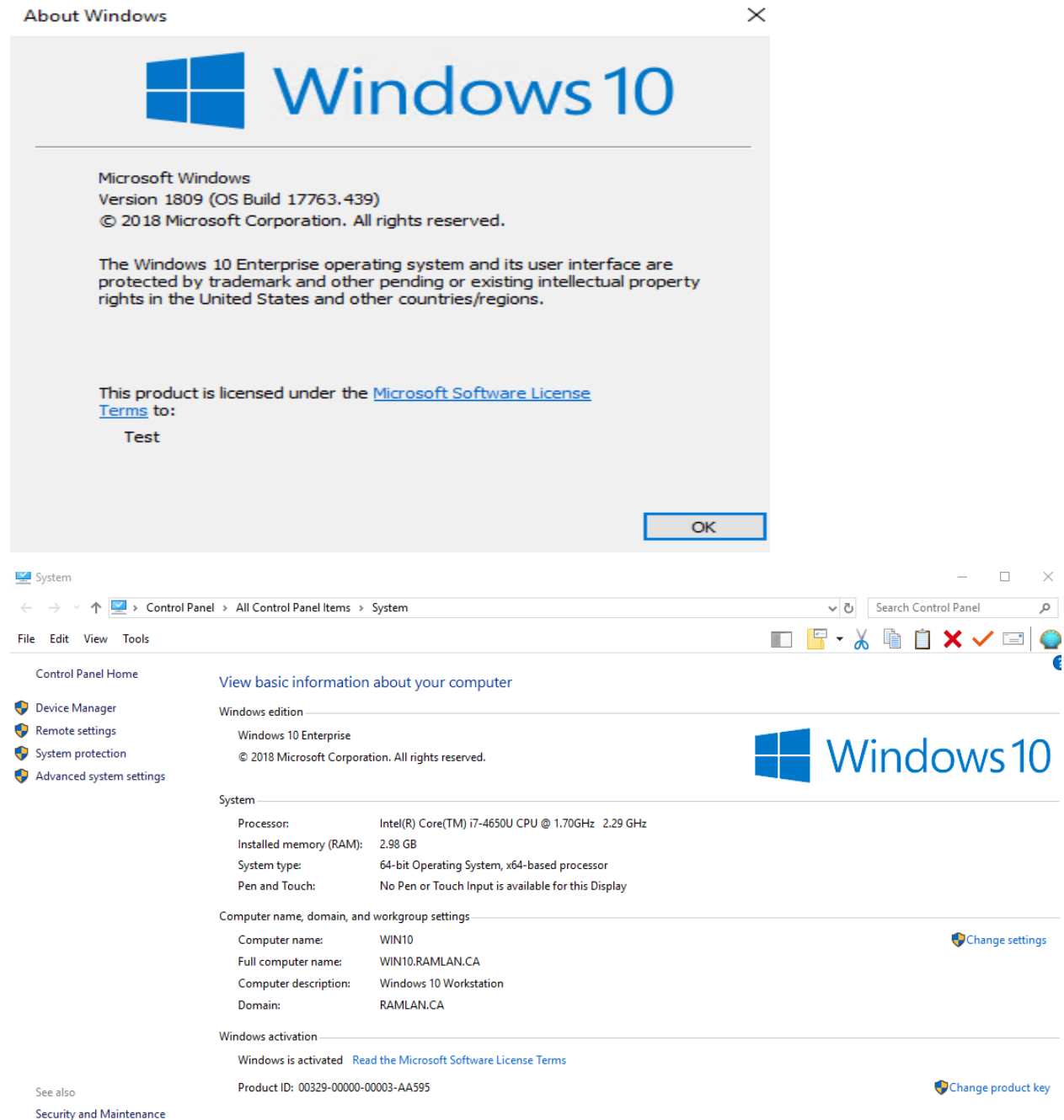


# How to upgrade Windows 10 v1809 to Windows 10 v1903

In this exercise, I will show you the steps involved in upgrading Windows 10 v1903. Currently this workstation is running Windows 10 v1809. All the upgrade will be done through Software Center. Users can perform this task at their own time but should complete the upgrade before the deadline set by the organization. This process will make everything simple and easy for users to upgrade to latest operating system. No more technicians involved in the upgrade process and this will save a lot of money for big corporations.



In order to upgrade you will need/meet the following requirements:

1. Current Branch should be 1806 and above
2. Windows ADK should be 1809 and above
3. Windows 10 operating system should be 1803 and above

Here is the matrix.

The following table lists the versions of Windows 10 that you can use as a client with different versions of Configuration Manager.

Windows 10 version	Configuration Manager 1710	Configuration Manager 1802	Configuration Manager 1806	Configuration Manager 1810	Configuration Manager 1902
Enterprise 2015 LTSC	✓	✓	✓	✓	✓
Enterprise 2016 LTSC	✓	✓	✓	✓	✓
Enterprise LTSC 2019	✗	✗	✓	✓	✓
1607	✓	✓	✓	✓	✓
1703	✓	✓	✓	✓	✓
1709	✓	✓	✓	✓	✓
1803	✗	✓	✓	✓	✓
1809	✗	✗	✓	✓	✓

The following table lists the versions of the Windows 10 ADK that you can use with different versions of Configuration Manager.

Windows 10 ADK version	Configuration Manager 1710	Configuration Manager 1802	Configuration Manager 1806	Configuration Manager 1810	Configuration Manager 1902
1703 (10.1.15063)	BC	BC	✗	✗	✗
1709 (10.1.16299)	✓	✓	BC	✗	✗
1803 (10.1.17134)	✗	✓	✓	BC	BC
1809 (10.1.17763)	✗	✗	✓	✓	✓
<b>Key</b>					

I have met all the requirements and, I was able to download Windows 10 v1903 as MSDN subscriber. If you are not MSDN subscriber then you will have to wait until Microsoft release the version to general public.

There are two way you can upgrade Windows 10 v1809 to v1903. One is through Operating System upgrade and the other is through Windows 10 Servicing. For this post, I will show you the process involved within Operating System upgrade.

I will copy the ISO to the Server and mount the iso. After that copy entire folder to Sources directory.

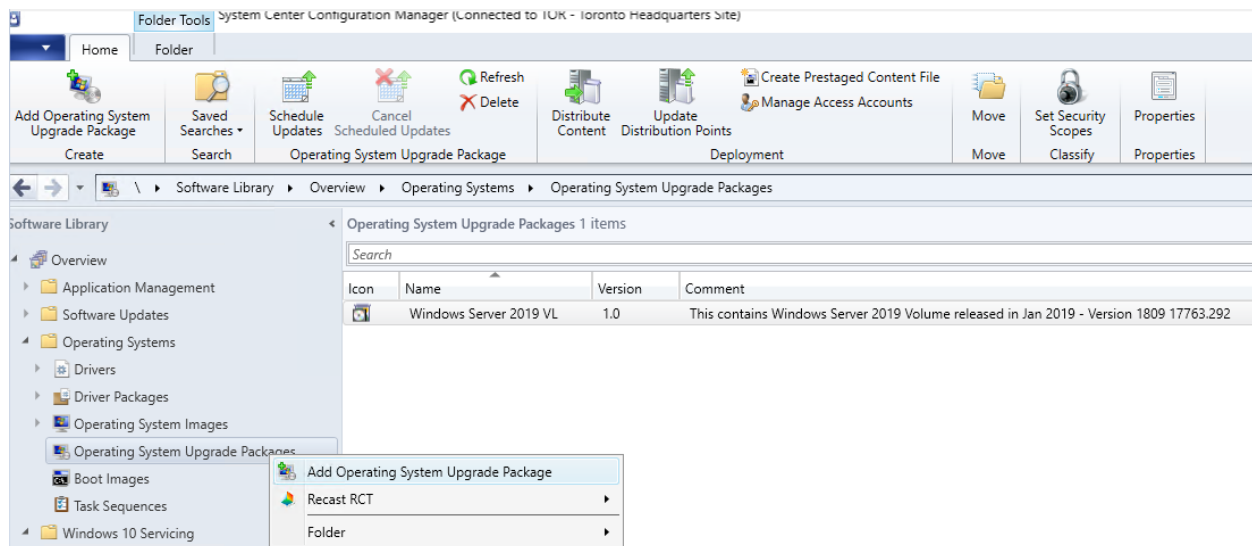
CB > OS (C:) > Sources > OSD > OS > WIN10 > 1903 >

Name	Date modified	Type	Size
boot	12-May-2019 8:07 ...	File folder	
efi	12-May-2019 8:07 ...	File folder	
sources	12-May-2019 8:07 ...	File folder	
support	12-May-2019 8:07 ...	File folder	
autorun.inf	01-Apr-2019 7:10 ...	Setup Information	1 KB
bootmgr	01-Apr-2019 7:10 ...	File	401 KB
bootmgr.efi	01-Apr-2019 7:10 ...	EFI File	1,475 KB
setup.exe	01-Apr-2019 7:10 ...	Application	73 KB

Launch SCCM console.

Navigate to Software Library > Operating Systems > Operating System Upgrade Packages.

Right click Operating System Upgrade Packages and click Add Operating System Upgrade Package.





## Data Source

## Data Source

General

Summary

Progress

Completion

## Browse to the data source for the operating system upgrade package

Specify the path to the folder that contains the operating system upgrade package.

Path:

Example: \\servername\sharename\path

If the selected architecture and language matches that of the client, the package content will be downloaded in advance.

Architecture:

☐ x86☒ x64

Language:

&lt; Previous

Next &gt;

Summary

Cancel



## General

## Data Source

General

Summary

Progress

Completion

## Type general information for the operating system upgrade package

Provide a name, version, and comment for the operating system upgrade package.

