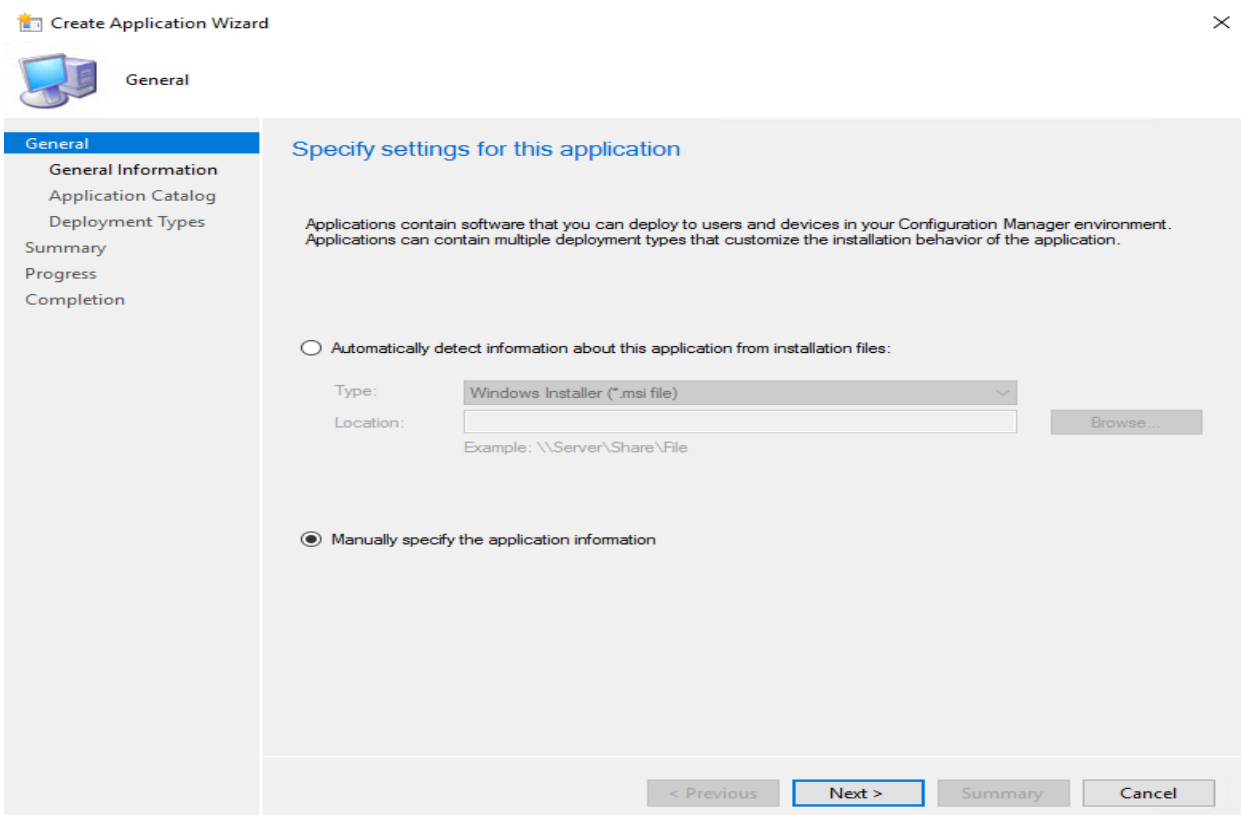
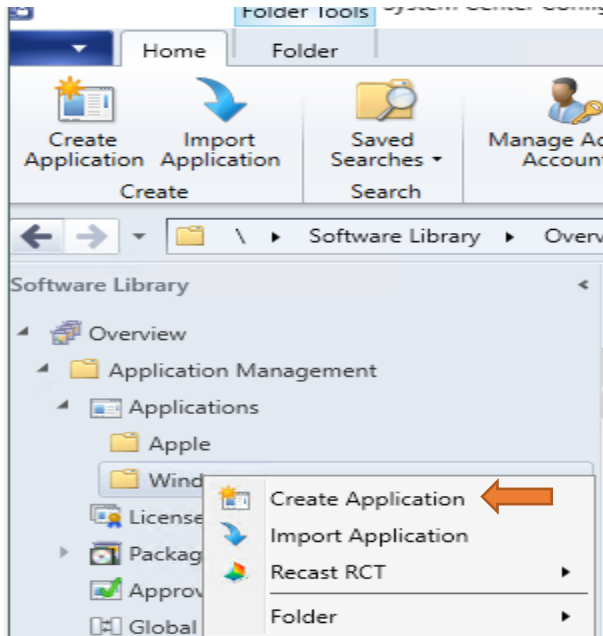



