Public key parameters	05 00	
🐻 Key Usage Digital Signature, Key Encipher		
🗊 Enhanced Key Usage	Server Authentication (1.3.6	
🗊 Subject Alternative Name	DNS Name=localhost	
Thumbprint 8926299fb849bb74824ce7c6e		
Friendly name	IIS Express Development Certi	v

us/powershell/module/iisadministration/new-iissitebinding?view=windowsserver2019ps for further information

Parameter Name	sslCertificateThumbprint
Environment Variable Name	ASM_sslCertificateThumbprint
Default	Null

6. Certificate Store Location

The installation can configure HTTPS bindings for the system, but a suitable certificate must be installed on the server prior to running the installation.

This setting defines the install location of the certificate on the local server

See the related section in <u>https://docs.microsoft.com/en-</u> <u>us/powershell/module/iisadministration/new-iissitebinding?view=windowsserver2019-</u> <u>ps</u> for further information

Parameter Name	sslCertificateStore
Environment Variable Name	ASM_sslCertificateStore
Default	My
Accepted Values	Cert:\LocalMachine\My, Cert:\LocalMachine\WebHosting, My, WebHosting



7. Install prerequisites

The installation will install all prerequisites by default. When this value is set to n the system administrator assumes responsibility for installing windows features and all other prerequisites.

Parameter Name	InstallPrerequisites
Environment Variable Name	ASM_InstallPrerequisites
Default	У
Accepted Values	y, n

8. Replace existing versions

When this value is set to y, the installation will install reset all IIS configuration during the installation process.

This is the recommended approach and system administrators are advised to capture any non-standard configuration in a PowerShell script to run as part of their upgrade process

	-
Parameter Name	CleanInstall
Environment Variable Name	ASM_CleanInstall
Default	У
Accepted Values	y, n

9. Optional Modules

Specify one or more non-critical modules to install

Parameter Name	optionalModules
Environment Variable Name	ASM_optionalModules
Default	none
Accepted Values	all, alemba.web.windows, infra.api.wstester, infra.console, dashboard.platform

ALEMBA.WEB.WINDOWS

Used to support integrated windows authentication

Alemba recommends using SAML or Open ID instead of this legacy authentication method



INFRA.API.WSTESTER

Install the standard test harness for the classic API Further configuration is required post installation.

INFRA.CONSOLE

Install the ASM Server Console Required for Workflow Import/Export.

DASHBOARD.PLATFORM

You need to install this module again even if you had running Dashboards before. In this case only the IIS configurations are going to be reset.

Installs the Syncfusion Dashboard Platform. Requires further manual configuration.



10. Licence Key text

Parameter Name	LicenceKey
Environment Variable Name	ASM_LicenceKey
Default	none



FAφ

What if I don't want the latest version?

Alemba maintains a version for each major release, each minor release and for each build.

Major: hermes_latest

Minor: hermes_10_6_X

The major release is updated whenever a new minor version is published.

The minor release is updated whenever a new version is published for that minor version.

The latest version for all releases can also be accessed using the release name "latest" e.g., "hermes_latest"

Why isn't the Server Console installed?

Alemba is transitioning to a serverless model. The Server Console will be removed entirely in a future release and is provided for ease of adoption

The server console is not installed by default. All functions of the server console are accessible via PowerShell and Alemba recommends using the new PowerShell scripts for the few settings which were previously managed via the server console

If necessary, the server console can be added at install time by specifying the optional module by name

C:\alemba\install\windows-install.ps1-dbserver...-optionalModules infra.console

The install process will add a desktop shortcut to the All-Users profile



Another version of Alemba Service Manager is already installed. Please uninstall and try again

The install process cannot support upgrading your old installation. The install process will attempt to uninstall existing versions of ASM, and this does require user input. If the installation is performed non-interactively (e.g., using remote PowerShell) the installation will abort if older versions of ASM are already installed

How do I prevent the Unicode conversion?

ASM is no longer supported on databases using a non-Unicode schema. The install will convert any existing data to Unicode during the installation process

How to add a new system?

Alemba recommends using one application server per ASM instance. The option to create more than one system is not recommended but a method is provided for advanced use cases.

Execute windows-install.ps1 and provide a new system name and connection string.