Name:

Version:

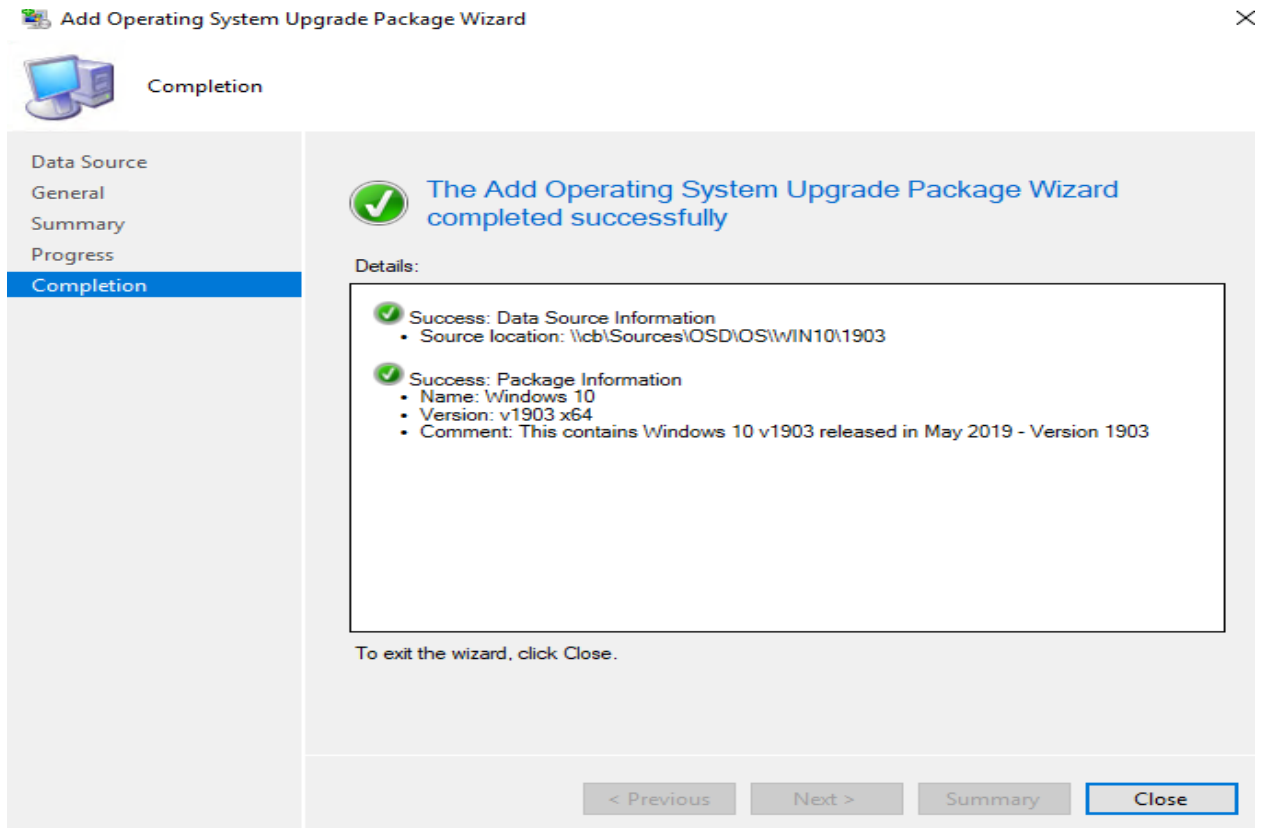
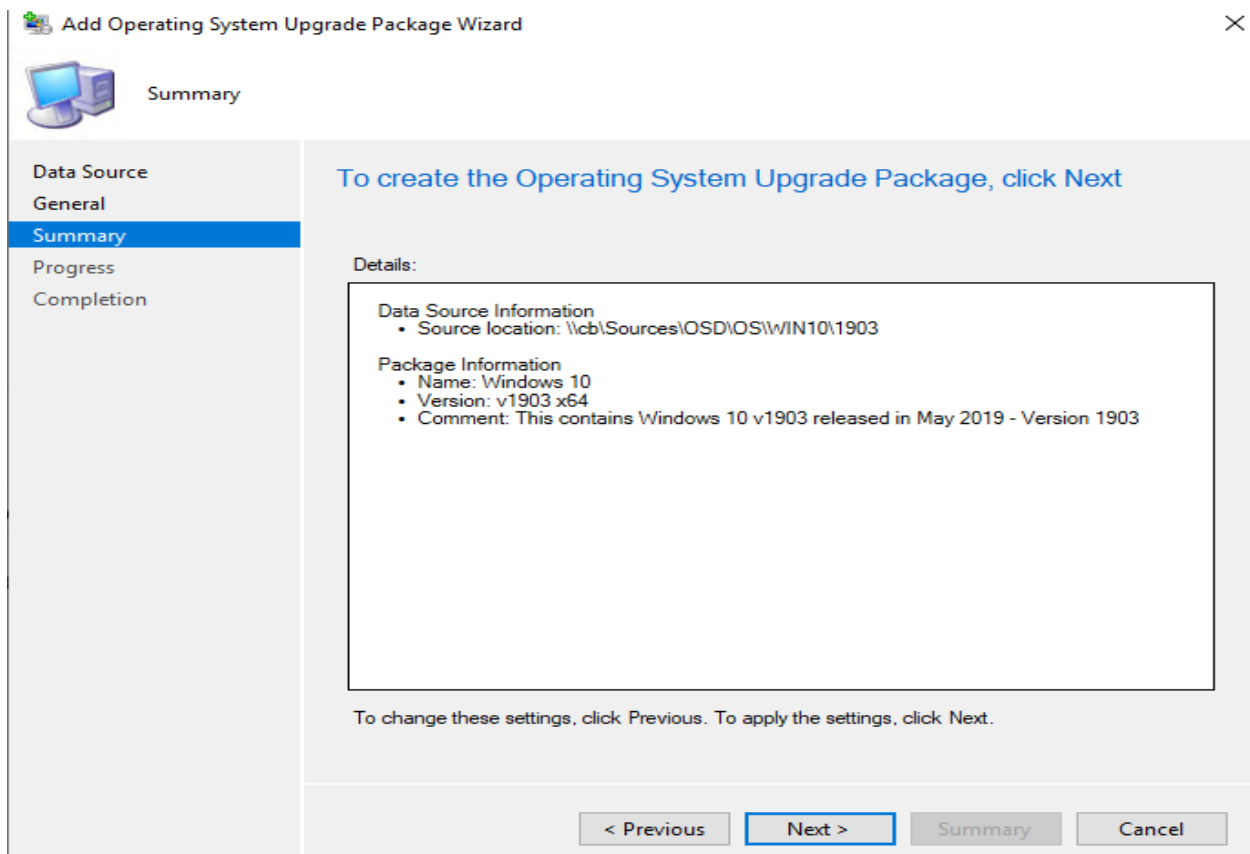
Comment:

&lt; Previous

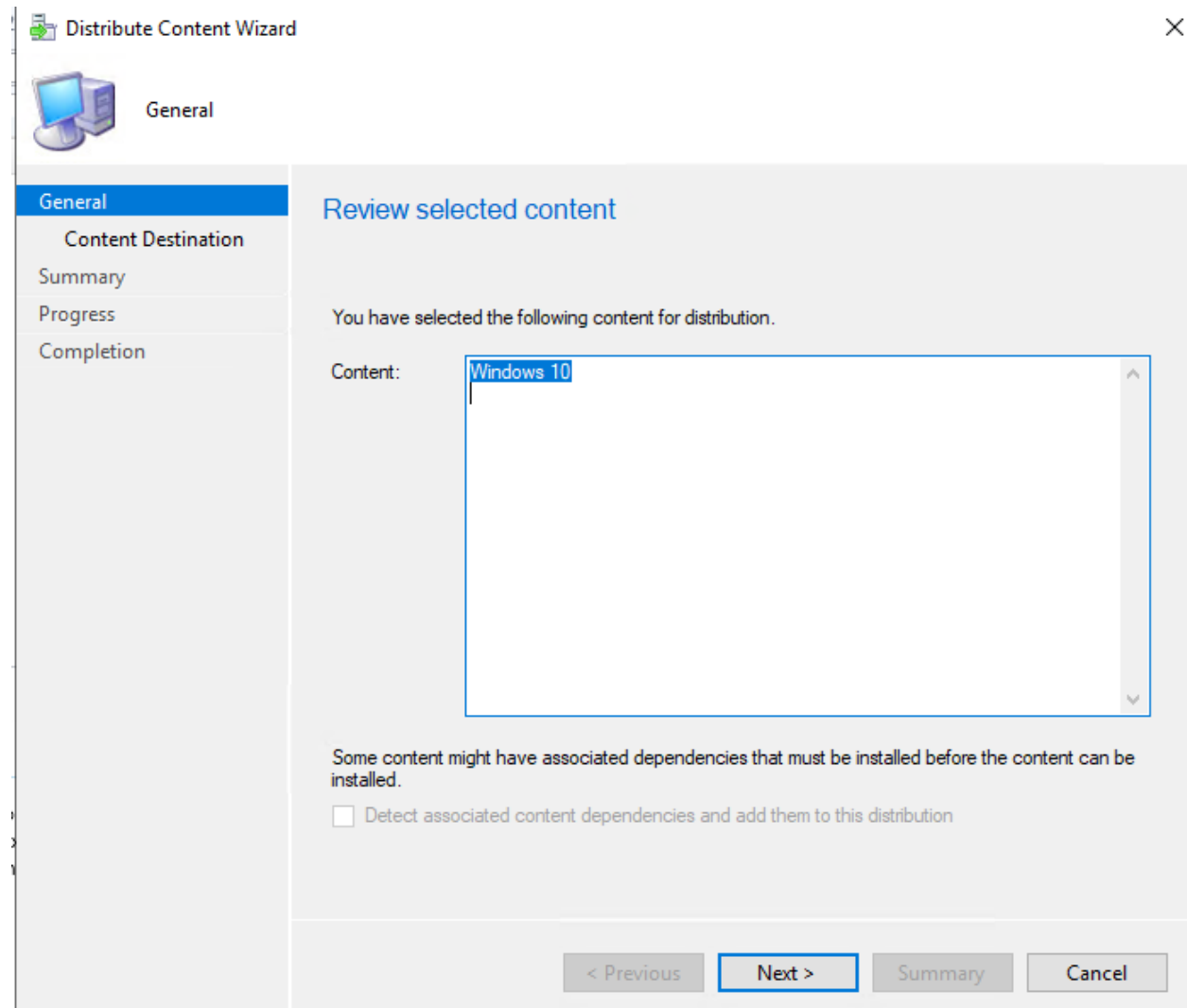
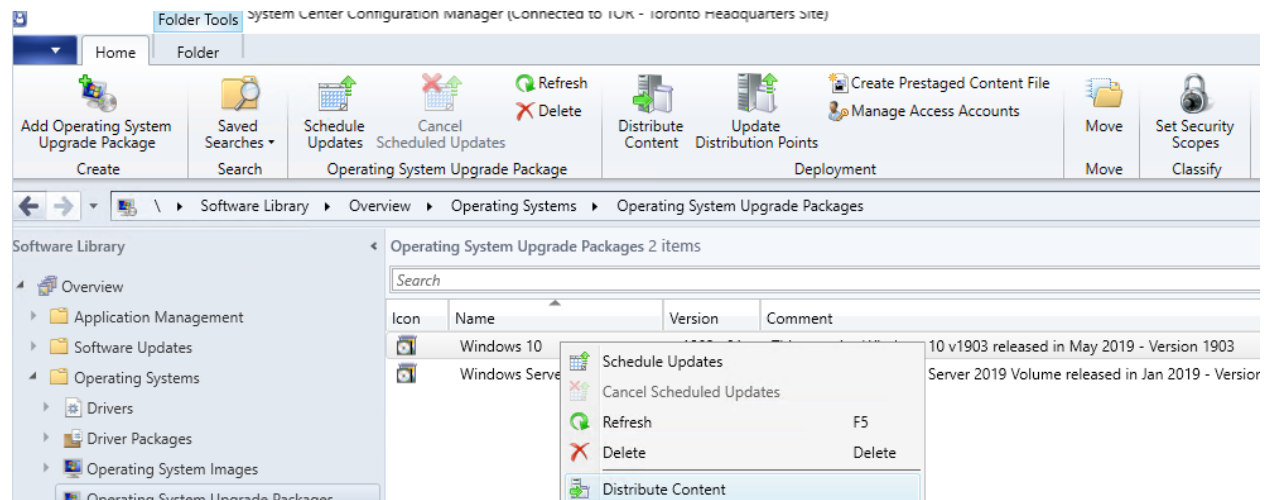
Next &gt;