## How to deploy a MSU using PowerShell as the detection method

In this exercise, I am going to create an application and deploy KB4343884 to all Server 2016 system collection.



Create Application Wizard ✕

 Application Catalog

General

General Information

Application Catalog

Deployment Types

Summary

Progress

Completion

### Specify the Configuration Manager Application Catalog entry

Specify information about how you want to display this application to users when they browse the Application Catalog. To provide information in a specific language, select the language before you enter a description.

Selected language: English (Canada) default Add/Remove...

Localized application name: KB4343884

User categories:  Edit...


User documentation:  Browse...

Link text:

Privacy URL:

Localized description:


Keywords:

Icon:  Browse...

Display this as a featured app and highlight it in the company portal

< Previous
Next >
Summary
Cancel

Create Application Wizard ✕

 Deployment Types

General

General Information

Application Catalog

Deployment Types

Summary

Progress

Completion

### Configure deployment types and the priority in which they will be applied for this application

Deployment types include information about the installation method and the source files for this application.

Deployment types: Increase Priority Decrease Priority

Filter...

Priority	Name	Type	Languages
There are no items to show in this view.			

Add...
Edit...
Copy
Delete

< Previous
Next >
Summary
Cancel



General

General

- General Information
- Content
- Detection Method
- User Experience
- Requirements
- Dependencies
- Summary
- Progress
- Completion

### Specify settings for this deployment type

Deployment types include information about the installation method and source files for this application.

Type:

Automatically identify information about this deployment type from installation files

Location:    
Example: \\Server\Share\File

Manually specify the deployment type information



General Information

General

- General Information
- Content
- Detection Method
- User Experience
- Requirements
- Dependencies
- Summary
- Progress
- Completion

### Specify general information for this deployment type

Applications can have any number of deployment types. Deployment types include links to content and settings that specify how the content is delivered.

Name:

Administrator comments:

Languages:



Content

- General
- General Information
- Content**
- Detection Method
- User Experience
- Requirements
- Dependencies
- Summary
- Progress
- Completion

Specify information about the content to be delivered to target devices

Specify the location of the deployment type's content and other settings that control how content is delivered to target devices. All the contents in the path specified will be delivered.

Content location:

Persist content in the client cache

Specify the command used to install this content.

Installation program:

Installation start in:

Configuration Manager can remove installations of this content if an uninstall program is specified below.

Uninstall program:

Uninstall start in:

Run installation and uninstall program as 32-bit process on 64-bit clients.

wusa.exe "File.msu" /quiet /norestart

wusa.exe "windows10.0-kb4343884-x64\_40f94224802dd1bd46039df81209d89b64526e78.msu" /quiet /norestart



Detection Method

- General
- General Information
- Content
- Detection Method**
- User Experience
- Requirements
- Dependencies
- Summary
- Progress
- Completion

Specify how this deployment type is detected

Specify how Configuration Manager determines whether this deployment type is already present on a device. This detection occurs before the content is installed or when software inventory data is collected.

