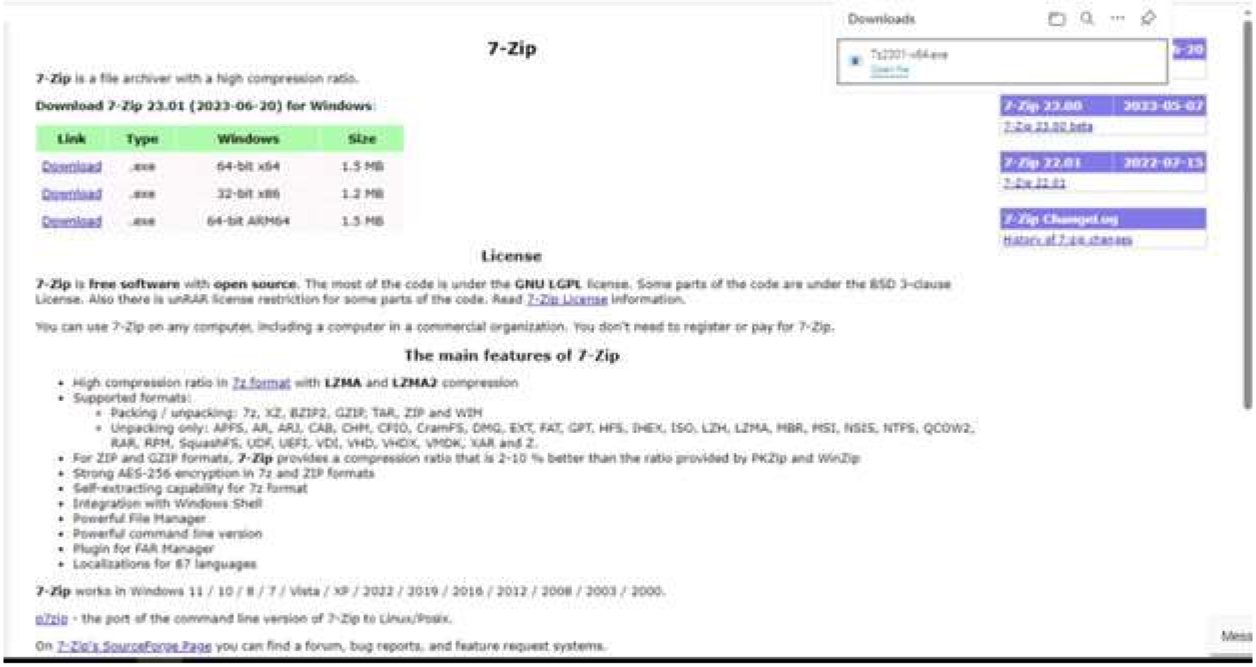
Application Deployment

Alex Batker

7-Zip Deployment

Application	Available or Required	Device Collection or User Collection	Use Approval (Yes/No)
7-Zip	Available	User	No

1) Download 7-Zip .msi file



7-Zip

7-Zip is a file archiver with a high compression ratio.

Download 7-Zip 23.01 (2023-06-20) for Windows:

Link	Type	Windows	Size
Download	.exe	64-bit x64	1.5 MB
Download	.exe	32-bit x86	1.2 MB
Download	.exe	64-bit ARM64	1.5 MB

License

7-Zip is **free software** with **open source**. The most of the code is under the **GNU LGPL** license. Some parts of the code are under the BSD 3-clause License. Also there is unRAR license restriction for some parts of the code. Read 7-Zip License information.

You can use 7-Zip on any computer, including a computer in a commercial organization. You don't need to register or pay for 7-Zip.

The main features of 7-Zip

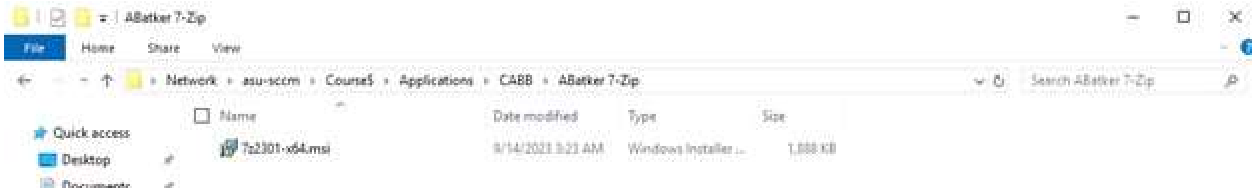
- High compression ratio in 7z format with **LZMA** and **LZMA2** compression
- Supported formats:
  - Packing / unpacking: 7z, XZ, BZIP2, GZIP, TAR, ZIP and WIM
  - Unpacking only: APFS, AR, ARJ, CAB, CHM, CPIO, CramFS, DMG, EXT, FAT, GPT, HFS, IHEX, ISO, LZH, LZMA, MBR, MSI, NSIS, NTFS, QCOW2, RAR, RPM, SquashFS, UDF, UEFI, VDI, VHD, VHDX, VMDK, XAR and Z.
- For ZIP and GZIP formats, **7-Zip** provides a compression ratio that is 2-10 % better than the ratio provided by PKZip and WinZip
- Strong AES-256 encryption in 7z and ZIP formats
- Self-extracting capability for 7z format
- Integration with Windows Shell
- Powerful File Manager
- Powerful command line version
- Plugin for FAR Manager
- Localizations for 87 languages

7-Zip works in Windows 11 / 10 / 8 / 7 / Vista / XP / 2022 / 2019 / 2016 / 2012 / 2008 / 2003 / 2000.

p7zip - the port of the command line version of 7-Zip to Linux/Posix.

On 7-Zip's SourceForge Page you can find a forum, bug reports, and feature request systems.

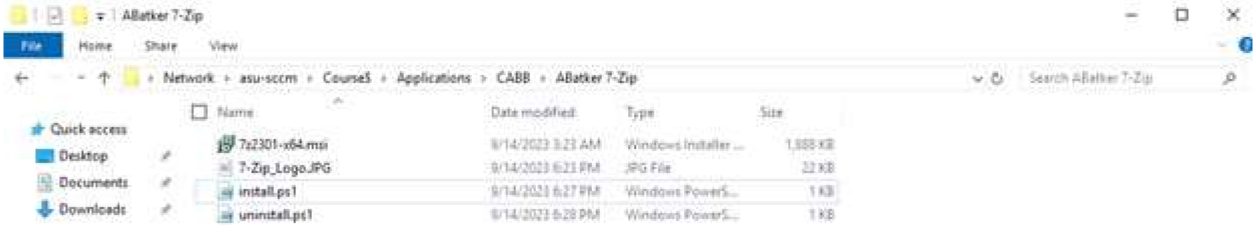
2) Move .msi file to my individual application folder in my group (CABB) folder



Network › asu-sccm › Course$ › Applications › CABB › ABatker 7-Zip

Name	Date modified	Type	Size
7z2301-x64.msi	9/14/2023 3:23 AM	Windows Installer ...	1,888 KB

3) Create install and uninstall PS script files and download logo for application

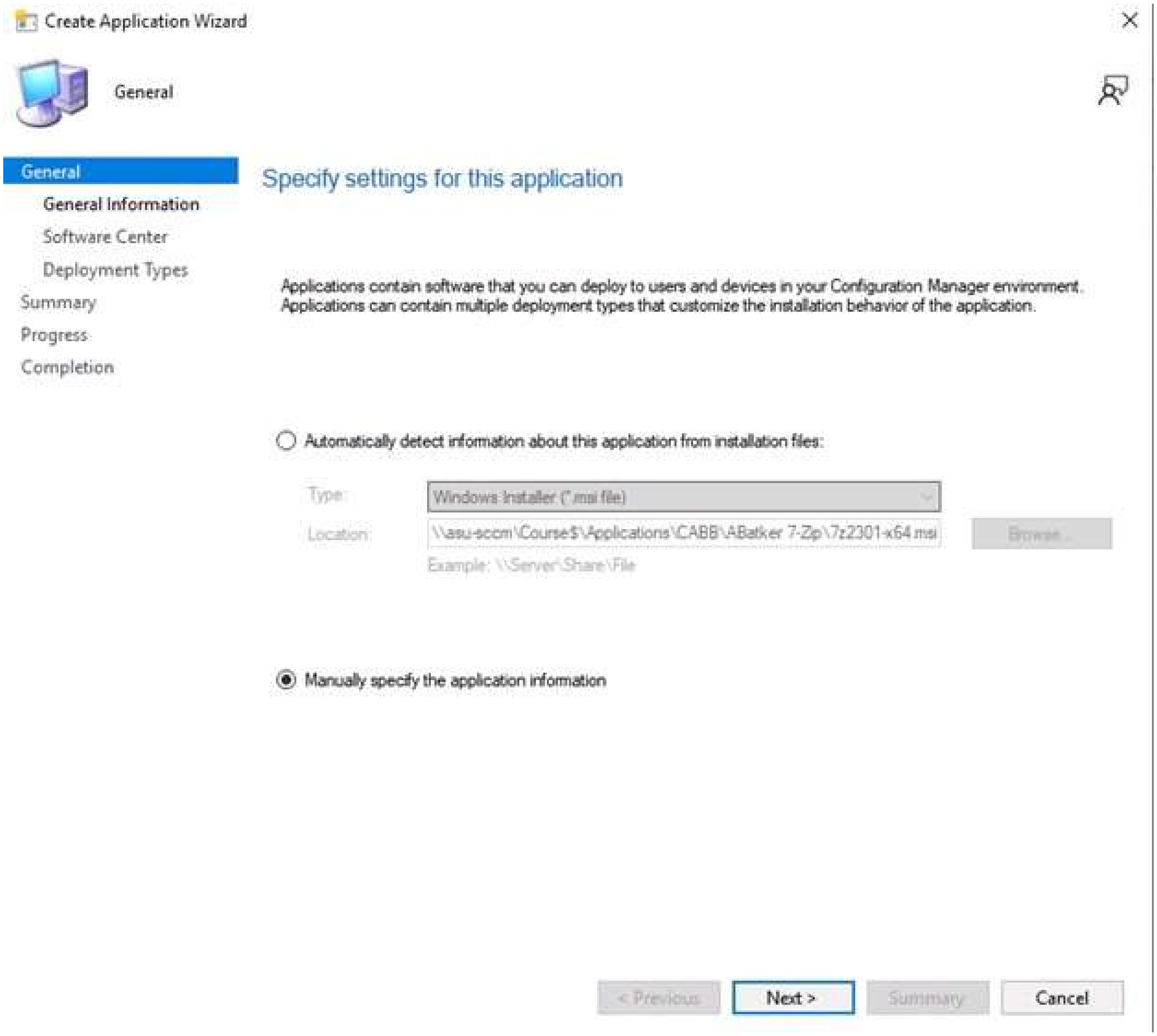


ABatker 7-Zip

Network › asu-sccm › Course$ › Applications › CABB › ABatker 7-Zip

Name	Date modified	Type	Size
7z2301-x64.msi	9/14/2023 3:23 AM	Windows Installer ...	1,888 KB
7-Zip_Logo.JPG	9/14/2023 6:23 PM	JPG File	22 KB
install.ps1	9/14/2023 6:27 PM	Windows PowerS...	1 KB
uninstall.ps1	9/14/2023 6:28 PM	Windows PowerS...	1 KB

4) Start Wizard and choose path and manual options



Create Application Wizard

Specify settings for this application

Applications contain software that you can deploy to users and devices in your Configuration Manager environment. Applications can contain multiple deployment types that customize the installation behavior of the application.

○ Automatically detect information about this application from installation files:

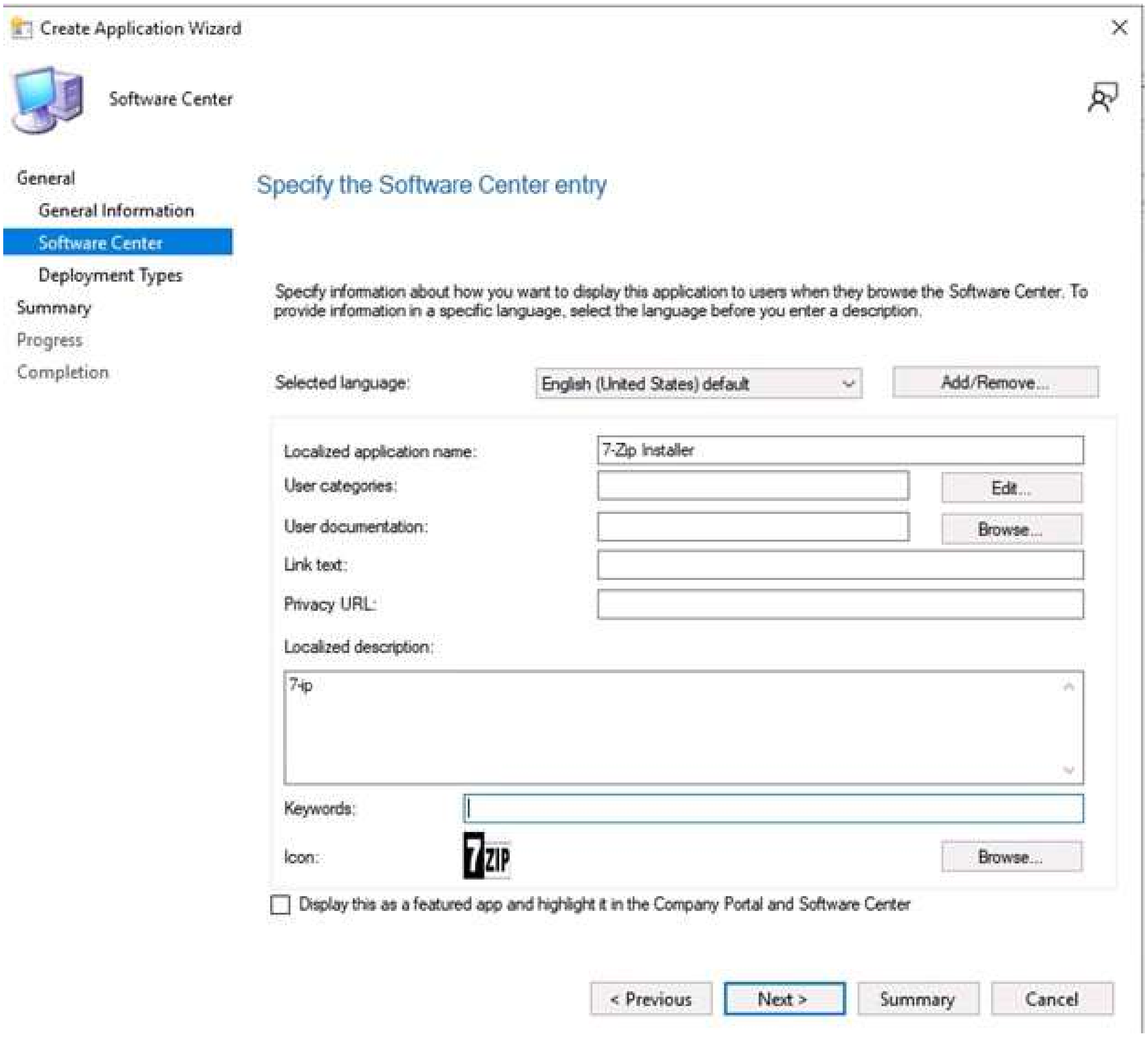
Type: Windows Installer (*.msi file)

Location: \\asu-sccm\Course$\Applications\CABB\ABatker 7-Zip\7z2301-x64.msi

Example: \\Server\Share\File

● Manually specify the application information

5) Choose Image and software center options



Create Application Wizard

Software Center

Specify the Software Center entry

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

Selected language: English (United States) default

Localized application name: 7-Zip Installer

User categories:

User documentation:

Link text:

Privacy URL:

Localized description:

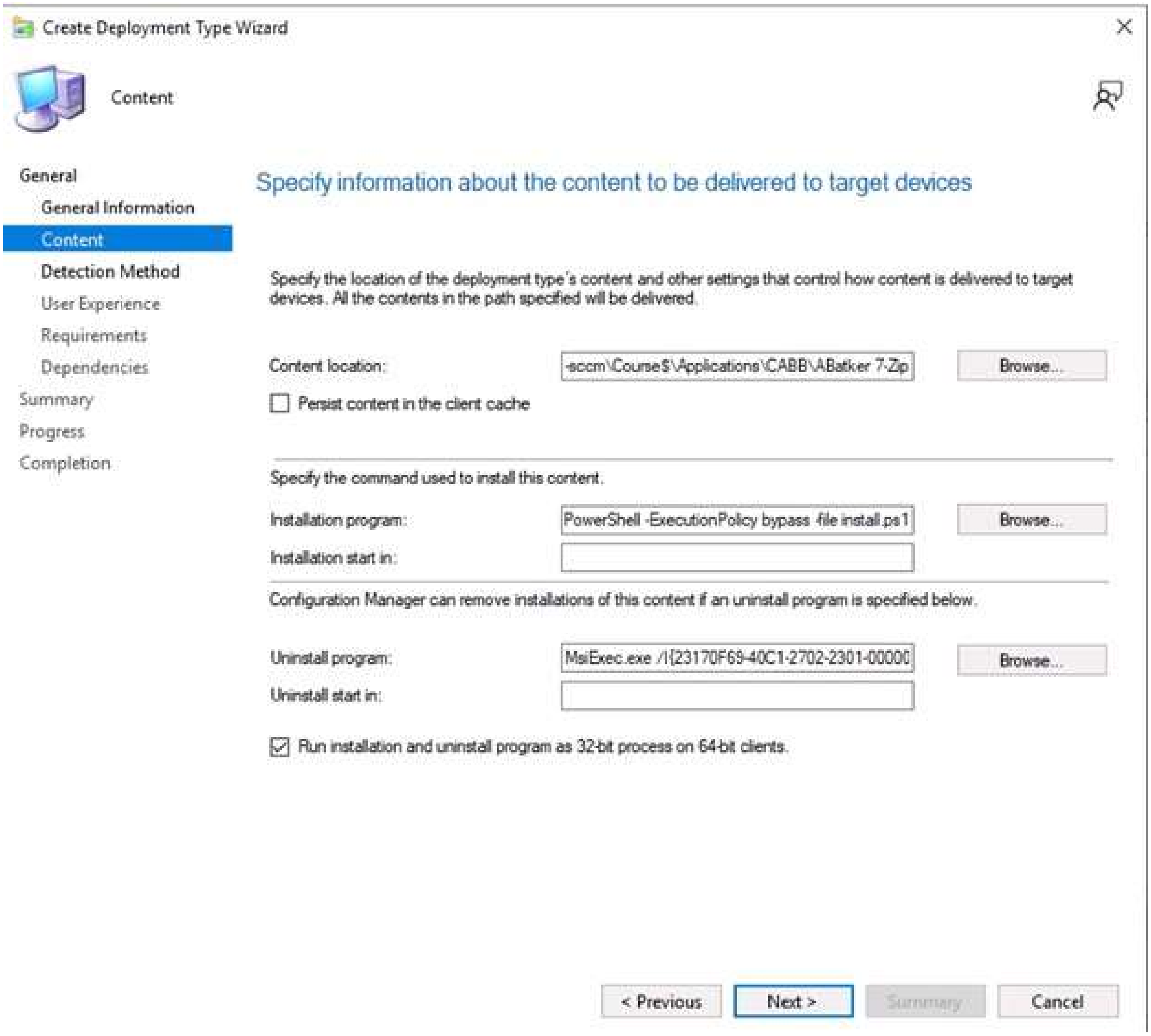
7-ip

Keywords:

Icon:

□ Display this as a featured app and highlight it in the Company Portal and Software Center

6) Deployment Type creation and choosing installation



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: -sccm\Course$\Applications\CABB\ABatker 7-Zip

□ Persist content in the client cache

Specify the command used to install this content.