Summary

Cancel



Now we will distribute the content to all DP's.





## Content Destination

General

Content Destination

Summary

Progress

Completion

## Specify the content destination

Content will be distributed to the following distribution points, distribution point groups, and the distribution point groups that are currently associated with collections.

Content destination:

Filter...			Add ▼
Name	Description	Associations	Remove
CB.RAMLAN.CA	Distribution point		
Toronto	Distribution point group	0	

&lt; Previous

Next &gt;

Summary

Cancel



## Summary

General

Content Destination

Summary

Progress

Completion

## Confirm the settings

Details:

- Content (1):
- Windows 10
- Collections (0):
- Distribution point groups (1):
- Toronto
- Distribution points (1):
- CB.RAMLAN.CA

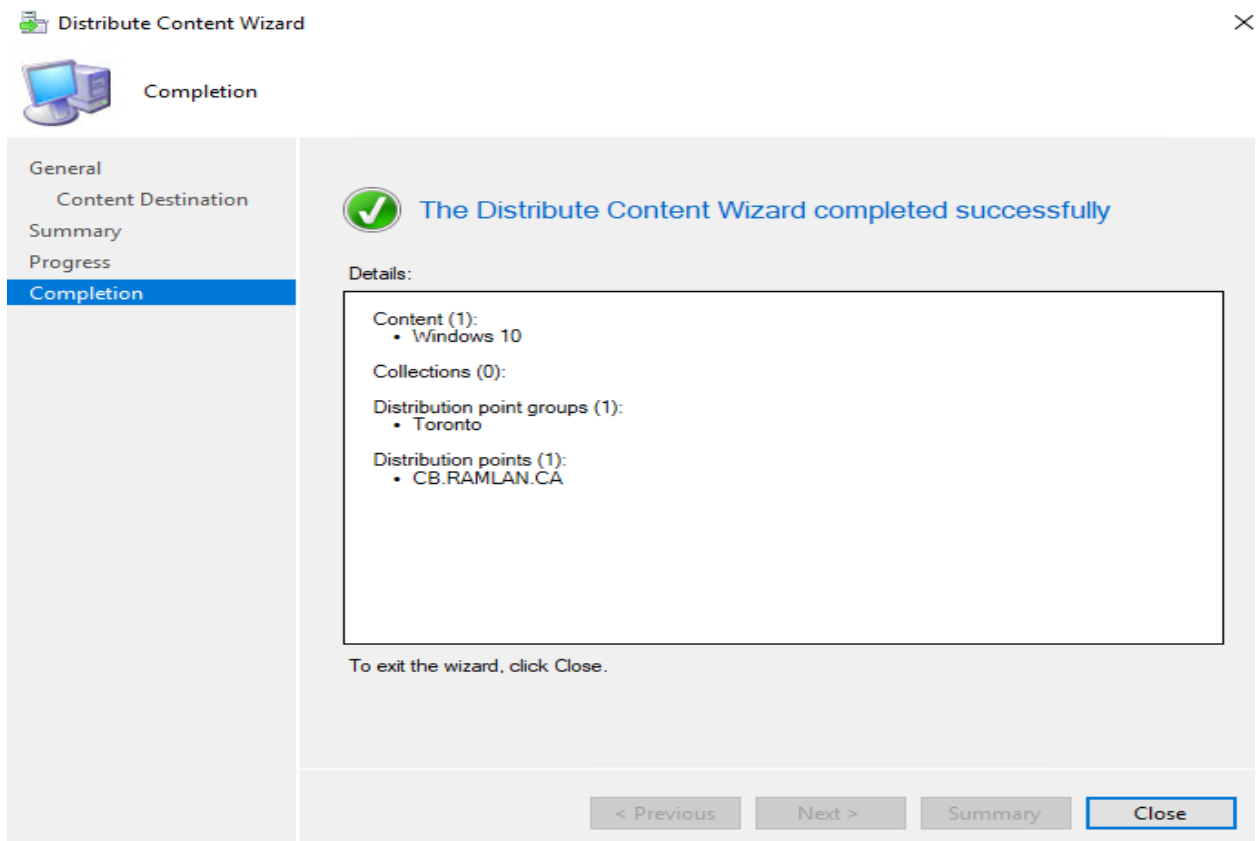
To change these settings, click Previous. To apply the settings, click Next.

&lt; Previous

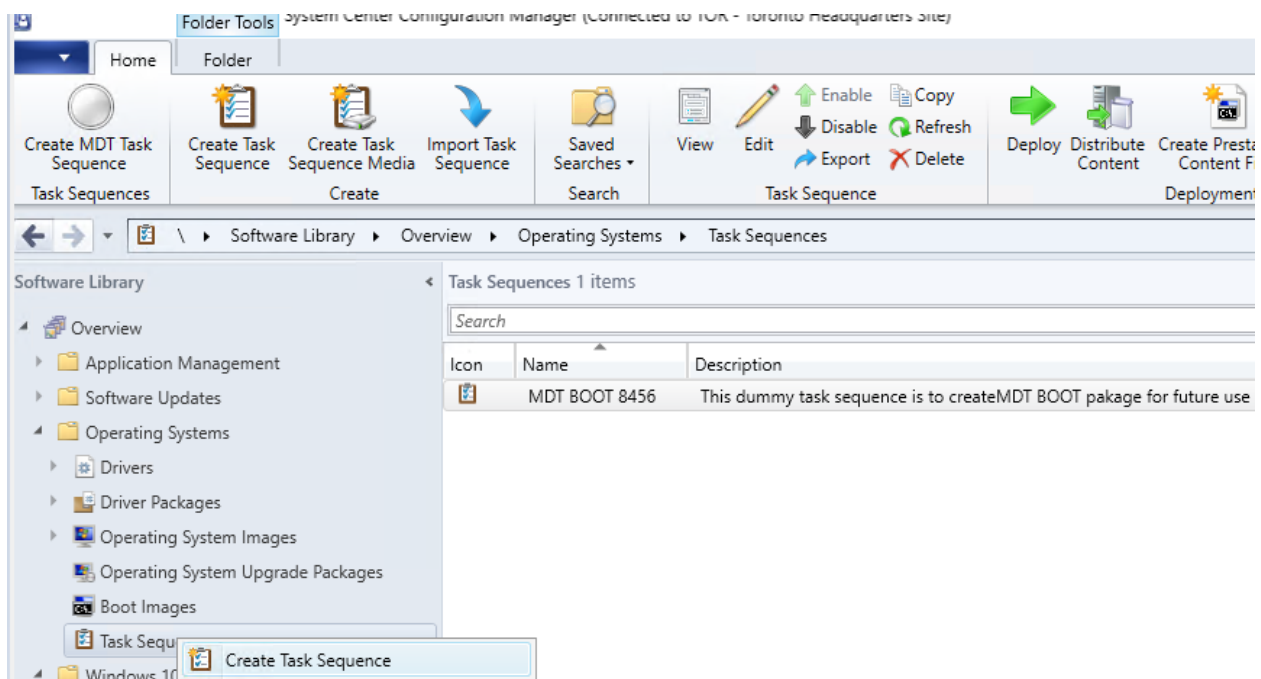
Next &gt;

Summary

Cancel



Now we will create a task sequence for the upgrade process.







Create New Task Sequence

Create New Task Sequence

- Task Sequence Information
- Upgrade the Windows Operating System
- Include Updates
- Install Applications
- Summary
- Progress
- Completion

Create a new task sequence

A task sequence performs multiple steps or actions on a client computer at the command-line level without requiring user intervention. Select the type of task sequence to create. You can use the task sequence editor to add steps to your task sequence.

Select a new task sequence to be created.

