Exemple : MDT avec SQL

Dans mon lab, j'ai déployé un MDT avec DFS pour les applications. Voici l'exemple complet :

Fichier customsettings.ini

```
[Settings]
Priority=DefaultGateway, TaskSequenceID, Default, MAKE, CSettings
Properties=TargetGroup

[Default]
OSInstall=Y

;Computer Details
SkipComputerName=YES
SkipDomainMembership=YES
JoinDomain=ad.khroners.fr
DomainAdmin=mdt_admin
DomainAdminDomain=ad.khroners.fr
DomainAdminPassword=Motdepasse

;Skip Task Sequence
SkipTaskSequence=NO
;TaskSequenceID=W10PRO-21H2-X64

;Drivers
DriverGroup001=WinPE x64\%Make%

;WSUS
TargetGroup=MDT

;User Data
SkipUserData=YES
```

```
;Computer Backup
SkipComputerBackup=YES

;Product Key
SkipProductKey=YES

;Language Packs
SkipPackageDisplay=YES

;Locale and Time
SkipLocaleSelection=YES
SkipTimeZone=YES
KeyboardLocale=040c:0000040c
KeyboardLocalePE=040c:0000040c
UserLocale=fr-FR
UILanguage=fr-FR
TimeZoneName=Romance Standard Time

;Roles and Features
SkipRoles=YES

;Applications
SkipApplications=YES

;Administrator Password
SkipAdminPassword=YES
AdminPassword=local-admin-password

;Local Administrators
SkipAdminAccounts=YES

;Capture Image
SkipCapture=YES

;Bitlocker
SkipBitLocker=YES

;Ready to begin
SkipSummary=YES
```

```
;Operating system deployment completed successfully
SkipFinalSummary=YES

FinishAction=REBOOT
WSUSServer=http://RN-SRV-WS-AAD01.ad.khroners.fr:8530
EventService=http://RN-SRV-WDS01:9800

[DefaultGateway]
10.29.0.254=Brest
10.35.100.254=Rennes

[Brest]
SLShare=\\BR-SRV-WDS01.ad.khroners.fr\DeploymentShare$\Logs
EventService=http://BR-SRV-WDS01:9800

[Rennes]
SLShare=\\RN-SRV-WDS01.ad.khroners.fr\DeploymentShare$\Logs
EventService=http://RN-SRV-WDS01:9800

[W10-22H2-ADM-35]
MachineObjectOU=OU=Administratifs,OU=Workstations,OU=RENNES,OU=Sites,DC=ad,DC=khroners,DC=fr

[W10-22H2-FOR-35]
MachineObjectOU=OU=Formateurs,OU=Workstations,OU=RENNES,OU=Sites,DC=ad,DC=khroners,DC=fr

[CSettings]
SQLServer=RN-SRV-WDS01.ad.khroners.fr
Instance=SQLEXPRESS
Database=MDT
Netlib=DBMSSOCN
DBID=sql_mdt
DBPWD=Motdepasse
Table=ComputerSettings
Parameters=UUID, AssetTag, SerialNumber, MacAddress
ParameterCondition=OR
```

Fichier bootstrap.ini

```
[Settings]
Priority=DefaultGateway, Default

[DefaultGateway]
10.29.0.254=Brest
10.35.100.254=Rennes

[Brest]
DeployRoot=\\BR-SRV-WDS01\DeploymentShare$

[Rennes]
DeployRoot=\\RN-SRV-WDS01\DeploymentShare$

[Default]
UserDomain=AD
UserID=mdt_admin
UserPassword=Motdepasse
SkipBDDWelcome=YES
```