Installation program: PowerShell -ExecutionPolicy bypass -file install.ps1

Installation start in:

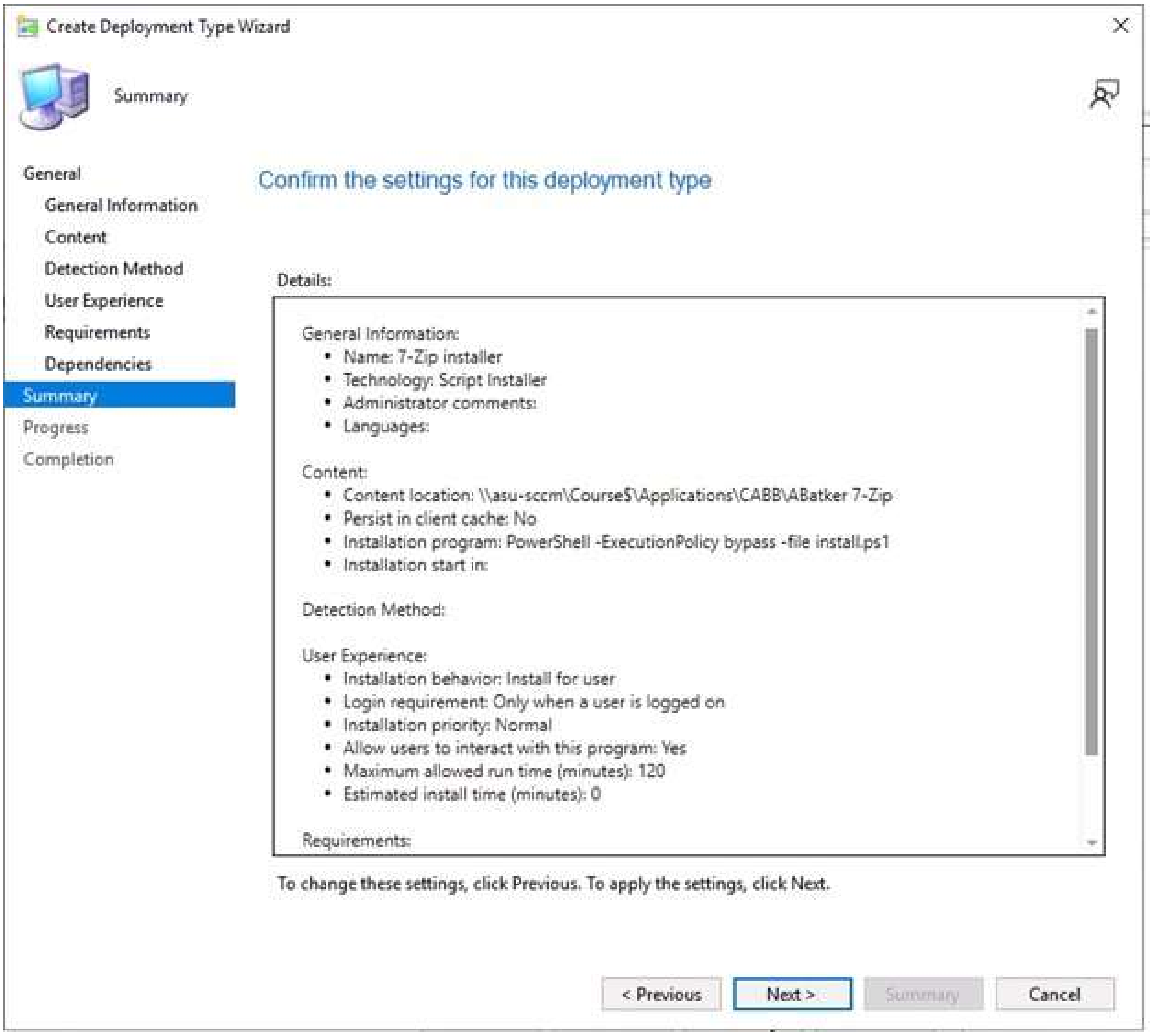
Configuration Manager can remove installations of this content if an uninstall program is specified below.

Uninstall program: MsiExec.exe /I{23170F69-40C1-2702-2301-00000

Uninstall start in:

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

7) Detection Method is the .msi product code and then finish with no dependencies or requirements



Confirm the settings for this deployment type

Details:

General Information:
- Name: 7-Zip installer
- Technology: Script Installer
- Administrator comments:
- Languages:

Content:
- Content location: \\asu-sccm\Course$\Applications\CABB\ABatker 7-Zip
- Persist in client cache: No
- Installation program: PowerShell -ExecutionPolicy bypass -file install.ps1
- Installation start in:

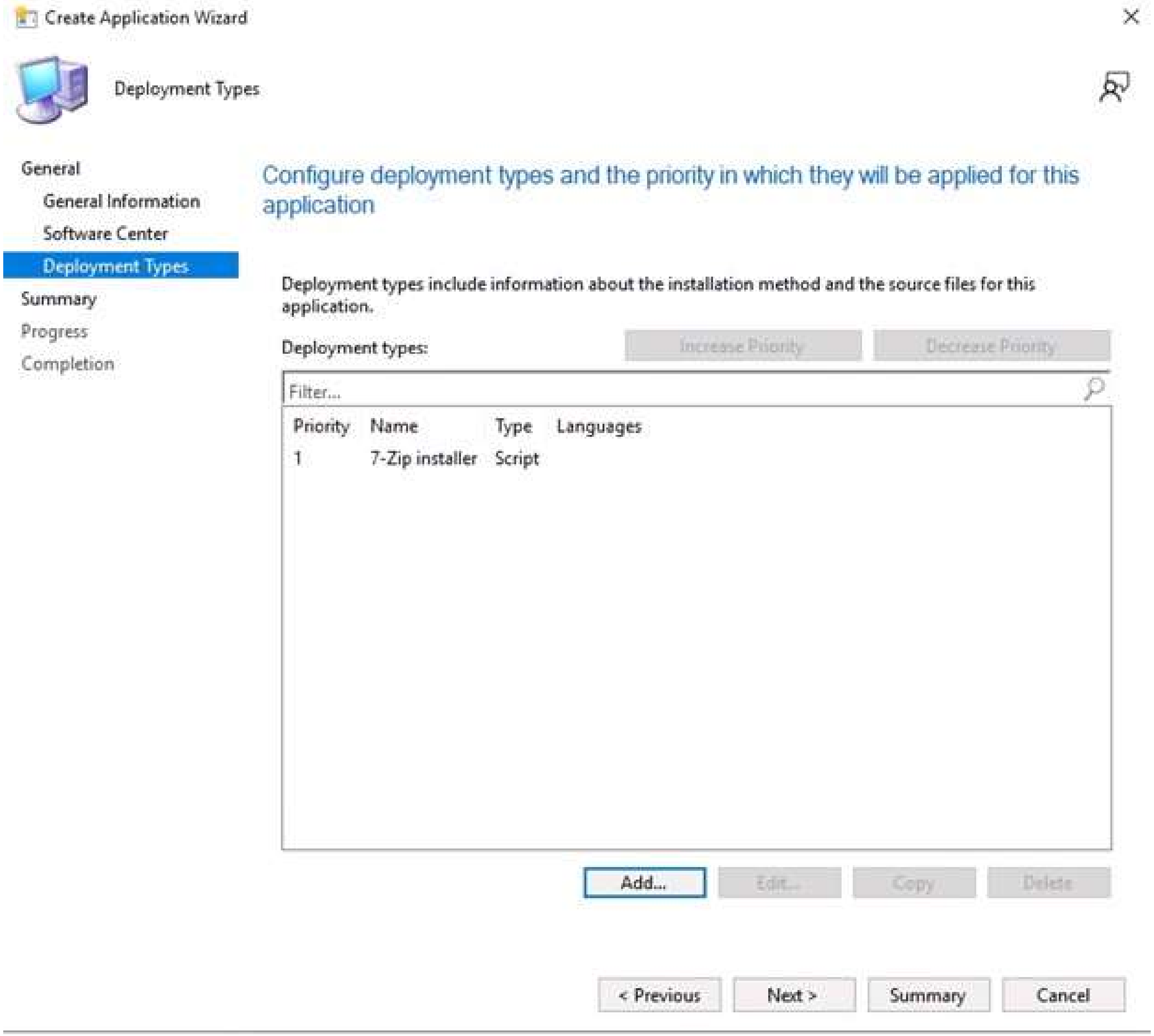
Detection Method:

User Experience:
- Installation behavior: Install for user
- Login requirement: Only when a user is logged on
- Installation priority: Normal
- Allow users to interact with this program: Yes
- Maximum allowed run time (minutes): 120
- Estimated install time (minutes): 0

Requirements:

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

8) Verify 7-Zip deployment type with priority



Create Application Wizard

Deployment Types

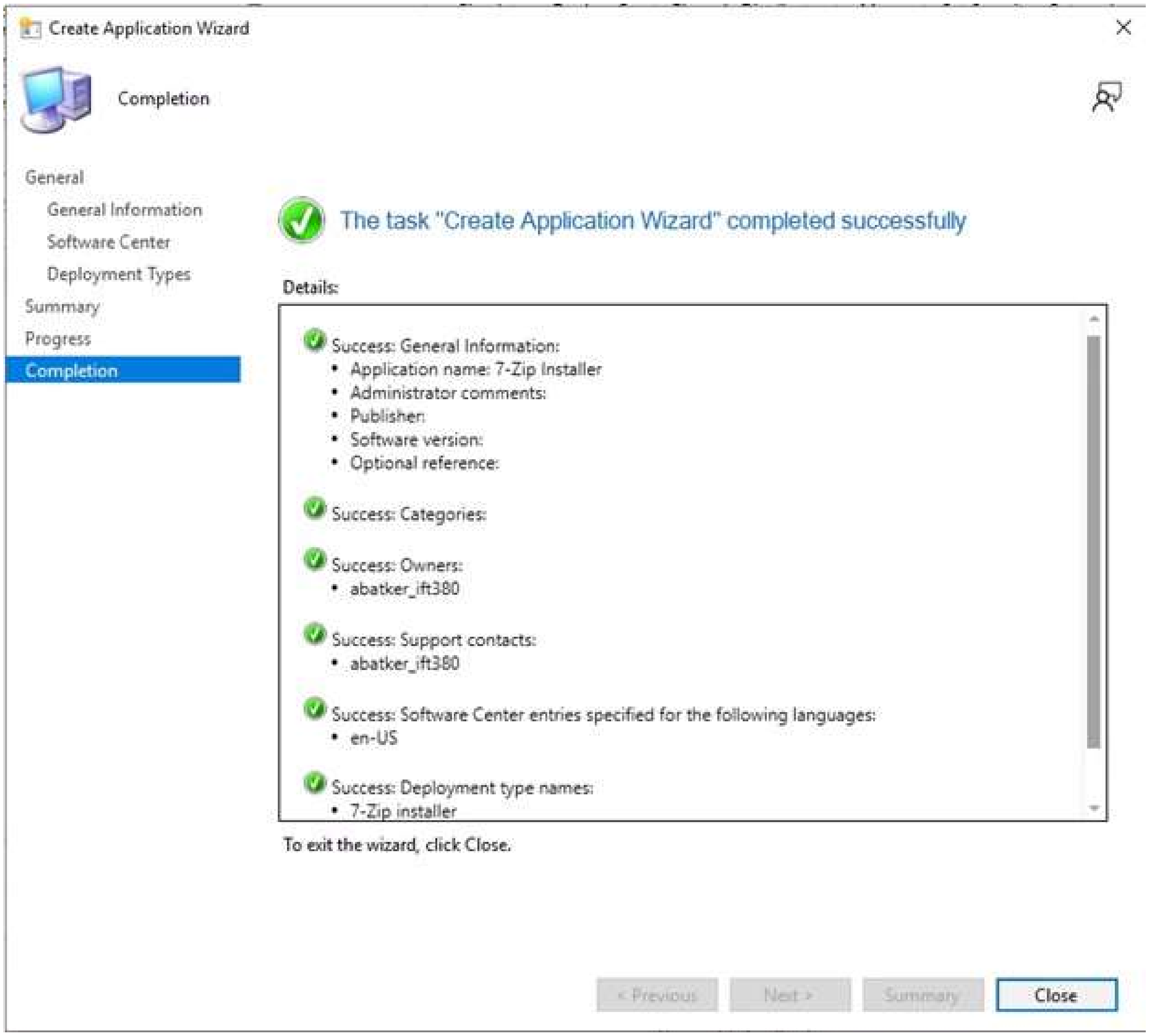
Configure deployment types and the priority in which they will be applied for this application

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

Deployment types:

Priority	Name	Type	Languages
1	7-Zip installer	Script	

9) Complete application creation wizard



The task "Create Application Wizard" completed successfully

Details:

✓ Success: General Information:
- Application name: 7-Zip Installer
- Administrator comments:
- Publisher:
- Software version:
- Optional reference:

✓ Success: Categories:

✓ Success: Owners:
- abatker_ift380

✓ Success: Support contacts:
- abatker_ift380

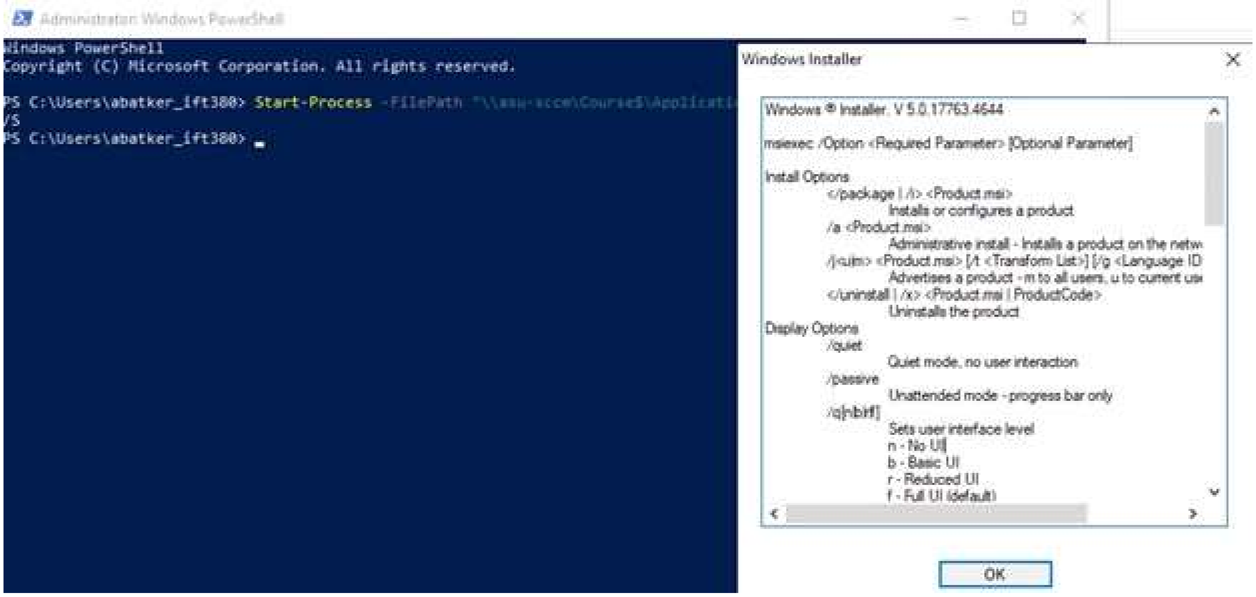
✓ Success: Software Center entries specified for the following languages:
- en-US

✓ Success: Deployment type names:
- 7-Zip installer

To exit the wizard, click Close.

Part 2: Testing

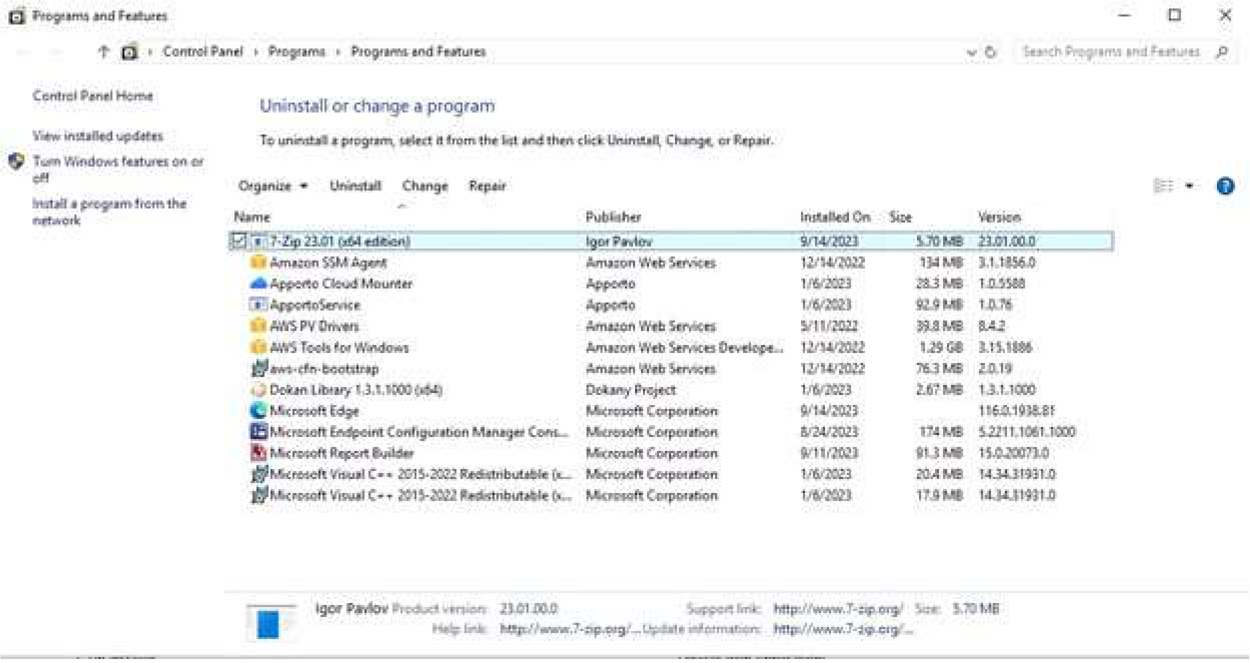
1) Verify the installation worked after running script



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\abatker_ift380> Start-Process -FilePath "\\asu-sccm\Course$\Applicati
/S
PS C:\Users\abatker_ift380> _
```

```
Windows ® Installer. V 5.0.17763.4644

msiexec /Option <Required Parameter> [Optional Parameter]