- ☐ Install an existing image package
- ☐ Build and capture a reference operating system image
- ☒ Upgrade an operating system from an upgrade package
- ☐ Deploy Windows Autopilot for existing devices
- ☐ Create a new custom task sequence

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Summary

Cancel



Task Sequence Information

Create New Task Sequence

- Task Sequence Information
- Upgrade the Windows Operating System
- Include Updates
- Install Applications
- Summary
- Progress
- Completion

Specify task sequence information

Task sequence name:

Windows 10 v1903

Description:

This task seq will upgrade all Windows 10 v1809 to v1903 Enterprise Edition x64

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Summary

Cancel

Select an Operating System Upgrade Package

Folders:

Root

Select an Operating System Upgrade Package

Filter...

Windows 10 v1903 x64 en-US

Windows Server 2019 VL 1.0 en-US

Package ID:

TOR00031

Description:

This contains Windows 10 v1903 released in May 2019 - Version 1903

OK

Cancel

## Create Task Sequence Wizard

### Upgrade the Windows Operating System

Create New Task Sequence

Task Sequence Information

Upgrade the Windows Operating System

Include Updates

Install Applications

Summary

Progress

Completion

Select an operating system upgrade package

Upgrade package:

Windows 10 v1903 x64 en-US

Browse...

Properties:

	OS version	Edition	Language	Architecture
7	10.0.18362.30	Windows 10 Pro Education	en-US	X64
8	10.0.18362.30	Windows 10 Pro Education N	en-US	X64
9	10.0.18362.30	Windows 10 Pro for Workstations	en-US	X64
10	10.0.18362.30	Windows 10 Pro N for Workstations	en-US	X64

Specify the edition index and licensing information for this upgrade package, if required.

Edition index :

3 - Windows 10 Enterprise

Product key:


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Summary

Cancel

Create Task Sequence Wizard

 Include Updates

Create New Task Sequence  
Task Sequence Information  
Upgrade the Windows Operating System  
**Include Updates**  
Install Applications  
Summary  
Progress  
Completion

### Include software updates

Install software updates based on the type of software update deployment:

☐ Required for installation - Mandatory software updates only

☐ Available for installation - All software updates

☒ Do not install any software updates


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Next >

Summary

Cancel

Create Task Sequence Wizard

 Install Applications

Create New Task Sequence  
Task Sequence Information  
Upgrade the Windows Operating System  
Include Updates  
**Install Applications**  
Summary  
Progress  
Completion

### Install applications

Select the applications to be run with this operating system image.

Applications:

Application name	Description
There are no items to show in this view.	

☐ If an application installation fails, continue installing other applications in the list

< Previous

Next >

Summary

Cancel



## Summary

- Create New Task Sequence
- Task Sequence Information
- Upgrade the Windows Operating System
- Include Updates
- Install Applications
- Summary**
- Progress
- Completion

## Confirm the settings

## Details:

Verify the following task sequence details.

## Create a new task sequence

- Name: Windows 10 v1903
- Comment: This task seq will upgrade all Windows 10 v1809 to v1903 Enterprise Edition x64

## Upgrade the Windows operating system

- Installation source media: Windows 10 v1903 x64 en-US
- Edition index: 3

## Include software updates

- Install software updates: Do not install any software updates

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

&lt; Previous

Next &gt;

Summary

Cancel



## Completion

- Create New Task Sequence
- Task Sequence Information
- Upgrade the Windows Operating System
- Include Updates
- Install Applications
- Summary
- Progress
- Completion**



## The Create Task Sequence Wizard completed successfully

## Details:



Success: The task sequence has been created successfully.



## Success: Create a new task sequence

- Name: Windows 10 v1903
- Comment: This task seq will upgrade all Windows 10 v1809 to v1903 Enterprise Edition x64



## Success: Upgrade the Windows operating system

- Installation source media: Windows 10 v1903 x64 en-US
- Edition index: 3



## Success: Include software updates

- Install software updates: Do not install any software updates

To exit the wizard, click Close.

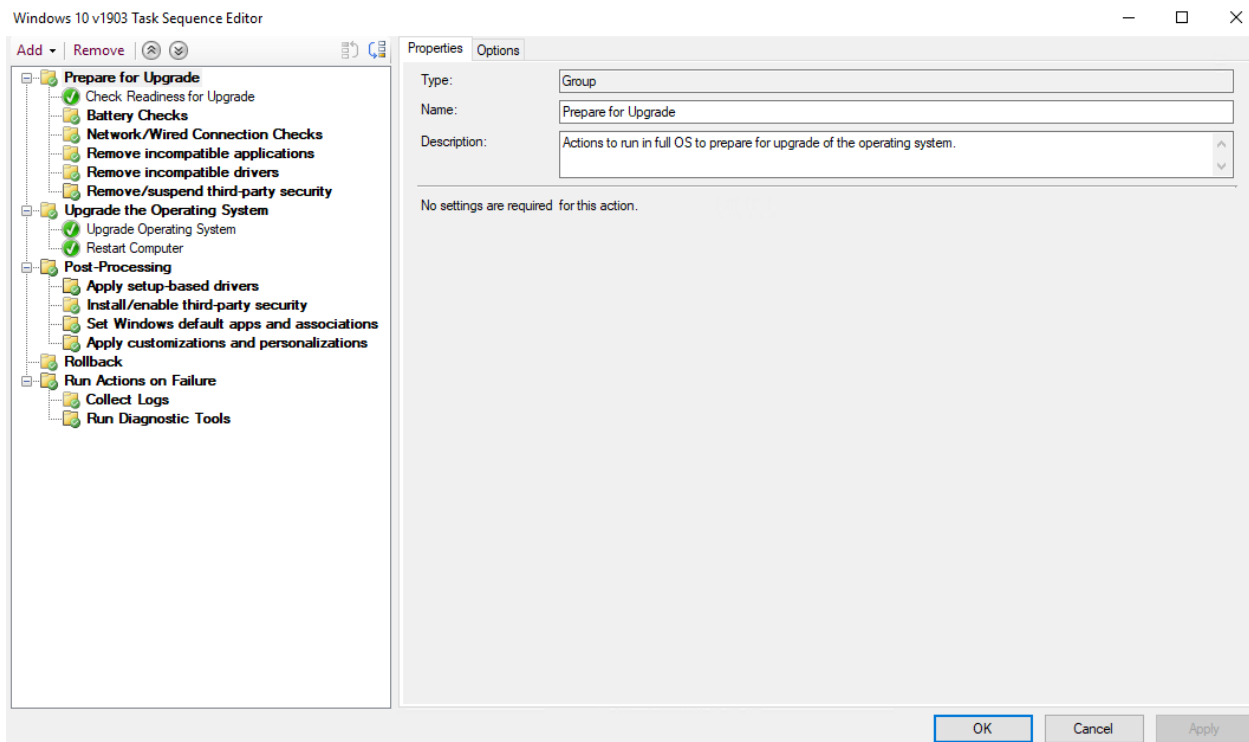
&lt; Previous

Next &gt;

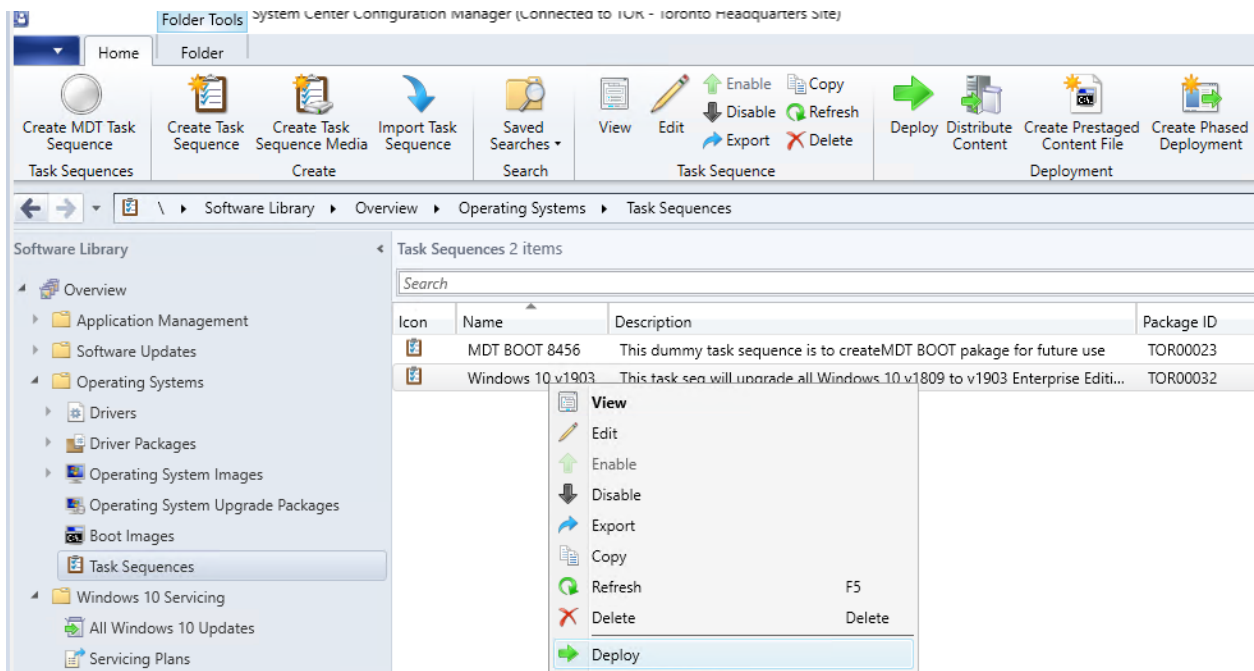
Summary

Close

This is what the task sequence looks. Pretty basic. If you want to add anything you can do by editing.



Now we can deploy the task sequence to Windows 10 collection. I have only one machine in the lab so, I will deploy to this Windows 10 collection.



## Configuration Manager



'Windows 10 v1903' or a referenced child task sequence has potential to be a high risk deployment. Therefore, the 'Select Collection' window displays only the custom collections that meet this site's configurations for collection size deployment verification. Deployment verification is configured as part of the site's Properties.

OK

### Select Collection



Device Collections

Root

☒ Hide collections with a member count greater than site's minimum size configuration (100)

Filter...

