

Overview CMM

The PowerShell module Configuration and Credential Management for PowerShell Modules (CMM), is intended to be used to

- create
- manage
- retrieve

configuration and credential data from the Microsoft PowerShell module `Microsoft.PowerShell.SecretManagement`. This module is a prerequisite for CMM. Developer of PowerShell module and scripts can access credential and configuration data via CMM. CMM does not provide commands to read the data from the local store of `Microsoft.PowerShell.SecretManagement`. CMM provides a method to access the credential and configuration data.

The concept of the module is to use templates and configurations. From a template, one or more configurations can be created.

The module requires the PowerShell *ConsoleHost*.

Templates

For every PowerShell module or script, which uses CMM to retrieve credential and configuration data, a template is needed. For a PowerShell module, which is available in more than one version, multiple templates could be necessary.

A template provides the attributes of a configuration.

Configuration

A configuration is based on a template. A configuration holds the data (variables). PowerShell modules and scripts can access and use the configuration data.

Example

In the following example templates and configurations will be created. The data will be used in a PowerShell module.

The module, which uses the data, is called OLX. There are two versions of the module available. Version 1.0.0.0 and version 2.0.0.0.

Creating and Configuring the Templates

To create a template, the CMM command

- `Register-CMMModuleTemplate`

is used. The following data will be provided to create the template:

- `ModuleName`
- `MinModuleVersion` (the minimum module version for which the template is valid, default is 0.0.0.0)

- TemplateDescription
- PSCredentialVarName (name for the variable which stores the credential)
- PSCredentialVarHelpMessage (an optional help message for the parameter/variable created with *PSCredentialVarName*)
- HostVarName (the name for the connection)
- HostVarDefaultValue (an optional default value for the host name)
- HostVarHelpMessage (an optional help message)

```
$ParamHash=@{
    ModuleName='OLX';
    MinModuleVersion='0.0.0.0';
    TemplateDescription='For demo purpose';
    PSCredentialVarName='OLXCred';
    PSCredentialVarHelpMessage='Enter your OLX credential';
    HostVarName='OLXHost';
    HostVarDefaultValue='portal.application.com';
    HostVarHelpMessage='Enter the host url (portal.application.com)';
}; # end ParamHash
Register-CMMModuleTemplate @ParamHash;
```

```
PS C:\> $ParamHash=@{
>> ModuleName='OLX';
>> MinModuleVersion='0.0.0.0';
>> TemplateDescription='For demo purpose';
>> PSCredentialVarName='OLXCred';
>> PSCredentialVarHelpMessage='Enter your OLX credential';
>> HostVarName='OLXHost';
>> HostVarDefaultValue='portal.application.com';
>> HostVarHelpMessage='Enter the host url (portal.application.com)';
>> }; # end ParamHash
PS C:\> Register-CMMModuleTemplate @ParamHash;
PS C:\> Get-CMMModuleTemplate
```

Name	Description	Default Cfg	# of Cfg	Parameter	Type	Mandatory	Def. Val	Help Msg.
OLX_0.0.0.0	For demo purpose		0	OLXCred	PSCredential	True		Enter your OLX credential
				OLXHost	String	True	portal.application.com	Enter the host url (portal.application.com)

Figure 1 Register module

The template OLX_0.0.0.0 is now available. The template provides two parameters/variables.

```
PS C:\> Get-CMMModuleTemplate
```

Name	Description	Default Cfg	# of Cfg	Parameter	Type	Mandatory	Def. Val
OLX_0.0.0.0	For demo purpose		0	OLXCred	PSCredential	True	
				OLXHost	String	True	portal.application.com

Figure 2 Default value and mandatory

Even if there is configured a default value for the host name the parameter is marked as mandatory (Figure 2 Default value and mandatory). Mandatory is only enforced when no default value is configured.

With this basic configuration, dater for connecting to a host and provide a credential is now configured. This minimum setting is a requirement for every template.

In the next steps we will add additional parameters/variables.