Install Options
        </package | /i> <Product.msi>
                Installs or configures a product
        /a <Product.msi>
                Administrative install - Installs a product on the netw
        /j<u|m> <Product.msi> [/t <Transform List>] [/g <Language ID
                Advertises a product - m to all users, u to current us
        </uninstall | /x> <Product.msi | ProductCode>
                Uninstalls the product
Display Options
        /quiet
                Quiet mode, no user interaction
        /passive
                Unattended mode - progress bar only
        /q[n|b|r|f]
                Sets user interface level
                n - No UI
                b - Basic UI
                r - Reduced UI
                f - Full UI (default)
```

2) Verify if 7-Zip can be uninstalled



Programs and Features
Control Panel › Programs › Programs and Features
Search Programs and Features
Control Panel Home
View installed updates
Turn Windows features on or off
Install a program from the network
Uninstall or change a program

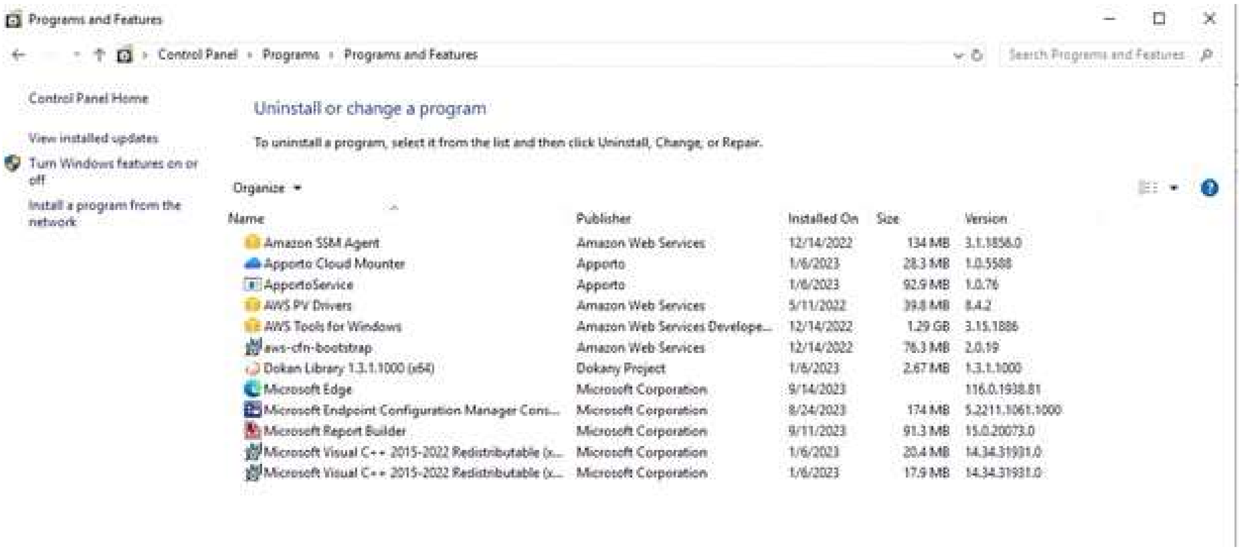
To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.

Organize ▾
Uninstall
Change
Repair

Name	Publisher	Installed On	Size	Version
☑ 7-Zip 23.01 (x64 edition)	Igor Pavlov	9/14/2023	5.70 MB	23.01.00.0
Amazon SSM Agent	Amazon Web Services	12/14/2022	134 MB	3.1.1856.0
Apporto Cloud Mounter	Apporto	1/6/2023	28.3 MB	1.0.5588
ApportoService	Apporto	1/6/2023	92.9 MB	1.0.76
AWS PV Drivers	Amazon Web Services	5/11/2022	39.8 MB	8.4.2
AWS Tools for Windows	Amazon Web Services Develope...	12/14/2022	1.29 GB	3.15.1886
aws-cfn-bootstrap	Amazon Web Services	12/14/2022	76.3 MB	2.0.19
Dokan Library 1.3.1.1000 (x64)	Dokany Project	1/6/2023	2.67 MB	1.3.1.1000
Microsoft Edge	Microsoft Corporation	9/14/2023		116.0.1938.81
Microsoft Endpoint Configuration Manager Cons...	Microsoft Corporation	8/24/2023	174 MB	5.2211.1061.1000
Microsoft Report Builder	Microsoft Corporation	9/11/2023	91.3 MB	15.0.20073.0
Microsoft Visual C++ 2015-2022 Redistributable (x...	Microsoft Corporation	1/6/2023	20.4 MB	14.34.31931.0
Microsoft Visual C++ 2015-2022 Redistributable (x...	Microsoft Corporation	1/6/2023	17.9 MB	14.34.31931.0

Igor Pavlov Product version: 23.01.00.0 Support link: http://www.7-zip.org/ Size: 5.70 MB
Help link: http://www.7-zip.org/... Update information: http://www.7-zip.org/...

3) Verify removal of the application was successful by visiting Control Panel > Programs


Programs and Features
Control Panel > Programs > Programs and Features
Search Programs and Features
Control Panel Home
View installed updates
Turn Windows features on or off
Install a program from the network
Organize

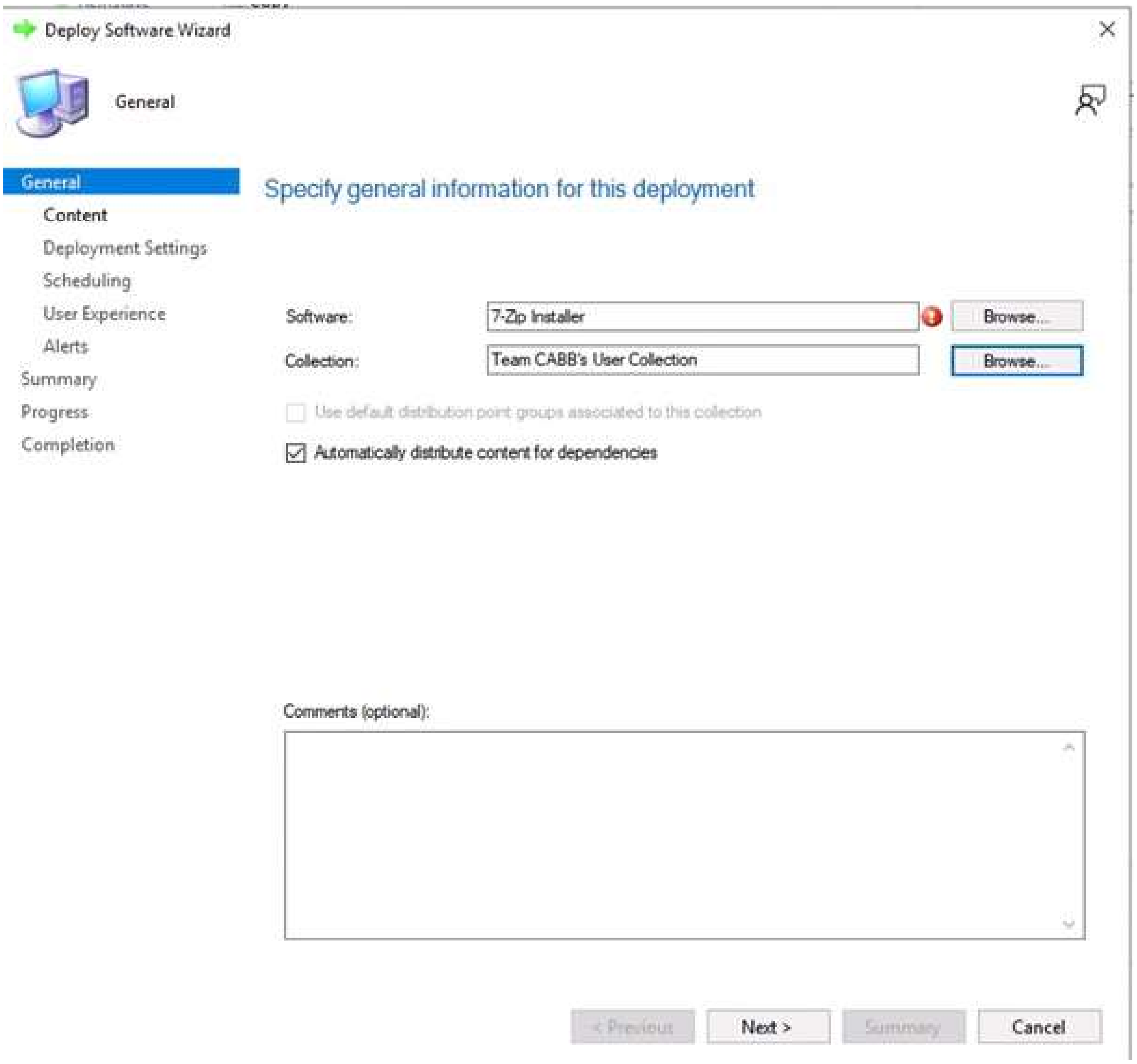
Uninstall or change a program

To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.

Name	Publisher	Installed On	Size	Version
Amazon SSM Agent	Amazon Web Services	12/14/2022	134 MB	3.1.1856.0
Apporto Cloud Mounter	Apporto	1/6/2023	28.3 MB	1.0.5588
ApportoService	Apporto	1/6/2023	92.9 MB	1.0.76
AWS PV Drivers	Amazon Web Services	5/11/2022	39.8 MB	8.4.2
AWS Tools for Windows	Amazon Web Services Develope...	12/14/2022	1.29 GB	3.15.1886
aws-cfn-bootstrap	Amazon Web Services	12/14/2022	76.3 MB	2.0.19
Dokan Library 1.3.1.1000 (x64)	Dokany Project	1/6/2023	2.67 MB	1.3.1.1000
Microsoft Edge	Microsoft Corporation	9/14/2023		116.0.1938.81
Microsoft Endpoint Configuration Manager Cons...	Microsoft Corporation	8/24/2023	174 MB	5.2211.1061.1000
Microsoft Report Builder	Microsoft Corporation	9/11/2023	91.3 MB	15.0.20073.0
Microsoft Visual C++ 2015-2022 Redistributable (x...	Microsoft Corporation	1/6/2023	20.4 MB	14.34.31931.0
Microsoft Visual C++ 2015-2022 Redistributable (x...	Microsoft Corporation	1/6/2023	17.9 MB	14.34.31931.0

Part 3: Deployment

1) Choose respective *User* Collection



Specify general information for this deployment

Software: 7-Zip Installer

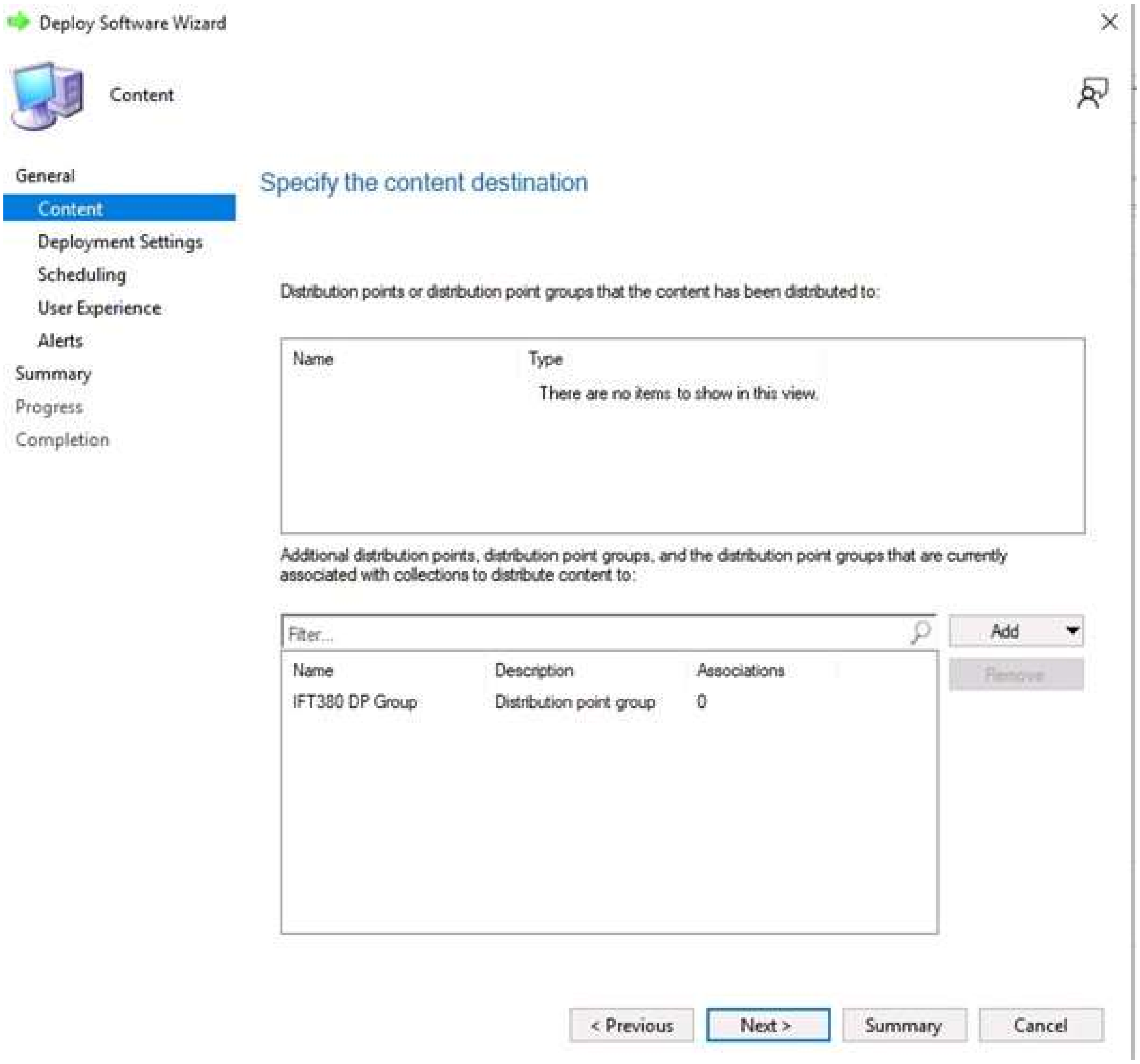
Collection: Team CABB's User Collection

□ Use default distribution point groups associated to this collection

☑ Automatically distribute content for dependencies

Comments (optional):

2) Choose the Lab DP Group



Specify the content destination

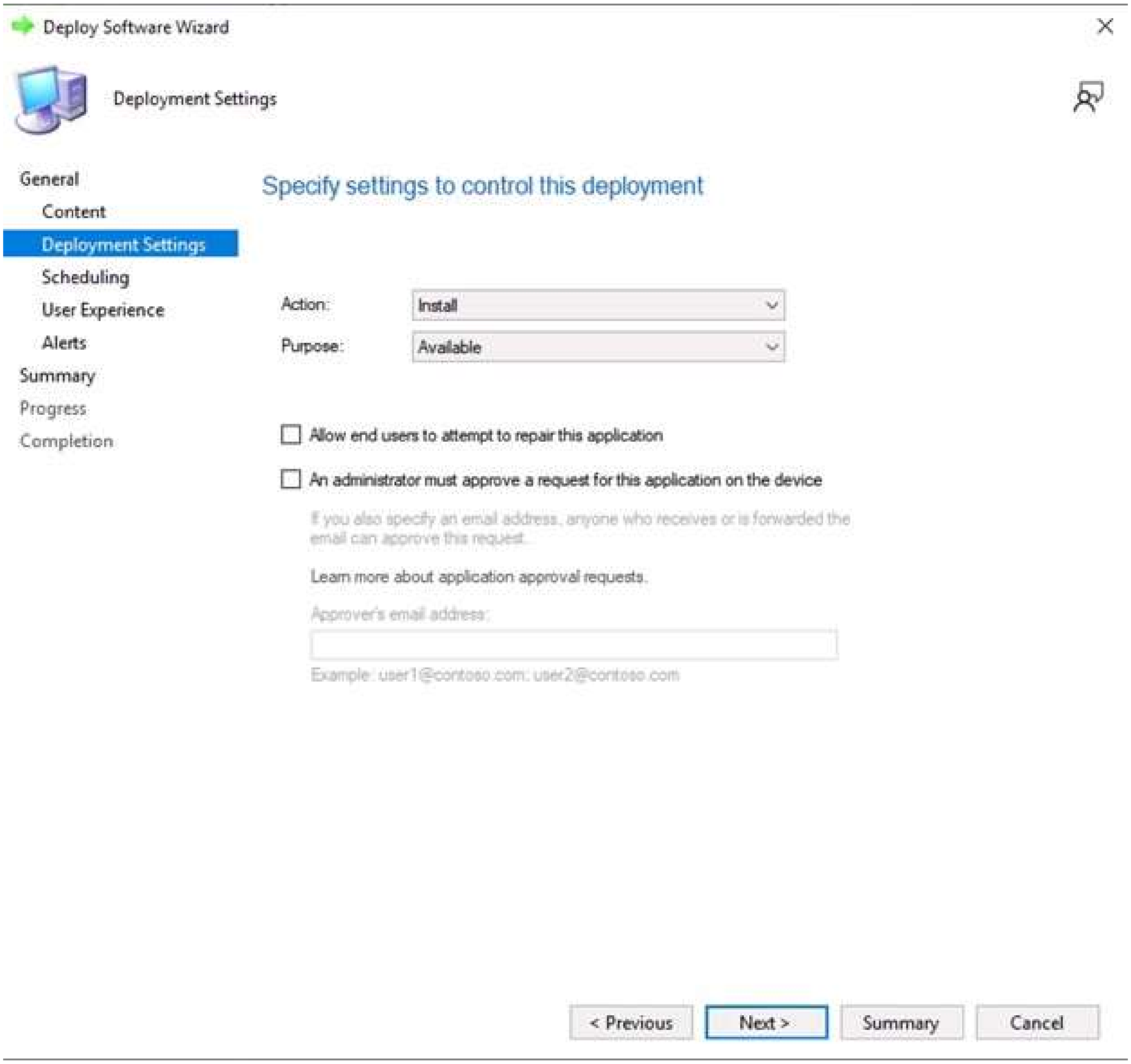
Distribution points or distribution point groups that the content has been distributed to:

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

Additional distribution points, distribution point groups, and the distribution point groups that are currently associated with collections to distribute content to:

Name	Description	Associations
IFT380 DP Group	Distribution point group	0

3) Make 7-Zip Available and does not require Approval from Admin



Deploy Software Wizard

Deployment Settings

Specify settings to control this deployment

Action: Install

Purpose: Available

□ Allow end users to attempt to repair this application

□ An administrator must approve a request for this application on the device

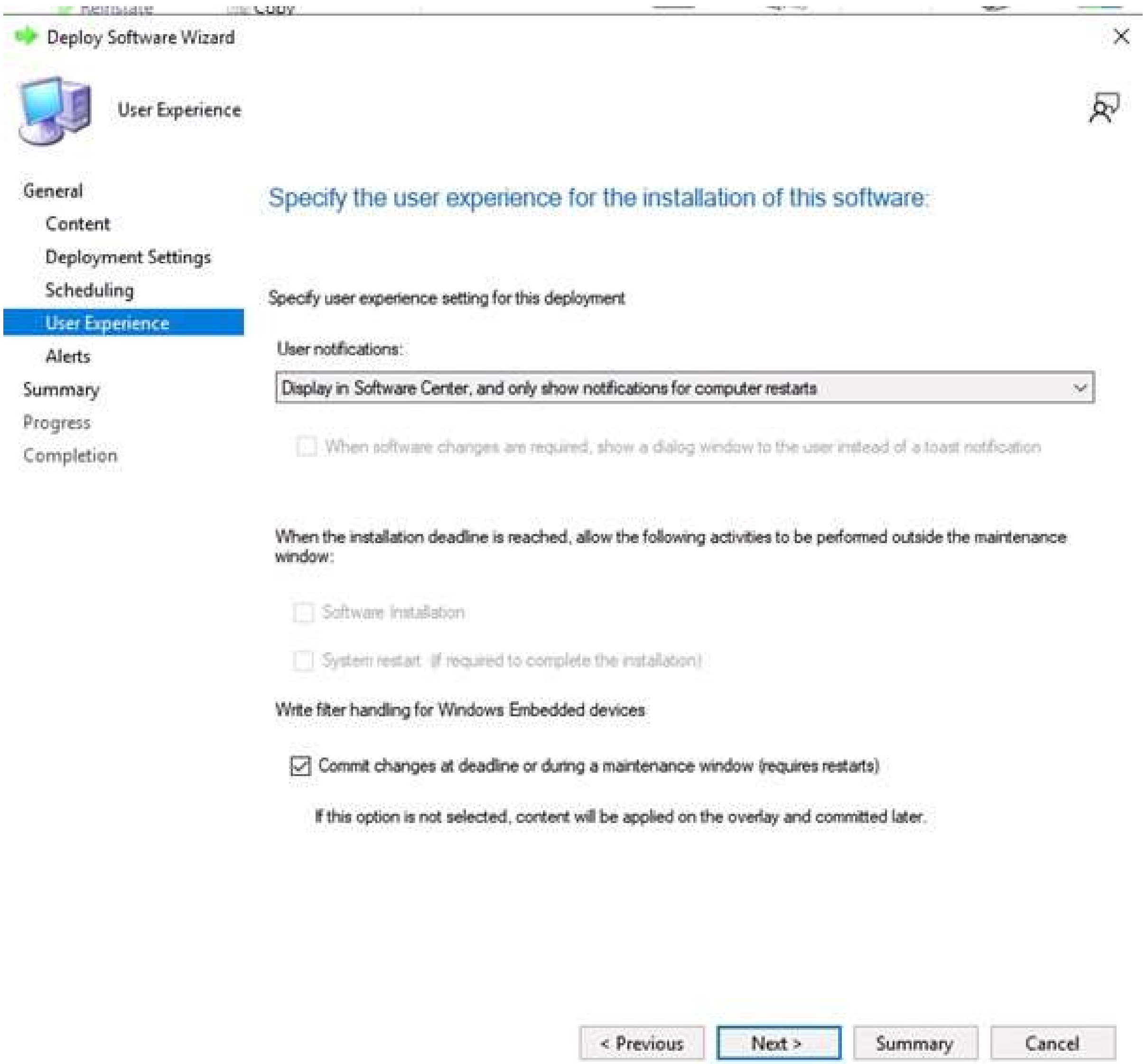
If you also specify an email address, anyone who receives or is forwarded the email can approve this request.

Learn more about application approval requests.

Approver's email address:

Example: user1@contoso.com; user2@contoso.com

4) UX as only show notifications for computer restarts



Specify the user experience for the installation of this software:

Specify user experience setting for this deployment

User notifications:

Display in Software Center, and only show notifications for computer restarts

□ When software changes are required, show a dialog window to the user instead of a toast notification

When the installation deadline is reached, allow the following activities to be performed outside the maintenance window:

□ Software Installation

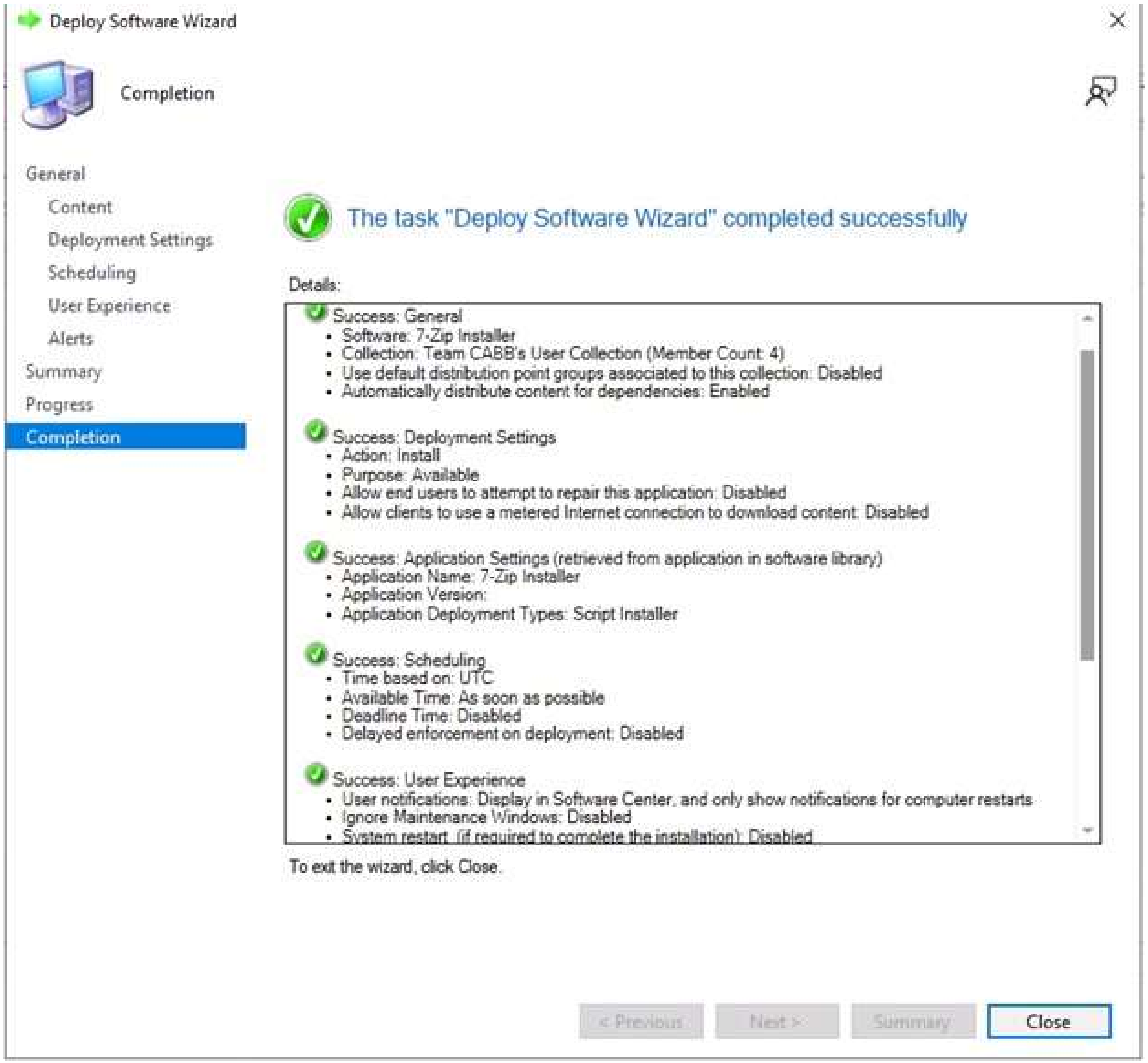
□ System restart (if required to complete the installation)

Write filter handling for Windows Embedded devices

☑ Commit changes at deadline or during a maintenance window (requires restarts)

If this option is not selected, content will be applied on the overlay and committed later.

5) Check summary and complete the software deployment



The task "Deploy Software Wizard" completed successfully

Details:

✓ Success: General
- Software: 7-Zip Installer
- Collection: Team CABB's User Collection (Member Count: 4)
- Use default distribution point groups associated to this collection: Disabled
- Automatically distribute content for dependencies: Enabled

✓ Success: Deployment Settings
- Action: Install
- Purpose: Available
- Allow end users to attempt to repair this application: Disabled
- Allow clients to use a metered Internet connection to download content: Disabled

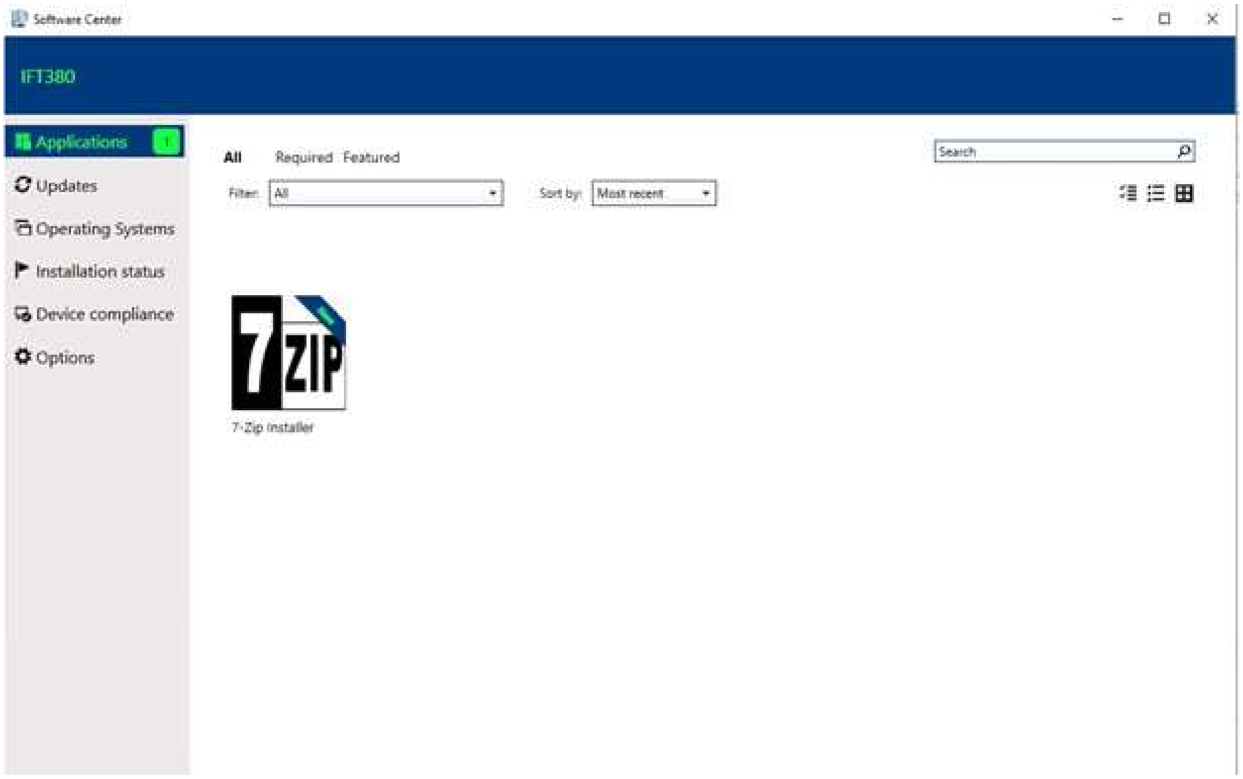
✓ Success: Application Settings (retrieved from application in software library)
- Application Name: 7-Zip Installer
- Application Version:
- Application Deployment Types: Script Installer

✓ Success: Scheduling
- Time based on: UTC
- Available Time: As soon as possible
- Deadline Time: Disabled
- Delayed enforcement on deployment: Disabled

✓ Success: User Experience
- User notifications: Display in Software Center, and only show notifications for computer restarts
- Ignore Maintenance Windows: Disabled
- System restart (if required to complete the installation): Disabled

To exit the wizard, click Close.

6) Application shown in Software Center

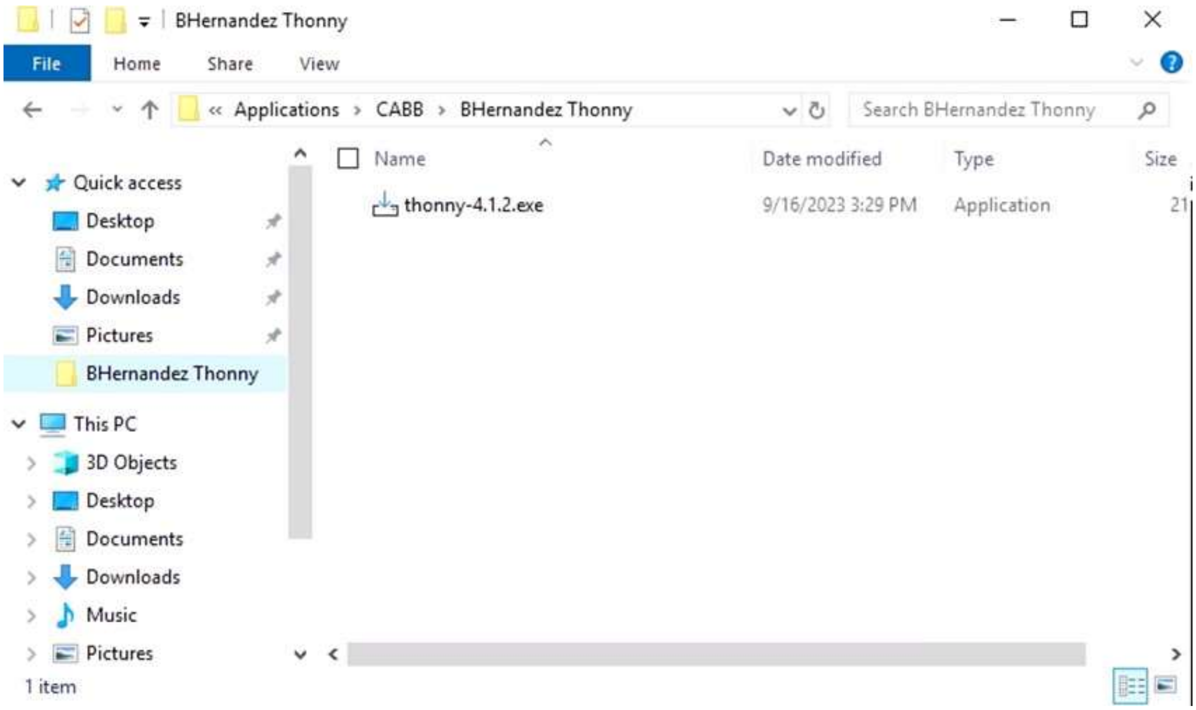


Thonny Deployment

1. For this Application we're going to Install Thonny, a simple python IED, with the following deployment configurations.

Application	Available or Required	Device Collection of User Collection	Use Approval (Yes/No)
Thonny	Required	Device	No

2. First, we'll install Thonny from the website to get the installer and copy that into our folder on the network.

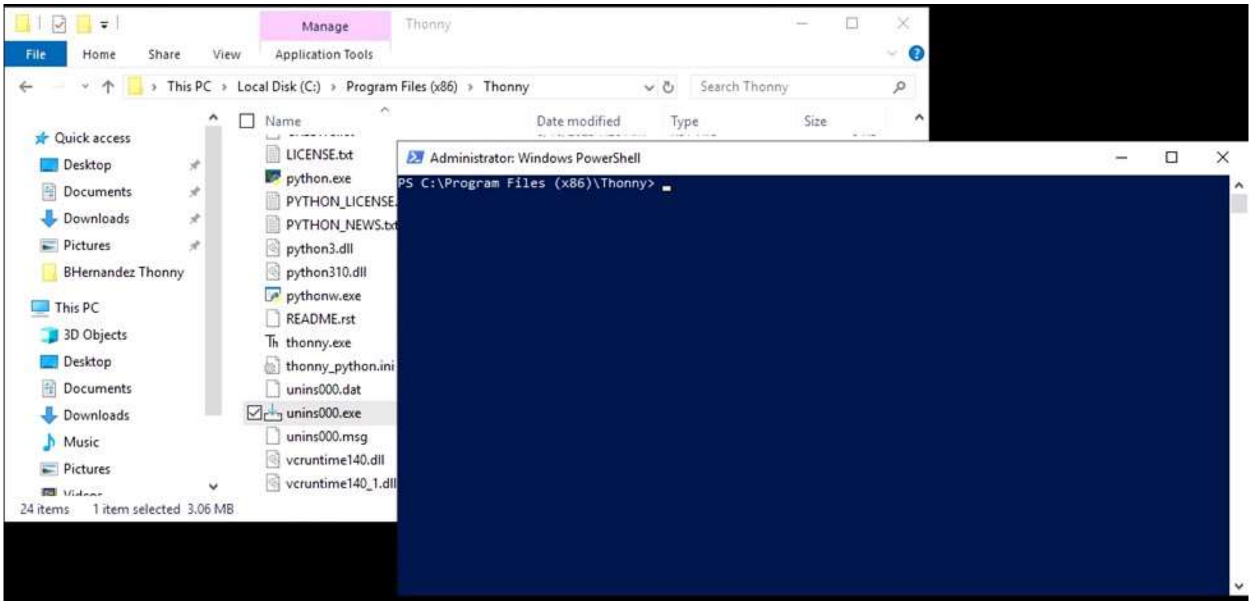


Name	Date modified	Type	Size
thonny-4.1.2.exe	9/16/2023 3:29 PM	Application	21

3. Next, we’ll want to find out how to Silently Install the program. For this we can look up its documentation for look at its commands over power shell. We’ll do PowerShell for this example and run this command [.\thonny-4.1.2.exe /?] To pull up its documentation.

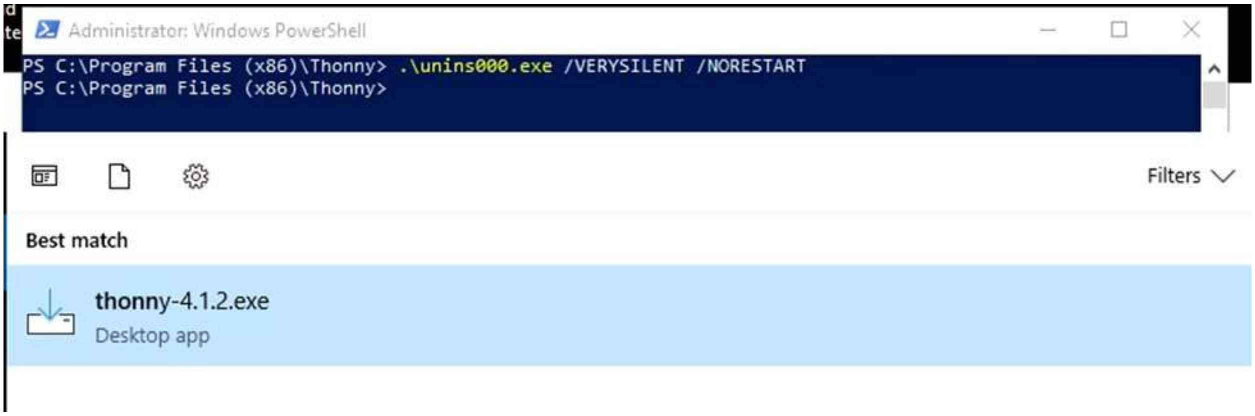
4. We will pick a few command parameters: /VERYSILENT /NORESTART /ALLUSERS. Now with these, we’ll try to run the installation in PowerShell and see if it works. Which it does. We’ll take this command and store it for later use.

5. Now we’ll for on the uninstall, For this find the Thonny fold where it’s installed, for this case it installs in Program Files (x86), and here we want to find the uninstall exe which looks like this: unins000.exe. Once we find it we’ll open a new PowerShell in this directory.