Name	Member Count
O365 ProPlus	2
Office 2019	5
OpsMgr	1
Others	5
Server 2019	6
Servers	6
SQL 2016	1
SQL 2017	1
Win 10	1
Win 7	1
Win 8	1
Workstations	3

OK

Cancel



General

General

- Deployment Settings
- Scheduling
- User Experience
- Alerts
- Distribution Points
- Summary
- Progress
- Completion

Specify general information for this deployment

Task sequence:

Collection:

- ☐ Use default distribution point groups associated to this collection
- ☐ Automatically distribute content for dependencies
- ☐ Pre-download content for this task sequence

Select a previously saved deployment template that defines configuration settings for this deployment. Before you complete this wizard, you have the option to save the current configurations as a new deployment template.

Comments (optional):



Here you have the option for Pre-Cache. You can allow task sequence pre-downloaded on client machine for locations where you have less bandwidth.



Deployment Settings

General

- Deployment Settings
- Scheduling
- User Experience
- Alerts
- Distribution Points
- Summary
- Progress
- Completion

Specify settings to control how this software is deployed

Action:

Purpose:

Specify whether to make this task sequence available to Configuration Manager clients, and whether it is available to run when you deploy an operating system by using boot media, prestaged media, or PXE.

Make available to the following:



## Scheduling

General  
Deployment Settings  
**Scheduling**  
User Experience  
Alerts  
Distribution Points  
Summary  
Progress  
Completion

## Specify the schedule for this deployment

This program will be available as soon as it has been distributed to the content servers unless it is scheduled for a later time below. For required applications, specify the assignment schedule.

☐ Schedule when this deployment will become available:

12-May-2019 8:25 AM ☐ UTC

☐ Schedule when this deployment will expire:

12-May-2019 8:25 AM ☐ UTC

Assignment schedule:

New...

Edit...

Delete

There are no items to show in this view.

Rerun behavior:

Always rerun program

Here you can set when to deploy and the deadline, if users don't complete the upgrade in time.

< Previous

Next >

Summary

Cancel



## User Experience

General  
Deployment Settings  
Scheduling  
**User Experience**  
Alerts  
Distribution Points  
Summary  
Progress  
Completion

## Specify the user experience for the installation of this software on the selected devices

Notification settings:

- ☒ Allow users to run the program independently of assignments
- ☒ Show Task Sequence progress

When the scheduled assignment time 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.

Internet based clients:

- ☐ Allow task sequence to run for client on the Internet

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Next >

Summary

Cancel





## Alerts

General  
Deployment Settings  
Scheduling  
User Experience  
**Alerts**  
Distribution Points  
Summary  
Progress  
Completion

## Specify Configuration Manager and Operations Manager alert options

Configuration Manager generates alerts when this task sequence is deployed.

## Threshold for successful deployment

☐ Create a deployment alert when the threshold is lower than the following:

Percent success: 90  
After: 19-May-2019 8:25 AM

## Threshold for failed deployment

☒ Create a deployment alert when the threshold is higher than the following:

Percent failure: 10

&lt; Previous

Next &gt;

Summary

Cancel



## Distribution Points

General  
Deployment Settings  
Scheduling  
User Experience  
Alerts  
**Distribution Points**  
Summary  
Progress  
Completion

## Specify how to run the content for this program

Specify how clients interact with the distribution points to retrieve content from packages referred by the task sequence:

Deployment options:

Download content locally when needed by the running task sequence

Clients will always try to get content from distribution points in current boundary group. In addition, interaction with distribution points in neighbor boundary group can be controlled:

☐ Allow clients to use distribution points from the neighbor boundary group

When this content is not available on any distribution points in current and neighbor boundary groups, you can allow the client to use a distribution point in site default boundary group.

☐ Allow clients to use distribution points from the default site boundary group



Token based authentication (recommended) or a network access account must be configured to access content from Windows PE

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Summary

Cancel

Deploy Software Wizard

Summary

General

Deployment Settings

Scheduling

User Experience

Alerts

Distribution Points

Summary

Progress

Completion

Confirm the settings for this new deployment

Details:

Save As Template...

General

- Software: Windows 10 v1903
- Collection: Win 10 (Member Count: 1)
- Use default distribution point groups associated to this collection: Disabled
- Automatically distribute content for dependencies: Disabled
- Pre-download content for this task sequence: Disabled

Deployment Settings

- Action: Install
- Purpose: Available
- Task sequence deployment option: Only Configuration Manager Clients
- Allow clients to use a metered Internet connection to download content: Disabled

Scheduling

- Schedule when this deployment will become available: Disabled
- Schedule when this deployment will expire: Disabled
- Rerun behavior: Always rerun program

User Experience

- Allow users to run the program independently of assignments: Enabled
- Software installation: Enabled
- System restart (if required to complete the installation): Enabled
- Allow task sequence to run for client on the Internet: Disabled
- Commit changes at deadline or during a maintenance window (requires restarts): Enabled
- Show Task Sequence progress: Enabled

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

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Summary

Cancel

Deploy Software Wizard

Completion

General

Deployment Settings

Scheduling

User Experience

Alerts

Distribution Points

Summary

Progress

Completion

The Deploy Software Wizard completed successfully

Details:

Success: General

- Software: Windows 10 v1903
- Collection: Win 10 (Member Count: 1)
- Use default distribution point groups associated to this collection: Disabled
- Automatically distribute content for dependencies: Disabled
- Pre-download content for this task sequence: Disabled

Success: Deployment Settings

- Action: Install
- Purpose: Available
- Task sequence deployment option: Only Configuration Manager Clients
- Allow clients to use a metered Internet connection to download content: Disabled

Success: Scheduling

- Schedule when this deployment will become available: Disabled
- Schedule when this deployment will expire: Disabled
- Rerun behavior: Always rerun program

Success: User Experience

- Allow users to run the program independently of assignments: Enabled
- Software installation: Enabled
- System restart (if required to complete the installation): Enabled

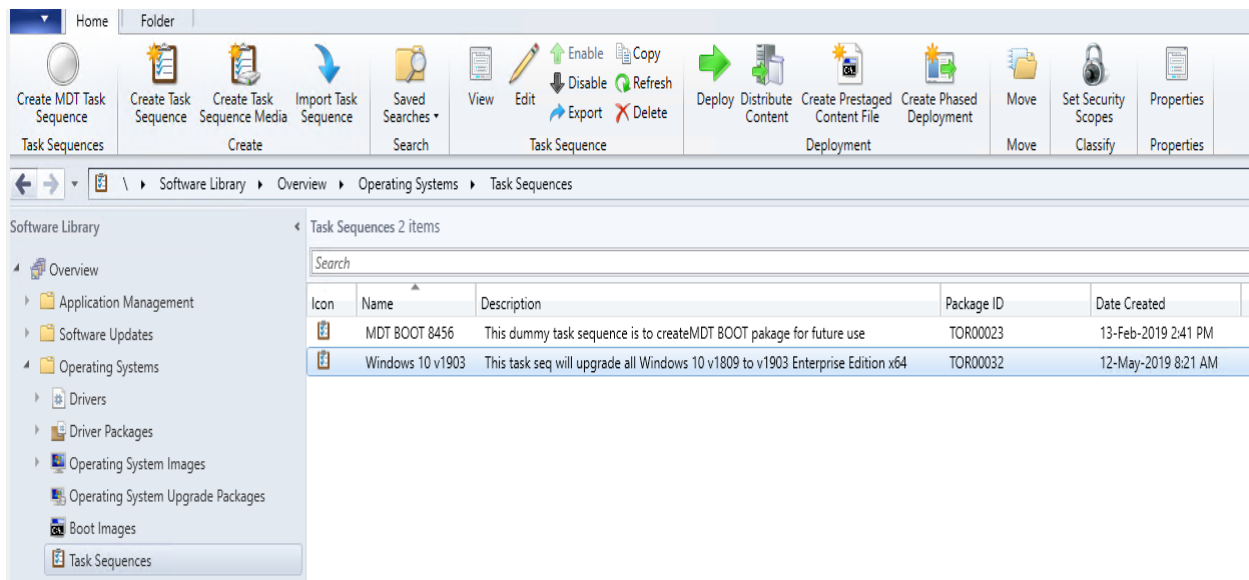
To exit the wizard, click Close.