Name	Data type	IsMandatory	Help message	Default value
OLXSendReportsTo	String	True	Enter the email address of the reporting mailbox	

OLXPort	Int32		Enter the port	9466
---------	-------	--	----------------	------

```
$addTemplateVar=@{
Template='OLX_Ver:0.0.0.0';
VariableName='OLXSendReportsTo';
DataType='String';
IsMandatory=$true;
HelpMessage='Enter the email address of the reporting mailbox';
};
Add-CMMModuleTemplateVariable @addTemplateVar

$addTemplateVar=@{
Template='OLX_Ver:0.0.0.0';
VariableName='OLXPort';
DataType='Int32';
HelpMessage='Enter the port';
DefaultValue=9466;
};
Add-CMMModuleTemplateVariable @addTemplateVar
```

```
PS C:\> $addTemplateVar=@{
>> Template='OLX_Ver:0.0.0.0';
>> VariableName='OLXSendReportsTo';
>> DataType='String';
>> IsMandatory=$true;
>> HelpMessage='Enter the email address of the reporting mailbox';
>> };
PS C:\> Add-CMMModuleTemplateVariable @addTemplateVar
PS C:\>
PS C:\> $addTemplateVar=@{
>> Template='OLX_Ver:0.0.0.0';
>> VariableName='OLXPort';
>> DataType='Int32';
>> HelpMessage='Enter the port';
>> DefaultValue=9466;
>> };
PS C:\> Add-CMMModuleTemplateVariable @addTemplateVar
PS C:\> Get-CMMModuleTemplate

Name      Description      Default Cfg # of Cfg Parameter  Type      Mandatory Def. Val      Help Msg.
-----
OLX_0.0.0.0 For demo purpose      0 OLXCred      PScredential      True portal.application.com Enter your OLX credential
OLXHost      String      True portal.application.com Enter the host url (portal.application.com)
OLXSendReportsTo String      True              Enter the email address of the reporting mailbox
OLXPort      Int32       False 9466              Enter the port
PS C:\>
```

Figure 3 Additional Parameters/Variables added

Create a Configuration and Test

The purpose of the configuration is to configure the values, which are used in other PowerShell modules and scripts.

The command

- New-CMMConfiguration

retrieves some of the parameters from the template. in the following command, the names and types for the parameters

- OLXCred
- OLXSendReportsTo
- OLXHost
- OLXPort

are configured in the template OLX_Ver:0.0.0.0.

New-CMMConfiguration -Template OLX_Ver:0.0.0.0 -Name Cust1 -Description 'OLX cfg for Cust1' -OLXCred tom@cust1.com -OLXSendReportsTo fred@cust1.com

```

PS C:\> New-CMMConfiguration -Template OLX_Ver:0.0.0.0 -Name Cust1 -Description 'OLX cfg for Cust1' -OLXCred tom@cust1.com -OLXSendReportsTo fred@cust1.com

PowerShell credential request
Enter your credentials.
Password for user tom@cust1.com: *****

PS C:\> Get-CMMConfiguration -ModuleName OLX -Configuration Cust1_Ver:0.0.0.0

Name Min. Ver. Description PushNotify Parameter Value
-----
Cust1 0.0.0.0 OLX cfg for Cust1 False OLXCred tom@cust1.com
OLXHost portal.application.com
OLXPort 9466
OLXSendReportsTo fred@cust1.com

PS C:\> Get-CMMModuleTemplate -Template OLX_0.0.0.0

Name Description Default Cfg # of Cfg Parameter Type Mandatory Def. Val Help Msg.
-----
OLX_0.0.0.0 For demo purpose 1 OLXCred PS_Credential True portal.application.com Enter your OLX credential
OLXHost String True portal.application.com Enter the host url (portal.application.com)
OLXSendReportsTo String True Enter the email address of the reporting mailbox
OLXPort Int32 False 9466 Enter the port
  
```

Figure 4 Create Configuration

Because the parameters

- OLXHost
- OLXPort

are omitted, the names and the values are red from the template. To read the names and the values from the template, default values must be configured.

For the lab setup the following configurations will be applied.

```

$newCfg=@{
    Template='OLX_Ver:0.0.0.0';
    Name='Cust1Lab';
    Description='OLX for Cust1 lab';
    AllowPushNotification=$true;
    'OLXCred'='tom@cust1.lab';
    'OLXHost'='portal.application.lab';
    'OLXPort'='5998';
    'OLXSendReportsTo'='tom@cust1.lab';
};

New-CMMConfiguration @newCfg;

$newCfg=@{
    Template='OLX_Ver:0.0.0.0';
    Name='Cust2';
    Description='OLX for Cust2';
    'OLXCred'='tom@cust2.com';
    'OLXSendReportsTo'='ina@cust2.com';
};

New-CMMConfiguration @newCfg;

$newCfg=@{
    Template='OLX_Ver:0.0.0.0';
    Name='Cust3';
    Description='OLX for Cust3';
    'OLXCred'='rico@cust3.com';
    'OLXSendReportsTo'='mary@cust3.com';
};

New-CMMConfiguration @newCfg;
  