```
PS C:\Program Files (x86)\Thonny>
```

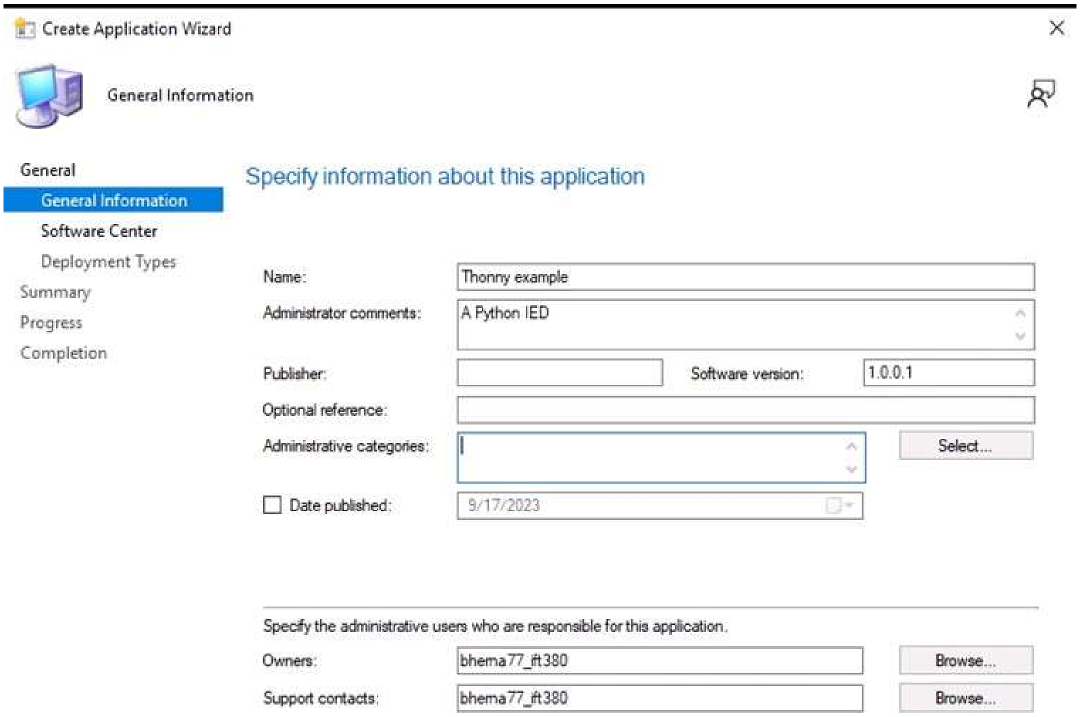
6. Now we’ll try to find some parameters to silently uninstall Thonny. We’ll use /VERYSILENT /NORESTART for our parameters, our PowerShell command will look like .\unins000.exe /VERYSILENT /NORESTART.