The installer will create the new system and will also update any existing systems as necessary

How do I connect a new server to an existing database?

Use the installation process to install ASM. The installation process will not modify the database if it has already been upgraded to the installed version

MAPI doesn't work

MAPI is no longer a supported Email Protocol. MS Graph API(Preferred) or EWS should be used instead of MAPI.

Login Error - A task was cancelled

Your server probably doesn't have enough memory.

You must allocate at least 8GB RAM plus additional capacity for other programs such as web browsers



Install Error - Unable to read data from the transport connection

When the ASM install is triggered using PowerShell a transport error can occur during download of one of the files



This error is caused by problems with connectivity between the windows server and the Azure Storage Account.

The files can be downloaded using a web browser. The following files are required

Windows-install.ps1

Package.zip

Both files must be copied to the same folder on the server, and both must retain the exact file name above.

Open a PowerShell terminal and optionally set environment variables as described above, then execute windows-install.ps1. This PowerShell script accepts a number of parameters, type –{tab} in PowerShell for more information



The Server Console is not installed

The Server Console is deprecated and will be removed from future versions of ASM. It can be installed for advanced support scenarios.

It is not installed by default, but you can specify the optional module at install time.

When it is installed, the Server Console does not appear in the start menu.

You can open serverconsole.msc from "C:\alemba\service manager\services\ServerConsole.msc" A desktop shortcut is also added to the All-Users profile.

Install fails to download or install prerequisites

The following dependencies are downloaded and installed automatically.

If these files cannot be downloaded automatically, they can be copied to c:\temp\alemba prior to running the installation

NAME	LOCATION	SOURCE	CHECKSUM
MICROSOFT VISUAL C++ 2010 SP1 REDISTRIBUT ABLE PACKAGE	c:\temp\alemba\vc redist_x64.exe	http://download.micro soft.com/download/1/ 6/5/165255E7-1014- 4D0A-B094- B6A430A6BFFC/vcre dist_x64.exe	3AF3DCAAD4FC9651DCE 75C75A85BCA0B15782A1 90F0FBB4AE21A6182CBC 2F78138AA8FF26B350EFE F302F95C74B1808B2436A A199D43A5EE17FD0796A 79C405B
ASP.NET CORE 5.0.7 WINDOWS HOSTING BUNDLE	c:\temp\alemba\do tnet-hosting-5.0.7- .exe	https://download.visua lstudio.microsoft.com/ download/pr/c887d56 b-4667-4e1d-9b6c- 95a32dd65622/97e3e ef489af8a6950744c4f 9bde73c0/dotnet- hosting-5.0.8-win.exe	a388a3e6aa9f061ea65e897 Of5a76c8afa7e429cab3f6e0 ef6775f029a49c96e73606a be6a7e48c2d68485b74120 d9daa10f5a6d66867aaf3a6 afd8eab2f0936



Checksum error

Installation of prerequisites may fail if the downloaded installer is invalid.

This could happen if an earlier attempt to download the file is aborted.

If the downloaded file does not match the expected checksum, the file will be deleted, and you should restart the installation. The install process will download the file again and attempt to install.

Install prerequisites
Checksum error for ASP.NET Core 5.0 Windows Hosting Bundle (C:\temp\alemba\dotnet-hosting-5.0.7-win.exe). The file has
peen deleted. Please try again
At C:\Scheduler\scripts\install-prerequisites.ps1:24 char:13
 throw "Checksum error for \$display (\$filepath). The file
+ CategoryInfo : OperationStopped: (Checksum errorlease try again:String) [], RuntimeException
+ FullyQualifiedErrorId : Checksum error for ASP.NET Core 5.0 Windows Hosting Bundle (C:\temp\alemba\dotnet-hostin
g-5.0.7-win.exe). The file has been deleted. Please try again

Something else went wrong, where is the upgrade log?

The console output is the log. It captures all output from all steps in the upgrade process.

If you start the installation using the recommended approach (described earlier in this document) a log will be created in c:\temp\logs (where c: is the system drive)

All console output is written to this log file.

If you download the zip and install script manually, you must also make provision for capturing the console output. We recommend using Tee-Object so you can monitor console output and write the output to a file

e.g.