```

```

PowerShell 7 (x64)
PS C:\> Get-CMMConfiguration

```

Name	Min. Ver.	Description	PushNotify	Parameter	Value
Cust1	0.0.0.0	OLX cfg for Cust1	False	OLXCred	tom@cust1.com
				OLXHost	portal.application.com
				OLXPort	9466
Cust1Lab	0.0.0.0	OLX for Cust1 lab	True	OLXSendReportsTo	fred@cust1.com
				OLXCred	tom@cust1.lab
				OLXHost	portal.application.lab
				OLXPort	5998
Cust2	0.0.0.0	OLX for Cust2	False	OLXSendReportsTo	tom@cust1.lab
				OLXCred	tom@cust2.com
				OLXHost	portal.application.com
				OLXPort	9466
Cust3	0.0.0.0	OLX for Cust3	False	OLXSendReportsTo	ina@cust2.com
				OLXCred	rico@cust3.com
				OLXHost	portal.application.com
				OLXPort	9466
				OLXSendReportsTo	mary@cust3.com

```

PS C:\>

```

Figure 5 Configuration List

Loading the test module, will result in a warning message because no default config is configured.

```

PowerShell 7 (x64)
PS C:\> Import-Module OLX -RequiredVersion 1.0.0.0
WARNING: No default configuration found.
PS C:\>

```

Figure 6 Load Module OLX

During the load process, the module looks up if a default configuration is configured.

With the command

- Set-CMMConfiguration

the default configuration can be configured.

```

PowerShell 7 (x64)
PS C:\> Set-CMMConfiguration -Template OLX_0.0.0.0 -Configuration Cust1Lab -SetAsDefaultConfiguration
PS C:\> Get-CMMModuleTemplate -Template OLX_0.0.0.0

```

Name	Description	Default Cfg	# of Cfg	Parameter	Type	Mandatory	Def. Val	Help Msg.
OLX_0.0.0.0	For demo purpose	Cust1Lab	4	OLXCred	PSCredential	True		Enter your OLX credential
				OLXHost	String	True	portal.application.com	Enter the host url (portal.application.com)
				OLXSendReportsTo	String	True		Enter the email address of the reporting mailbox
				OLXPort	Int32	False	9466	Enter the port

```

PS C:\>

```

If the module will be reloaded the default configuration will be loaded.

```
PowerShell 7 (x64)
PS C:\> Import-Module OLX -RequiredVersion 1.0.0.0 -Force
Configuration Cust1Lab as default config loaded
PS C:\>
```

Figure 7 Load Module OLX with Default Config

With the command

- Get-OLXActiveConfiguration

the active configuration can be verified.

```
PowerShell 7 (x64)
PS C:\> Get-OLXActiveConfig

Name                               Value
----                               -
Name                               Cust1Lab
Version                           0.0.0.0
OLXHost: portal.application.lab
OLXSendReportsTo: tom@cust1.lab
OLXCred: tom@cust1.lab
OLXPort: 5998

PS C:\> Get-CMMConfiguration -ModuleName OLX -Configuration Cust1Lab_Ver:0.0.0.0

Name      Min. Ver. Description      PushNotify Parameter      Value
-----
Cust1Lab 0.0.0.0  OLX for Cust1 lab True      OLXCred      tom@cust1.lab
                                         OLXHost      portal.application.lab
                                         OLXPort      5998
                                         OLXSendReportsTo tom@cust1.lab

PS C:\>
```

Figure 8 Verify Active Config

With

- Get-OLXConfig

a different config can be selected.

```
PS C:\> Get-OLXConfig -Configuration Cust1
Cust1  Cust1Lab  Cust2  Cust3
```

Figure 9 Show Config (Ctrl-Space)

```

PS C:\> Get-OLXConfig -Configuration Cust1

Name                               Value
----                               -
ConfigVersion                      0.0.0.0
InconsistentAttributes             {}
ConfigName                        Cust1
Data                              {OLXHost, OLXSendReportsTo, OLXCred, OLXPort}
Variables:
OLXHost: portal.application.com
OLXSendReportsTo: fred@cust1.com
OLXCred: tom@cust1.com
OLXPort: 9466

PS C:\>