```
PS C:\Program Files (x86)\Thonny> .\unins000.exe /VERYSILENT /NORESTART
PS C:\Program Files (x86)\Thonny>
```

7. Now we'll open the configuration manager and start the Create application wizard, loading it with the information we have.

8. Since Thonny is a .exe we'll **Manually specify the application information.** Now we'll fill in some basic information.



Specify information about this application

Name: Thonny example

Administrator comments: A Python IED

Publisher:

Software version: 1.0.0.1

Optional reference:

Administrative categories:

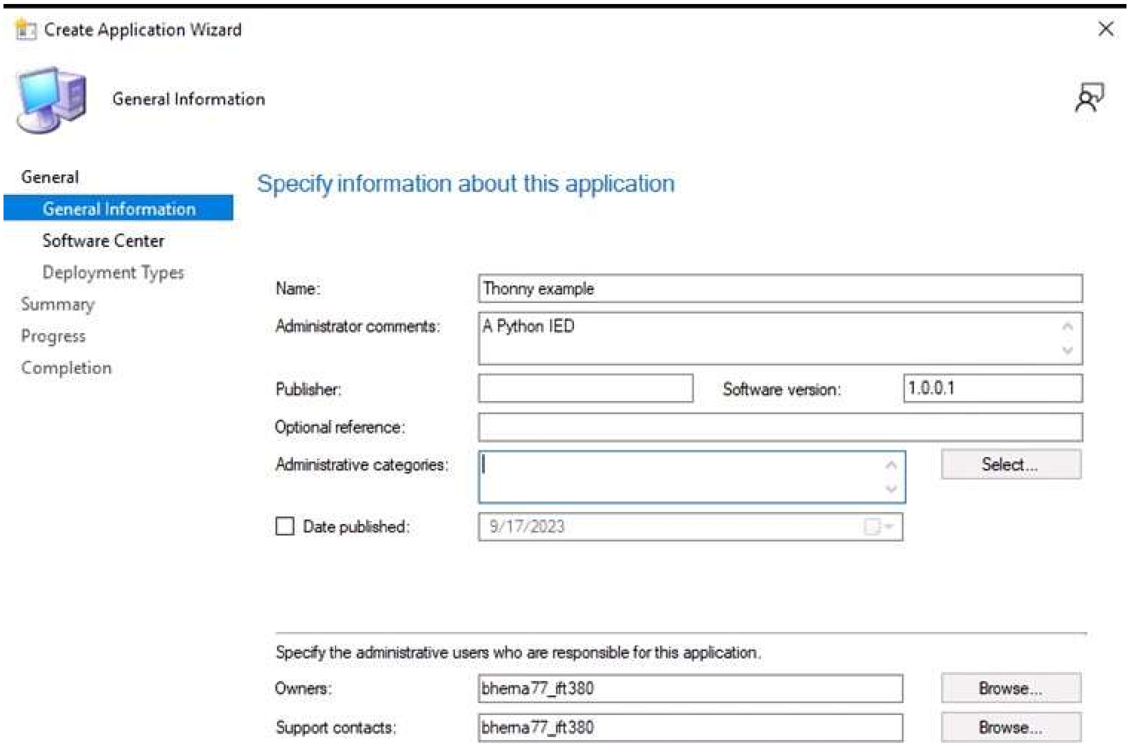
☐ Date published: 9/17/2023

Specify the administrative users who are responsible for this application.

Owners: bhema77_ift380

Support contacts: bhema77_ift380

9. Now we'll fill in the software center information.



Specify information about this application

Name: Thonny example

Administrator comments: A Python IED

Publisher:

Software version: 1.0.0.1

Optional reference:

Administrative categories:

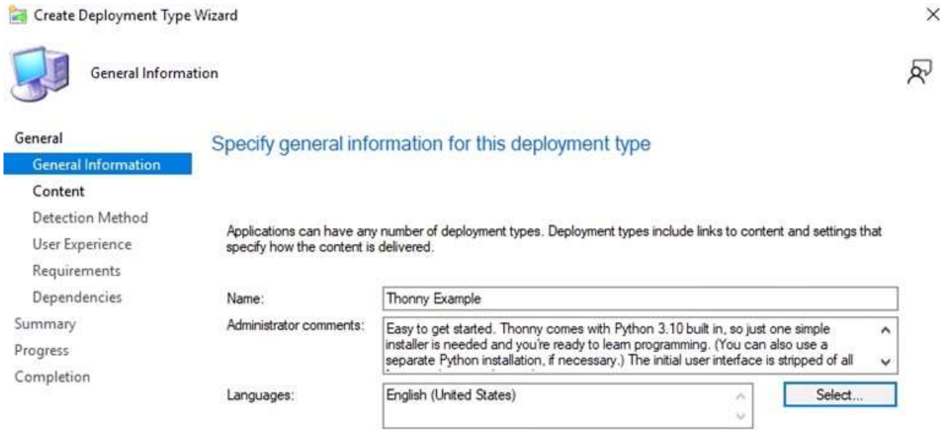
☐ Date published: 9/17/2023

Specify the administrative users who are responsible for this application.

Owners: bhema77_ift380

Support contacts: bhema77_ift380

10. Now we'll add a deployment type: **Script Installer**. Then fill out the General Information page.



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: Thonny Example

Administrator comments: Easy to get started. Thonny comes with Python 3.10 built in, so just one simple installer is needed and you're ready to learn programming. (You can also use a separate Python installation, if necessary.) The initial user interface is stripped of all

Languages: English (United States)

11. Now we’ll enter the network installer location:

\\asu-sccm\Course$\Applications\CABB\

12. Now the Installation program that is located in the network with parameters:

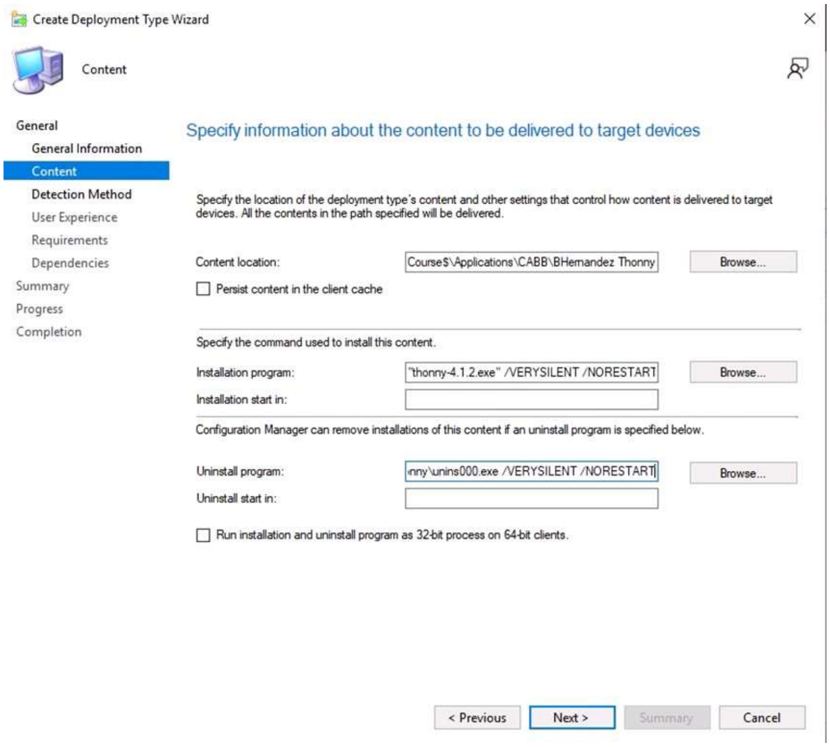
"thonny-4.1.2.exe" /VERYSILENT /NORESTART /ALLUSERS

13. Now the Uninstall program with parameters.

Note: This is the location for the uninstaller on the local machine and we use % so that regardless of where the Windows install is the program file will always be located here.

%ProgramFiles(x86)%\Thonny\unins000.exe /VERYSILENT /NORESTART

14. It should look like this, also make sure to uncheck the 32-bit process on 64-bit Clients, because we are loading a 64-bit program.



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: Course$\Applications\CABB\BHernandez Thonny

□ Persist content in the client cache

Specify the command used to install this content.

Installation program: "thonny-4.1.2.exe" /VERYSILENT /NORESTART

Installation start in:

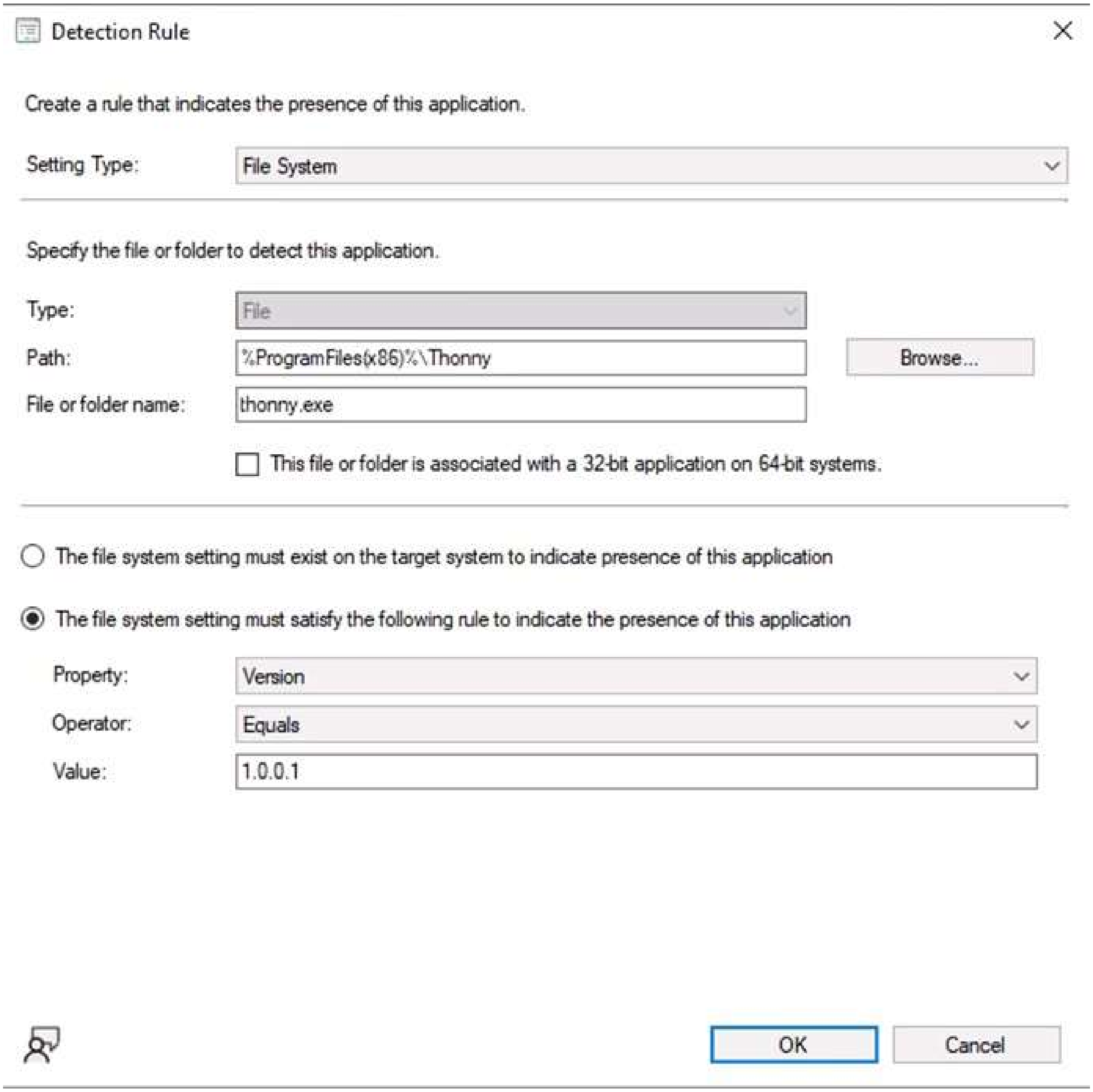
Configuration Manager can remove installations of this content if an uninstall program is specified below.

Uninstall program: nny\unins000.exe /VERYSILENT /NORESTART

Uninstall start in:

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

15. Next the detection rule, for this we'll add a clause, and, in the clause, we'll specify the file the file location Path and file name.



Detection Rule

Create a rule that indicates the presence of this application.

Setting Type: File System

Specify the file or folder to detect this application.

Type: File

Path: %ProgramFiles(x86)%\Thonny

File or folder name: thonny.exe

□ This file or folder is associated with a 32-bit application on 64-bit systems.

○ The file system setting must exist on the target system to indicate presence of this application

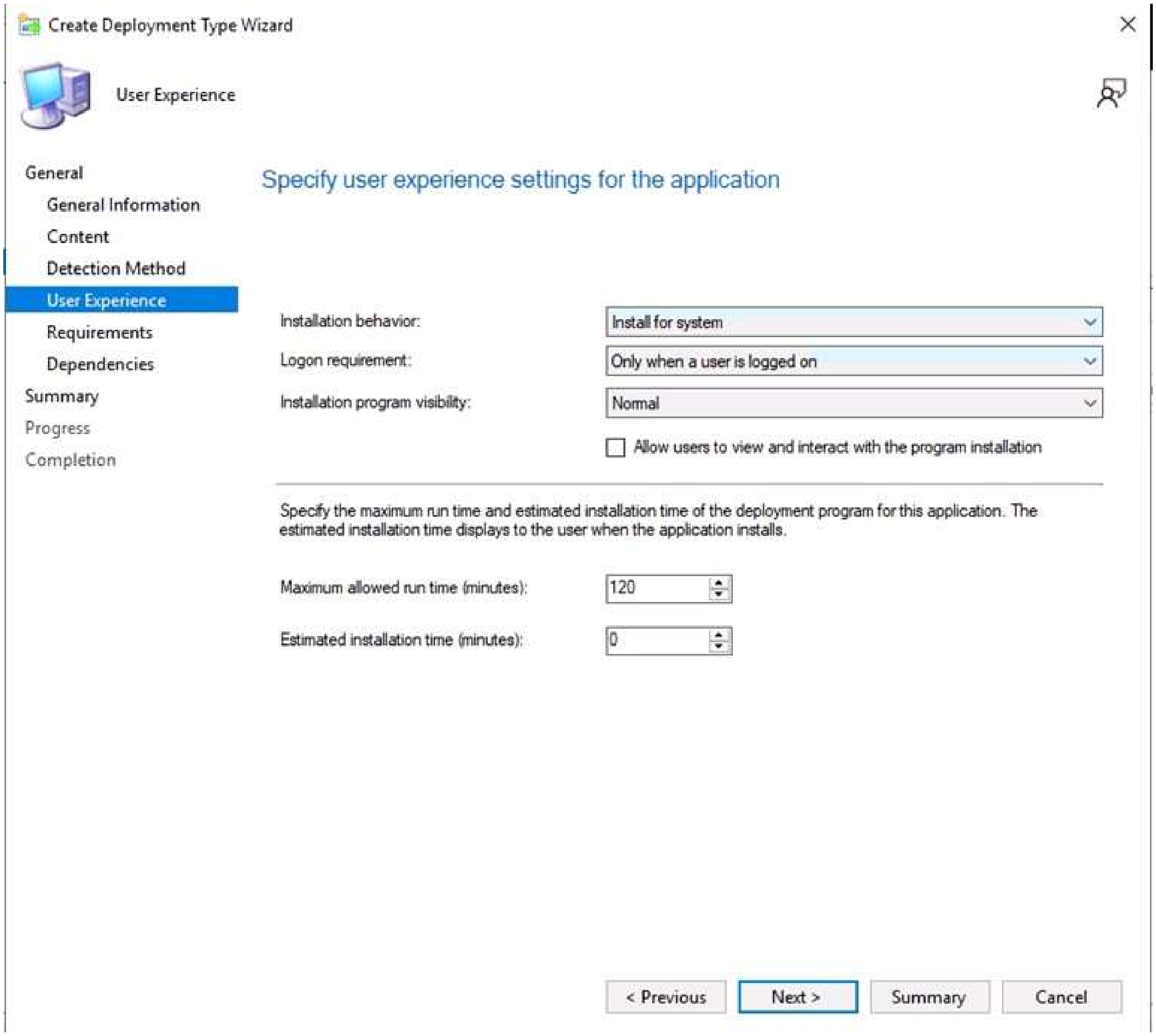
● The file system setting must satisfy the following rule to indicate the presence of this application

Property: Version

Operator: Equals

Value: 1.0.0.1

16. Hit next. Then For the user Experience section Installation behavior should be for the system.



Specify user experience settings for the application

Installation behavior: Install for system

Logon requirement: Only when a user is logged on

Installation program visibility: Normal

□ Allow users to view and interact with the program installation

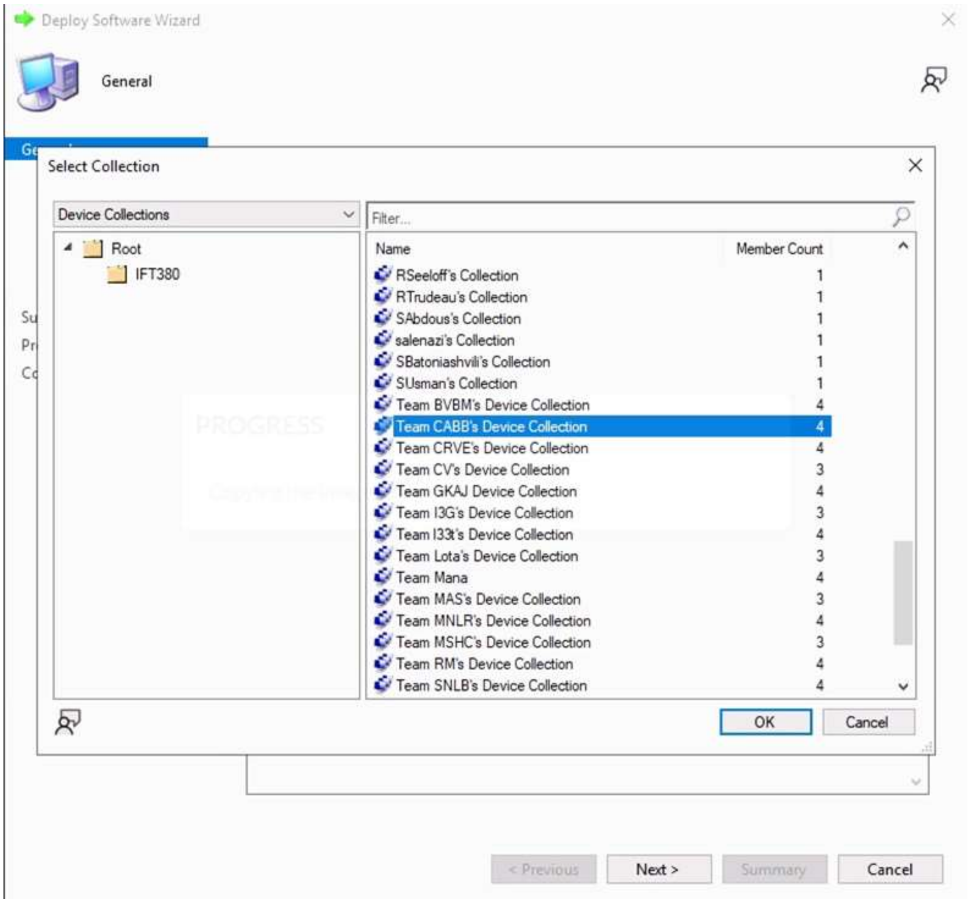
Specify the maximum run time and estimated installation time of the deployment program for this application. The estimated installation time displays to the user when the application installs.

Maximum allowed run time (minutes): 120

Estimated installation time (minutes): 0

17. Then hit next until you get back onto the Create Application Wizard. Then hit Next until the installation is complete. Now we'll deploy.

18. We'll right-click on our Thonny software and click Deploy. Change the Selection to Device and click on our team's Device Collection.

