

EPREUVE E5

FICHIER

INSTALLATION

&

CONFIGURATION

1. Installation des Kits de déploiement et d'évaluation Windows (ADK)

- Téléchargement de l'ADK
- Installation des composants nécessaires de l'ADK

2. Installation de Microsoft Deployment Toolkit (MDT)

- Téléchargement de MDT
- Installation de MDT

3. Installation des services de déploiement Windows (WDS)

- Prérequis pour WDS
- Installation de WDS sur le serveur

4. Configuration de Microsoft Deployment Toolkit (MDT)

- Création du partage de déploiement
- Modification des propriétés
- Importation des systèmes d'exploitation
- Configuration des tâches dans MDT
- Importation des drivers
- Update de l'image de démarrage

5. Configuration du serveur DHCP

- Configuration des options DHCP pour le support PXE

6. Configuration des services de déploiement Windows (WDS)

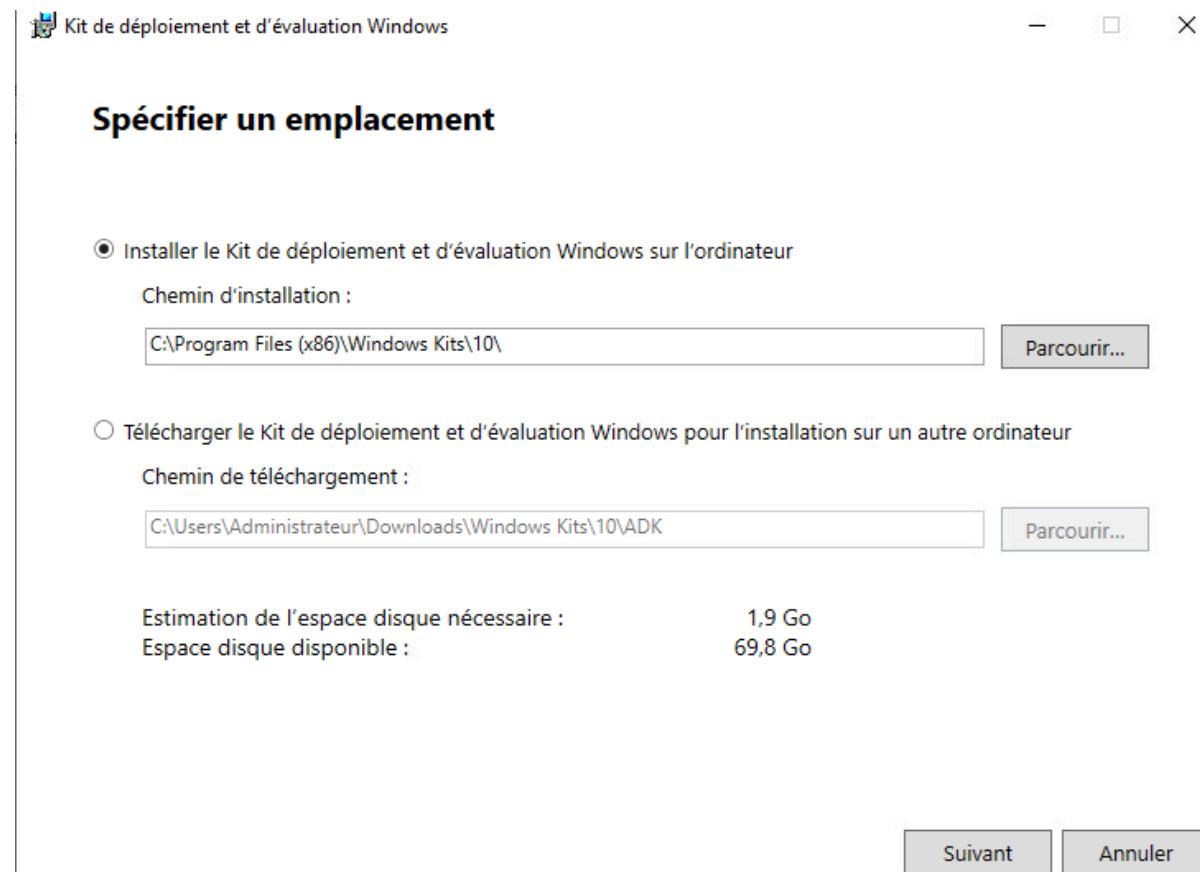
- Configuration du serveur PXE
- Ajout des images de démarrage

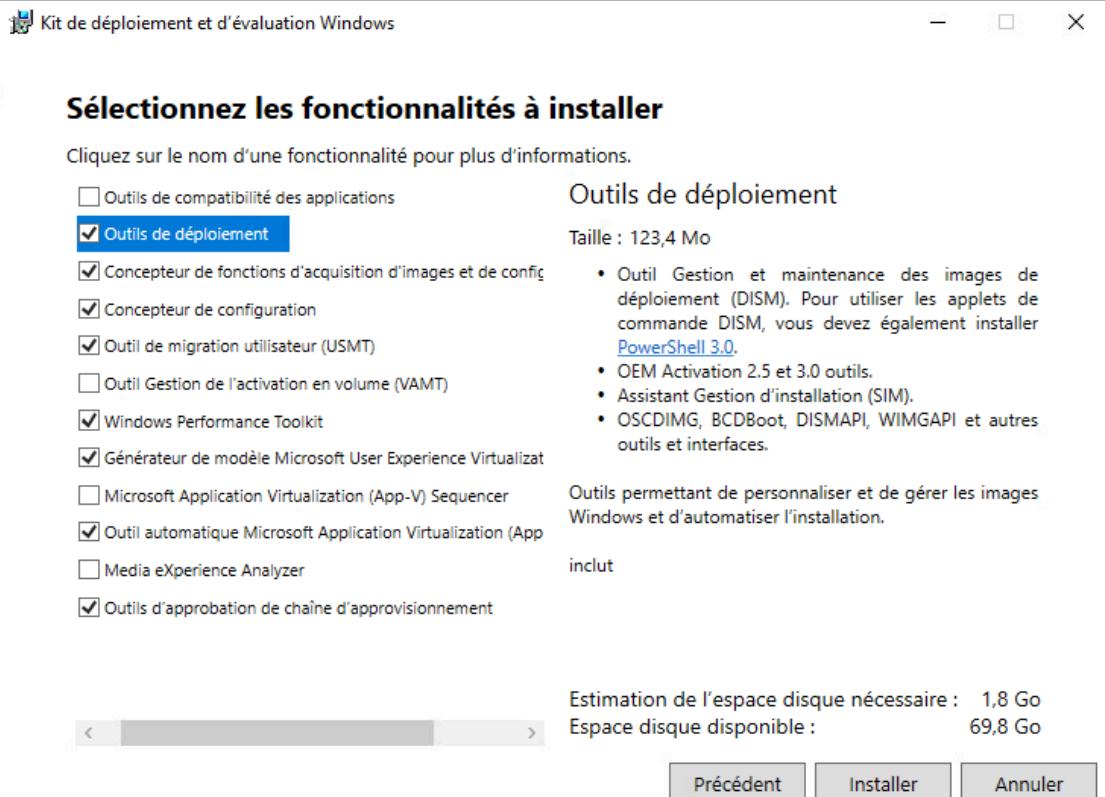
1. Installation des Kits de déploiement et d'évaluation Windows (ADK)

Récupérer les ADK de windows et WinPe et installer les.

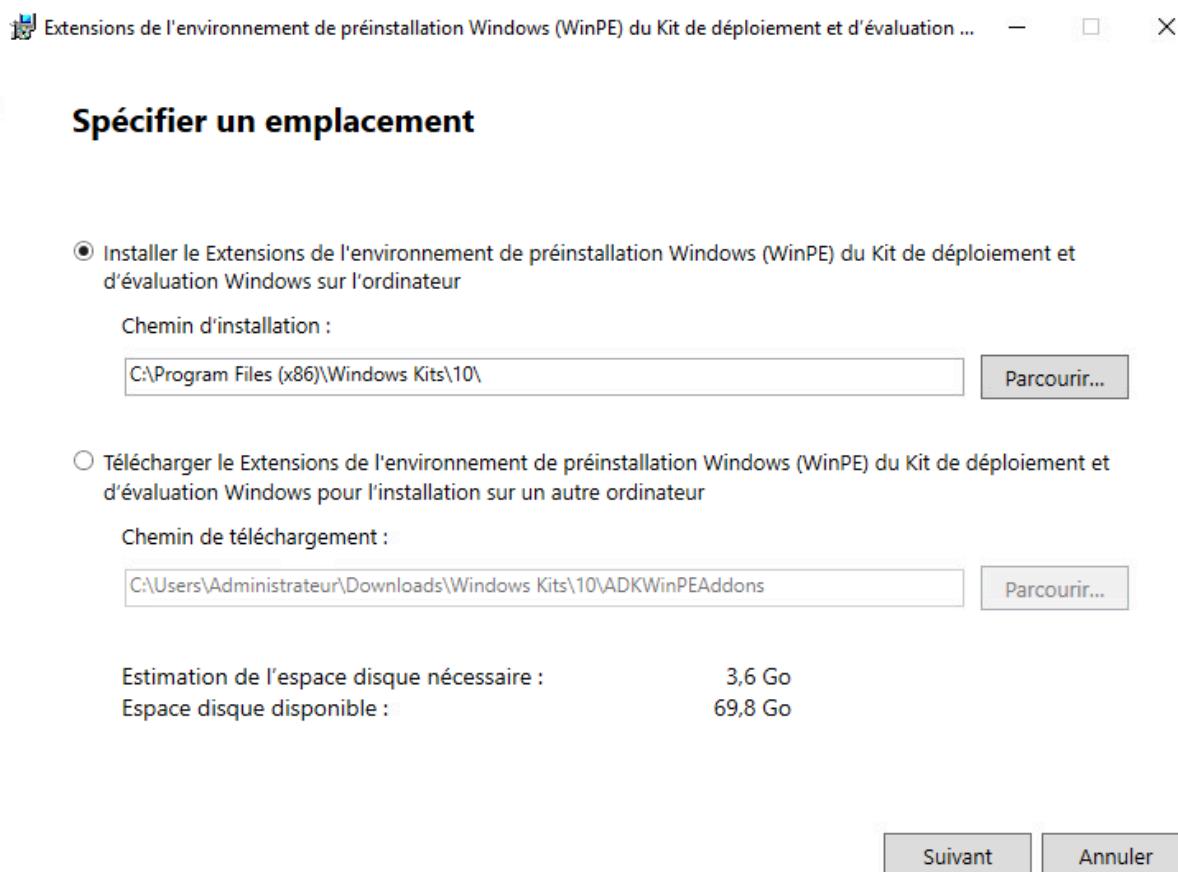
<https://learn.microsoft.com/fr-fr/windows-hardware/get-started/adk-install>

ADK windows :