Configure rules to detect the presence of this deployment type:

Connector	(	Clause	)

Use a custom script to detect the presence of this deployment type:

Script type:

Script length:



```

Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

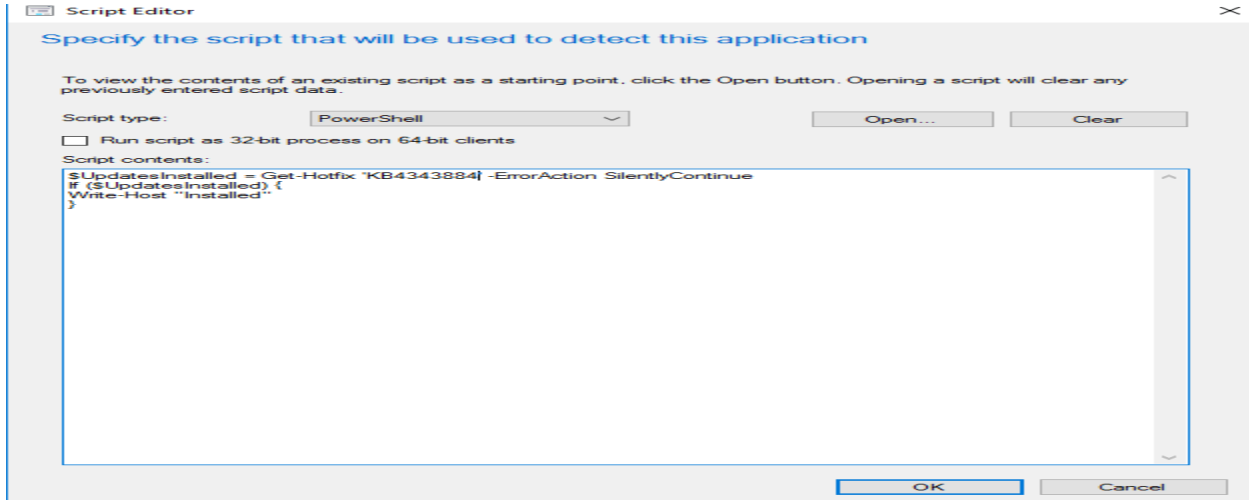
PS C:\Users\Administrator> get-hotfix

Source      Description      HotFixID      InstalledBy      InstalledOn
-----      -
DC1         Update          KB4049065     NT AUTHORITY\SYSTEM 02-Feb-2018 12:00:00 AM
DC1         Update          KB4091664     NT AUTHORITY\SYSTEM 23-Aug-2018 12:00:00 AM
DC1         Update          KB4132216     NT AUTHORITY\SYSTEM 08-Jul-2018 12:00:00 AM
DC1         Update          KB4343884     NT AUTHORITY\SYSTEM 02-Sep-2018 12:00:00 AM

PS C:\Users\Administrator>

```

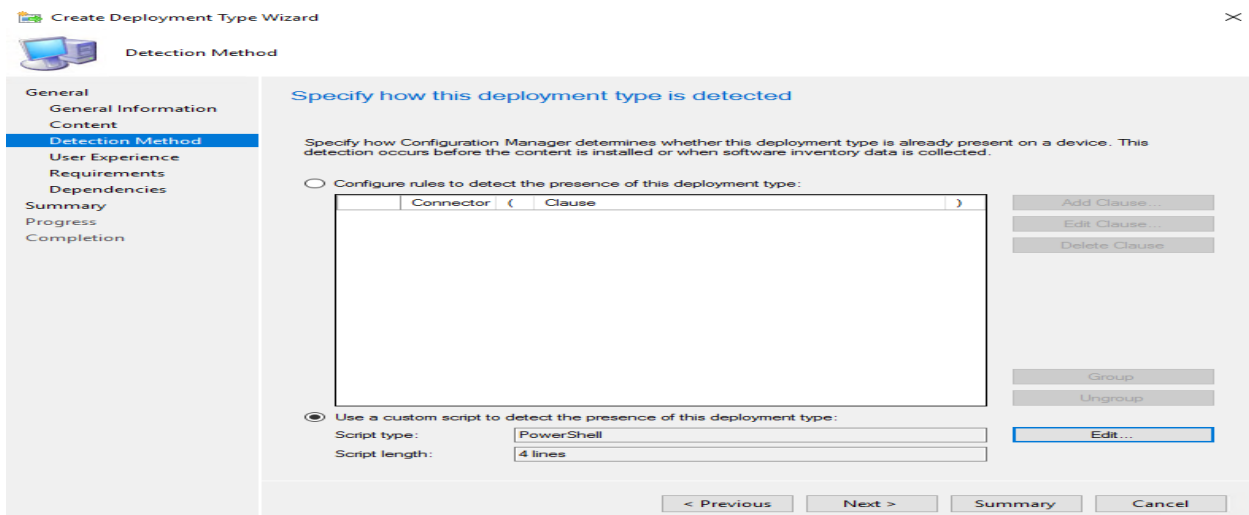
You can run above command on a system that has KB4343884 installed to obtain the Hotfix ID.




```

$UpdatesInstalled = Get-Hotfix 'KB4343884' -ErrorAction SilentlyContinue
if ($UpdatesInstalled) {
Write-Host "Installed"
}