< Previous

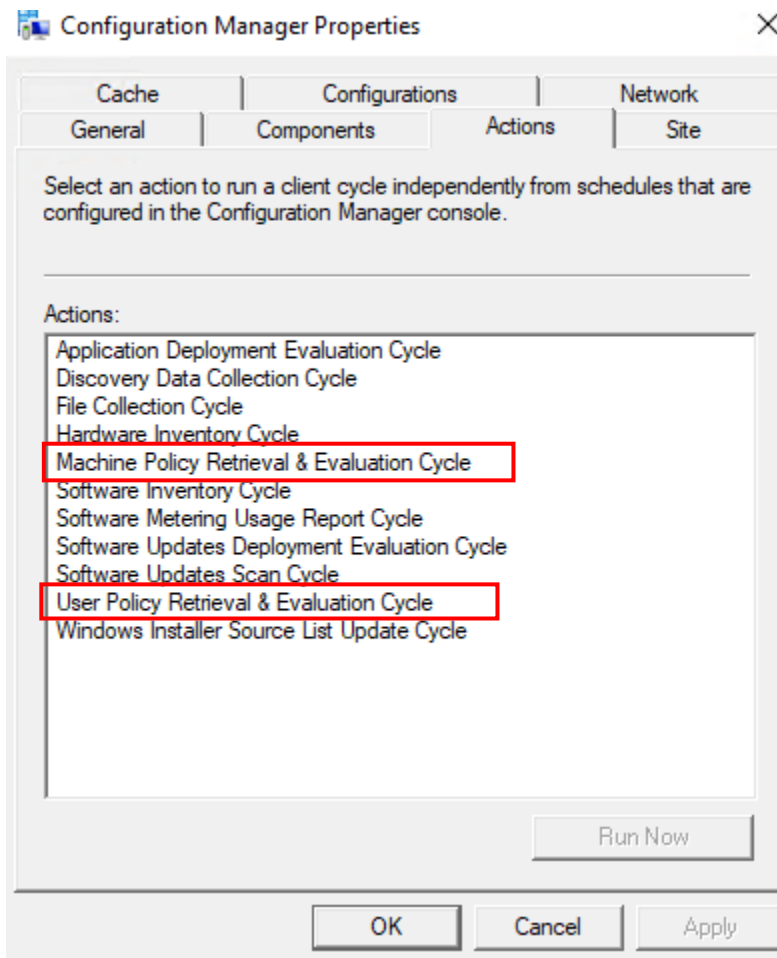
Next >

Summary

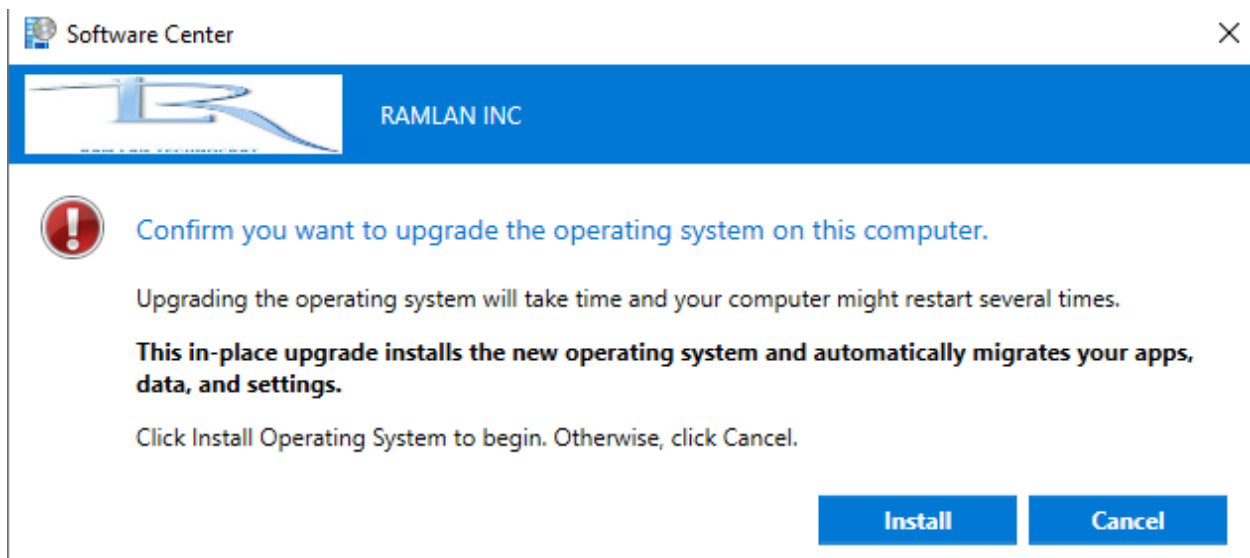
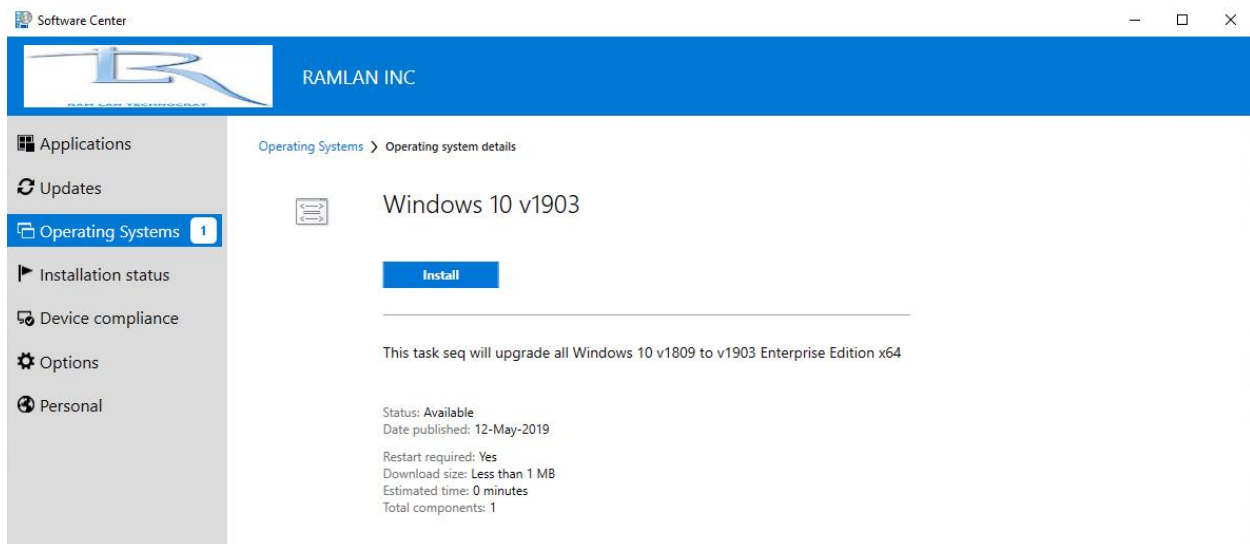
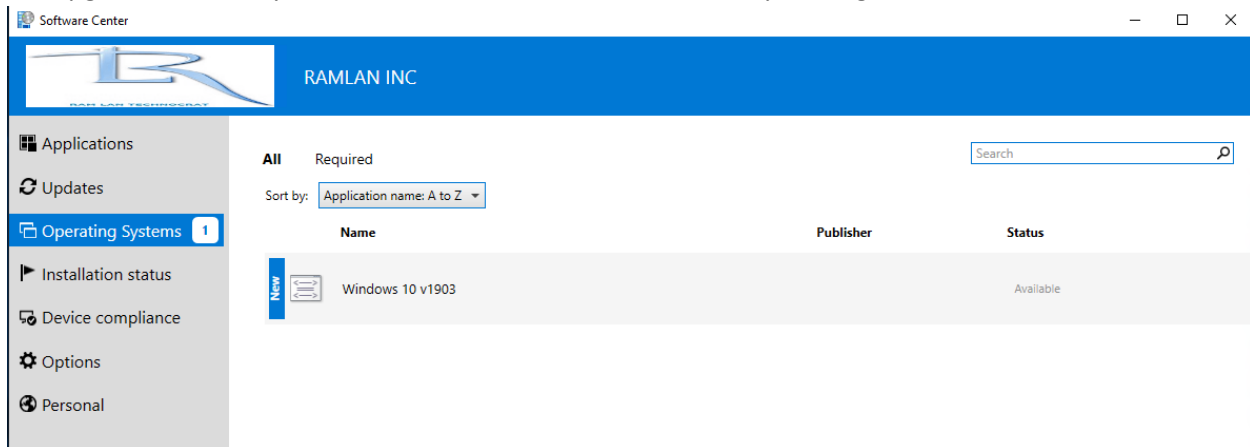
Close



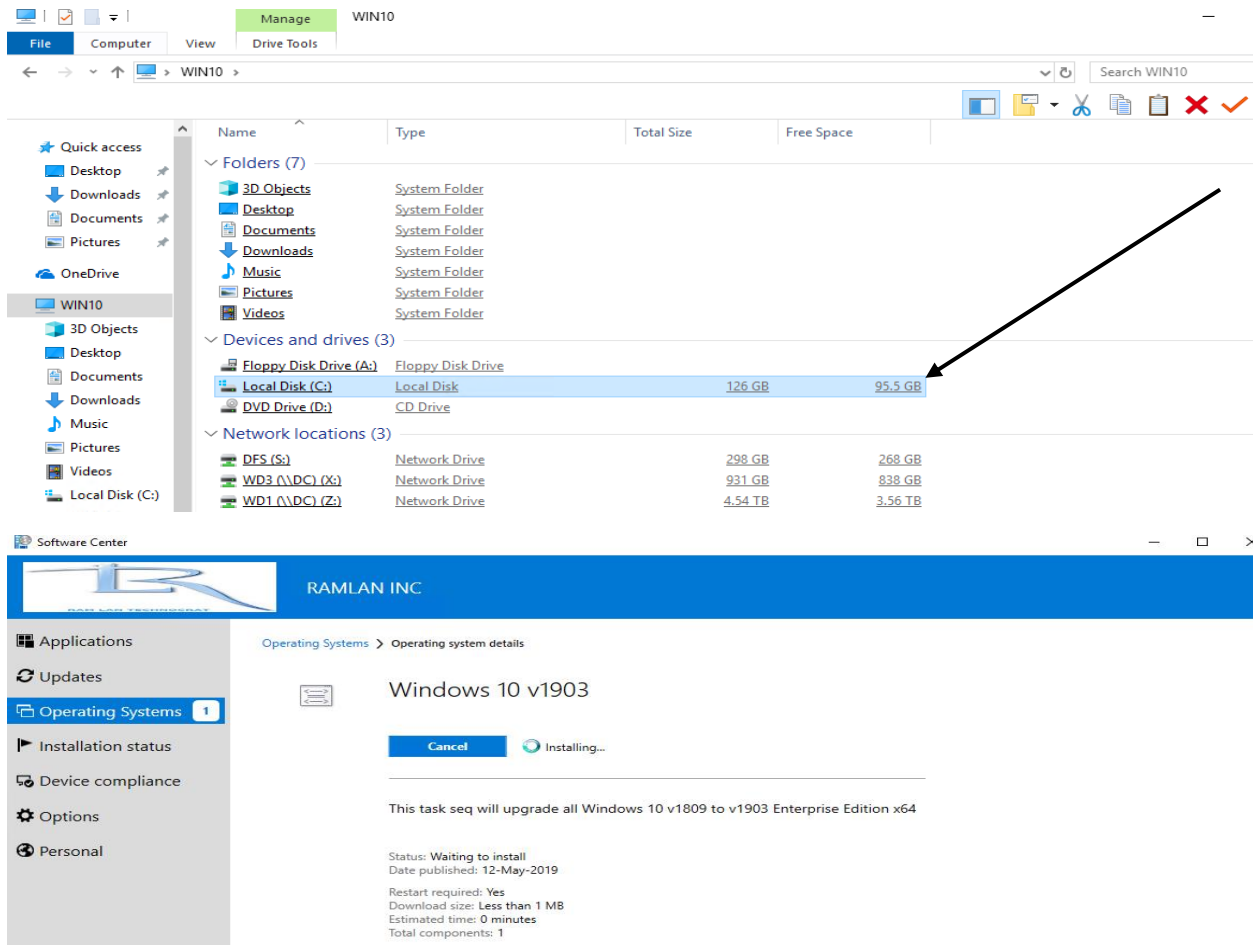
If you want to see the task sequence immediately – Login to Windows 10 machine – Open Control Panel – Configuration Manager – Run Machine and User Policy.