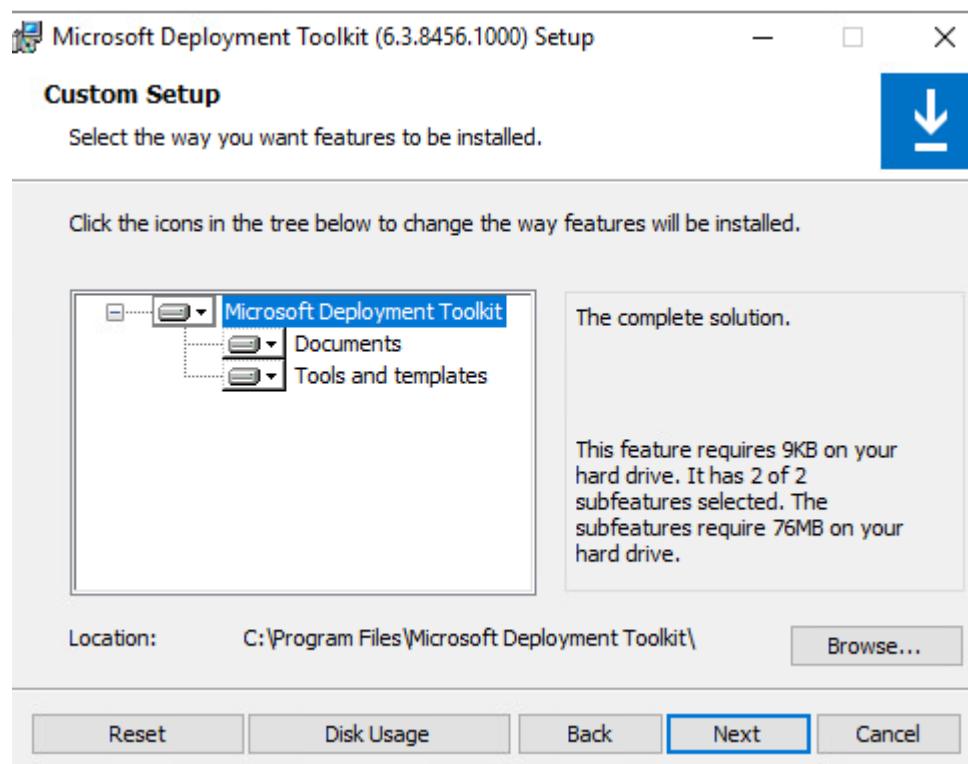
ADK WinPe



2. Installation de Microsoft Deployment Toolkit (MDT)

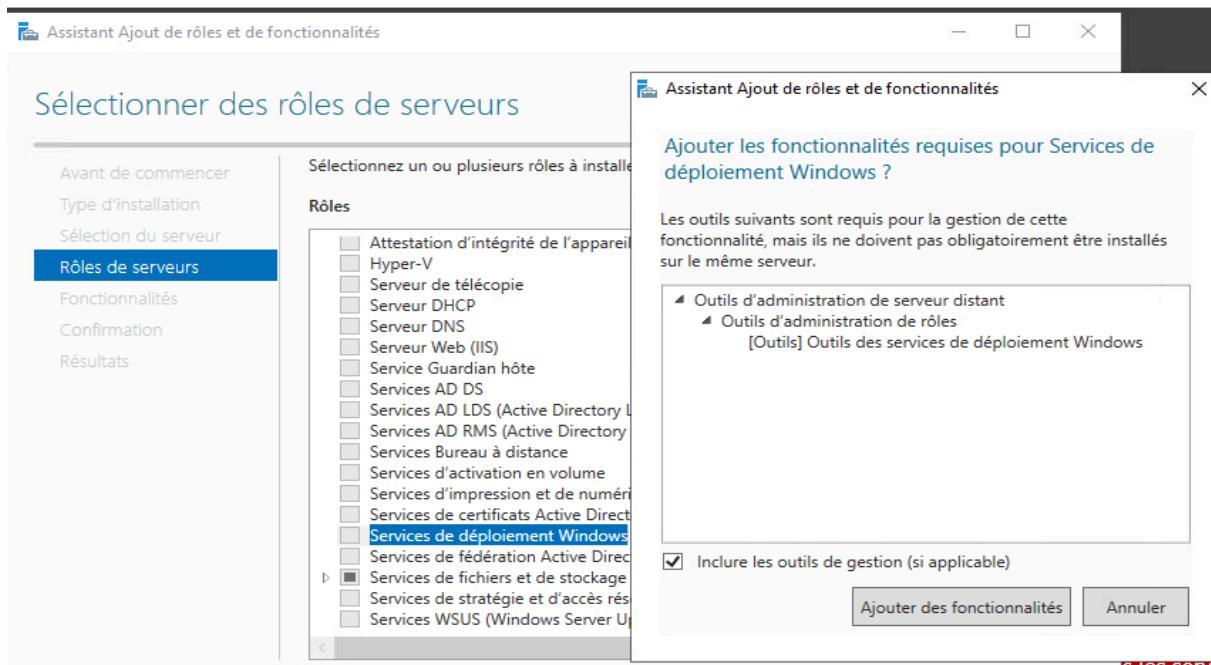
Microsoft Deployment ToolKit

<https://www.microsoft.com/en-gb/download/details.aspx?id=54259>

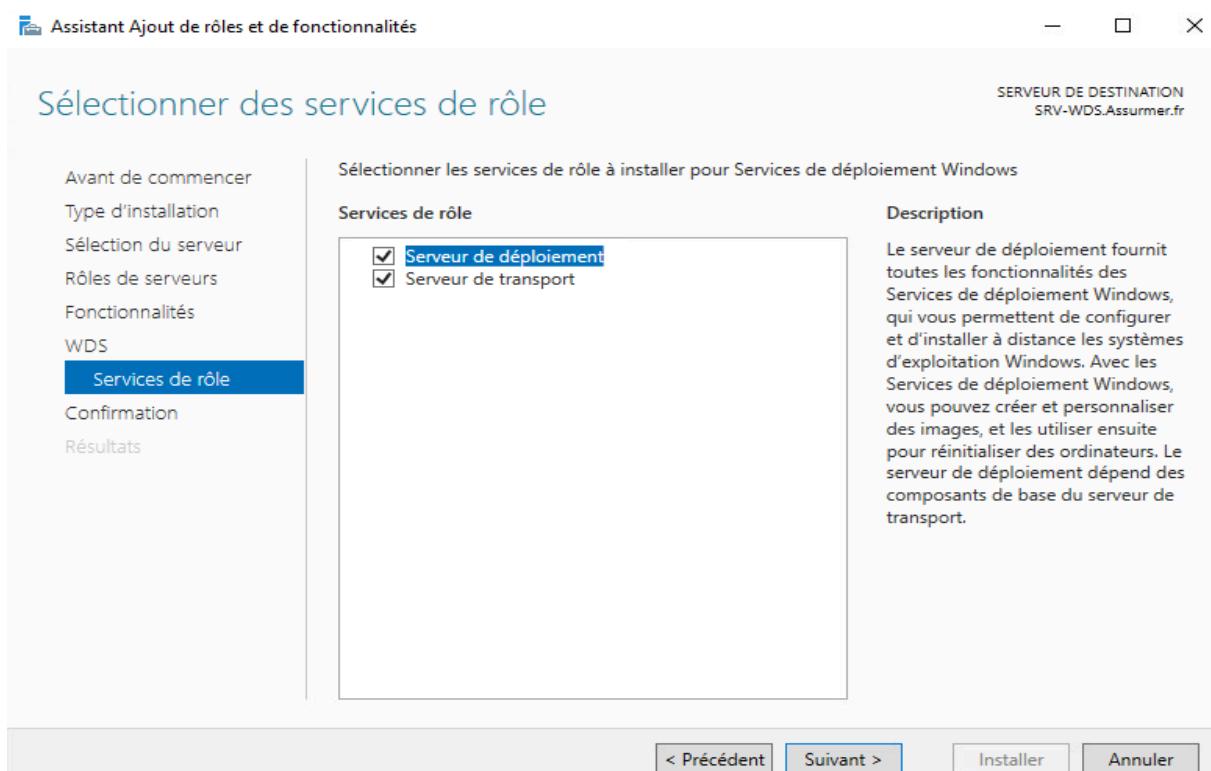


3. Installation des services de déploiement Windows (WDS)

Installer le service de déploiement Windows



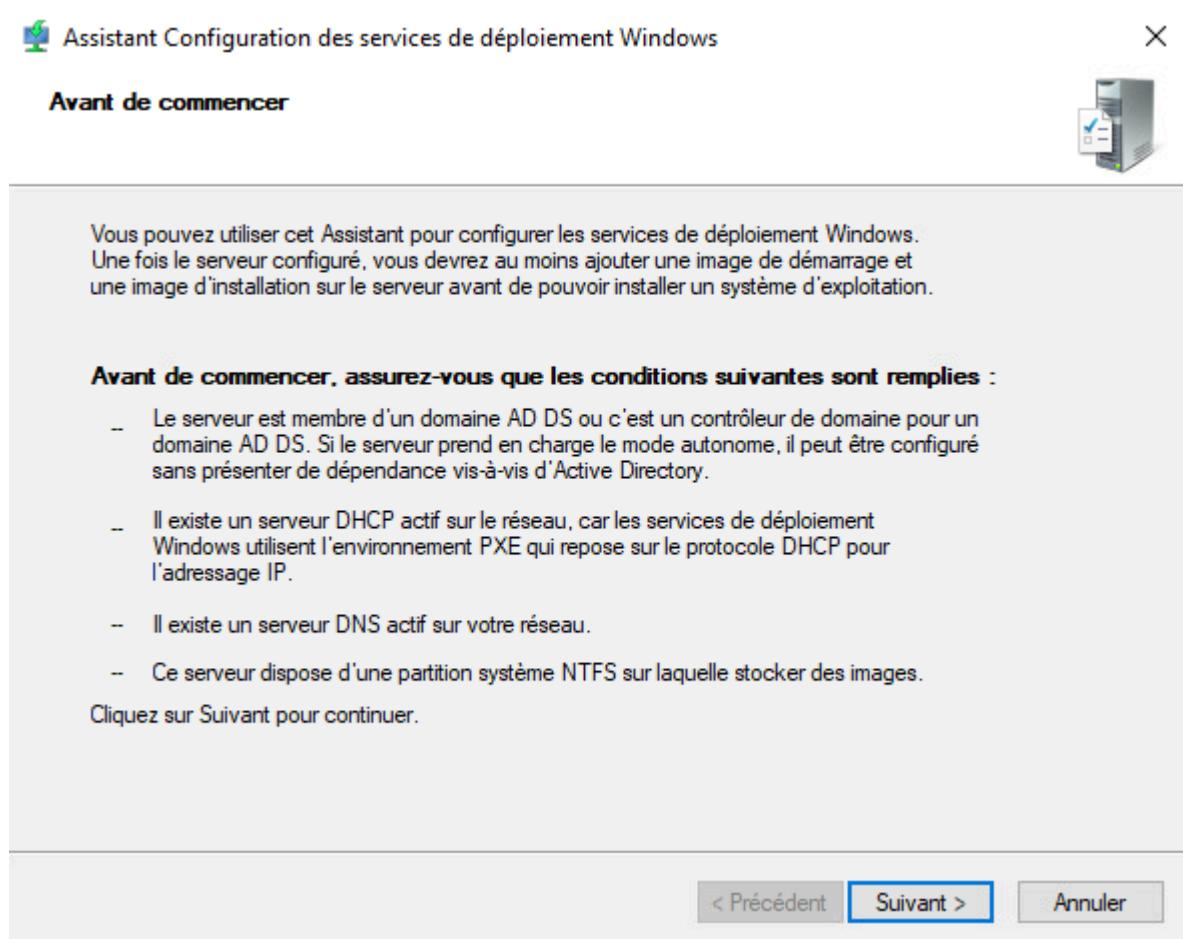
Cocher les deux

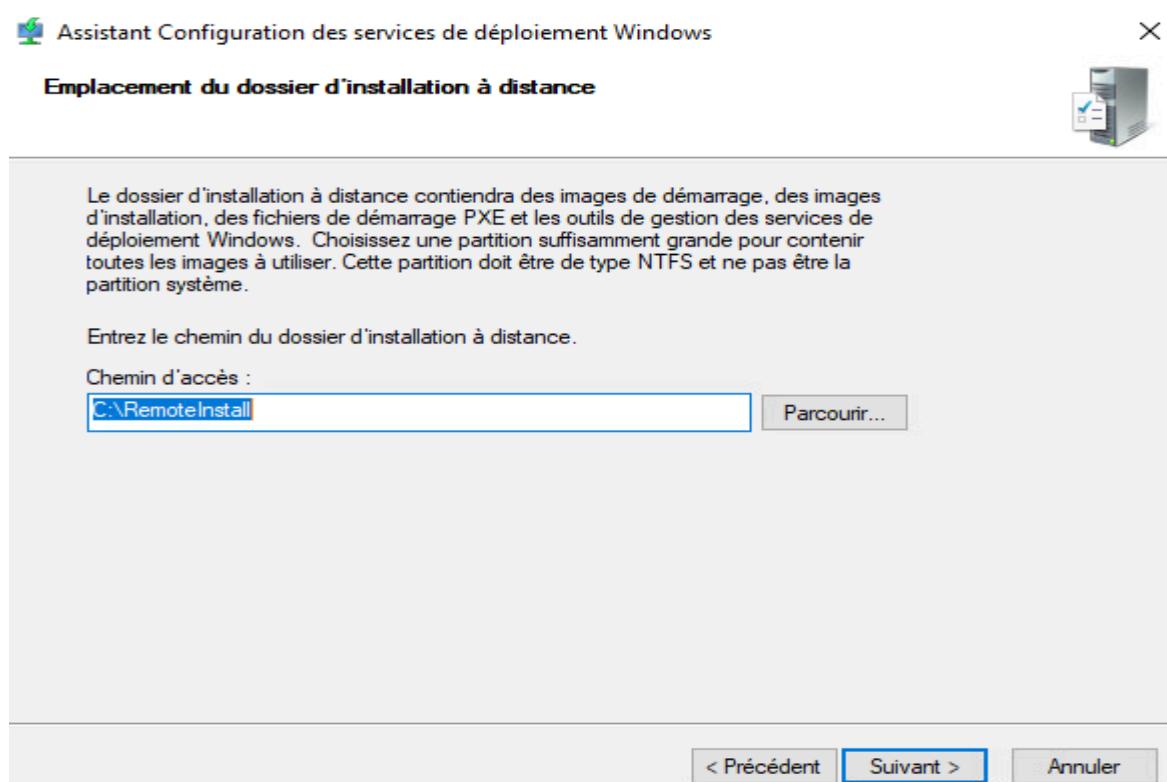
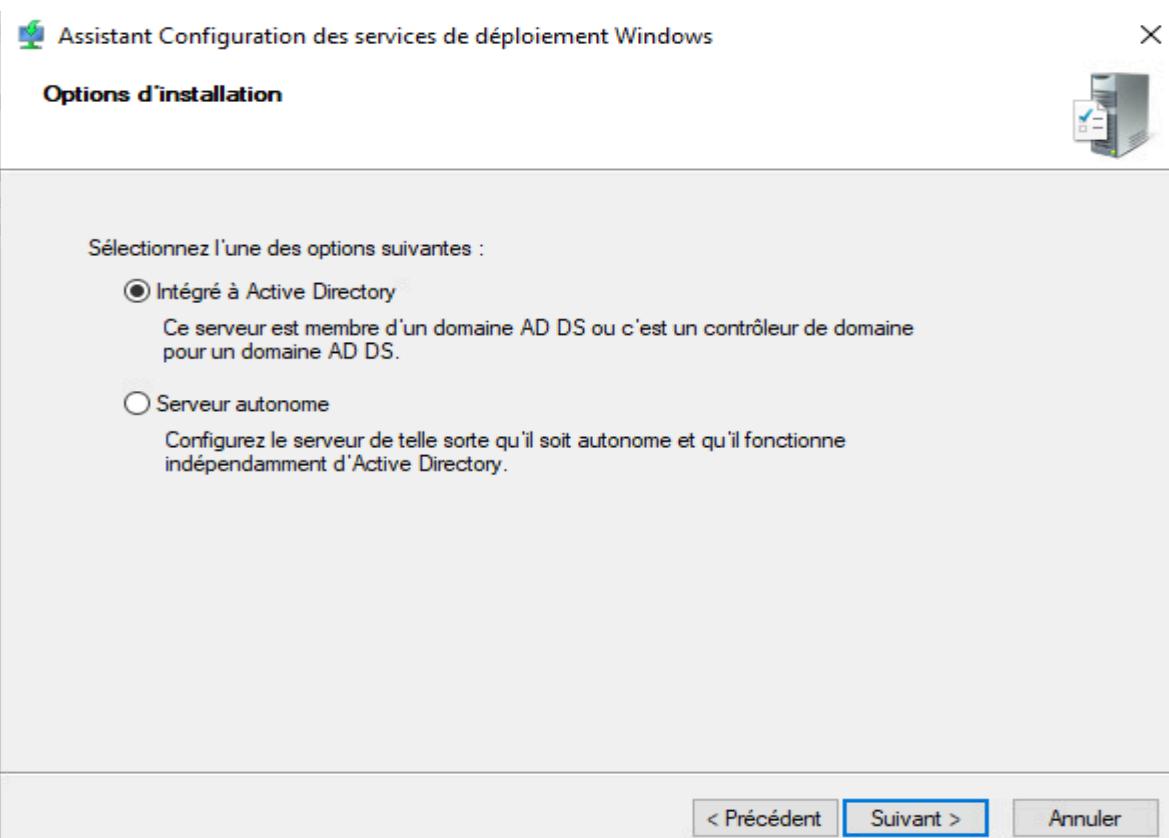