```



Create Deployment Type Wizard ×

 User Experience

**General**  
General Information  
Content  
Detection Method  
**User Experience**  
Requirements  
Dependencies  
Summary  
Progress  
Completion

### Specify user experience settings for the application

Installation behavior:

Logon requirement:

Installation program visibility:


Allow users to view and interact with the program installation

Specify the maximum run time and estimated installation time of the deployment program for this application. The estimated installation time displays to the user when the application installs.

Maximum allowed run time (minutes):

Estimated installation time (minutes):

Create Deployment Type Wizard ×

 Requirements


**General**  
General Information  
Content  
Detection Method  
User Experience  
**Requirements**  
Dependencies  
Summary  
Progress  
Completion

### Specify installation requirements for this deployment type

Specify any requirements, such as hardware features or the operating system version, that devices must have before they can install this deployment type. Configuration Manager verifies that these requirements are met before content is deployed to the device.

Requirements:

Requirement Type	Operator	Values
There are no items to show in this view.		



**Create Requirement** [X]

Category: Device

Condition: Operating system [Create...]

Rule type: Value

Operator: One of

Select all

- Windows 8.1
- Windows 10
- Windows 2003
- Windows 2008
- Windows Server 2012
- Windows Server 2012 R2
- Windows Server 2016
- All Windows Server 2016 (64-bit)
- Windows Embedded

[OK] [Cancel]

**Create Deployment Type Wizard** [X]

Requirements

**General**

- General Information
- Content
- Detection Method
- User Experience
- Requirements**
- Dependencies
- Summary
- Progress
- Completion

**Specify installation requirements for this deployment type**

Specify any requirements, such as hardware features or the operating system version, that devices must have before they can install this deployment type. Configuration Manager verifies that these requirements are met before content is deployed to the device.

Requirements:

Requirement Type	Operator	Values
Operating system	One of	{All Windows Server 2016 (64-bit)}

[Add...] [Edit...] [Delete]

[< Previous] [Next >] [Summary] [Cancel]



Dependencies

General

- General Information
- Content
- Detection Method
- User Experience
- Requirements
- Dependencies**
- Summary
- Progress
- Completion

Specify software dependencies for this deployment type

Software dependencies are deployment types that must be installed before this deployment type can be installed.

Software dependencies:

Name	Application	Deployment Type	Automatically Install



Summary

General

- General Information
- Content
- Detection Method
- User Experience
- Requirements
- Dependencies
- Summary**
- Progress
- Completion

Confirm the settings for this deployment type

Details:

**General Information:**

- Name: KB4343884
- Technology: Script Installer
- Administrator comments:
- Languages: English (United States)

**Content:**

- Content location: \\cm1\Sources\Update\Server 2016\2018-08 CU
- Persist in client cache: No
- Installation program: wusa.exe "windows10.0-kb4343884-x64\_40f94224802dd1bd46039df81209d89b64526e78.msu" /quiet /norestart
- Installation start in:

**Detection Method:**

**User Experience:**

- Installation behavior: Install for system
- Login requirement: Whether or not a user is logged on
- Installation priority: Normal
- Allow users to interact with this program: No
- Maximum allowed run time (minutes): 120
- Estimated install time (minutes): 35

**Requirements:**

- Operating system One of {All Windows Server 2016 (64-bit)}

**Dependencies:**

To change these settings, click Previous. To apply the settings, click Next.