Invoke-Expression "powershell.exe 'install.ps1'" | Tee-Object -FilePath 'c:\temp\install.log';

Where can find the log if the installation has failed?

Go to c:\temp and the a log file should be there with a name: instal.yyyymmdd-ttttt



How-To: Administration using PowerShell Scripts

Import-Module AlembaUtils

Administrator: Windows PowerShell		
Windows PowerShell		
Copyright (C) Microsoft Corporation. All rights reserved.		
PS C:\Users\KrisTrigg> Import-Module AlembaUtils		
Importing function Get-ServiceManagerSystemAdminModule		
Importing function Get-ServiceManagerSystemNames		
Importing function Get-ServiceManagerSystemPath		
Importing function Get-ServiceManagerSystemProperty		
Importing function Get-ServiceManagerVersion		
Importing function Invoke-QueryParser		
Importing function Invoke-SQL		
Importing function Invoke-SQLReader		
Importing function Invoke-SQLScript		
Importing function Set-ServiceManagerUserPassword		
Importing function Set-ServiceManagerSystemProperty		
PS C:\Users\KrisTrigg>		

Use Get-Help (PowerShell Feature) to display information about each function

An example: Changing and getting the value of Time Out

- 1. get-help Set-ServiceManagerSystemProperty
- In the received information, you find: "Set-ServiceManagerSystemProperty -SystemName production -Name TimeOut -Value 240" --> Change the value to the desired one and enter it as a new command: Set-ServiceManagerSystemProperty -SystemName production -Name TimeOut -Value 300
- 3. To get the information about the new TimeOut Value: The Syntax section helps you:

From:



Get- ServiceManagerSystemProperty -Name TimeOut -SystemName "production"





AlembaUtils functions

Get-ServiceManagerSystemAdminModule

```
.SYNOPSIS
Get the admin module for a named ASM system
.DESCRIPTION
Get the admin module for a named ASM system
.PARAMETER SystemName
The name of the Service Manager system
.EXAMPLE
Get-ServiceManagerSystemAdminModule -SystemName production
```

Get-ServiceManagerSystemNames

.SYNOPSIS Get a list of installed alemba systems

.DESCRIPTION

Get all local alemba system names as an array of strings

.EXAMPLE

Get-ServiceManagerSystemNames

Get-ServiceManagerSystemPath

```
.SYNOPSIS
Get the install path for a named Service Manager System
.DESCRIPTION
Returns the path to the system folder for a named system
.PARAMETER SystemName
The name of the Service Manager system
.EXAMPLE
Get-ServiceManagerSystemPath -
```

SystemName production => C:\alemba\Service Manager\web\systems\production\

Get-ServiceManagerSystemProperty

.SYNOPSIS Get the current value of a specified system property for a named Service Manager sy stem .DESCRIPTION Returns the string value of the specified system property .PARAMETER SystemName

The name of the Service Manager system .EXAMPLE Get-ServiceManagerSystemProperty -SystemName production -Name Timeout => "120"

Get-ServiceManagerVersion

.SYNOPSIS



Get the version of Alemba Service Manager .DESCRIPTION

Returns a Version value representing the currently installed version of Alemba Serv ice Manager

```
.EXAMPLE
```

.SYNOPSIS

.DESCRIPTION

Get-ServiceManagerVersion =>
 Major Minor Build Revision
 ---- 10 5 1 12345

Parse Queries for the named system

Invoke-QueryParser

```
Executes the parse queries process for the named Alemba Service Manager system
    You must restart web and windows services after executing this function
.PARAMETER SystemName
    The name of the Service Manager system
.EXAMPLE
    Invoke-QueryParser -SystemName production
Invoke-SQL
.SYNOPSIS
    Execute a sql query using the database for a Service Manager system
.DESCRIPTION
    Execute a sql query using the database for a Service Manager system
    Does not return any results
.PARAMETER System
    The name of the Service Manager system or a reference to the System Admin Module fo
r the named system
    For optimal performance, pass a reference to an existing instance of a System Admin
Module when you plan to iteratively execute many sql queries
.PARAMETER SQL
    The SQL query text
    e.g. "select NAME from SU_CALL_PRIORITY where REF = @REF"
.PARAMETER Parameters
    Optional hashtable of SQL Query parameters
    e.g. @{ REF = 1, NAME = "Priority 1" }
    Types must conform to known SQL Server Data Types. These are usually [int32] and [s
tring] and in these cases the types are inferred
.EXAMPLE
    Invoke-SQL -System production -
```