Aller dans la console de services de déploiement Windows et configurer le serveur.

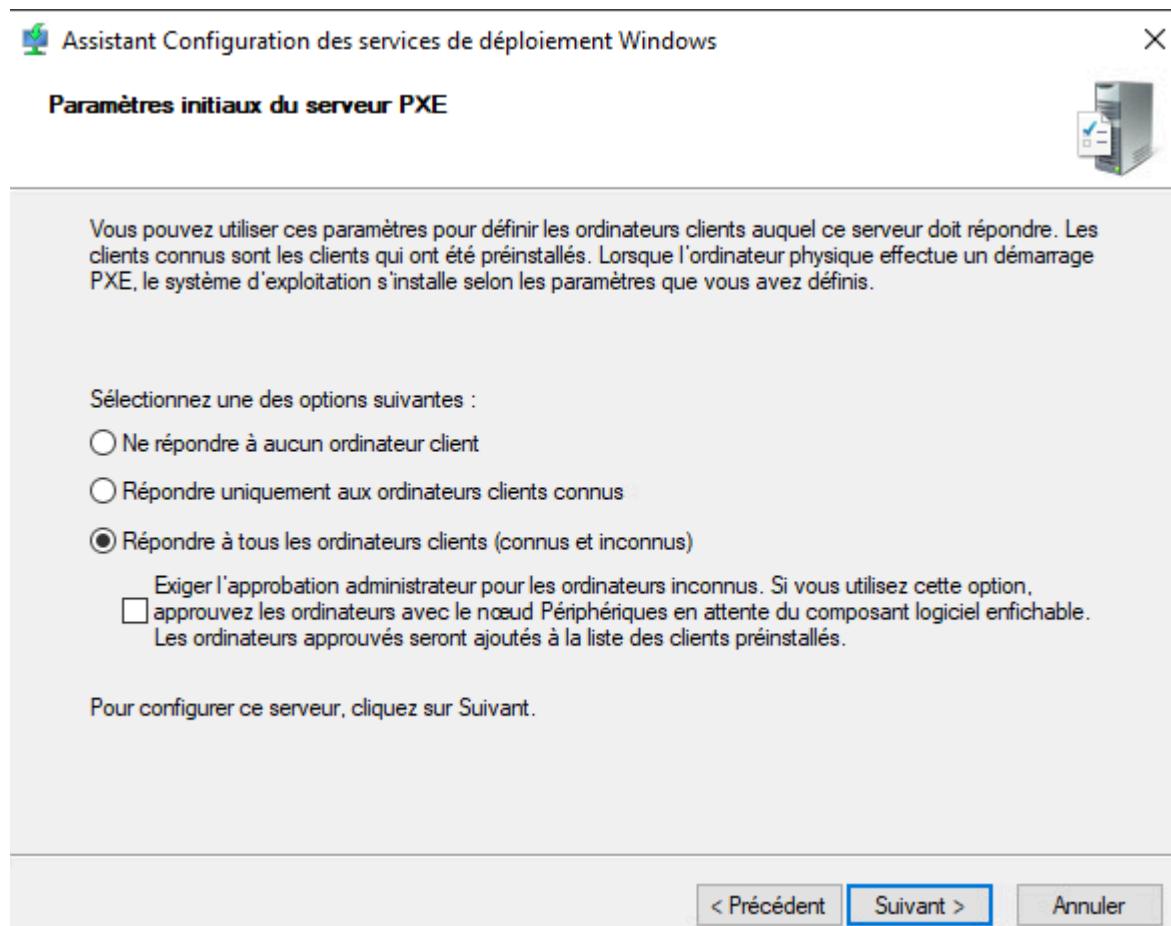


Les prérequis :

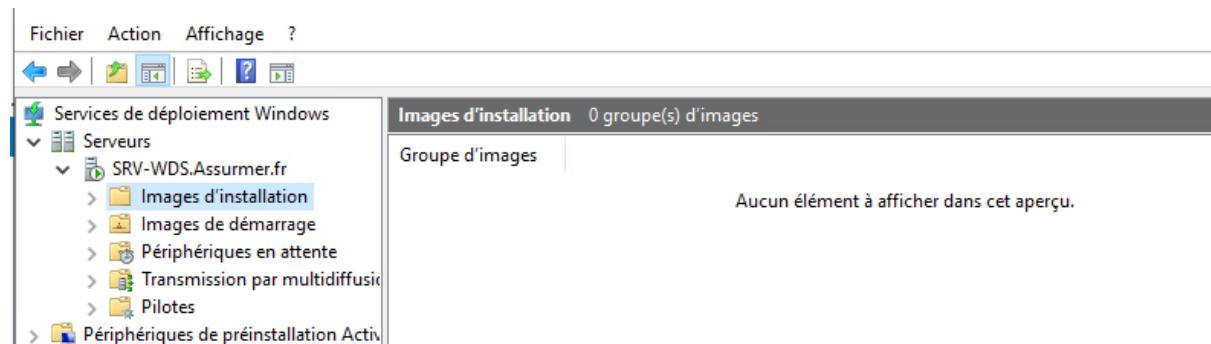




Il faut cocher "Répondre à tous les ordinateurs clients(connus et inconnus)"

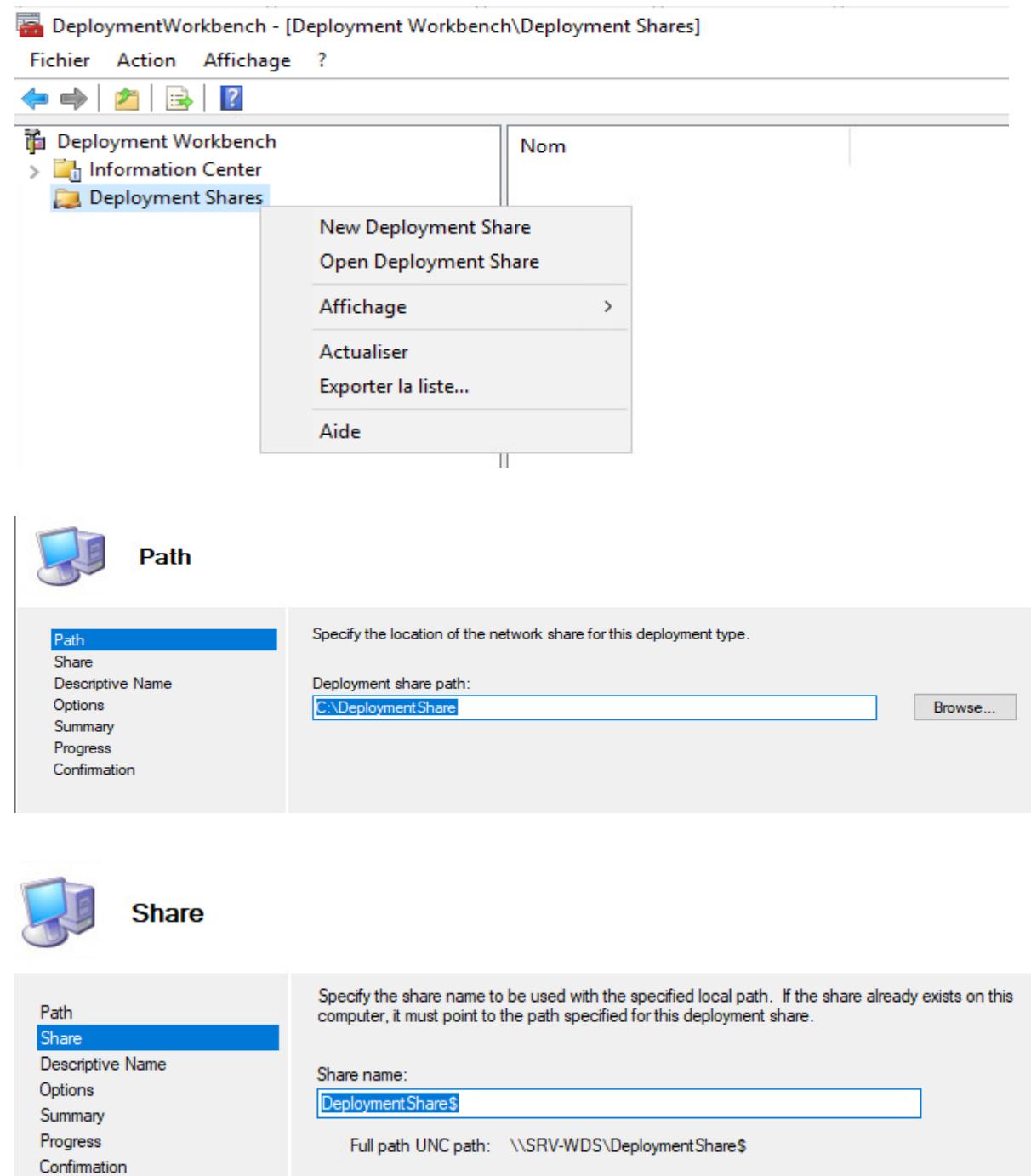


Le serveur est configuré nous y reviendrons rajouter l'image de démarrage



4. Configuration de Microsoft Deployment Toolkit (MDT)

Premièrement il faut créer un nouveau déploiement



The screenshot shows the Microsoft Deployment Workbench interface. The title bar reads "DeploymentWorkbench - [Deployment Workbench\Deployment Shares]". The menu bar includes "Fichier", "Action", "Affichage", and "?". The toolbar has icons for back, forward, file, and help. The left sidebar shows "Deployment Workbench", "Information Center", and "Deployment Shares" (which is selected). A context menu is open over the "Deployment Shares" item, listing "New Deployment Share", "Open Deployment Share", "Affichage", "Actualiser", "Exporter la liste...", and "Aide".

Path

Path

Share

Descriptive Name

Options

Summary

Progress

Confirmation

Specify the location of the network share for this deployment type.