Completion

- General
- General Information
- Content
- Detection Method
- User Experience
- Requirements
- Dependencies
- Summary
- Progress
- Completion**



The Create Deployment Type Wizard completed successfully

Details:

- ✔ Success: General Information:
  - Name: KB4343884
  - Technology: Script Installer
  - Administrator comments:
  - Languages: English (United States)
- ✔ Success: Content:
  - Content location: \\cm1\Sources\Update\Server 2016\2018-08 CU
  - Persist in client cache: No
  - Installation program: wusa.exe "windows10.0-kb4343884-x64\_40f94224802dd1bd46039df81209d89b64526e78.msu" /quiet /norestart
  - Installation start in:
- ✔ Success: Detection Method:
- ✔ Success: User Experience:
  - Installation behavior: Install for system
  - Login requirement: Whether or not a user is logged on
  - Installation priority: Normal
  - Allow users to interact with this program: No
  - Maximum allowed run time (minutes): 120
  - Estimated install time (minutes): 35
- ✔ Success: Requirements:
  - Operating system: One of {All Windows Server 2016 (64-bit)}

To exit the wizard, click Close.

- < Previous
- Next >
- Summary
- Close



Deployment Types

- General
- General Information
- Application Catalog
- Deployment Types**
- Summary
- Progress
- Completion

Configure deployment types and the priority in which they will be applied for this application

Deployment types include information about the installation method and the source files for this application.