```

Figure 10 Display Config

Loading the module OLX 2.0.0.0 will result in loading the same configuration as version 1.0.0.0, because no template for a higher version is available.

```

PowerShell 7 (x64)

PS C:\> Import-Module OLX -RequiredVersion 2.0.0.0 -Force
Configuration Cust1Lab as default config loaded
PS C:\> Get-OLXActiveConfig

Name                               Value
----                               -
Name                               Cust1Lab
Version                            0.0.0.0
OLXHost: portal.application.lab
OLXSendReportsTo: tom@cust1.lab
OLXCred: tom@cust1.lab
OLXPort: 5998

PS C:\>

```

Figure 11 Load Module OLX 2.0.0.0

Tests with V2.0.0.0 Template

With the following commands the test setup for the template version 2.0.0.0 will be prepared.

```

$ParamHash=@{
    ModuleName='OLX';
    MinModuleVersion='2.0.0.0';
    TemplateDescription='For demo purpose v2';
    PSCredentialVarName='OLXCred';
    PSCredentialVarHelpMessage='Enter your OLX credential';
    HostVarName='OLXHost';
    HostVarDefaultValue='portal.application.com';
    HostVarHelpMessage='Enter the host url (portal.application.com)';
}; # end ParamHash

Register-CMMModuleTemplate @ParamHash;

$addTemplateVar=@{

```

```

Template='OLX_ver:2.0.0.0';
VariableName='OLXSendReportsTo';
DataType='String';
IsMandatory=$true;
HelpMessage='Enter the email address of the reporting mailbox';
};
Add-CMMModuleTemplateVariable @addTemplateVar

$addTemplateVar=@{
Template='OLX_ver:2.0.0.0';
VariableName='OLXPort';
DataType='Int32';
HelpMessage='Enter the port';
DefaultValue=9466;
};
Add-CMMModuleTemplateVariable @addTemplateVar

$addTemplateVar=@{
Template='OLX_ver:2.0.0.0';
VariableName='OLXSkipCertCheck';
DataType='Boolean';
HelpMessage='If the cert check should be skipped, enter True (security risk)';
DefaultValue=$false;
};
Add-CMMModuleTemplateVariable @addTemplateVar

```

```

PS C:\> Get-CMMModuleTemplate -ModuleName OLX

```

Name	Description	Default Cfg # of Cfg	Parameter	Type	Mandatory	Def. Val	Help Msg.
OLX_0.0.0.0	For demo purpose	4	OLXCred	PSCredential	True		Enter your OLX credential
			OLXHost	String	True	portal.application.com	Enter the host url (portal.application.com)
			OLXSendReportsTo	String	True		Enter the email address of the reporting mailbox
			OLXPort	Int32	False	9466	Enter the port
OLX_2.0.0.0	For demo purpose v2	0	OLXCred	PSCredential	True		Enter your OLX credential
			OLXHost	String	True	portal.application.com	Enter the host url (portal.application.com)
			OLXSendReportsTo	String	True		Enter the email address of the reporting mailbox
			OLXPort	Int32	False	9466	Enter the port
			OLXSkipCertCheck	Boolean	False	False	If the cert check should be skipped, enter True (security...

```

PS C:\>

```

Figure 12 Setup for Template V2.0.0.0

Reloading the module OLX 2.0.0.0 results in a warning, because no default configuration is configured.

```

PS C:\> Import-Module OLX -RequiredVersion 2.0.0.0
WARNING: No default configuration found.
PS C:\>

```

Figure 13 Loading OLX V2.0.0.0

A default config can only be loaded from a template, with the best matching version. Configuring a new template, my prevent your module/script to load the default configuration.

If the test PowerShell module OLX starts, a global variable with the name

- SkipTemplateVersionFiltering

is initialized. The initial value is FALSE. The global variable is used with the following methods:

- GetConfigurationList
- GetConfig

The behavior of *SkipTemplateVersionFiltering* is described in the file about_CMM.