Deployment share path:

Share

Path

Share

Descriptive Name

Options

Summary

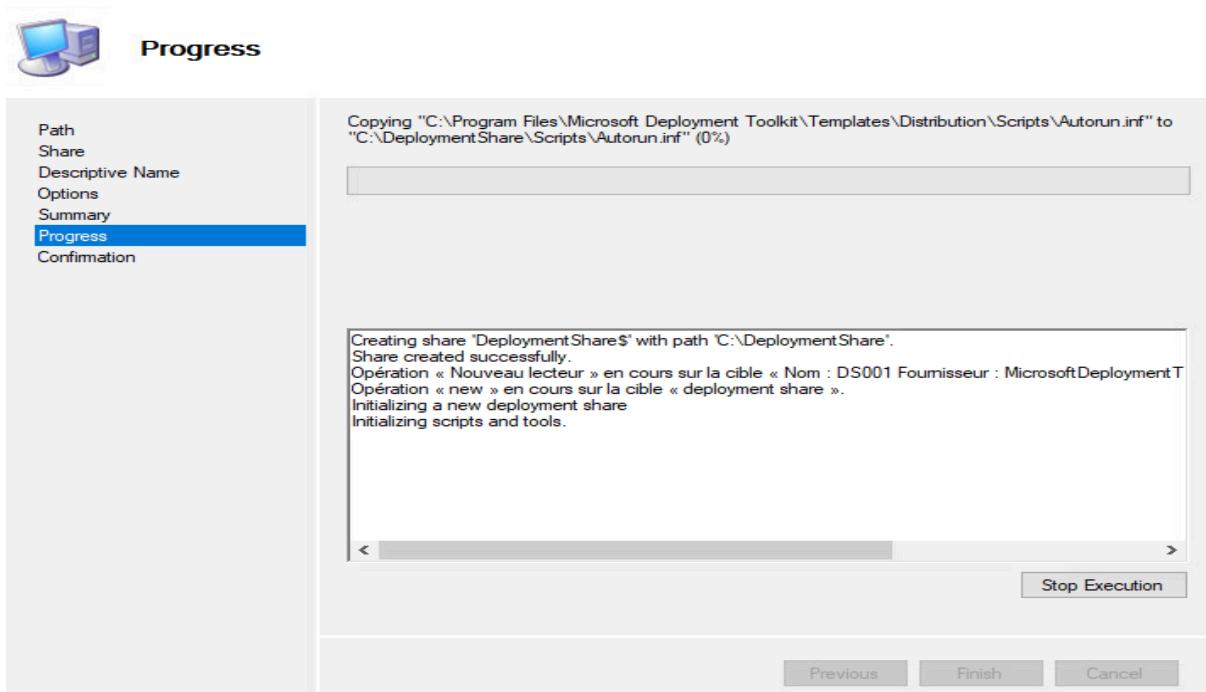
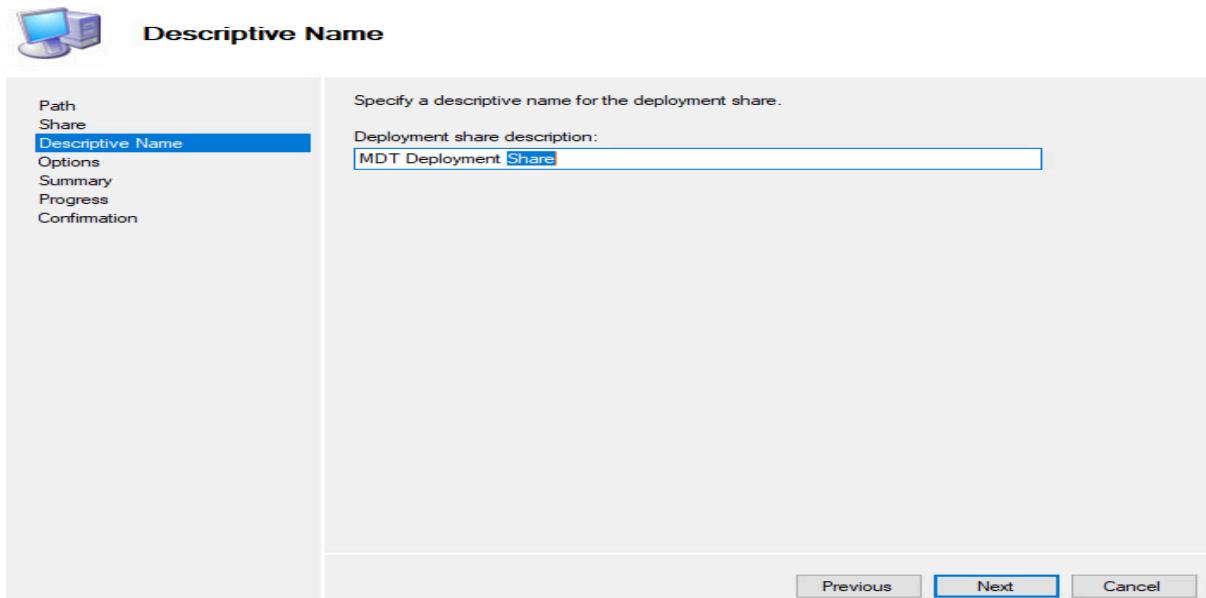
Progress

Confirmation

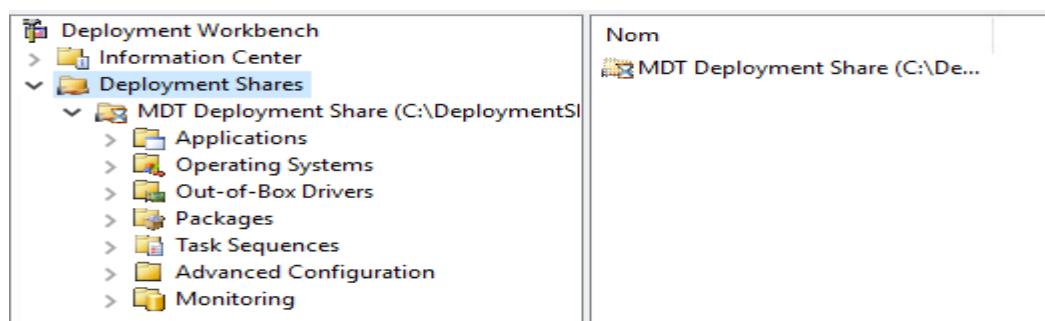
Specify the share name to be used with the specified local path. If the share already exists on this computer, it must point to the path specified for this deployment share.

Share name:

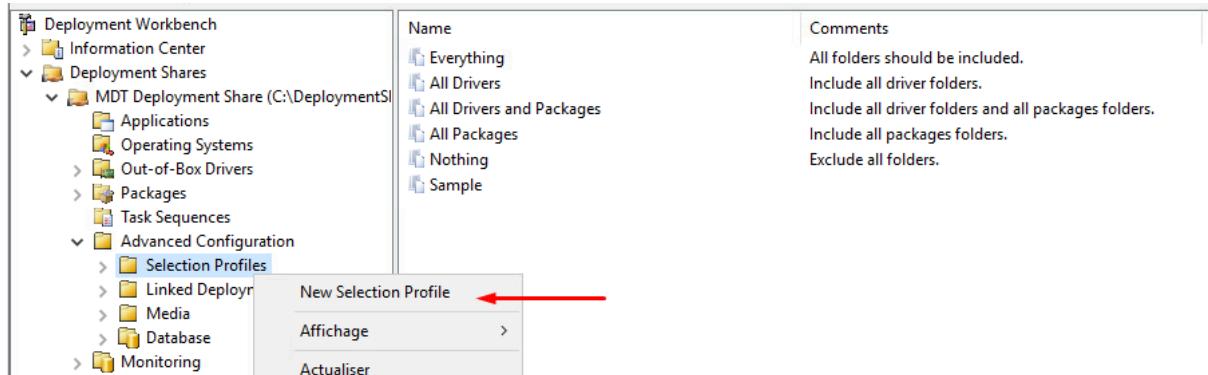
Full path UNC path: \\SRV-WDS\DeploymentShare\$



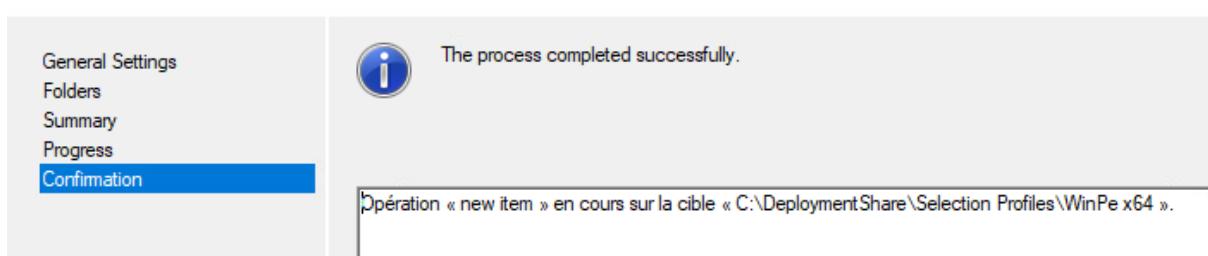
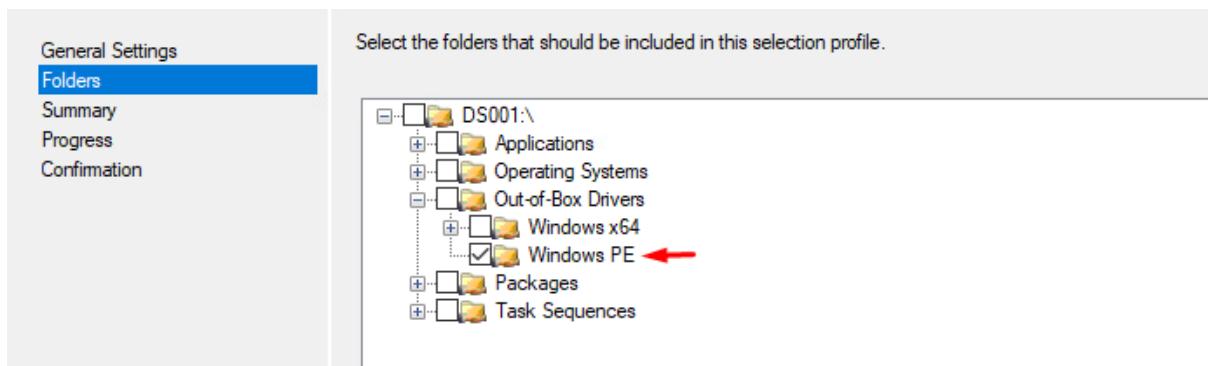
Une fois créée vous vous retrouvez avec sa



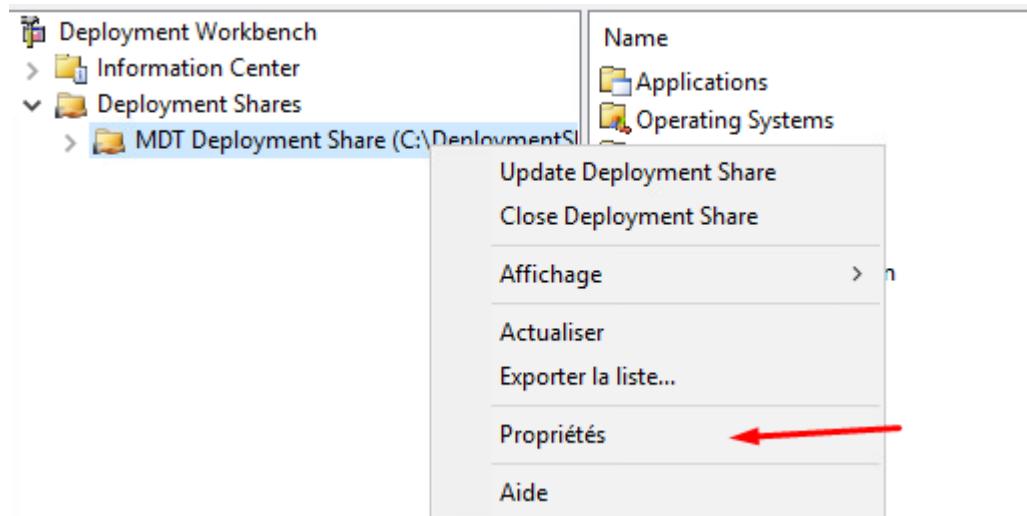
On va venir créer un profil WinPe pour pouvoir injecter les drivers nécessaires au boot.



On va venir sélectionner le dossier des drivers Windows PE



Maintenant on va modifier les propriétés du déploiement.



On peut rajouter des règles pour automatiser la séquence du wizard.