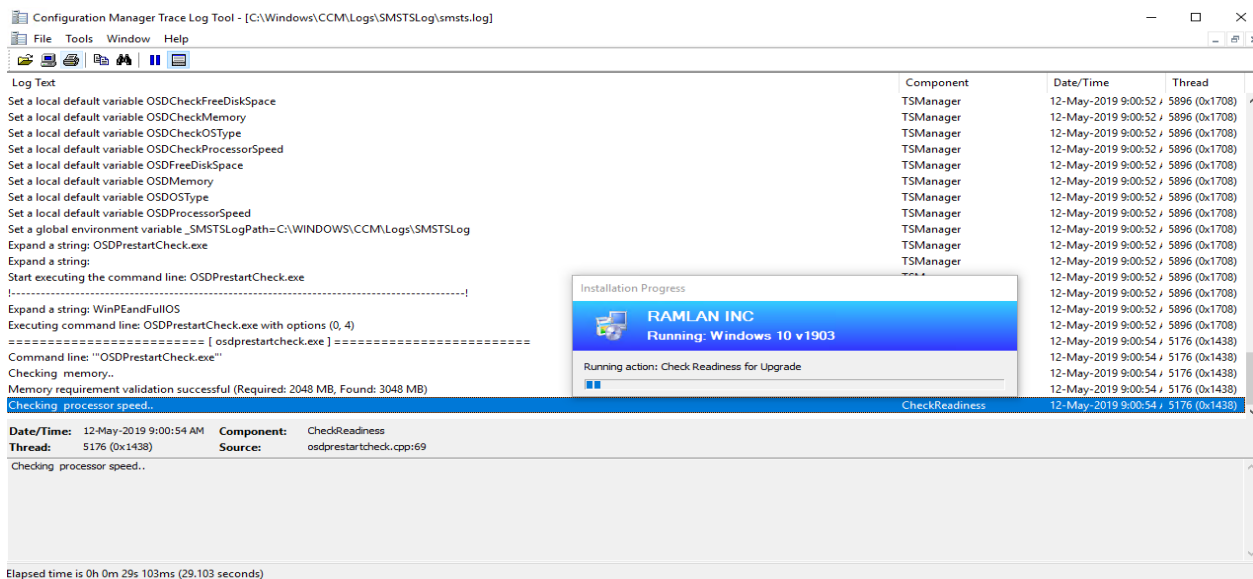
Now, I can see the task sequence in Operating Systems. This will make users happy because they can do the upgrade when they have time but before the deadline set by the organization.



I just want to see how much space the upgrade takes. So, took a screen shot of C drive space.



It is very important that you know which log file should you refer while the upgrade process is running. The answer is C:\Windows\CCM\Logs\SMSTSLog\SMSTS.log.



Installation Progress

**RAMLAN INC**  
Running: Windows 10 v1903

Running action: Upgrade Operating System

Downloading boot.wim (7% complete)

Configuration Manager Trace Log Tool - [C:\Windows\CCM\Log\SMSTSLog\smsts.log]

File Tools Window Help

Log Text

Component	Date/Time	Thread
OSDUpgradeWindows	12-May-2019 9:05:07	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:07	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:07	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:07	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:07	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:07	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:08	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:08	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:08	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:08	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:09	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:09	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:09	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:05:10	5088 (0x13E0)

Date/Time: 12-May-2019 9:05:10 AM Component: OSDUpgradeWindows  
Thread: 5088 (0x13E0) Source: downloadcontent.cpp:1622

Elapsed time is 0h 4m 45s 278ms (285.278 seconds)

Installation Progress

**RAMLAN INC**  
Running: Windows 10 v1903

Running action: Upgrade Operating System

Downloading install.wim (29% complete)

Configuration Manager Trace Log Tool - [C:\Windows\CCM\Log\SMSTSLog\smsts.log]

File Tools Window Help

Log Text

Component	Date/Time	Thread
OSDUpgradeWindows	12-May-2019 9:06:20	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:20	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:20	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:20	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:20	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:21	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:21	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:21	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:21	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:21	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:21	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:21	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:22	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:22	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:22	5088 (0x13E0)
OSDUpgradeWindows	12-May-2019 9:06:22	5088 (0x13E0)

Date/Time: 12-May-2019 9:06:22 AM Component: OSDUpgradeWindows  
Thread: 5088 (0x13E0) Source: downloadcontent.cpp:1622

Elapsed time is 0h 5m 57s 965ms (337.965 seconds)



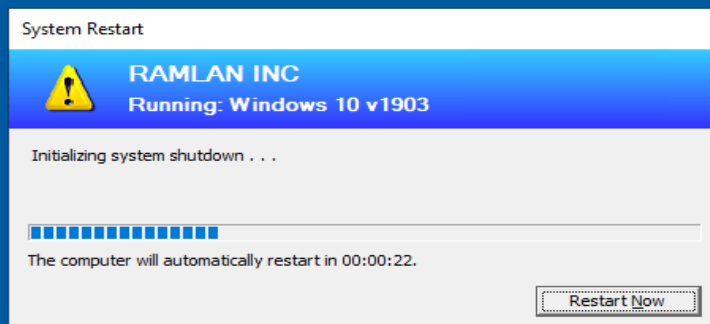




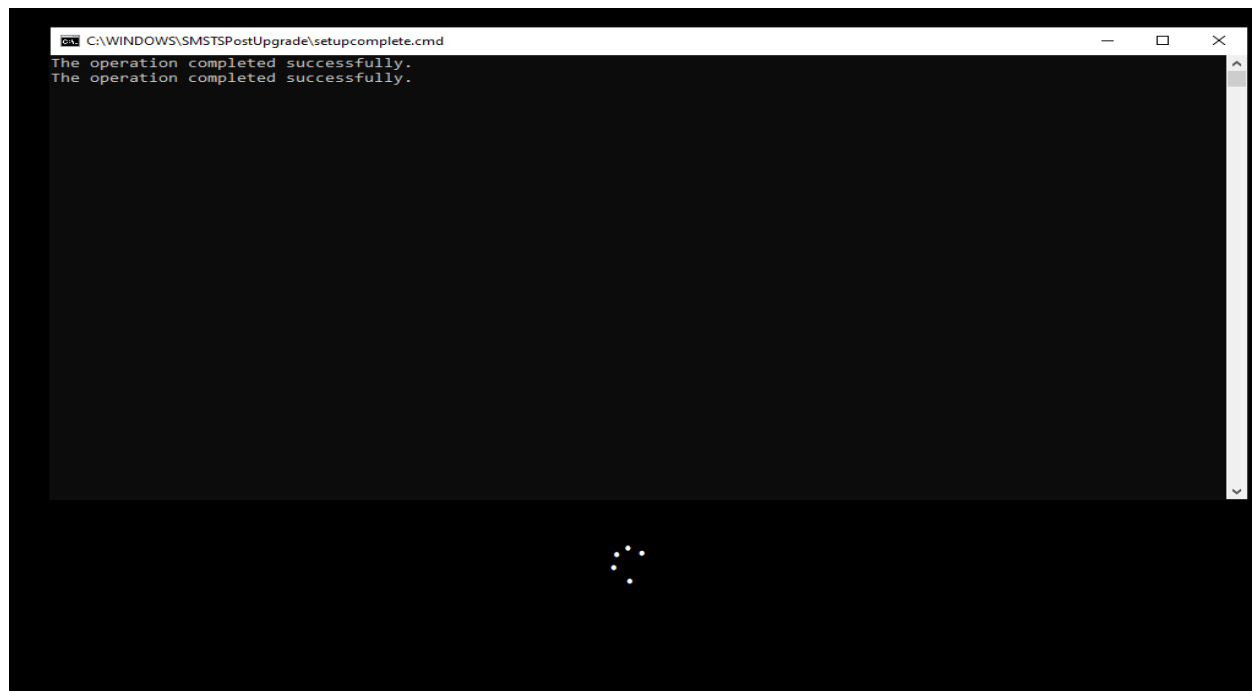


Working on updates: 2%  
Don't turn off your PC. This will take a while.

Your PC will restart several times.