If no configuration for the most recent template exists, and *SkipTemplateVersionFiltering* is set to FALSE, no configuration will be accessible. If *SkipTemplateVersionFiltering* is set to TRUE configurations from “older” templates will be accessible.

```
PowerShell 7 (x64)
PS C:\> Import-Module OLX -RequiredVersion 2.0.0.0 -Force
WARNING: No default configuration found.
PS C:\> $Global:SkipTemplateVersionFiltering=$true
PS C:\> $Global:SkipTemplateVersionFiltering
True
PS C:\> Get-OLXConfig -Configuration Cust1
Cust1    Cust1Lab  Cust2    Cust3
```

Figure 14 List older Configurations

```
PowerShell 7 (x64)
PS C:\> Set-OLXConfigAsActive -Configuration Cust2
PS C:\> Get-OLXActiveConfig

Name                               Value
----                               -
Version                           0.0.0.0
Name                               Cust2
OLXSendReportsTo:                 ina@cust2.com
OLXPort:                           9466
OLXCred:                           tom@cust2.com
OLXHost:                           portal.application.com

PS C:\>
```

Figure 15 Set older Config as Active

Now we add a new configuration to the recently added template with the version 2.0.0.0.

```
$newCfg=@{
    Template='OLX_ver:2.0.0.0';
    Name='Cust1';
    Description='OLX for Cust1';
    AllowPushNotification=$true;
    'OLXCred'='tom@cust1.com';
    'OLXHost'='portal.application.com';
    'OLXPort'='5998';
    'OLXSendReportsTo'='tom@cust1.com';
};

New-CMMConfiguration @newCfg;

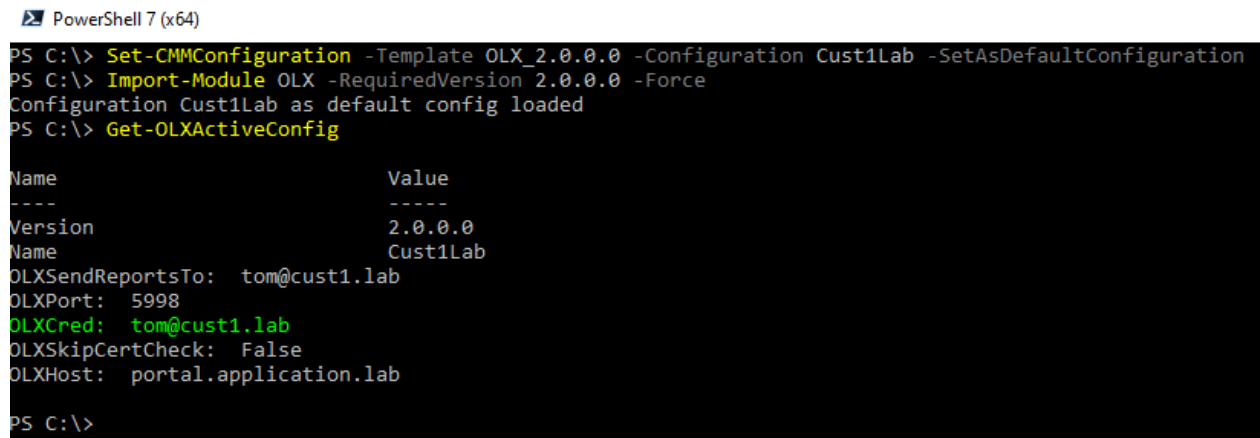
$newCfg=@{
    Template='OLX_ver:2.0.0.0';
    Name='Cust1Lab';
    Description='OLX for Cust1 lab';
    AllowPushNotification=$true;
    'OLXCred'='tom@cust1.lab';
    'OLXHost'='portal.application.lab';
    'OLXPort'='5998';
    'OLXSendReportsTo'='tom@cust1.lab';
};
```

```
New-CMMConfiguration @newCfg;

$newCfg=@{
    Template='OLX_Ver:2.0.0.0';
    Name='Cust2';
    Description='OLX for Cust2';
    'OLXCred'='tom@cust2.com';
    'OLXSendReportsTo'='ina@cust2.com';
};

New-CMMConfiguration @newCfg;
```

If a configuration is configured as default configuration and the module is reloaded, the default configuration will be loaded.