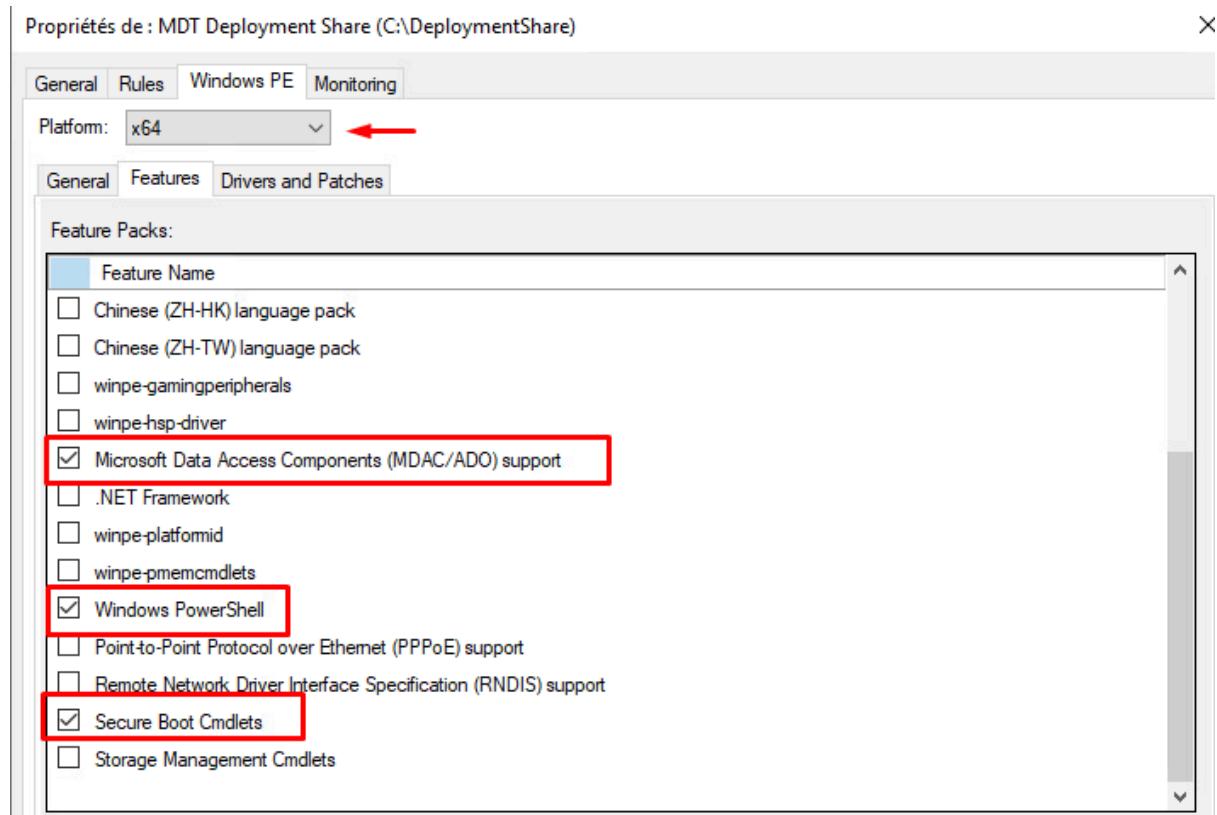
The screenshot shows the 'Propriétés de : MDT Deployment Share (C:\DeploymentShare)' dialog box. The 'General' tab is selected. The main area contains a large block of configuration settings:

```
[Settings]
Priority=Default
Properties=MyCustomProperty

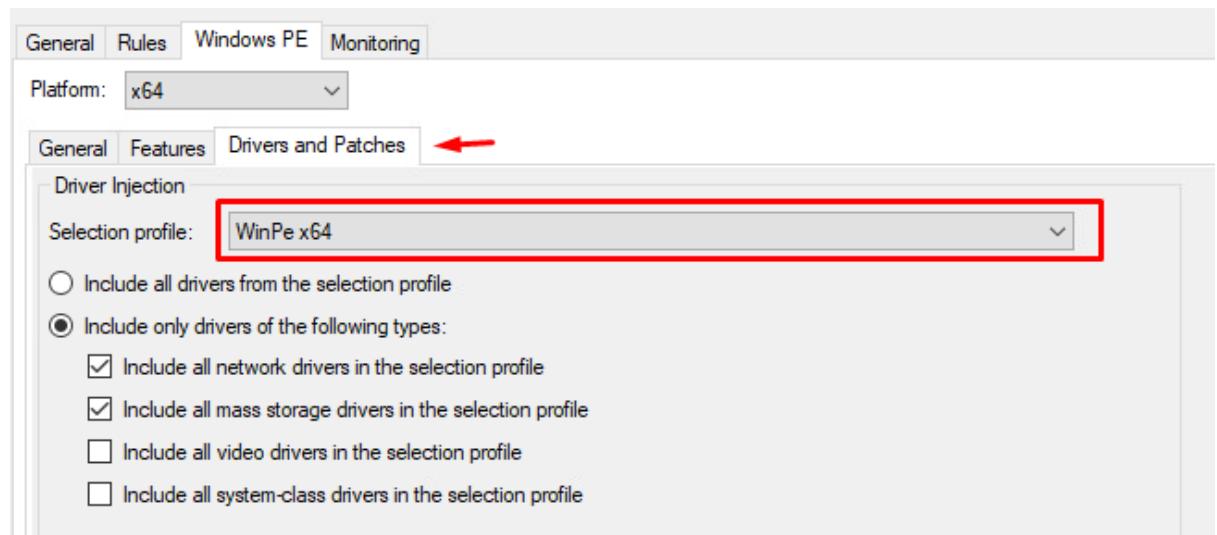
[Default]
OSInstall=Y
OSDComputerName=U
UserID=Administrateur
UserDomain=domain.fr
UserPassword=Azerty75
_SMSTSOrgName=Org

SkipBDDWelcome=YES
KeyboardLocalePE=040c:0000040c
SkipDomainMembership=YES
JoinDomain=domain.fr
SkipUserData=YES
SkipProductKey=YES
SkipLocaleSelection=YES
Skip TimeZone=YES
UserLocale=fr-FR
UILanguage=fr-FR
SkipTimeZone=YES
TimeZone=105
TimeZoneName=Romance Standard Time
KeyboardLocale=040C:0000040C
SkipBitLocker=YES
SkipAdminPassword=YES
SkipCapture=YES
SkipComputerBackup=YES
EventService=http://SRV-WDS:9800
```

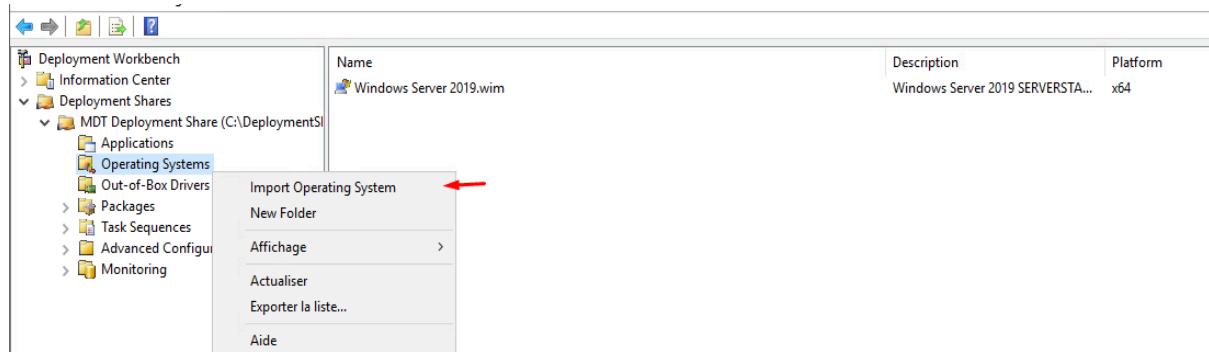
On vas venir sélectionner ces 3 options



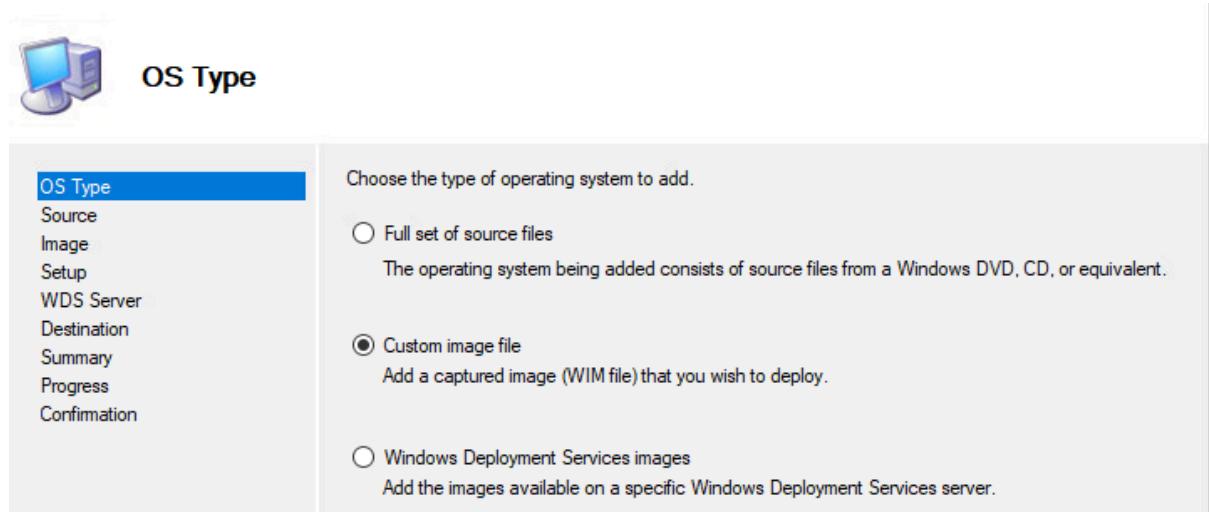
et dans Drivers and Patches on vas venir sélectionner le profil créé précédemment



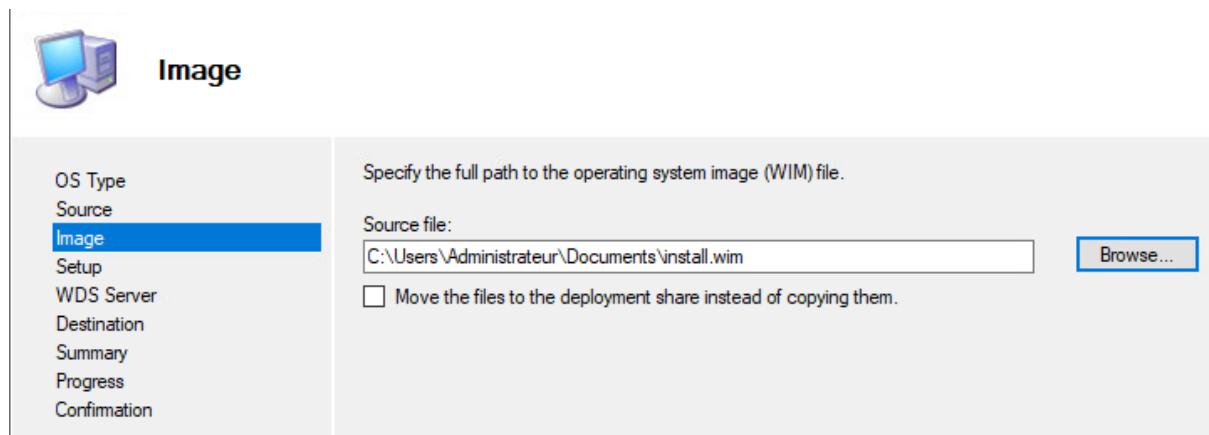
Pour ajouter des systèmes d'exploitation (exemple avec windows server 2019)



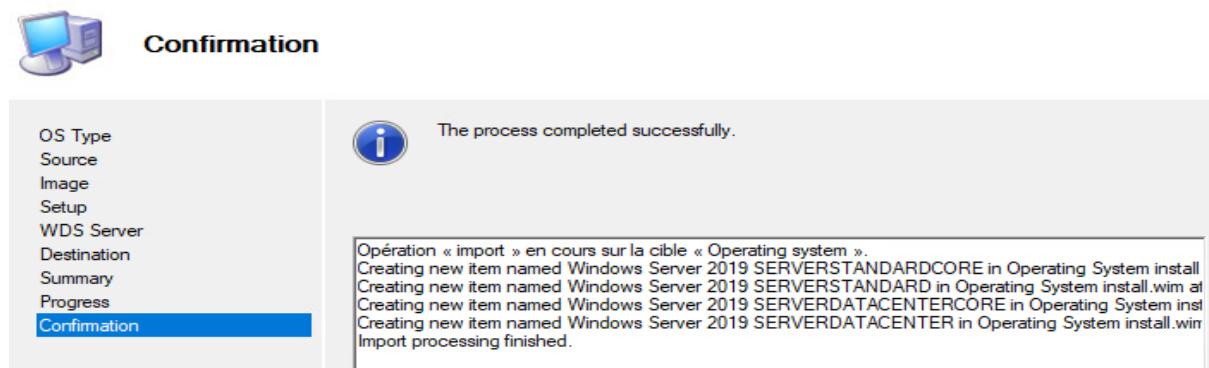
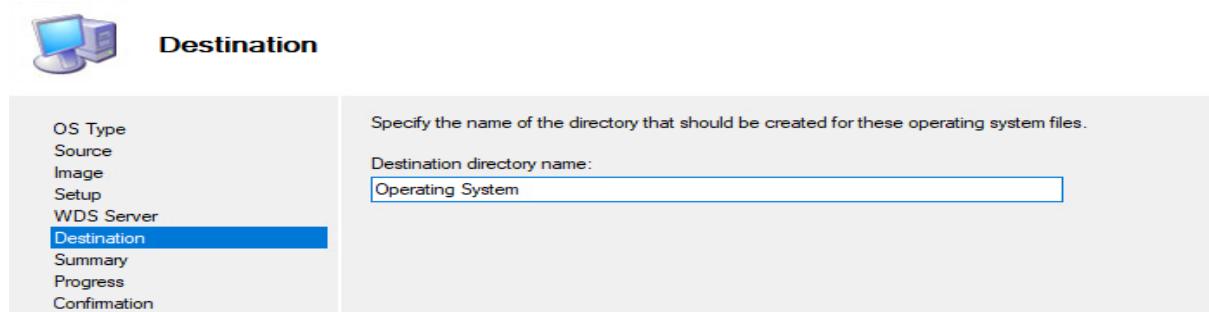
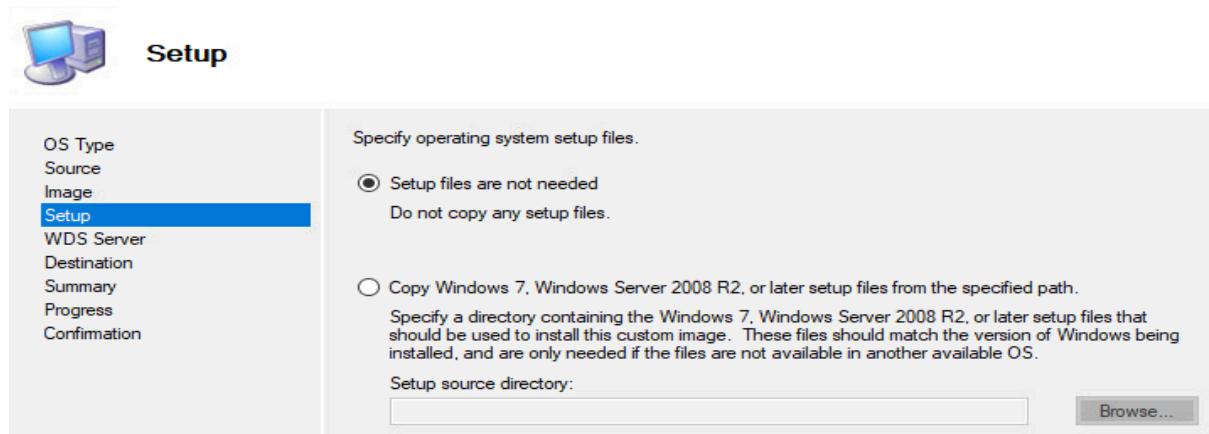
The screenshot shows the Deployment Workbench interface. On the left, there is a navigation tree with 'Deployment Workbench', 'Information Center', 'Deployment Shares' (expanded to show 'MDT Deployment Share (C:\Deployment\\$)'), and various sub-options like 'Applications', 'Operating Systems' (which is selected and highlighted in blue), 'Out-of-Box Drivers', 'Packages', 'Task Sequences', 'Advanced Configuration', and 'Monitoring'. On the right, a table displays a single row for 'Windows Server 2019.wim'. The table has columns for 'Name' (Windows Server 2019.wim), 'Description' (Windows Server 2019 SERVERSTA...), and 'Platform' (x64). A context menu is open over the 'Windows Server 2019.wim' entry, listing options: 'Import Operating System' (with a red arrow pointing to it), 'New Folder', 'Affichage', 'Actualiser', 'Exporter la liste...', and 'Aide'.