SQL "select Name from SU_CALL_PRIORITY where REF = @REF" -Parameters @{ REF = 1; }



Invoke-SQLReader

.SYNOPSIS Execute a sql query using the database for a Service Manager system .DESCRIPTION Execute a sql query using the database for a Service Manager system Returns results as an array of hashtables e.g. @(@{ REF = 1; NAME = "P1"; }; @{ REF = 2; NAME = "P2"};) .PARAMETER System The name of the Service Manager system or a reference to the System Admin Module fo r the named system For optimal performance, pass a reference to an existing instance of a System Admin Module when you plan to iteratively execute many sql queries .PARAMETER SOL The SQL query text e.g. "select NAME fromSU_CALL_PRIORITY where REF = @REF" .PARAMETER Parameters Optional hashtable of SQL Query parameters e.g. @{ REF = 1, NAME = "P1" } Types must conform to known SQL Server Data Types. These are usually [int32] and [s tring] and in these cases the types are inferred .EXAMPLE Invoke-SQLReader -System production -SQL "select Name from SU_CALL_PRIORITY where REF = @REF" -Parameters @{ REF = 1; } Invoke-SQLScript .SYNOPSIS Execute a sql queries from a file using the database for a Service Manager system .DESCRIPTION Execute a sql queries from a file using the database for a Service Manager system Does not return any results Use GO; on a new line to separate scripts within the file .PARAMETER System The name of the Service Manager system or a reference to the System Admin Module fo r the named system For optimal performance, pass a reference to an existing instance of a System Admin Module when you plan to iteratively execute many sql queries .PARAMETER FileName Path to a file containing SQL commands. The path can be relative to the current working directory .EXAMPLE Invoke-SQLScript -System production -FileName ".\script.sql"



Set-ServiceManagerUserPassword

```
.SYNOPSIS
Set a new password for an existing ASM user
.DESCRIPTION
Set a new password for an existing ASM user
Only applicable when using ASM Password authentication
This is intended to be used to securely restore admin access to a system when no ot
her user can access ASM
.PARAMETER SystemName
The name of the Service Manager system
.PARAMETER Username
The username (USER_ID) of the ASM User Account
.PARAMETER Password
The new password
```

```
.EXAMPLE
```

```
Set-ServiceManagerUserPassword -SystemName production -Username "admin.user" - Password *******
```

```
Set-ServiceManagerSystemProperty
```

```
.SYNOPSIS
```

Set system properties for a Service Manager system

```
.DESCRIPTION
```

Execute a sql queries from a file using the database for a Service Manager system Does not return any results

Use GO; on a new line to separate scripts within the file

.PARAMETER SystemName

The name of the Service Manager system

```
.PARAMETER Name
```

The name of the system property

```
.PARAMETER Value
```

The value of the system property

```
.EXAMPLE
```

Set-ServiceManagerSystemProperty -SystemName production -Name TimeOut -Value 240 .EXAMPLE

```
Set-ServiceManagerSystemProperty -SystemName production -Name CurrencySign - Value "f"
```

Value	Туре	Example
TimeOut	Int32	-Name TimeOut -Value 120
LiteTimeout	Int32	-Name LiteTimeout -Value 60
DefaultDateFormat	String	-Name DefaultDateFormat -Value "yyyyMMdd"
CurrencySign	String	-Name CurrencySign -Value "£"
MMAURL	String	-Name MMAURL -Value "https://alemba.help/production/core.aspx"
LicenceKey	String	-Name LicenceKey -Value \$licenceText
EnableVirusCheck	Boolean	-Name EnableVirusCheck -Value \$true
ConnectionString	String	 Name ConnectionString -Value \$sqlConnectionString
TraceToFilePath	String	-Name TraceToFilePath -Value "c:\temp\logs"
EnableTracing	Boolean	-Name EnableTracing -Value \$true

https://docs.microsoft.com/en-us/dotnet/standard/base-types/custom-date-and-time-formatstrings

https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/connection-string-syntax