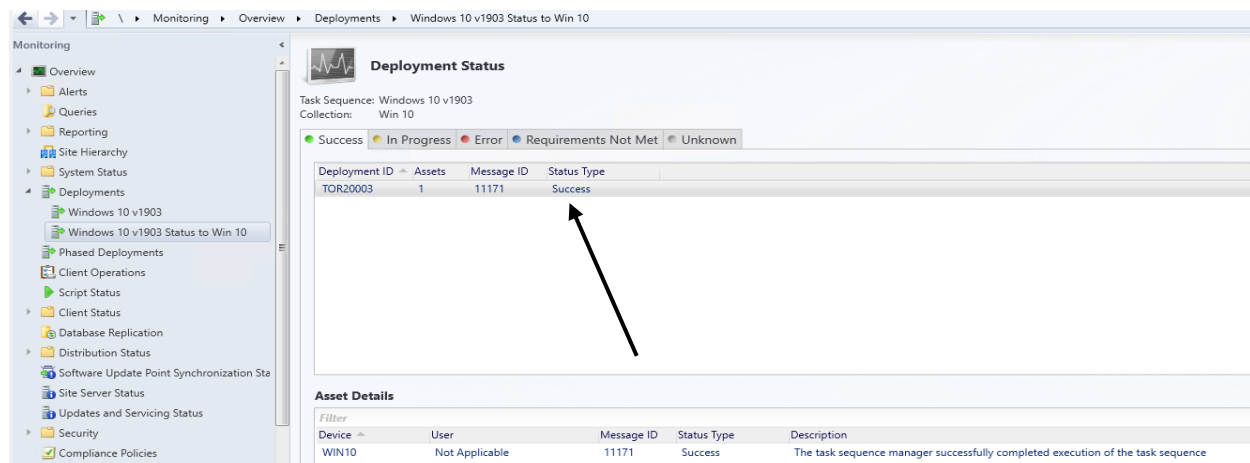
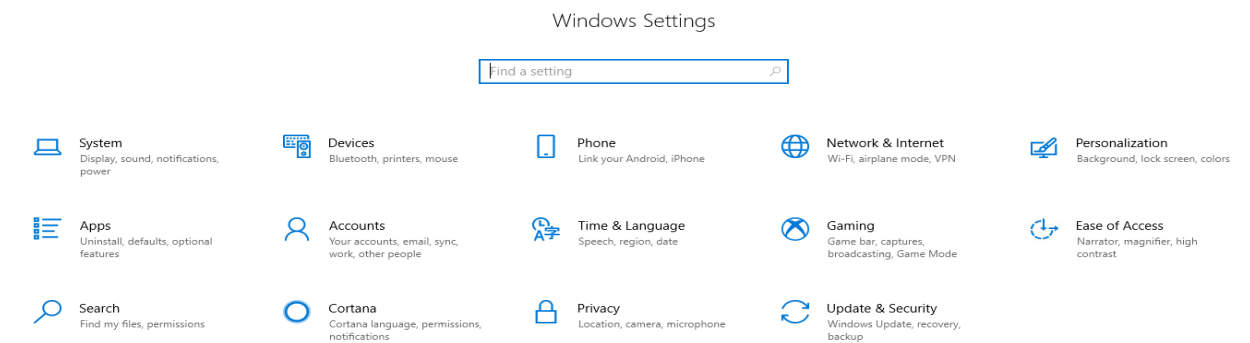
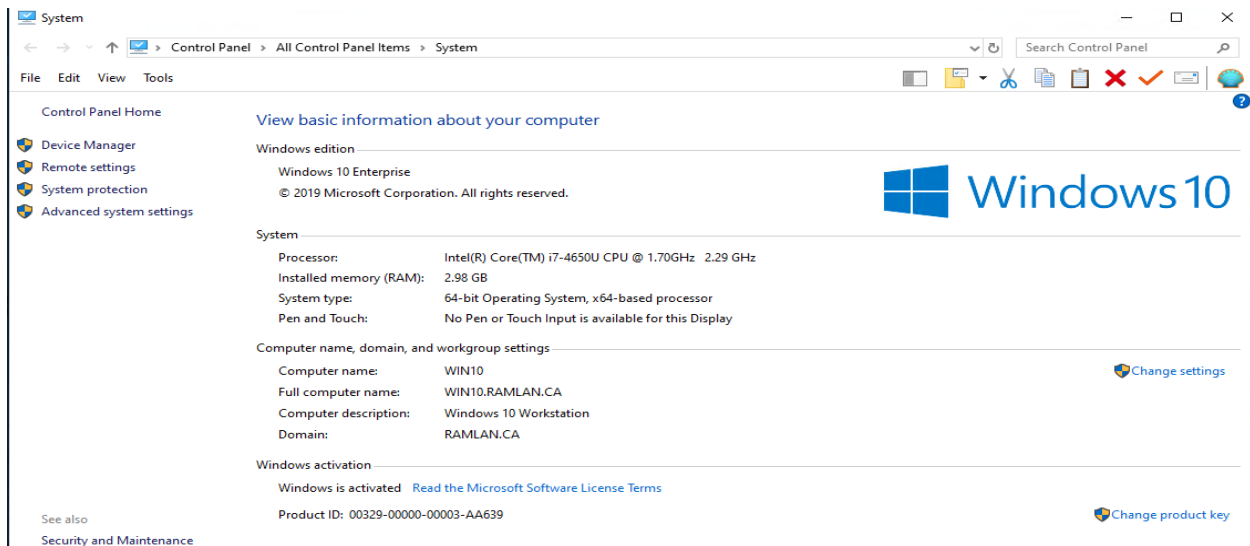


Your PC will restart several times.



## Windows specifications

Edition	Windows 10 Enterprise
Version	1903
Installed on	12-May-2019
OS build	18362.30



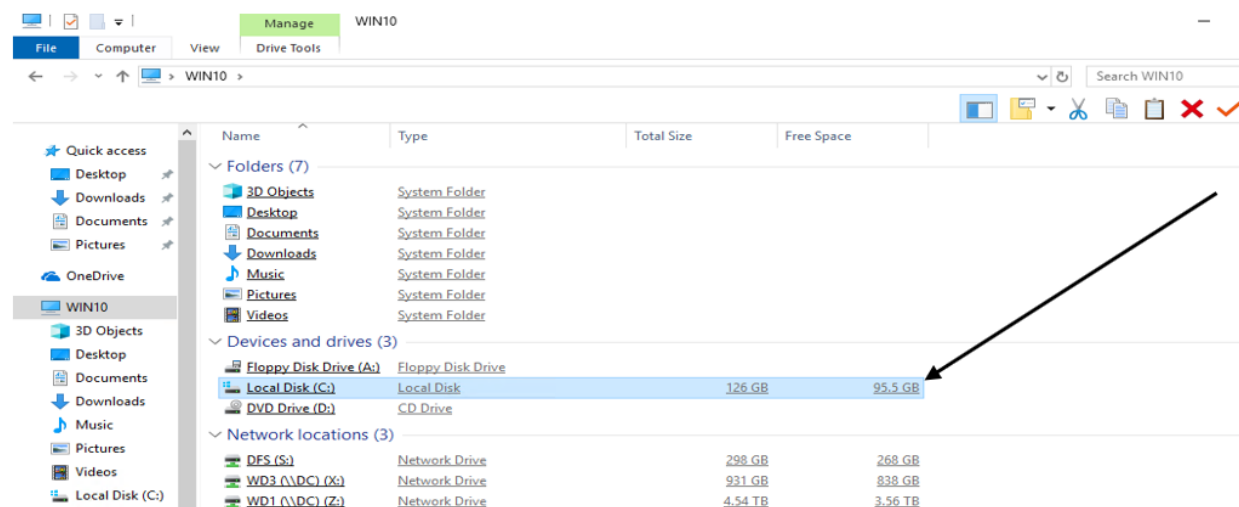
The upgrade process is complete. We successfully upgraded Windows 10 v1809 to Windows 10 v1903 using SCCM upgrade task sequence.

The process took 120 minutes to complete on a machine with 200GB Hard Disk , 3GB memory and i7 6550 processor.

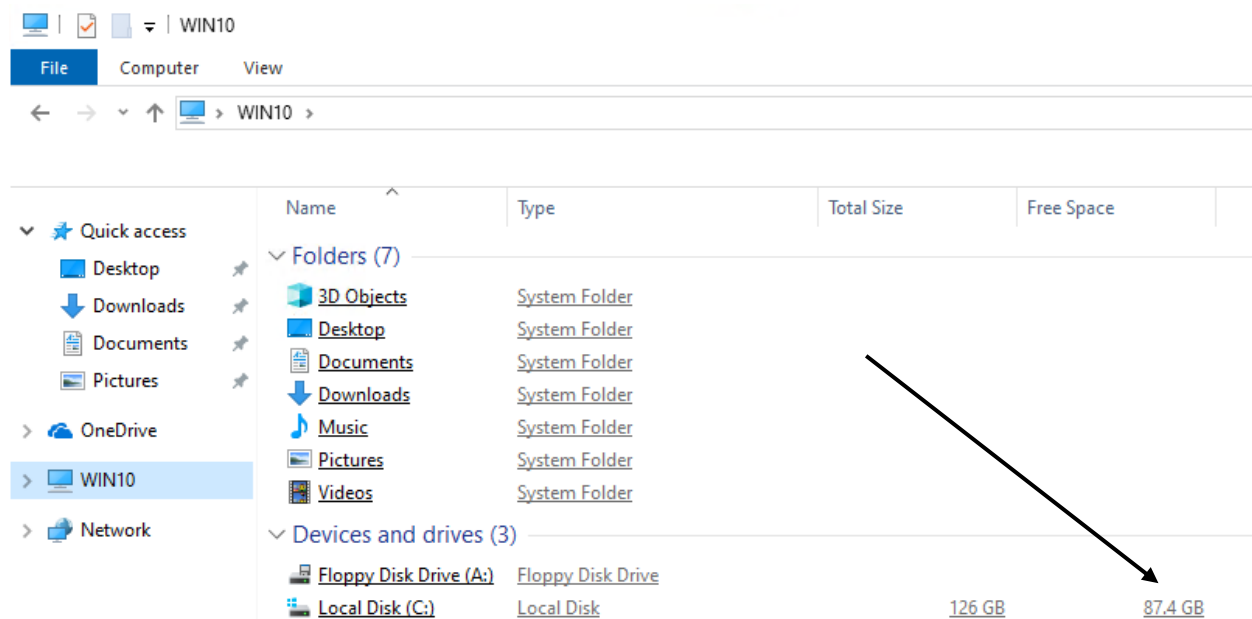
Thanks

**Ram Lan**  
**12<sup>th</sup> May 2019**

I just want to see how much space the upgrade takes. So, took a screen shot of C drive space.



Name	Type	Total Size	Free Space
<b>Folders (7)</b>			
3D Objects	System Folder		
Desktop	System Folder		
Documents	System Folder		
Downloads	System Folder		
Music	System Folder		
Pictures	System Folder		
Videos	System Folder		
<b>Devices and drives (3)</b>			
Floppy Disk Drive (A:)	Floppy Disk Drive		
Local Disk (C:)	Local Disk	126 GB	95.5 GB
DVD Drive (D:)	CD Drive		
<b>Network locations (3)</b>			
DFS (S:)	Network Drive	298 GB	268 GB
WD3 (\DC) (G:)	Network Drive	931 GB	838 GB
WD1 (\DC) (Z:)	Network Drive	4.54 TB	3.56 TB



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Documents	System Folder		
Downloads	System Folder		
Music	System Folder		
Pictures	System Folder		
Videos	System Folder		
<b>Devices and drives (3)</b>			
Floppy Disk Drive (A:)	Floppy Disk Drive		
Local Disk (C:)	Local Disk	126 GB	87.4 GB

Less than 10GB. So in place upgrade can take place, if you have at least 20GB free space.