The screenshot shows the 'OS Type' configuration screen. On the left, a navigation bar includes 'OS Type' (selected and highlighted in blue), 'Source', 'Image', 'Setup', 'WDS Server', 'Destination', 'Summary', 'Progress', and 'Confirmation'. The main content area is titled 'OS Type' and contains the instruction 'Choose the type of operating system to add.' Below this, three radio button options are listed: 'Full set of source files' (description: 'The operating system being added consists of source files from a Windows DVD, CD, or equivalent.'), 'Custom image file' (selected, description: 'Add a captured image (WIM file) that you wish to deploy.'), and 'Windows Deployment Services images' (description: 'Add the images available on a specific Windows Deployment Services server.').



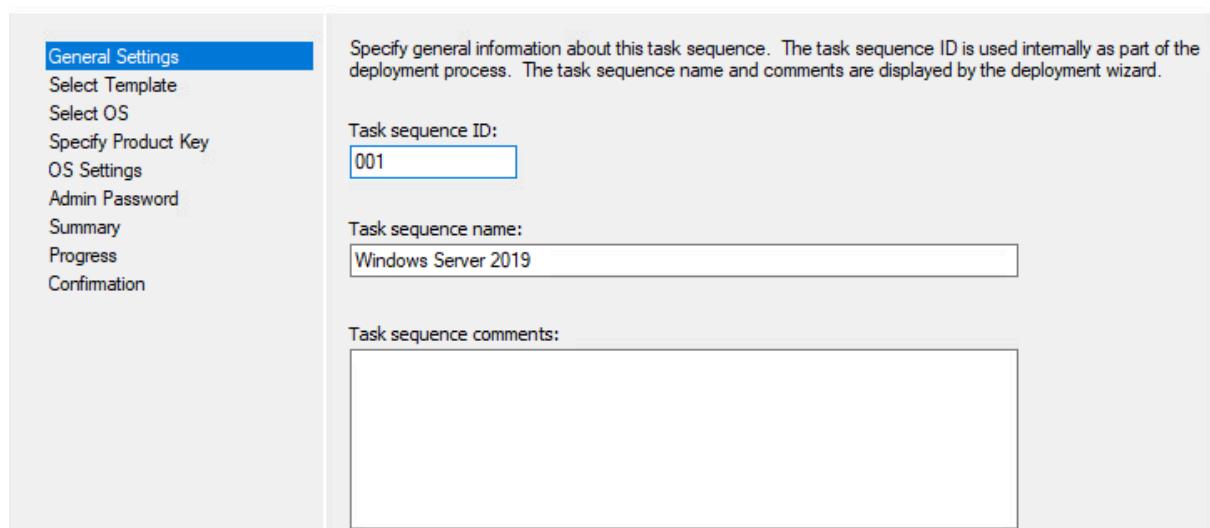
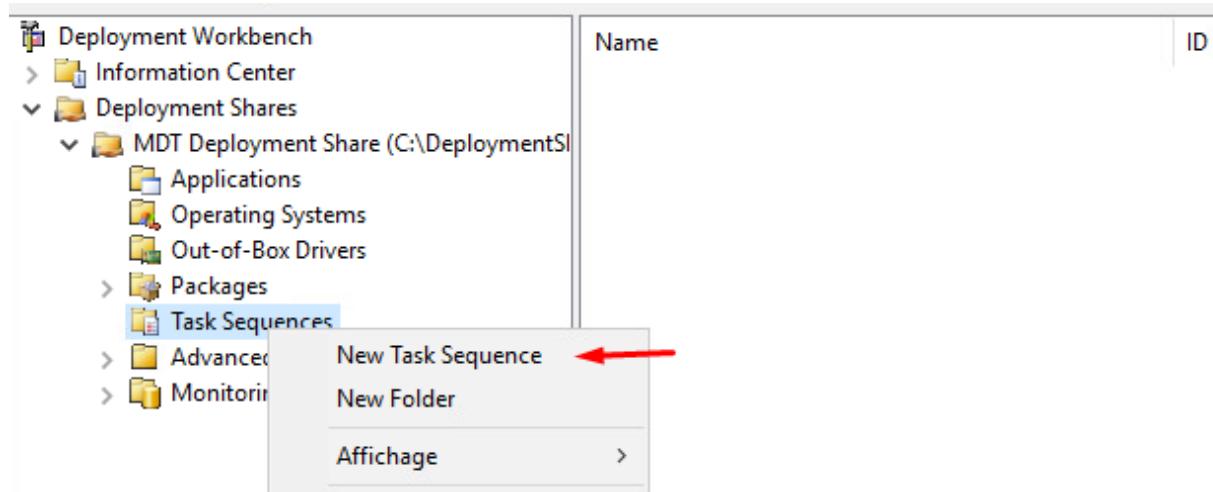
The screenshot shows the 'Image' configuration screen. On the left, a navigation bar includes 'OS Type' (selected and highlighted in blue), 'Source', 'Setup', 'Image' (selected and highlighted in blue), 'WDS Server', 'Destination', 'Summary', 'Progress', and 'Confirmation'. The main content area is titled 'Image' and contains the instruction 'Specify the full path to the operating system image (WIM) file.' Below this, a 'Source file:' input field contains the path 'C:\Users\Administrateur\Documents\install.wim', and a 'Browse...' button is to the right. A checkbox labeled 'Move the files to the deployment share instead of copying them.' is present but unchecked.



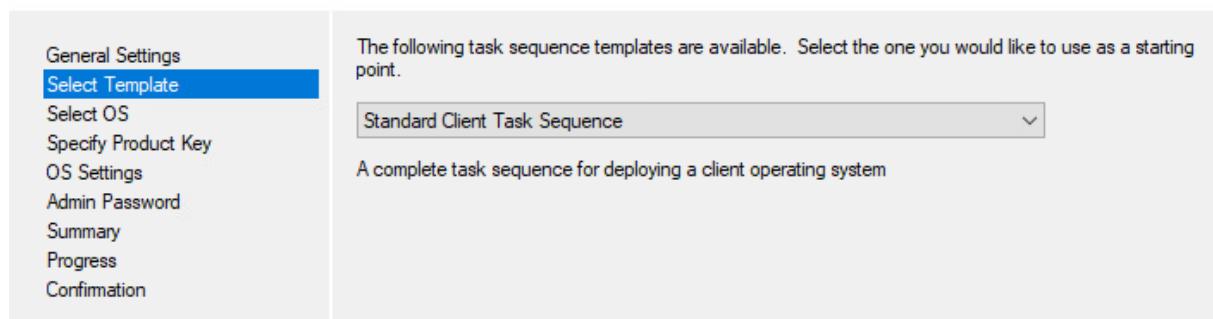
On retrouve tous les index du .wim

Deployment Workbench			
Name		Description	Platform
Deployment Workbench			
Information Center			
Deployment Shares			
MDT Deployment Share (C:\Deployment\Share)			
Applications			
Operating Systems			

La partie la plus intéressante de MDT, les séquence de tâches qui nous permet de paramétriser notre déploiement de windows.



On sélectionne "Standard Client Task Sequence"



On sélectionne notre OS.

General Settings
Select Template
Select OS
Specify Product Key
OS Settings
Admin Password
Summary
Progress
Confirmation

The following operating system images are available to be deployed with this task sequence. Select the one to use.



- Windows Server 2019 SERVERDATACENTER in Operating System install.wim
- Windows Server 2019 SERVERDATACENTERCORE in Operating System install.wim
- Windows Server 2019 SERVERSTANDARD in Operating System install.wim
- Windows Server 2019 SERVERSTANDARDCORE in Operating System install.wim
- Windows Server 2019.wim**

General Settings
Select Template
Select OS
Specify Product Key
OS Settings
Admin Password
Summary
Progress
Confirmation

Do not specify a product key at this time.
A product key is not required when deploying Windows 7, Windows Server 2008 R2, or later OS versions, or if the product key will be specified at deploy time using the wizard or a rule.

Specify a multiple activation key (MAK key) for activating this operating system.
In order to activate, each computer deployed using this MAK key will need to contact the Microsoft activation service on the internet. This is only supported for Windows 7 and later operating systems when using volume license media.
MAK Product Key:

Specify the product key for this operating system.
Specify a retail product key. (Note that retail keys can only be used to activate a single machine.)
Product Key:

General Settings
Select Template
Select OS
Specify Product Key
OS Settings
Admin Password
Summary
Progress
Confirmation

Specify settings about this task sequence. These settings will be used for all deployments of this task sequence, unless overridden during the deployment process using the wizard or a rule.

Full Name:

Organization:

Internet Explorer Home Page:

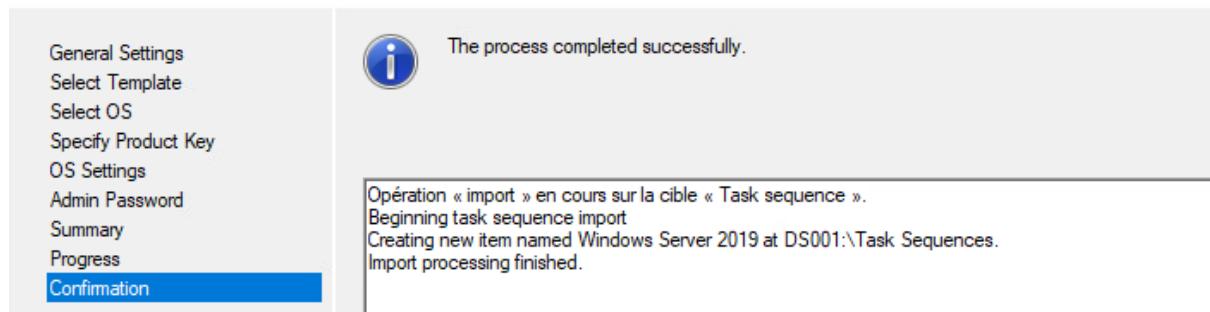
General Settings
Select Template
Select OS
Specify Product Key
OS Settings
Admin Password
Summary
Progress
Confirmation

Specify the local Administrator password for this task sequence.

Use the specified local Administrator password.
Administrator Password:

Please confirm Administrator Password:

Do not specify an Administrator password at this time.
The local Administrator password will be provided during the deployment of this task sequence, so it is not needed as part of the task sequence definition.



Une fois la séquence créée on peut venir l'éditer selon nos besoins.