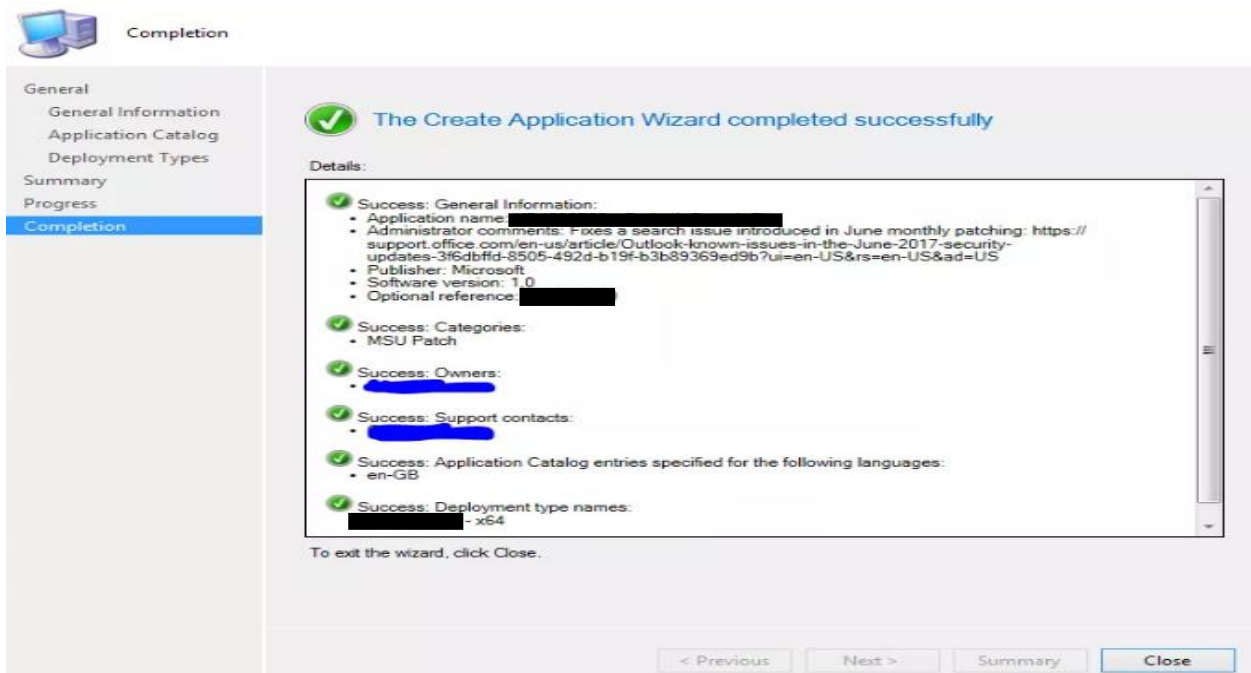
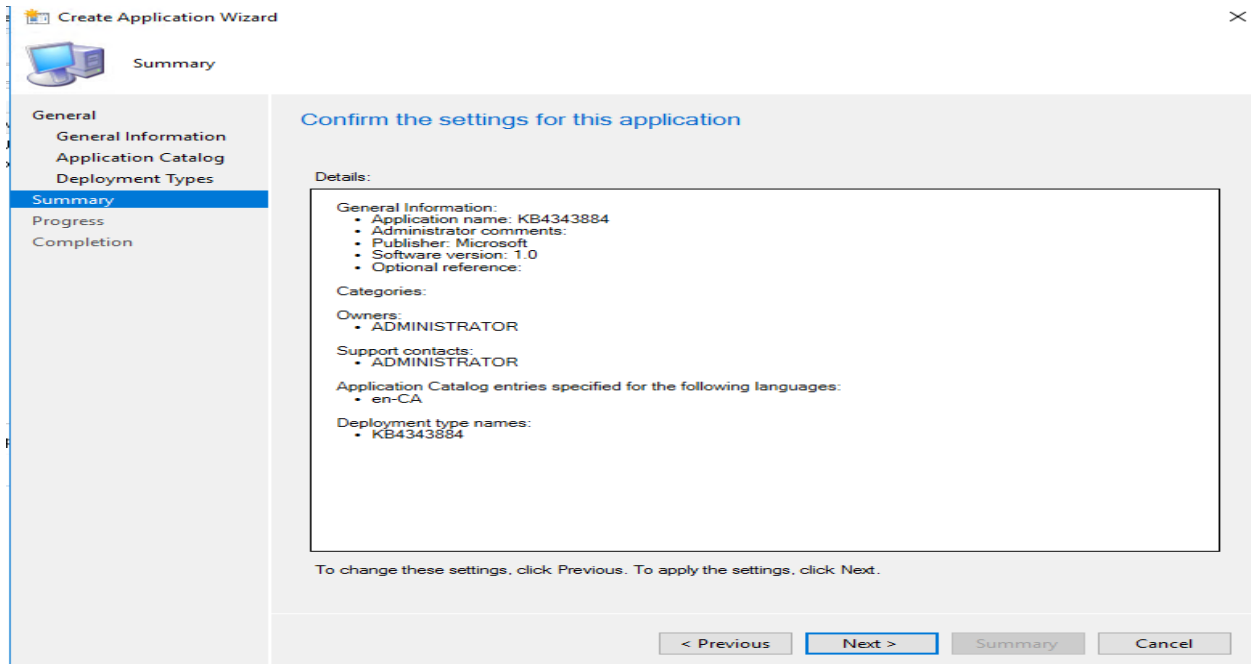
Deployment types: Increase Priority    Decrease Priority

Filter...

Priority	Name	Type	Languages
1	KB4343884	Script	English (United States)

- Add...
- Edit...
- Copy
- Delete

- < Previous
- Next >
- Summary
- Cancel



Then deploy the application to Server 2016 collection. After some time it will show up in the software center for install. If you selected required then the update will kick in automatically.

This concludes the process of creating an application to deploy KB's.

Thanks

**Ram Lan**  
**3<sup>rd</sup> Sep 2018**