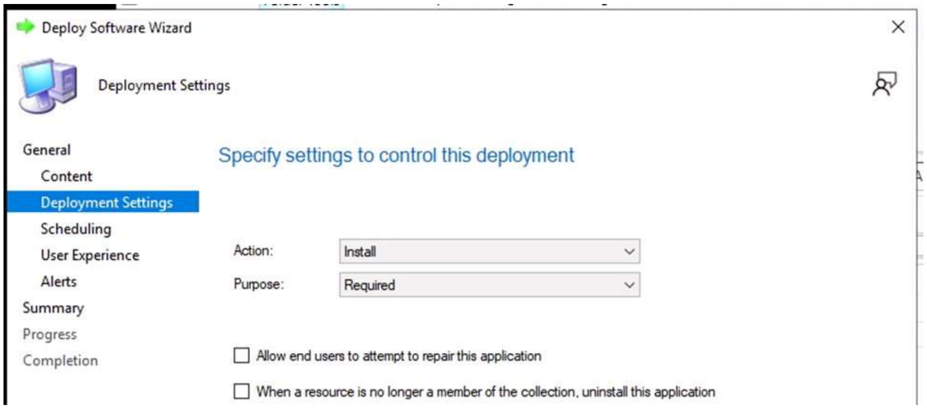


Device Collections

Filter...

Name	Member Count
RSeeloff's Collection	1
RTrudeau's Collection	1
SAbdous's Collection	1
salenazi's Collection	1
SBatoniashvili's Collection	1
SUsman's Collection	1
Team BVBM's Device Collection	4
Team CABB's Device Collection	4
Team CRVE's Device Collection	4
Team CV's Device Collection	3
Team GKAJ Device Collection	4
Team I3G's Device Collection	3
Team I33t's Device Collection	4
Team Lota's Device Collection	3
Team Mana	4
Team MAS's Device Collection	3
Team MNLR's Device Collection	4
Team MSHC's Device Collection	3
Team RM's Device Collection	4
Team SNLB's Device Collection	4

19. Hit next until you reach Deployment settings and we'll change the purpose to Required



Specify settings to control this deployment

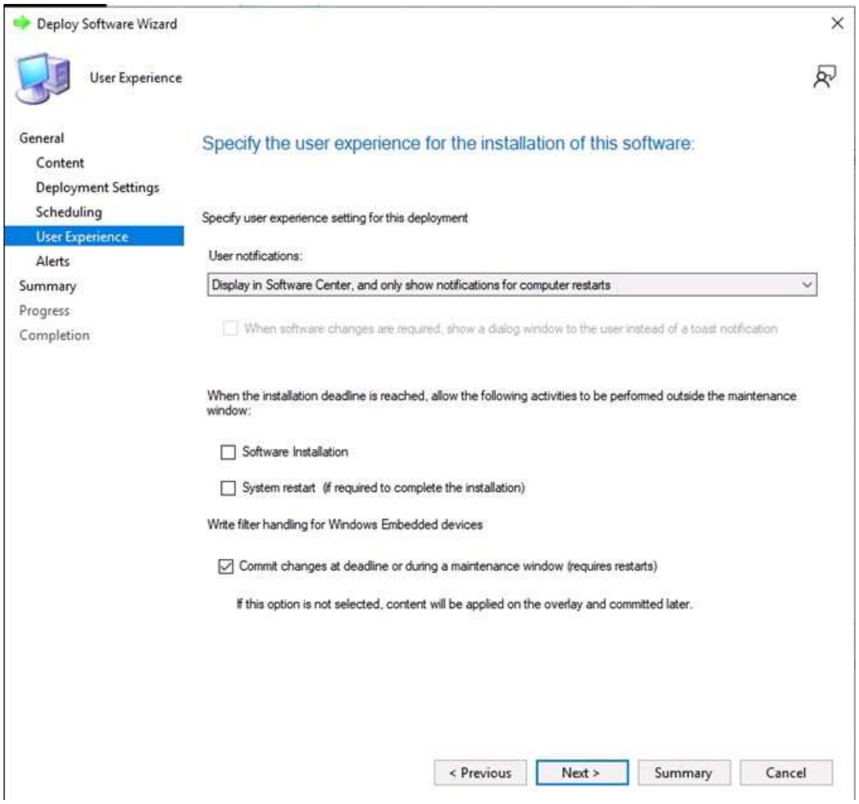
Action: Install

Purpose: Required

☐ Allow end users to attempt to repair this application

☐ When a resource is no longer a member of the collection, uninstall this application

20. Next in User Experience, Change the user notification to notify in case of restart.



Specify the user experience for the installation of this software:

Specify user experience setting for this deployment

User notifications:

Display in Software Center, and only show notifications for computer restarts

□ When software changes are required, show a dialog window to the user instead of a toast notification

When the installation deadline is reached, allow the following activities to be performed outside the maintenance window:

□ Software Installation

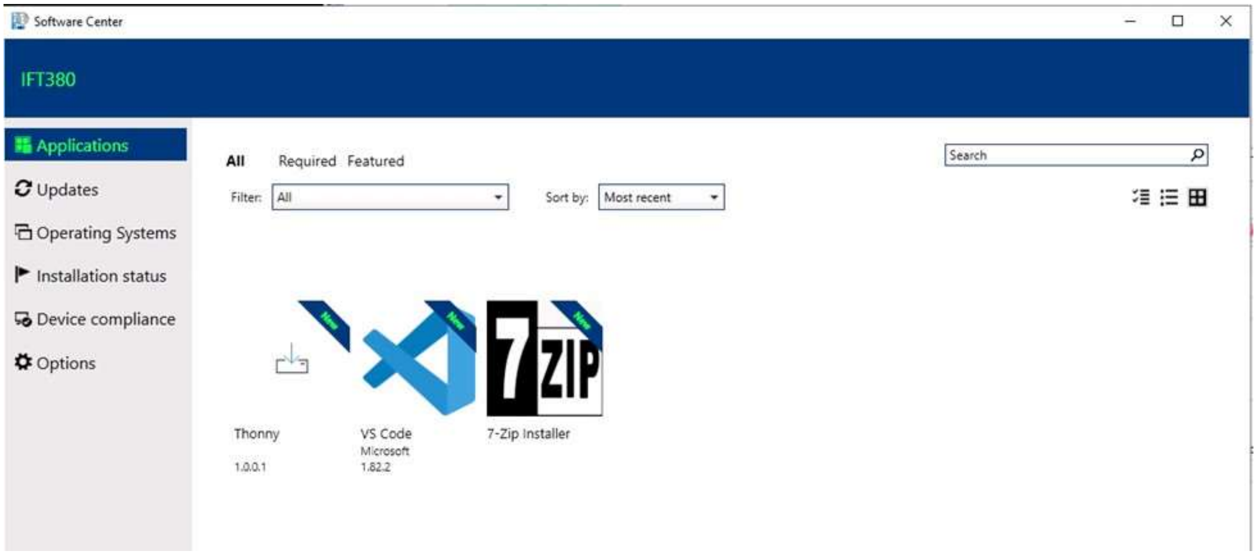
□ System restart (if required to complete the installation)

Write filter handling for Windows Embedded devices

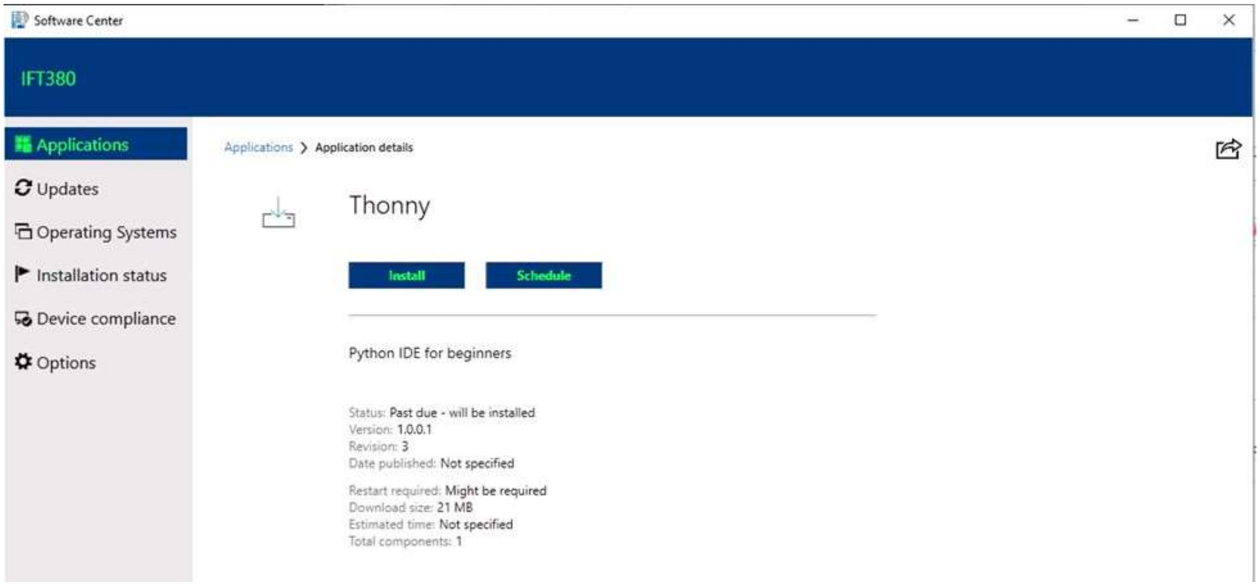
☑ Commit changes at deadline or during a maintenance window (requires restarts)

If this option is not selected, content will be applied on the overlay and committed later.

21. Then hit next until completion. At this point, Thonny should pop up in the Software Center.



22. We can install and schedule, since its required we can’t uninstall.

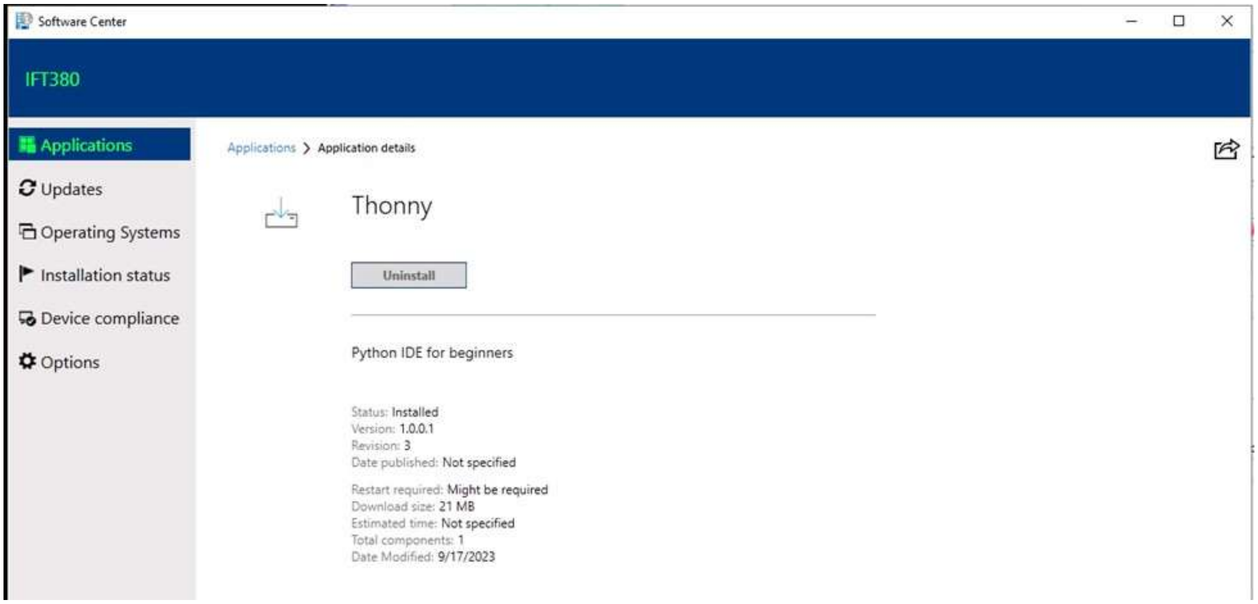


Thonny

Python IDE for beginners

Status: Past due - will be installed
Version: 1.0.0.1
Revision: 3
Date published: Not specified

Restart required: Might be required
Download size: 21 MB
Estimated time: Not specified
Total components: 1



Thonny

Python IDE for beginners

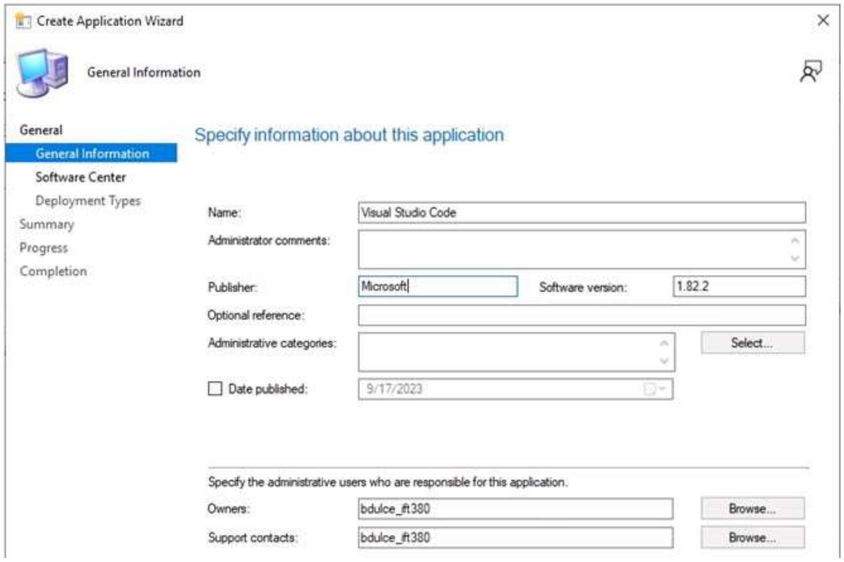
Status: Installed
Version: 1.0.0.1
Revision: 3
Date published: Not specified

Restart required: Might be required
Download size: 21 MB
Estimated time: Not specified
Total components: 1
Date Modified: 9/17/2023

Visual Studio Code Deployment

Creating a new application deployment:

Here I chose Visual Studio Code and since the installer was an .exe and not an msi, I had to manually specify the application information.



Specify information about this application

Name: Visual Studio Code

Administrator comments:

Publisher: Microsoft

Software version: 1.82.2

Optional reference:

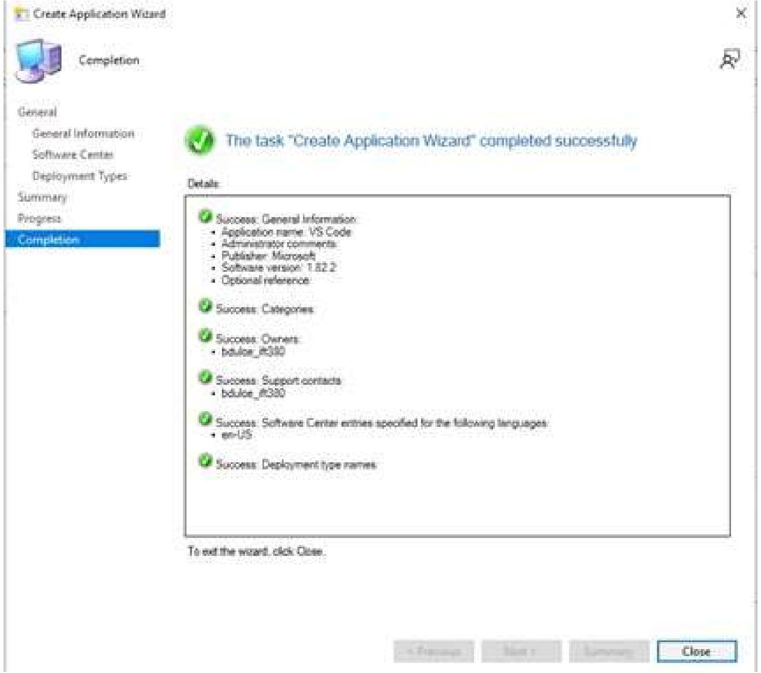
Administrative categories: Select...

□ Date published: 9/17/2023

Specify the administrative users who are responsible for this application.

Owners: bdulce_ft380 Browse...

Support contacts: bdulce_ft380 Browse...



The task "Create Application Wizard" completed successfully

Details:

Success: General Information:
- Application name: VS Code
- Administrator comments:
- Publisher: Microsoft
- Software version: 1.82.2
- Optional reference:

Success: Categories:

Success: Owners:
- bdulce_ft380

Success: Support contacts:
- bdulce_ft380

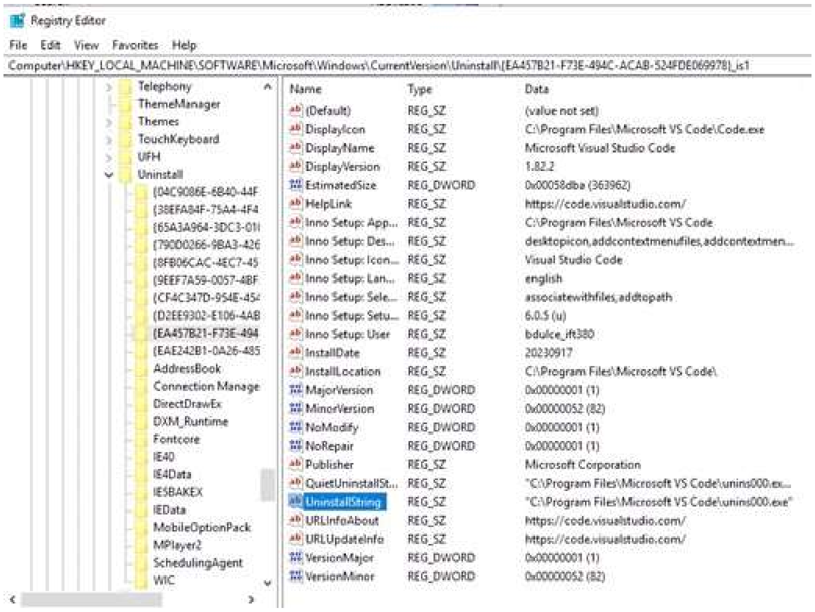
Success: Software Center entries specified for the following languages:
- en-US

Success: Deployment type names:

To exit the wizard, click Close.

Creating a deployment Type:

Here I located the UninstallString for VS Code in RegistryEditor , but it was under a folder named after its product code. From there I was able to get the uninstall string and the product code.

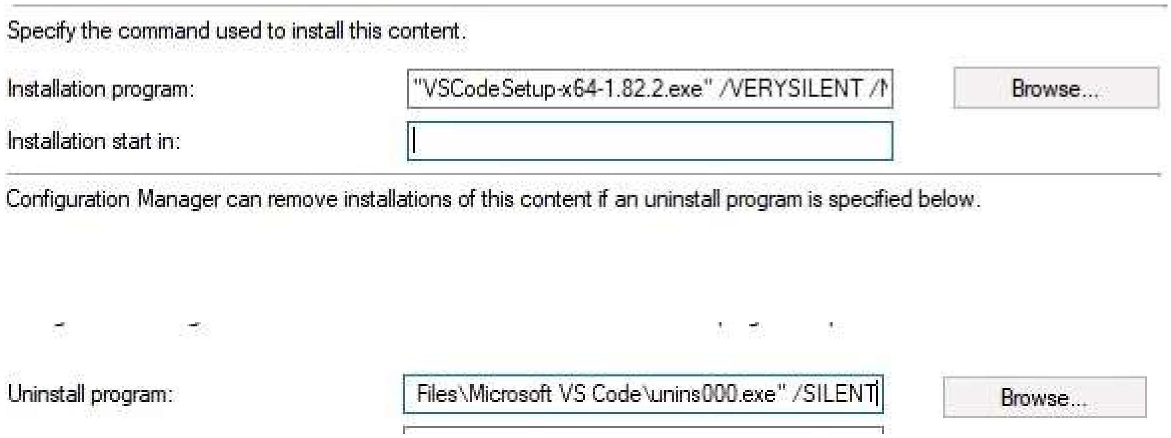


Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{EA457B21-F73E-494C-ACAB-524FDE069978}_is1

Name	Type	Data
(Default)	REG_SZ	(value not set)
DisplayIcon	REG_SZ	C:\Program Files\Microsoft VS Code\Code.exe
DisplayName	REG_SZ	Microsoft Visual Studio Code
DisplayVersion	REG_SZ	1.82.2
EstimatedSize	REG_DWORD	0x00058dba (363962)
HelpLink	REG_SZ	https://code.visualstudio.com/
Inno Setup: App...	REG_SZ	C:\Program Files\Microsoft VS Code
Inno Setup: Des...	REG_SZ	desktopicon,addcontextmenufiles,addcontextmen...
Inno Setup: Icon...	REG_SZ	Visual Studio Code