Name	ID	Version	TaskSequence...
Windows Server 2019	001	1.0	Client.xml

Propriétés de : Windows Server 2019

General Task Sequence OS Info

Type: Group
Name: Initialization
Description: Initialize the TS environment

Initialization

Validation

State Capture

Preinstall

Install

Postinstall

State Restore

Tattoo

Opt In to CEIP and WER

Windows Update (Pre-Application Install)

Install Applications

Windows Update (Post-Application Install)

Custom Tasks

Enable BitLocker

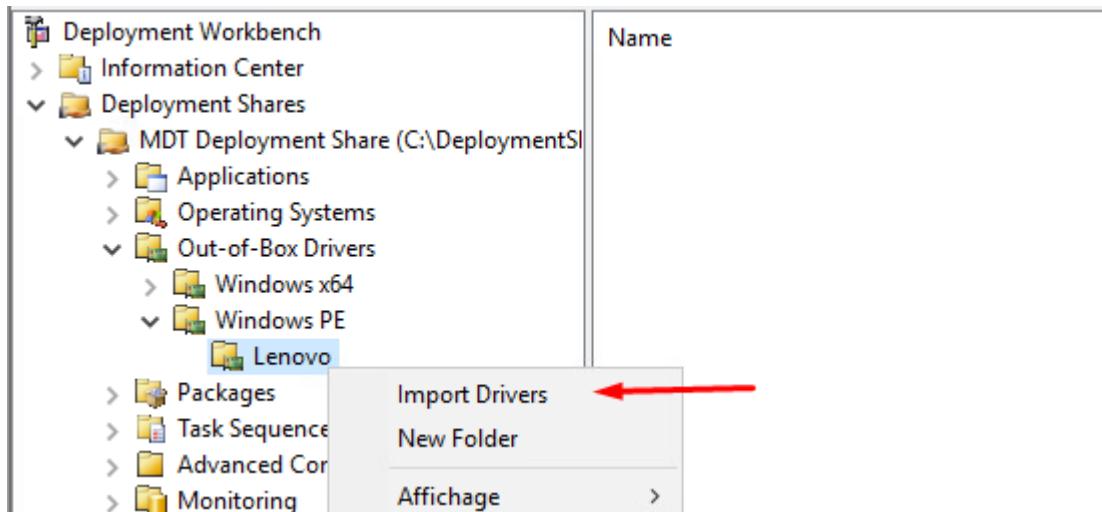
Restore User State

Restore Groups

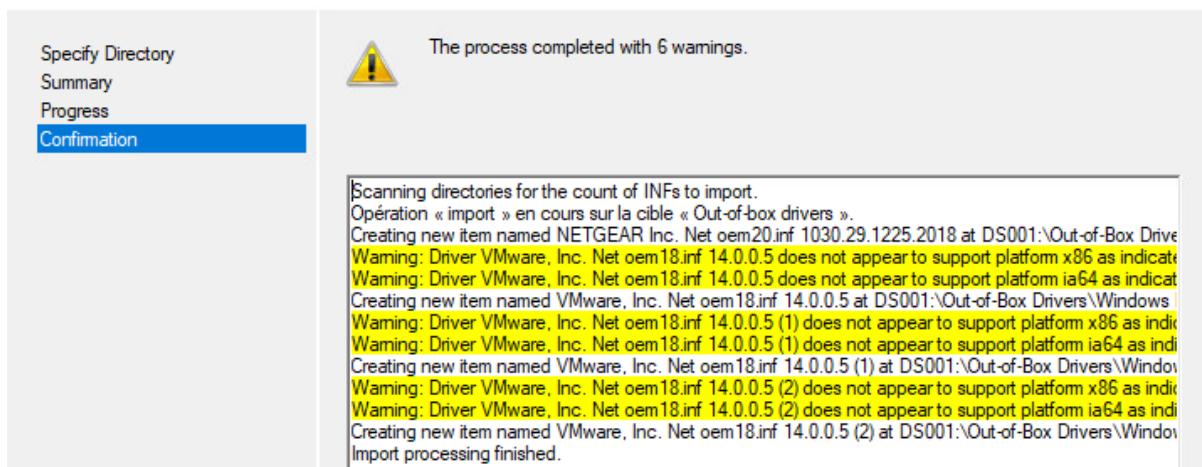
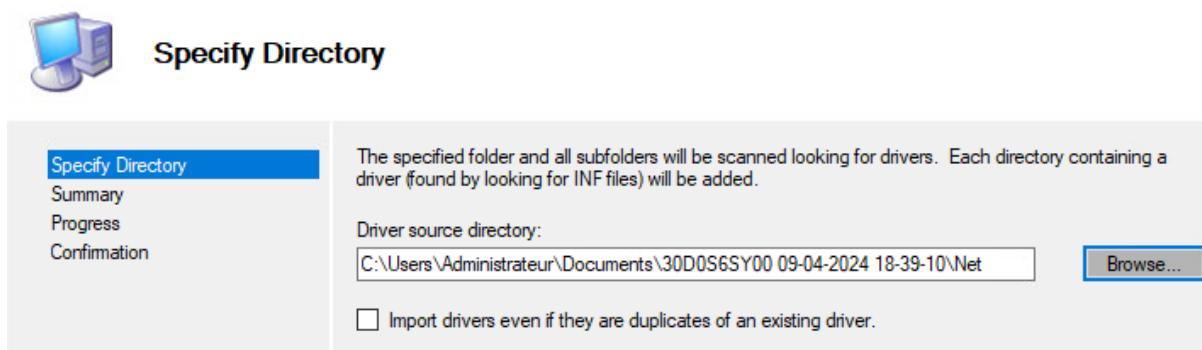
Apply Local GPO Package

Imaging

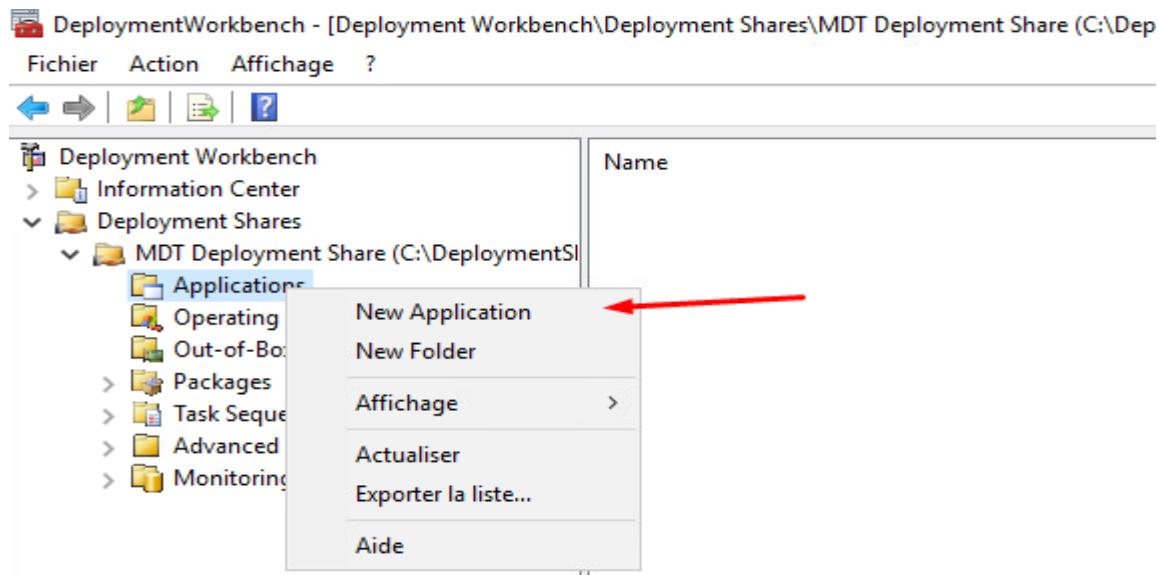
Pour importer des drivers



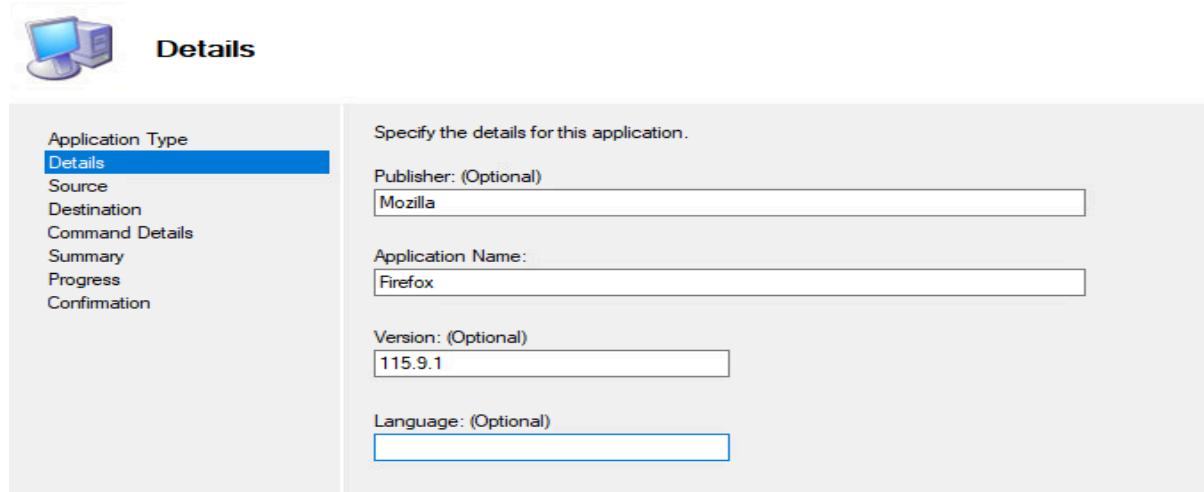
On vient chercher la ou se trouve nos drivers



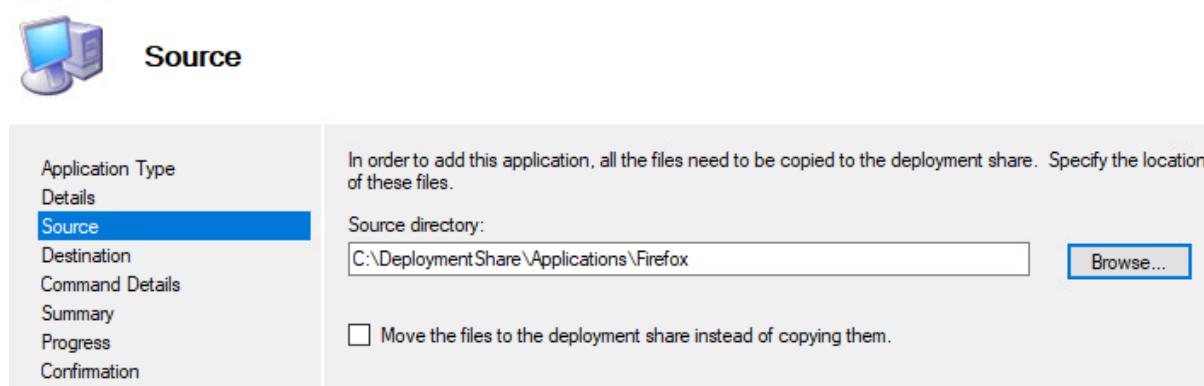
Pour ajouter des applications



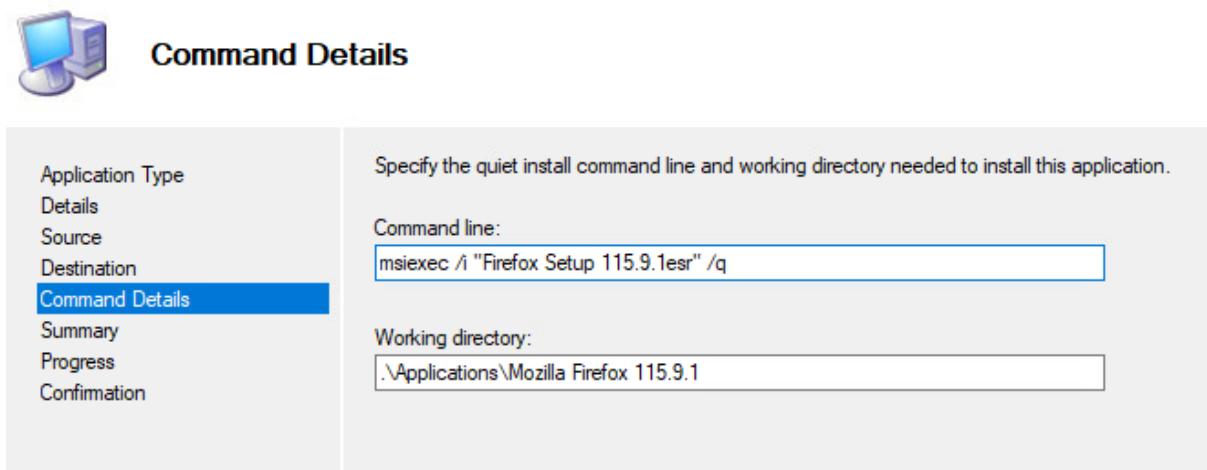
Exemple de Mozilla Firefox



On pointe sur le dossier où se trouve le logiciel



on ajoute la commande msiexec avec les commande /i (pour l'installation) /q (installation en silencieux)

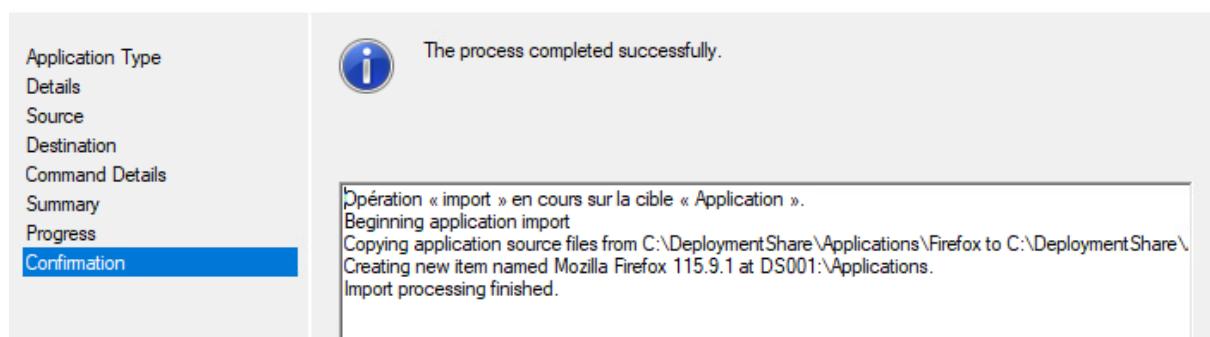


Application Type
Details
Source
Destination
Command Details
Summary
Progress
Confirmation

Specify the quiet install command line and working directory needed to install this application.