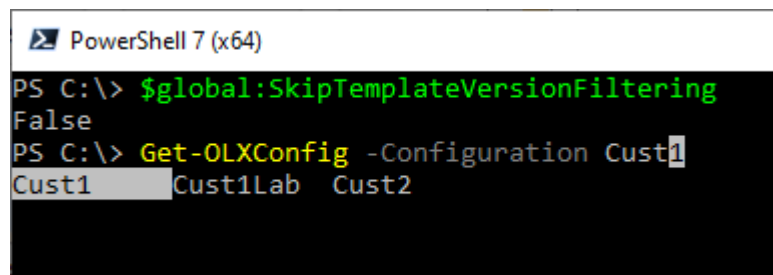


```
PowerShell 7 (x64)
PS C:\> Set-CMMConfiguration -Template OLX_2.0.0.0 -Configuration Cust1Lab -SetAsDefaultConfiguration
PS C:\> Import-Module OLX -RequiredVersion 2.0.0.0 -Force
Configuration Cust1Lab as default config loaded
PS C:\> Get-OLXActiveConfig

Name                               Value
----                               -
Version                           2.0.0.0
Name                               Cust1Lab
OLXSendReportsTo: tom@cust1.lab
OLXPort: 5998
OLXCred: tom@cust1.lab
OLXSkipCertCheck: False
OLXHost: portal.application.lab
PS C:\>
```

Figure 16 Reload Module with Default Configuration

If *SkipTemplateVersionFiltering* is set to FALSE, only the configurations configured for the template with the version 2.0.0.0 are available.



```
PowerShell 7 (x64)
PS C:\> $global:SkipTemplateVersionFiltering
False
PS C:\> Get-OLXConfig -Configuration Cust1
Cust1 Cust1Lab Cust2
```

Figure 17 Available Configurations

If the *SkipTemplateVersionFiltering* is set to TRUE, the configuration for Cust3 (only for template 0.0.0.0 configured) is now available.

```
PowerShell 7 (x64)
PS C:\> $global:SkipTemplateVersionFiltering=$true
PS C:\> $global:SkipTemplateVersionFiltering
True
PS C:\> Get-OLXConfig -Configuration Cust1
Cust1 Cust1Lab Cust2 Cust3
```

If, for Cust1, the configuration is queried, the most recent configuration (2.0.0.0) is returned.

```
PowerShell 7 (x64)
PS C:\> Get-OLXConfig -Configuration Cust1

Name                Value
----                -
Data                {OLXSendReportsTo, OLXPort, OLXCred, OLXSkipCertCheck...}
ConfigName          Cust1
ConfigVersion        2.0.0.0
InconsistentAttributes {}
Variables:
OLXSendReportsTo: tom@cust1.com
OLXPort: 5998
OLXCred: tom@cust1.com
OLXSkipCertCheck: False
OLXHost: portal.application.com

PS C:\>
```

Push Notification

Push notification is an experimental feature. It only works if CMM and the PowerShell module using CMM is running in the same PowerShell session.

To verify if a configuration is configured for push notification list the appropriate configuration.

```
PowerShell 7 (x64)
PS C:\> Get-CMMConfiguration -Configuration OLX_Cust1Lab_Ver:2.0.0.0

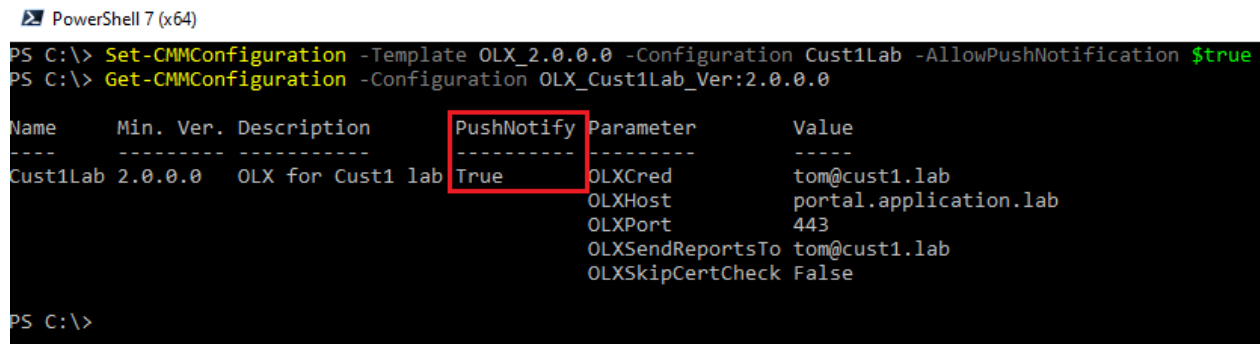
Name      Min. Ver. Description      PushNotify Parameter      Value
-----
Cust1Lab  2.0.0.0  OLX for Cust1 lab False           OLXCred         tom@cust1.lab
                                           OLXHost         portal.application.lab
                                           OLXPort         443
                                           OLXSendReportsTo tom@cust1.lab
                                           OLXSkipCertCheck False

PS C:\>
```