Inno Setup: Lan...	REG_SZ	english
Inno Setup: Sele...	REG_SZ	associatewithfiles,addtopath
Inno Setup: Setu...	REG_SZ	6.0.5 (u)
Inno Setup: User	REG_SZ	bdulce_ift380
InstallDate	REG_SZ	20230917
InstallLocation	REG_SZ	C:\Program Files\Microsoft VS Code\
MajorVersion	REG_DWORD	0x00000001 (1)
MinorVersion	REG_DWORD	0x00000052 (82)
NoModify	REG_DWORD	0x00000001 (1)
NoRepair	REG_DWORD	0x00000001 (1)
Publisher	REG_SZ	Microsoft Corporation
QuietUninstallSt...	REG_SZ	"C:\Program Files\Microsoft VS Code\unins000.ex...
UninstallString	REG_SZ	"C:\Program Files\Microsoft VS Code\unins000.exe"
URLInfoAbout	REG_SZ	https://code.visualstudio.com/
URLUpdateInfo	REG_SZ	https://code.visualstudio.com/
VersionMajor	REG_DWORD	0x00000001 (1)
VersionMinor	REG_DWORD	0x00000052 (82)

Deployment Type Creation:

Specifying the installation program which is the VSCODE exe setup inside the content location. To make the installation a silent install, include the following: /VERYSILENT /NORESTART /MERGTASKS=!runcode To get the uninstallstring , it’s located in the registry editor under the path: Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{EA457B21-F73E-494C-ACAB-524FDE069978}_is1 And add /silent to make it a quiet uninstall



Specify the command used to install this content.

Installation program: "VSCodeSetup-x64-1.82.2.exe" /VERYSILENT /N

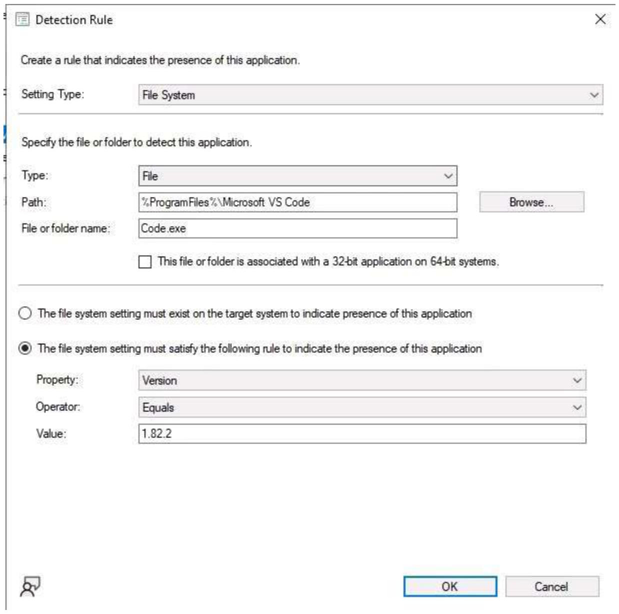
Installation start in:

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

Uninstall program: Files\Microsoft VS Code\unins000.exe" /SILENT

Creating a Detection method:

The parameter checks if VS code is installed on the computer. If the application is already present on the system, the version must equal 1.82.2 (the current version of VS Code).


Detection Rule

Create a rule that indicates the presence of this application.

Setting Type: File System

Specify the file or folder to detect this application.

Type: File

Path: %ProgramFiles%\Microsoft VS Code

File or folder name: Code.exe

□ This file or folder is associated with a 32-bit application on 64-bit systems.

○ The file system setting must exist on the target system to indicate presence of this application

● The file system setting must satisfy the following rule to indicate the presence of this application

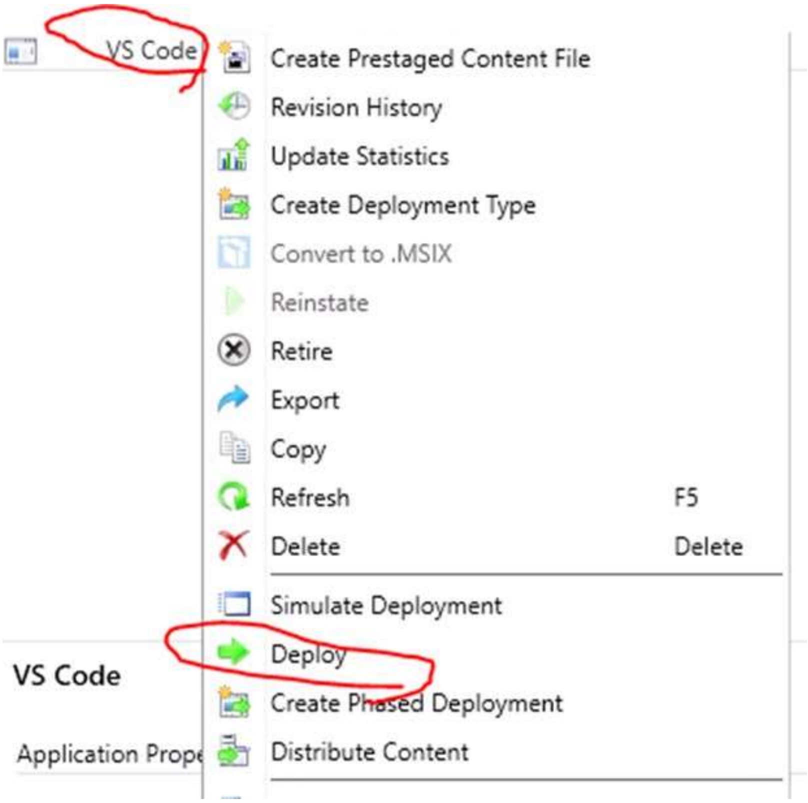
Property: Version

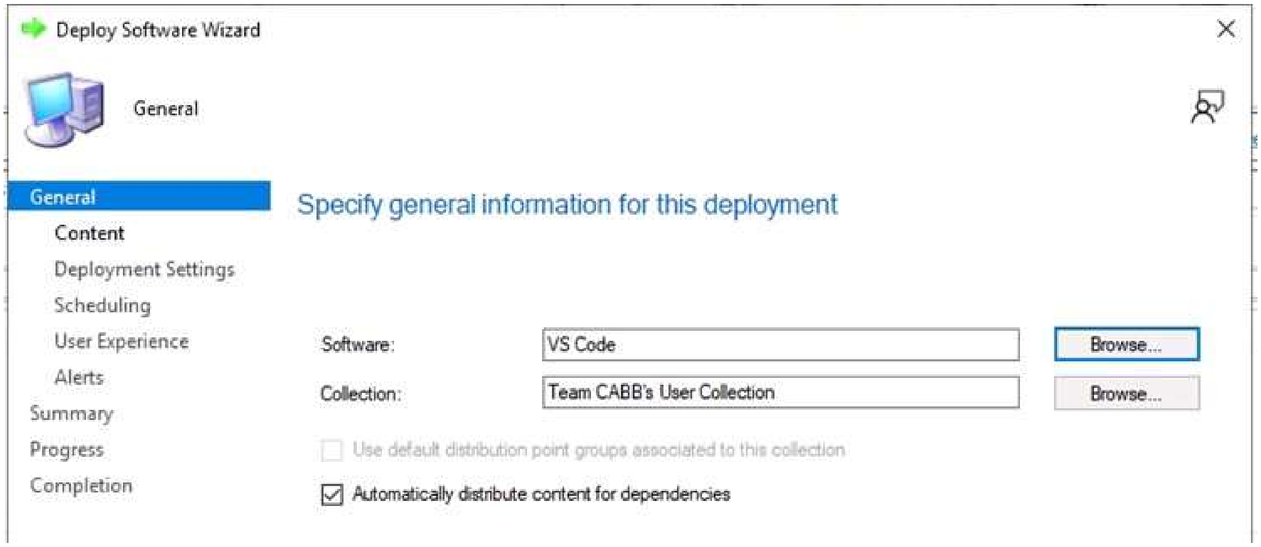
Operator: Equals

Value: 1.82.2

Deploying software Wizard:

I created a deployment by right clicking on the VS Code application and selected ‘deploy’ for CABB’s user collection.





Specify general information for this deployment

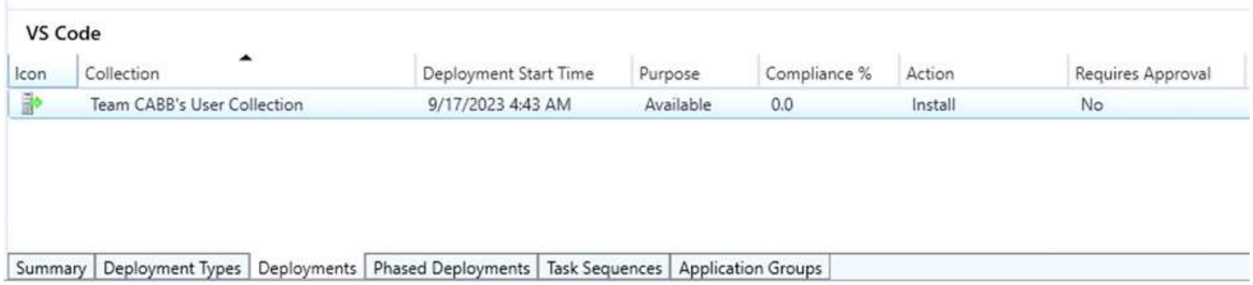
Software: VS Code

Collection: Team CABB's User Collection

□ Use default distribution point groups associated to this collection

☑ Automatically distribute content for dependencies

Created a deployment for group collection:

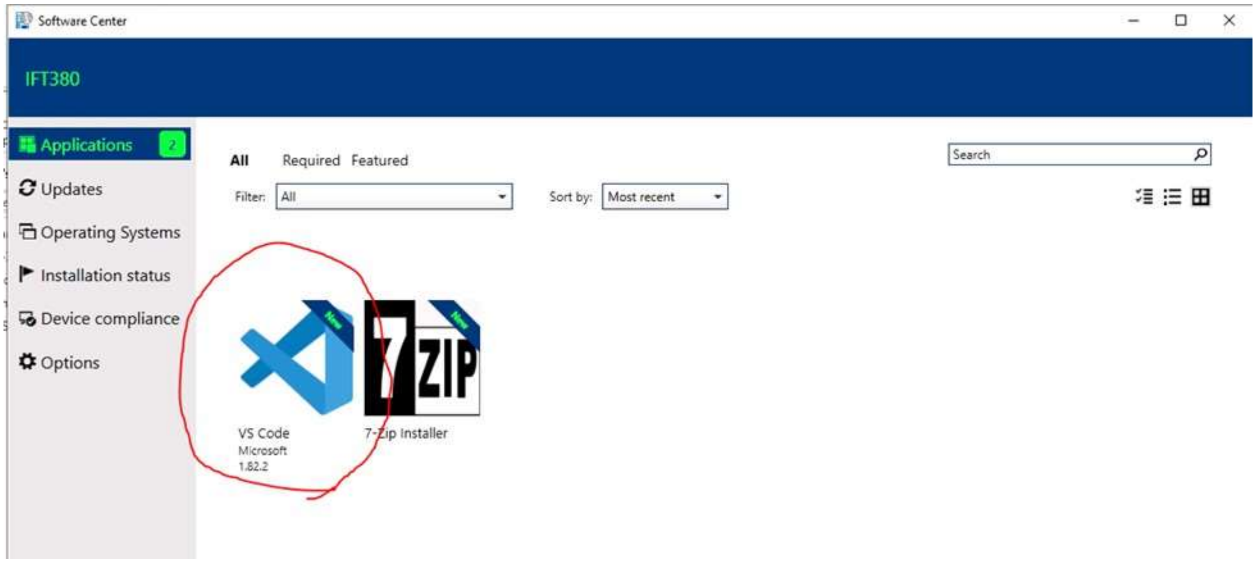


VS Code

Icon	Collection	Deployment Start Time	Purpose	Compliance %	Action	Requires Approval
	Team CABB's User Collection	9/17/2023 4:43 AM	Available	0.0	Install	No

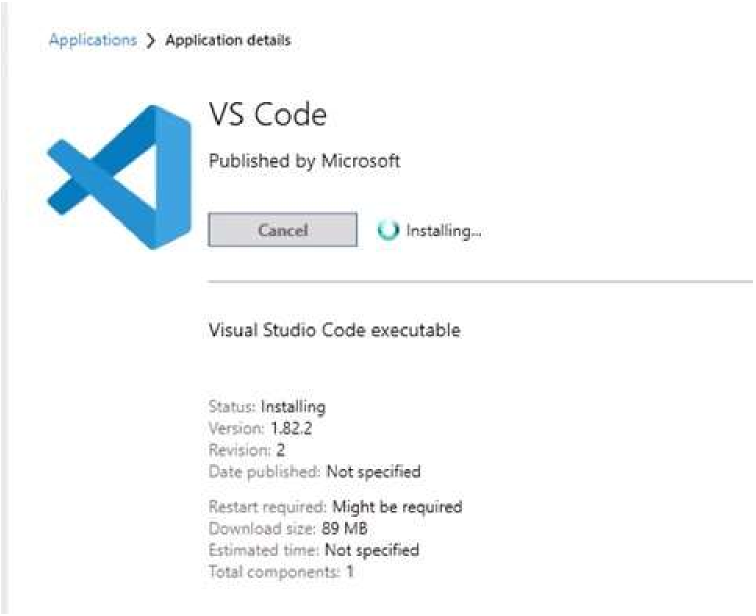
Verifying application is in Software Center

Here I verified that the application is on the software center along with the other application another team member created.



Verifying Install works:

Here, it shows the version of the program I specified when I was in the application wizard.



VS Code

Published by Microsoft

Visual Studio Code executable

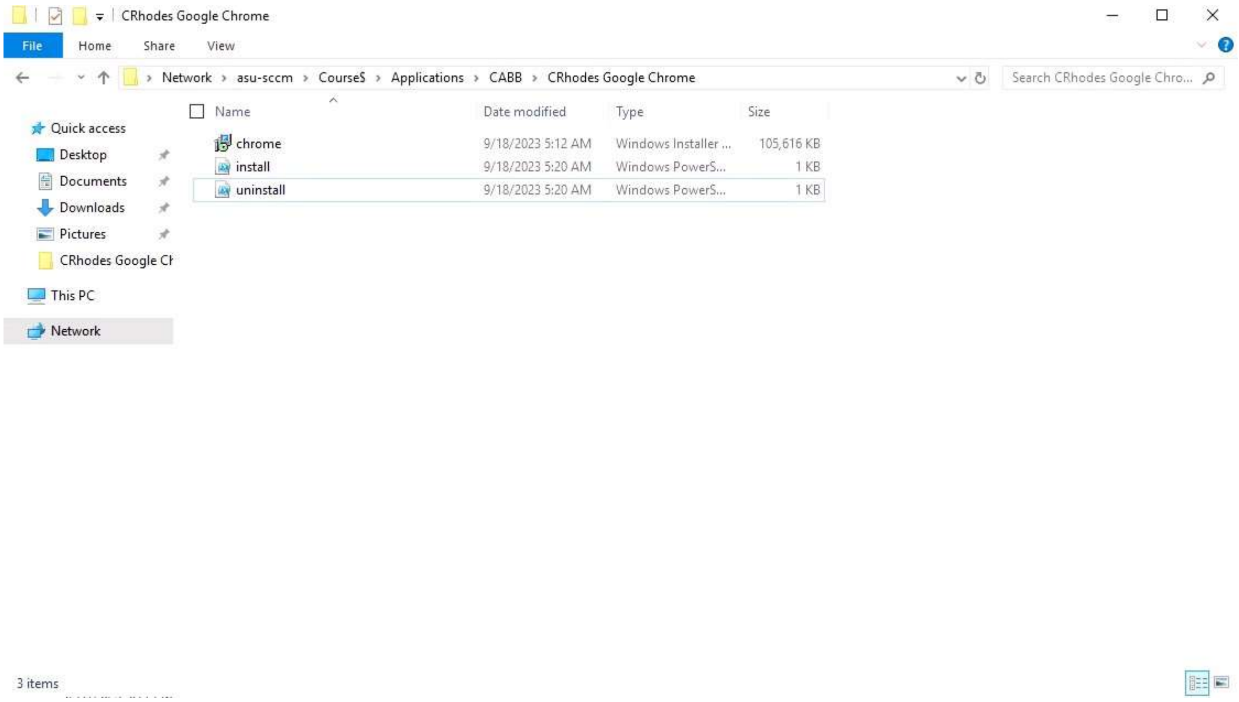
Status: Installing
Version: 1.82.2
Revision: 2
Date published: Not specified

Restart required: Might be required
Download size: 89 MB
Estimated time: Not specified
Total components: 1

Google Chrome Deployment - Cole Rhodes

Application	Available or Required	Device Collection or User Collection	Use Approval (Yes/No)
Google Chrome	Available	Device	Yes

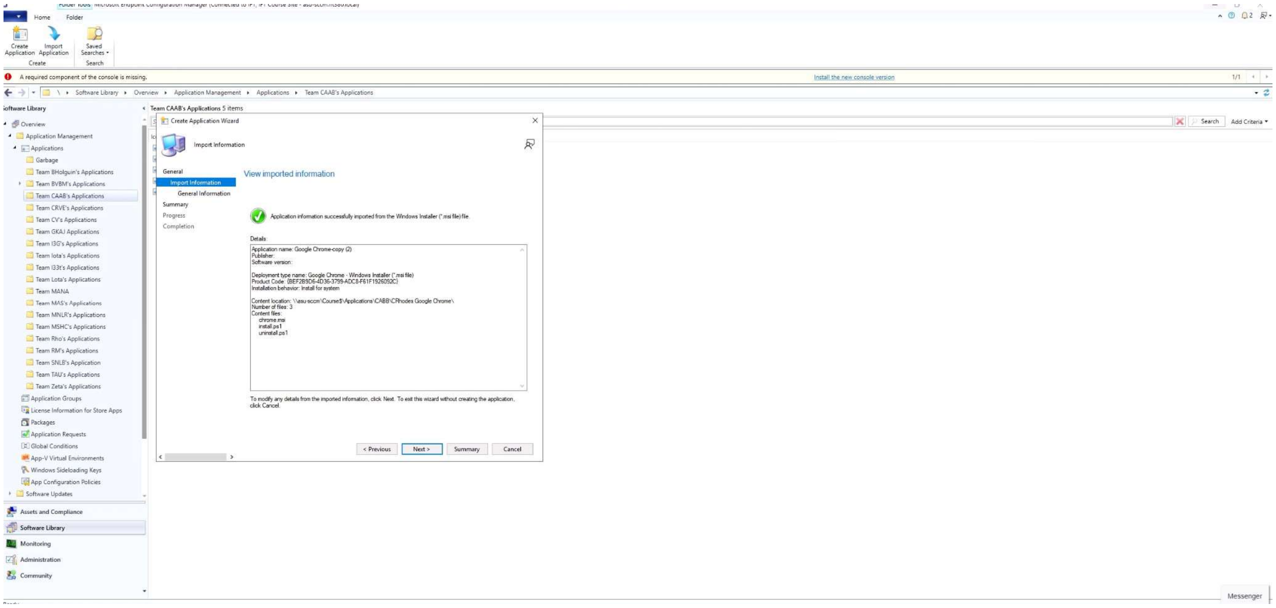
1. Downloaded the Google Chrome MSI file from the Google Chrome website and saved it in our Configuration Manager's *Applications* directory: \\asu-sccm\Course$\Applications\CABB\CRhodes Google Chrome



Network › asu-sccm › Course$ › Applications › CABB › CRhodes Google Chrome

Name	Date modified	Type	Size
chrome	9/18/2023 5:12 AM	Windows Installer ...	105,616 KB
install	9/18/2023 5:20 AM	Windows PowerS...	1 KB
uninstall	9/18/2023 5:20 AM	Windows PowerS...	1 KB

2. Created a new Application in the Software Library section of Configuration Manager in our team's directory: *Team CAAB's Applications*



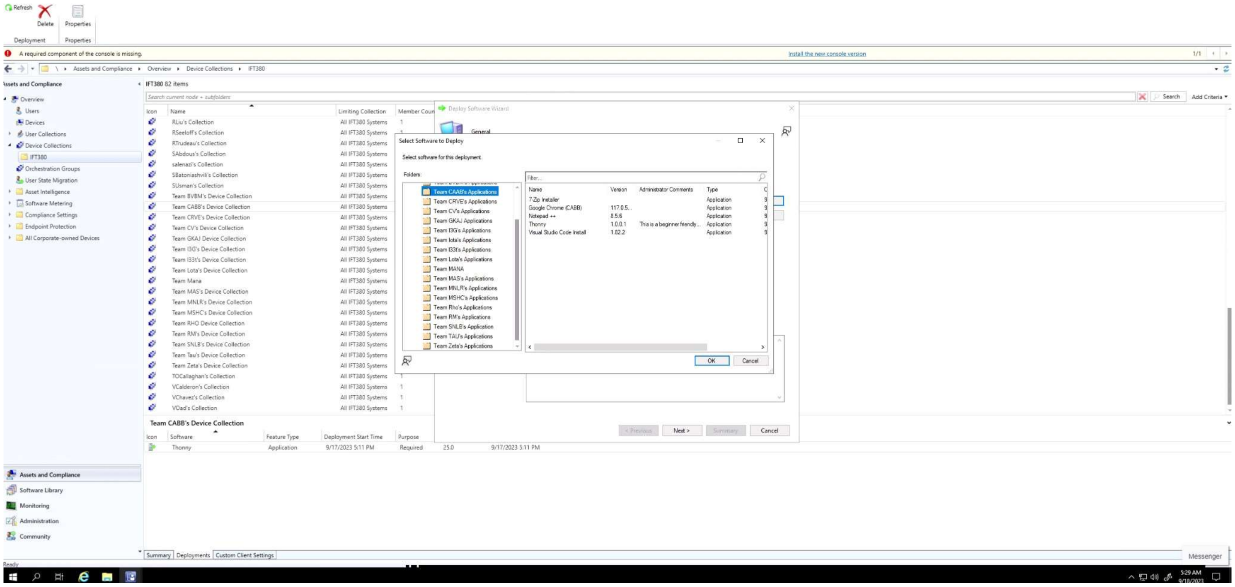
Application information successfully imported from the Windows Installer (*.msi file) file.

Details:

```
Application name: Google Chrome-copy (2)
Publisher:
Software version:

Deployment type name: Google Chrome - Windows Installer (*.msi file)
Product Code: {BEF2B9D6-4D36-3799-ADC8-F61F1926092C}
Installation behavior: Install for system

Content location: \\asu-sccm\Course$\Applications\CABB\CRhodes Google Chrome\
Number of files: 3
Content files:
    chrome.msi
    install.ps1
    uninstall.ps1
```

To modify any details from the imported information, click Next. To exit this wizard without creating the application, click Cancel.

3. Navigated to our team's device collection, *Team CAAB's Device Collection*, and created a new deployment of my Google Chrome application.



Select software for this deployment.

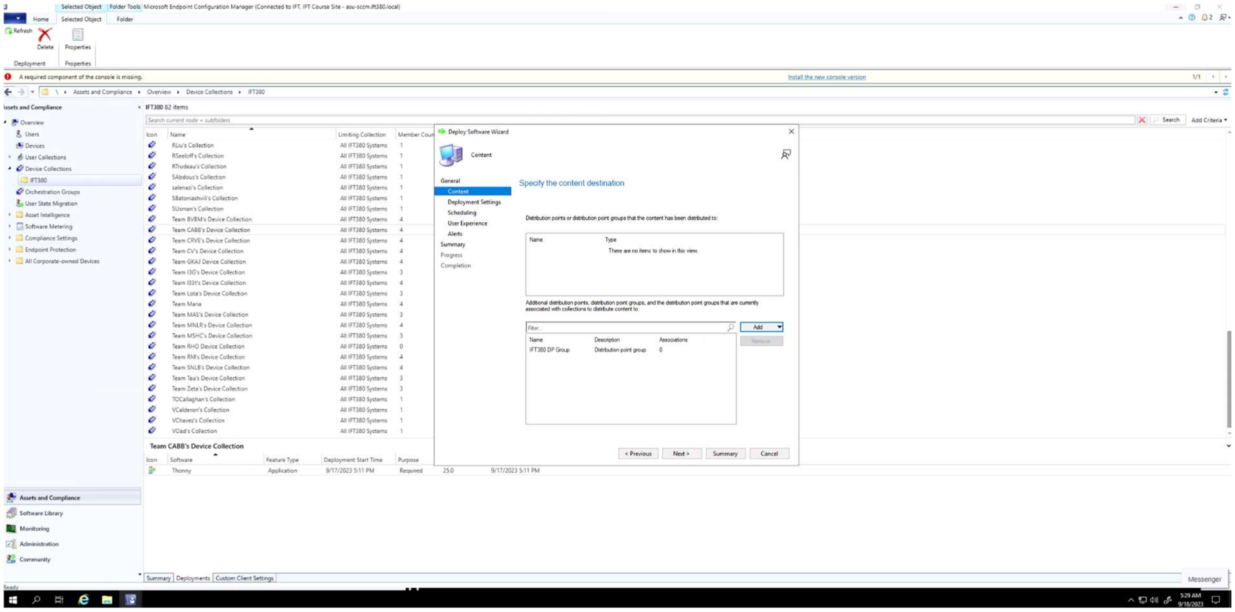
Folders: Team CAAB's Applications

Name	Version	Administrator Comments	Type
7-Zip Installer			Application
Google Chrome (CABB)	117.0.5...		Application
Notepad ++	8.5.6		Application
Thonny	1.0.0.1	This is a beginner friendly...	Application
Visual Studio Code Install	1.82.2		Application

Team CABB's Device Collection

Icon	Software	Feature Type	Deployment Start Time	Purpose		
	Thonny	Application	9/17/2023 5:11 PM	Required	25.0	9/17/2023 5:11 PM

4. Followed each screen of this process, and started by specifying the distribution point group for the software to install from.



Microsoft Endpoint Configuration Manager (Connected to IFT, IFT Course Site - asu-sccm.ift380.local)

A required component of the console is missing. Install the new console version

Assets and Compliance ▸ Overview ▸ Device Collections ▸ IFT380

IFT380 82 items

Icon	Name	Limiting Collection	Member Count
	RLiu's Collection	All IFT380 Systems	1
	RSeeloff's Collection	All IFT380 Systems	1
	RTrudeau's Collection	All IFT380 Systems	1
	SAbdous's Collection	All IFT380 Systems	1
	salenazi's Collection	All IFT380 Systems	1
	SBatoniashvili's Collection	All IFT380 Systems	1
	SUsman's Collection	All IFT380 Systems	1
	Team BVBM's Device Collection	All IFT380 Systems	4
	Team CABB's Device Collection	All IFT380 Systems	4
	Team CRVE's Device Collection	All IFT380 Systems	4
	Team CV's Device Collection	All IFT380 Systems	4
	Team GKAJ Device Collection	All IFT380 Systems	4
	Team I3G's Device Collection	All IFT380 Systems	3
	Team I33t's Device Collection	All IFT380 Systems	4
	Team Lota's Device Collection	All IFT380 Systems	3
	Team Mana	All IFT380 Systems	4
	Team MAS's Device Collection	All IFT380 Systems	3
	Team MNLR's Device Collection	All IFT380 Systems	4
	Team MSHC's Device Collection	All IFT380 Systems	3
	Team RHO Device Collection	All IFT380 Systems	0
	Team RM's Device Collection	All IFT380 Systems	4
	Team SNLB's Device Collection	All IFT380 Systems	4
	Team Tau's Device Collection	All IFT380 Systems	3
	Team Zeta's Device Collection	All IFT380 Systems	3
	TOCallaghan's Collection	All IFT380 Systems	1
	VCalderon's Collection	All IFT380 Systems	1
	VChavez's Collection	All IFT380 Systems	1
	VOad's Collection	All IFT380 Systems	1

Team CABB's Device Collection

Icon	Software	Feature Type	Deployment Start Time	Purpose		
	Thonny	Application	9/17/2023 5:11 PM	Required	25.0	9/17/2023 5:11 PM

Deploy Software Wizard

Content

Specify the content destination

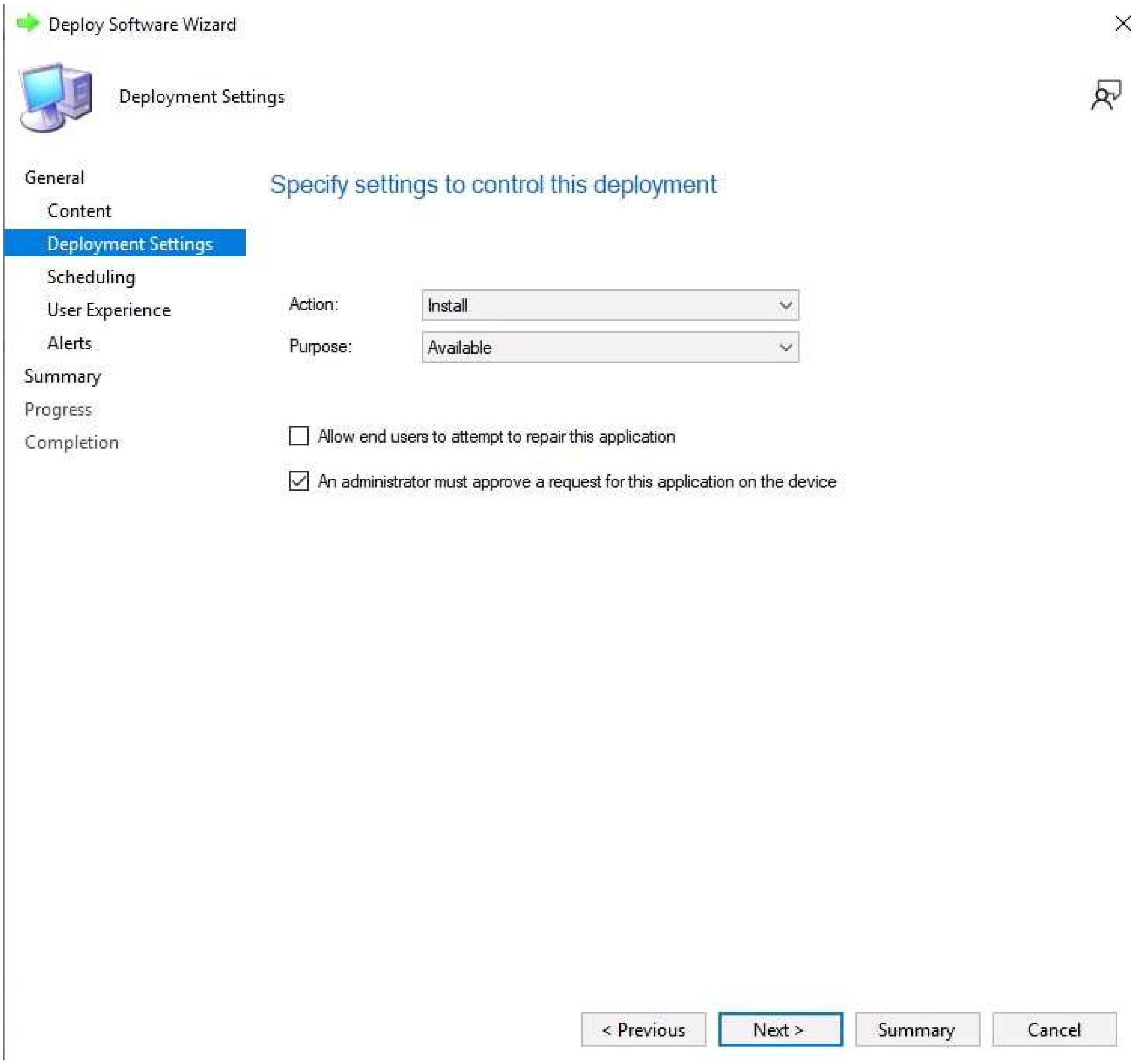
Distribution points or distribution point groups that the content has been distributed to:

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

Additional distribution points, distribution point groups, and the distribution point groups that are currently associated with collections to distribute content to:

Name	Description	Associations
IFT380 DP Group	Distribution point group	0

5. Setting the deployment settings to be Available, but only after approved by an administrator will the software be installed.



Deploy Software Wizard

Deployment Settings

Specify settings to control this deployment

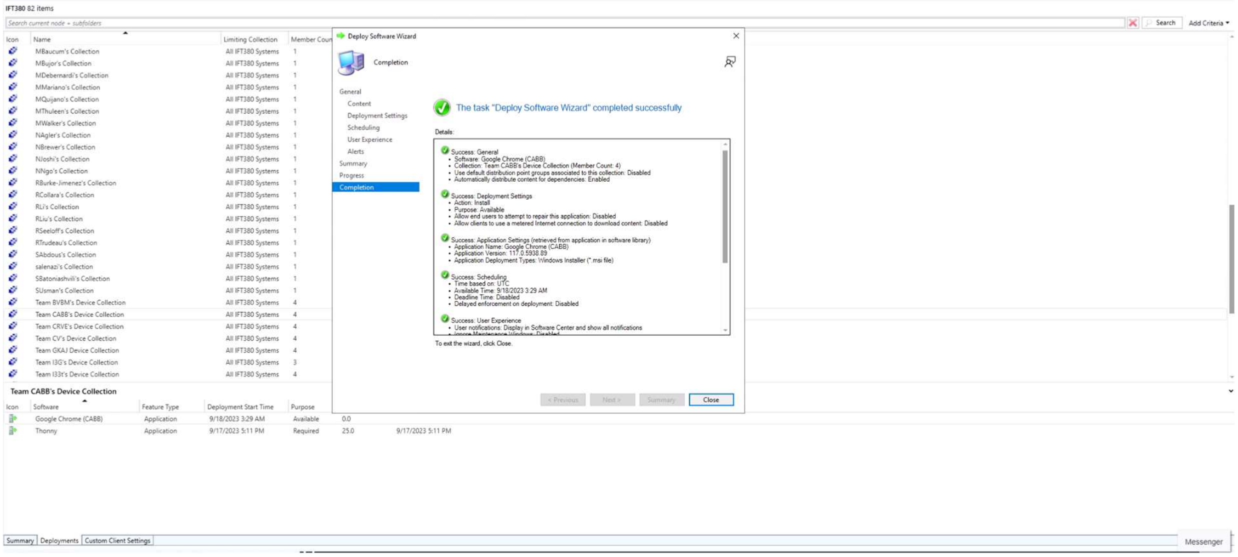
Action: Install

Purpose: Available

□ Allow end users to attempt to repair this application

☑ An administrator must approve a request for this application on the device

6. Overview of the deployment settings



IFT380 82 items

Icon	Name	Limiting Collection	Member Coun
	MBaucum's Collection	All IFT380 Systems	1
	MBujor's Collection	All IFT380 Systems	1
	MDebernardi's Collection	All IFT380 Systems	1
	MMariano's Collection	All IFT380 Systems	1
	MQuijano's Collection	All IFT380 Systems	1
	MThuleen's Collection	All IFT380 Systems	1
	MWalker's Collection	All IFT380 Systems	1
	NAgler's Collection	All IFT380 Systems	1
	NBrewer's Collection	All IFT380 Systems	1
	NJoshi's Collection	All IFT380 Systems	1
	NNgo's Collection	All IFT380 Systems	1
	RBurke-Jimenez's Collection	All IFT380 Systems	1
	RCollara's Collection	All IFT380 Systems	1
	RLi's Collection	All IFT380 Systems	1
	RLiu's Collection	All IFT380 Systems	1
	RSeeloff's Collection	All IFT380 Systems	1
	RTrudeau's Collection	All IFT380 Systems	1
	SAbdous's Collection	All IFT380 Systems	1
	salenazi's Collection	All IFT380 Systems	1
	SBatoniashvili's Collection	All IFT380 Systems	1
	SUsman's Collection	All IFT380 Systems	1
	Team BVBM's Device Collection	All IFT380 Systems	4
	Team CABB's Device Collection	All IFT380 Systems	4
	Team CRVE's Device Collection	All IFT380 Systems	4
	Team CV's Device Collection	All IFT380 Systems	4
	Team GKAJ Device Collection	All IFT380 Systems	4
	Team I3G's Device Collection	All IFT380 Systems	3
	Team I33t's Device Collection	All IFT380 Systems	4

Team CABB's Device Collection

Icon	Software	Feature Type	Deployment Start Time	Purpose		
	Google Chrome (CABB)	Application	9/18/2023 3:29 AM	Available	0.0	
	Thonny	Application	9/17/2023 5:11 PM	Required	25.0	9/17/2023 5:11 PM

Deploy Software Wizard

Completion

The task "Deploy Software Wizard" completed successfully

Details:

Success: General
- Software: Google Chrome (CABB)
- Collection: Team CABB's Device Collection (Member Count: 4)
- Use default distribution point groups associated to this collection: Disabled
- Automatically distribute content for dependencies: Enabled

Success: Deployment Settings
- Action: Install
- Purpose: Available
- Allow end users to attempt to repair this application: Disabled
- Allow clients to use a metered Internet connection to download content: Disabled

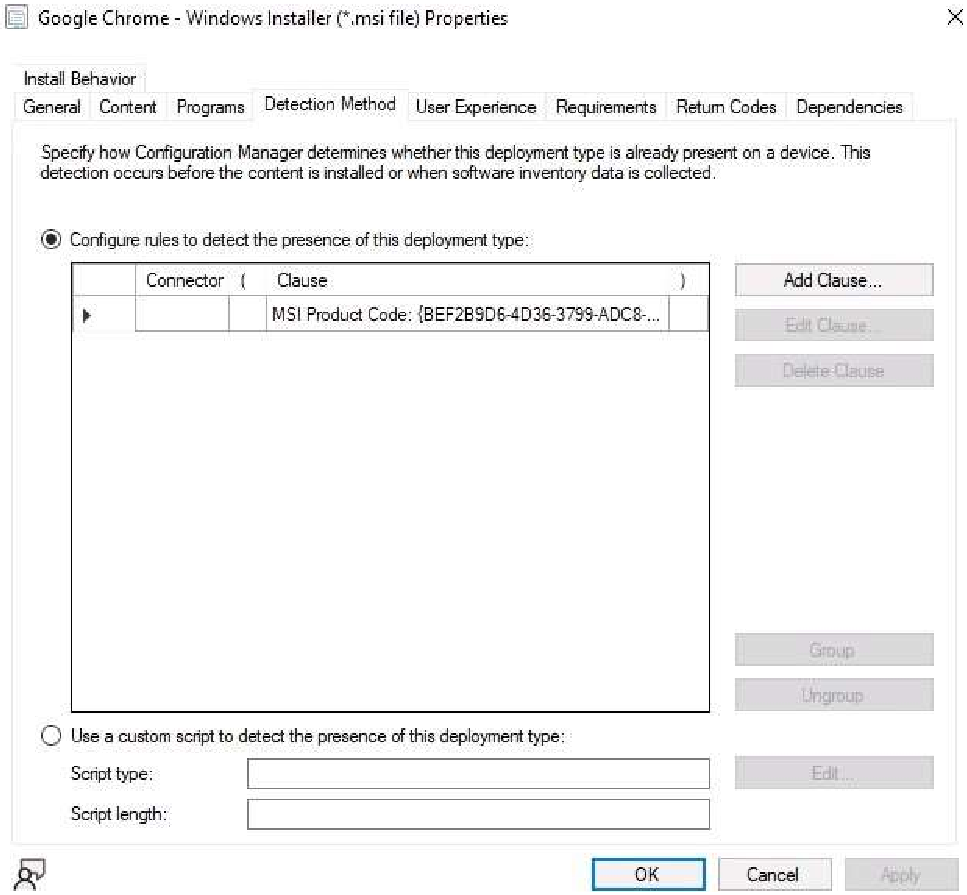
Success: Application Settings (retrieved from application in software library)
- Application Name: Google Chrome (CABB)
- Application Version: 117.0.5938.89
- Application Deployment Types: Windows Installer (*.msi file)

Success: Scheduling
- Time based on: UTC
- Available Time: 9/18/2023 3:29 AM
- Deadline Time: Disabled
- Delayed enforcement on deployment: Disabled

Success: User Experience
- User notifications: Display in Software Center and show all notifications
- Ignore Maintenance Windows: Disabled

To exit the wizard, click Close.

7. Since my software is using an MSI file, most of the properties are automatically discovered as it is bundled in with the software. The detection method is automatically added.



Google Chrome - Windows Installer (*.msi file) Properties

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:

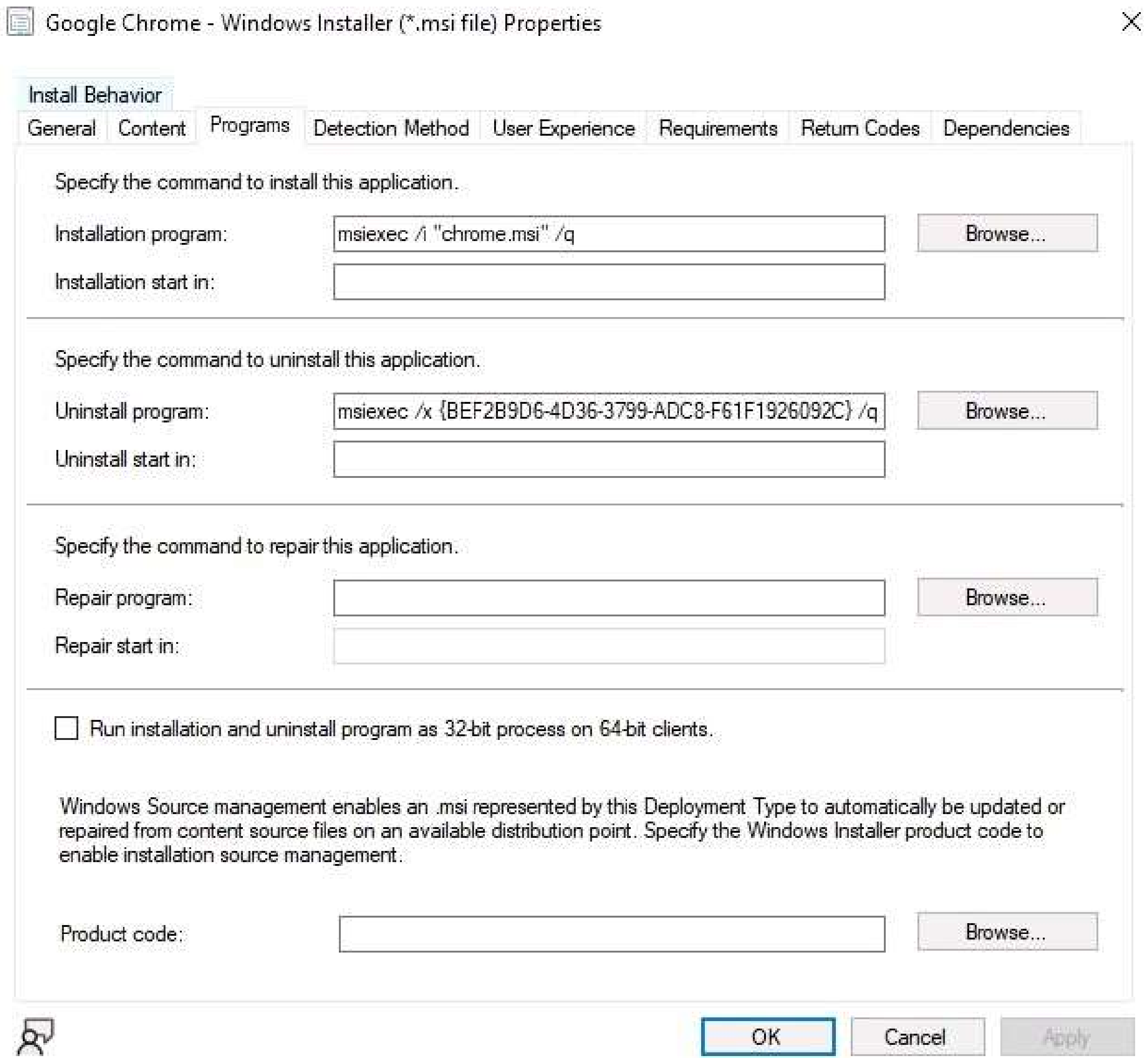
	Connector	(	Clause	)
▸			MSI Product Code: {BEF2B9D6-4D36-3799-ADC8-...	

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

Script type:

Script length:

8. The install and uninstall strings are also automatically added.



Specify the command to install this application.

Installation program: msiexec /i "chrome.msi" /q

Installation start in:

Specify the command to uninstall this application.

Uninstall program: msiexec /x {BEF2B9D6-4D36-3799-ADC8-F61F1926092C} /q

Uninstall start in:

Specify the command to repair this application.

Repair program:

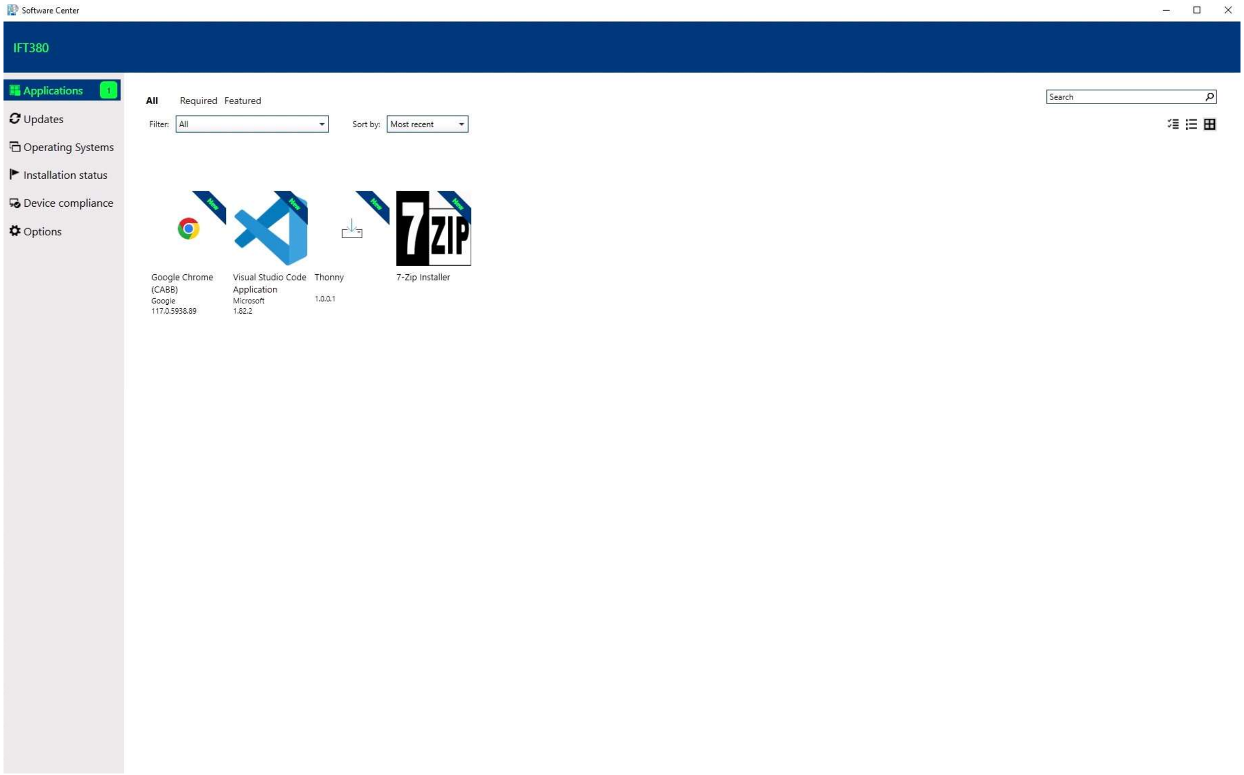
Repair start in:

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

Windows Source management enables an .msi represented by this Deployment Type to automatically be updated or repaired from content source files on an available distribution point. Specify the Windows Installer product code to enable installation source management.

Product code:

9. My Google Chrome application showing up in Software center



Filter: All

Sort by: Most recent

Google Chrome (CABB)
Google
117.0.5938.89

Visual Studio Code Application
Microsoft
1.82.2

Thonny
1.0.0.1

7-Zip Installer

10. Chrome showing up in application requests.