Command line:
`msiexec /i "Firefox Setup 115.9.1esr" /q`

Working directory:
`.\Applications\Mozilla Firefox 115.9.1`



Application Type
Details
Source
Destination
Command Details
Summary
Progress
Confirmation

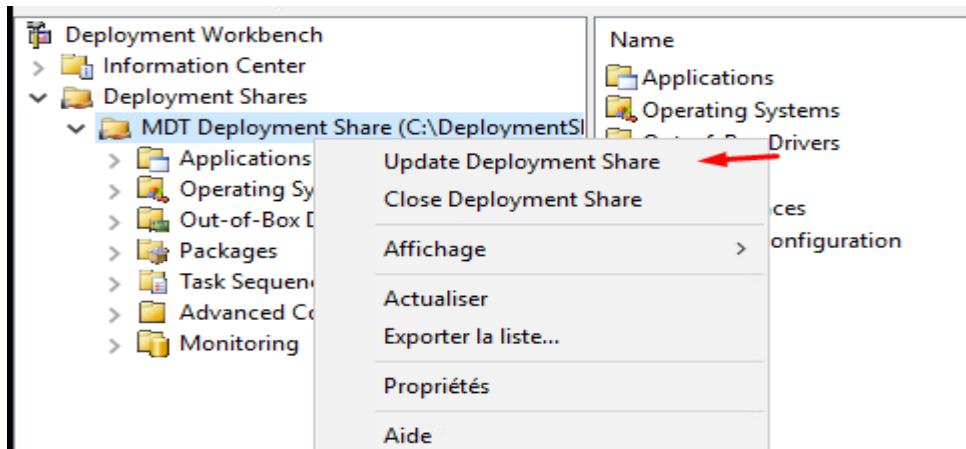
The process completed successfully.

Opération « import » en cours sur la cible « Application ».
Beginning application import
Copying application source files from C:\DeploymentShare\Applications\Firefox to C:\DeploymentShare\Creating new item named Mozilla Firefox 115.9.1 at DS001\:\Applications.
Import processing finished.

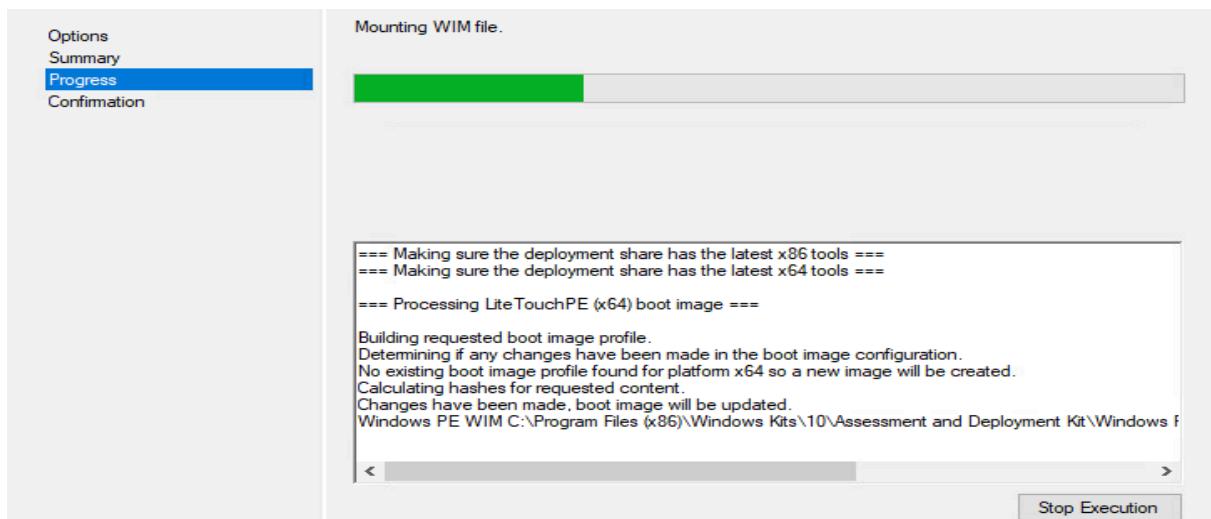
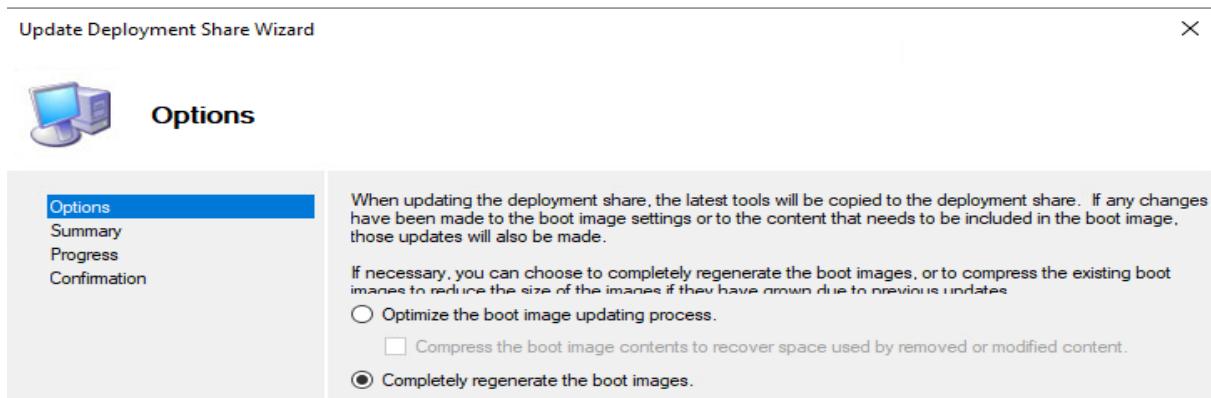


Name	ShortName	Version	Publisher
Mozilla Firefox 115.9.1	Firefox	115.9.1	Mozilla

Maintenant on va update l'image de démarrage



Pour la première update il faut la générer complètement



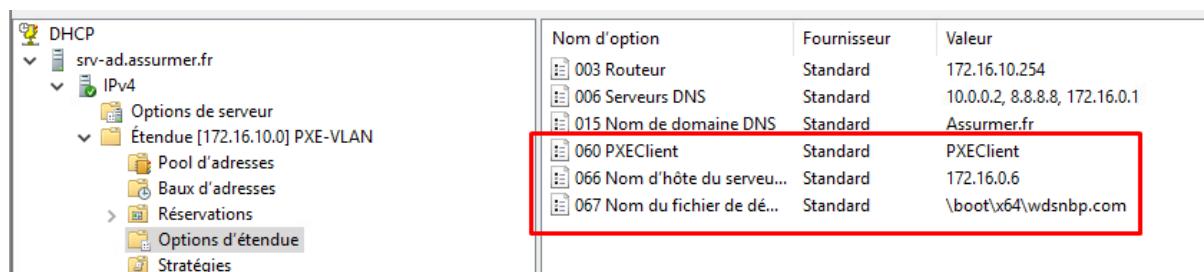
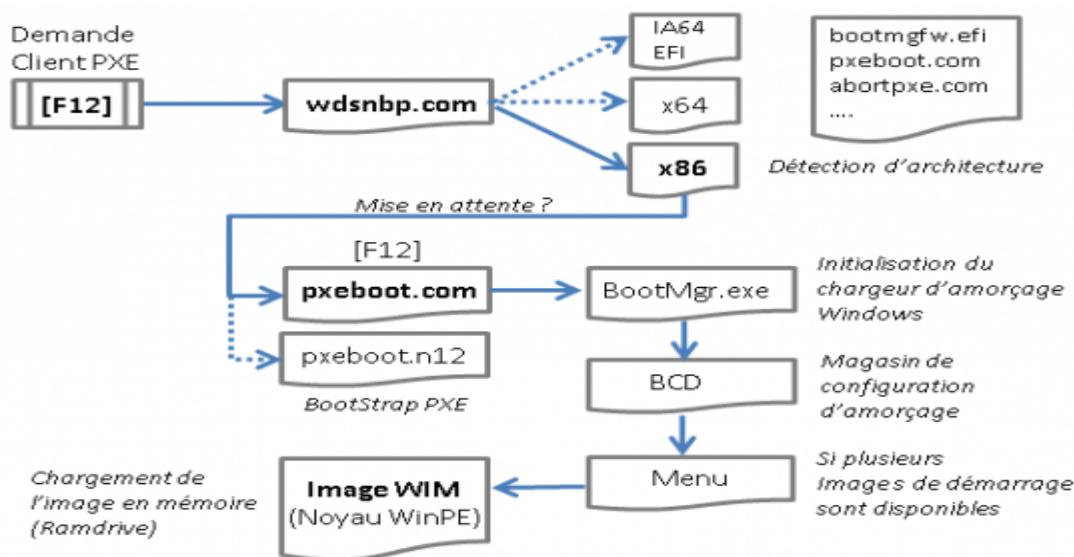
Dans notre serveur DHCP il faut ajouter les trois options à notre étendue de DHCP, 60,66 et 67.

Avec les valeurs suivante :

PXEClient pour le 60

IP du serveur WDS pour le 66

\boot\x64\wdsnbp.com pour l'option 67



Maintenant on va déployer l'image de démarrage

Services de déploiement Windows

Fichier Action Affichage ?

Services de déploiement Windows

Serveurs

SRV-WDS.Assumer.fr

- Images d'installation
- Images de démarrage**
- Périphériques en attente
- Transmission par multidiffusion
- Pilotes

Périphériques de préinstallation

Assistant Ajout d'images

Fichier image

Entrez l'emplacement du fichier image Windows contenant les images à ajouter.

Emplacement du fichier :

C:\DeploymentShare\Boot\LiteTouchPE_x64.wim

Parcourir...

Remarque : les images d'installation et de démarrage par défaut (Boot.wim et Install.wim) sont présentes sur le DVD d'installation dans le dossier \Sources.

Informations complémentaires sur les images et les types d'images

< Précédent Suivant > Annuler

Assistant Ajout d'images

Métadonnées d'image

Entrez un nom et une description pour l'image suivante :
« Lite Touch Windows PE (x64) »

Nom de l'image :

Lite Touch Windows PE (x64)

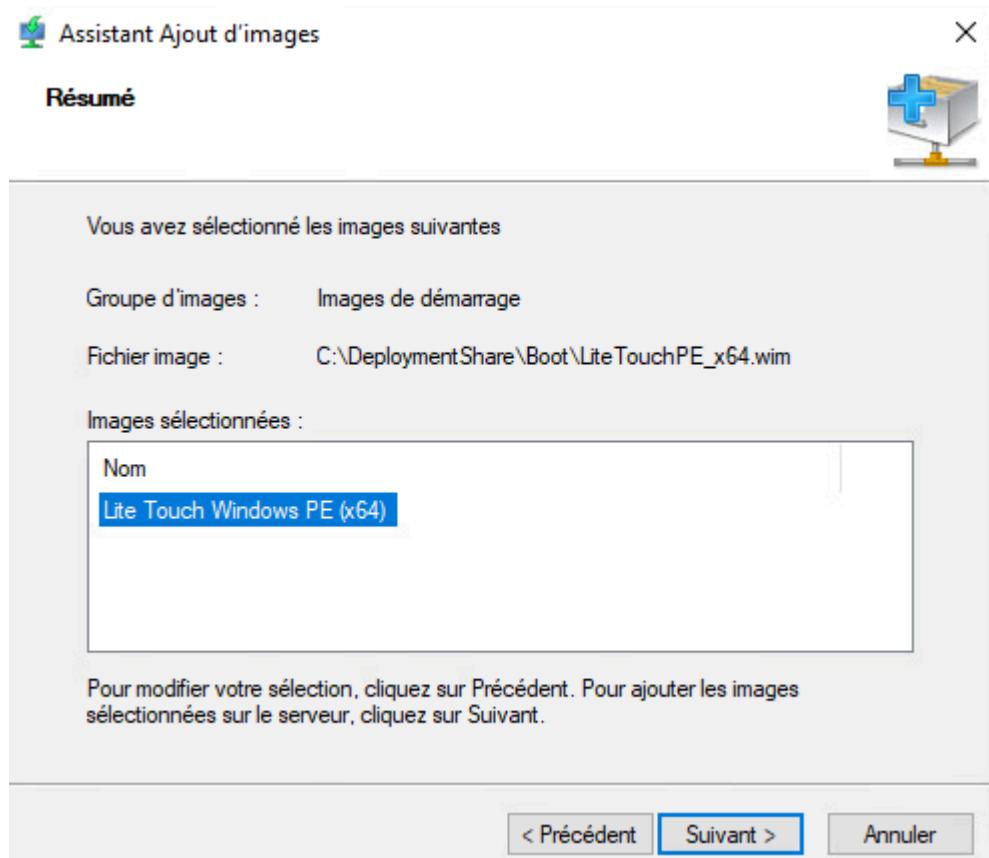
Description de l'image :

Lite Touch Windows PE (x64)

Architecture de l'image :

x64

< Précédent Suivant > Annuler



Fichier Action Affichage ?

Services de déploiement Windows

Serveurs

- SRV-WDS.Assumer.fr
 - Images d'installation
 - Images de démarrage
 - Péphériques en attente
 - Transmission par multidiffusion
 - Pilotes
- Péphériques de préinstallation Activ

Images de démarrage 1 image(s) de démarrage

Nom de l'image	Architecture	État	Taille décompressée
Lite Touch Wi...	x64	En li...	2900 Mo

Voilà on est maintenant prêt à masteriser.