Figure 18 Verify PushNotify

To configure a configuration for push notification run the following command:

Set-CMMConfiguration -Template OLX_2.0.0.0 -Configuration Cust1Lab -AllowPushNotification \$true



```
PS C:\> Set-CMMConfiguration -Template OLX_2.0.0.0 -Configuration Cust1Lab -AllowPushNotification $true
PS C:\> Get-CMMConfiguration -Configuration OLX_Cust1Lab_Ver:2.0.0.0
```

Name	Min. Ver.	Description	PushNotify	Parameter	Value
Cust1Lab	2.0.0.0	OLX for Cust1 lab	True	OLXCred	tom@cust1.lab
				OLXHost	portal.application.lab
				OLXPort	443
				OLXSendReportsTo	tom@cust1.lab
				OLXSkipCertCheck	False

```
PS C:\>
```

Figure 19 Configure PushNotify

Push notification is now configured.

To make PushNotify work, the PowerShell module, which is using CMM must export an object with a method named

- UpdateConfig

In the example module, which can be found in the folder

- EXAMPLES

a simple PowerShell class is included. The code can be found in the file

- LibsHelperFunctions.ps1 (in both versions of the module OLX)

CMM sends the name of the configuration and the version of the template, from which the configuration was created, to the method. The sample code checks if the updated configuration is active. If so, it reloads the configuration from CMM.

If the sample class is used, the object can be exported with the following code (can be found in OLX.psm1)

```
$vStr=($Script:ModuleVersion).ToString().Replace('.', '_');
$vName='_' + $Script:ModuleName + '_' + $vStr;
New-Variable -Name $vName -Value ([GetModuleData]::new());
Export-ModuleMember -Variable $vName;
```

The variable *ModuleVersion* was in OLX.psm1.

The configuration

- Cust1Lab

is the active configuration. OLXPort is set to 443.

```
PowerShell 7 (x64)
PS C:\> Get-CMMConfiguration -Configuration OLX_Cust1Lab_Ver:2.0.0.0

Name      Min. Ver. Description      PushNotify Parameter      Value
-----
Cust1Lab  2.0.0.0  OLX for Cust1 lab True             OLXCred         tom@cust1.lab
                        OLXHost         portal.application.lab
                        OLXPort         443
                        OLXSendReportsTo tom@cust1.lab
                        OLXSkipCertCheck False

PS C:\> Get-OLXActiveConfig

Name      Value
-----
Version   2.0.0.0
Name      Cust1Lab
OLXHost:  portal.application.lab
OLXSkipCertCheck: False
OLXSendReportsTo: tom@cust1.lab
OLXPort:  443
OLXCred:  tom@cust1.lab

PS C:\>
```

Figure 20 Configuration Check

With the following command OLXPort will be set to 9999.

Set-CMMConfiguration -Template OLX_2.0.0.0 -Configuration Cust1Lab -OLXPort 9999

Both the configuration and the active configuration in the sample PowerShell module are updated.

```

PowerShell 7 (x64)
PS C:\> Set-CMMConfiguration -Template OLX_2.0.0.0 -Configuration Cust1Lab -OLXPort 9999
Updating...
PS C:\> Get-CMMConfiguration -ModuleName OLX -Configuration Cust1Lab_Ver:2.0.0.0

Name      Min. Ver. Description      PushNotify Parameter      Value
-----
Cust1Lab 2.0.0.0  OLX for Cust1 lab True      OLXCred      tom@cust1.lab
                                           OLXHost      portal.application.lab
                                           OLXPort      9999
                                           OLXSendReportsTo tom@cust1.lab
                                           OLXSkipCertCheck False

PS C:\> Get-OLXActiveConfig

Name      Value
-----
Version    2.0.0.0
Name       Cust1Lab
OLXHost:   portal.application.lab
OLXSkipCertCheck: False
OLXSendReportsTo: tom@cust1.lab
OLXPort:   9999
OLXCred:   tom@cust1.lab

PS C:\>

```

Figure 21 Updte with PushNotify