Scripts

DeployWiz_SelectTS.vbs

J'ai modifié ce script pour utiliser la property "TaskSequenceID" dans le customsettings.ini.

```
' // ***************************************************************************
' //
' // Copyright (c) Microsoft Corporation.  All rights reserved.
' //
' // Microsoft Deployment Toolkit Solution Accelerator
' //
' // File:      DeployWiz_Initialization.vbs
' //
' // Version:   6.3.8456.1000
' //
' // Purpose:   Main Client Deployment Wizard Initialization routines
' //
```

```
' // ***************************************************************************


Option Explicit


'''''''''''''''''''''''''''''''''''''''
'   Image List
'

Dim g_AllOperatingSystems

Function AllOperatingSystems


    Dim oOSes

    If isempty( g_AllOperatingSystems) then
    
        set oOSes = new ConfigFile
        oOSes.sFileType = "OperatingSystems"
        oOSes.bMustSucceed = false
        
        set g_AllOperatingSystems = oOSes.FindAllItems
        
    End if

    set AllOperatingSystems = g_AllOperatingSystems

End function


Function InitializeTSList
    Dim oItem, sXPathOld
    
    If oEnvironment.Item("TaskSequenceID") <> "" and oProperties("TSGuid") = "" then
        
        sXPathOld = oTaskSequences.xPathFilter
        for each oItem in oTaskSequences.oControlFile.SelectNodes( "/*/*[ID = '" &
```

```
oEnvironment.Item("TaskSequenceID")&"']")
		oLogging.CreateEntry "TSGuid changed via TaskSequenceID = " &
oEnvironment.Item("TaskSequenceID"), LogTypeInfo
		oEnvironment.Item("TSGuid") = oItem.Attributes.getNamedItem("guid").value
		exit for
	next

	oTaskSequences.xPathFilter = sXPathOld

End if

TSListBox.InnerHTML = oTaskSequences.GetHTMLEx ( "Radio", "TSGuid" )

PopulateElements
TSItemChange

End function


Function TSItemChange

Dim oInput
ButtonNext.Disabled = TRUE

for each oInput in document.getElementsByName("TSGuid")
	If oInput.Checked then
		oLogging.CreateEntry "Found CHecked Item: " & oInput.Value, LogTypeVerbose

		ButtonNext.Disabled = FALSE
		exit function
	End if
next

End function


''''''''''''''''''''''''''''''''''''''''

'   Validate task sequence List
'
```

```
Function ValidateTSList

    Dim oTS
    Dim sCmd
'ajoute
    Dim oItem
    Set oShell = createObject("Wscript.shell")
'
    set oTS = new ConfigFile
    oTS.sFileType = "TaskSequences"

    SaveAllDataElements

    If Property("TSGuid") = "" then
        oLogging.CreateEntry "No valid TSGuid found in the environment.", LogTypeWarning
        ValidateTSList = false
    End if

    oLogging.CreateEntry "TSGuid Found: " & Property("TSGuid"), LogTypeVerbose

    If oTS.FindAllItems.Exists(Property("TSGuid")) then
        oEnvironment.Item("TaskSequenceID") =
oUtility.SelectSingleNodeString(oTS.FindAllItems.Item(Property("TSGuid")),"./ID")
    End if


    ' Set the related properties

    oUtility.SetTaskSequenceProperties oEnvironment.Item("TaskSequenceID")

    If oEnvironment.Item("OSGUID") <> "" and oEnvironment.Item("ImageProcessor") = "" then
        ' There was an OSGUID defined within the TS.xml file, however the GUID was not found
        ' within the OperatingSystems.xml file.  Which is a dependency error.  Block the wizard.
        ValidateTSList = False
        ButtonNext.Disabled = True
        Bad_OSGUID.style.display = "inline"
    Else
        ValidateTSList = True
```

```
    ButtonNext.Disabled = False
    Bad_OSGUID.style.display = "none"
  End if
' ajoute
  sCmd = "wscript.exe """ & oUtility.ScriptDir & "\ZTIGather.wsf"""
  oItem = oShell.Run(sCmd, , true)
'
End Function
```

ZTIWindowsUpdate.wsf

J'ai modifié ce script pour ajouter la property "TargetGroup" pour cibler les PC lors du déploiement pour WSUS.

> Il faut donc ajouter un groupe de PC dans WSUS.

```
<job id="ZTIWindowsUpdate">
<script language="VBScript" src="ZTIUtility.vbs"/>
<script language="VBScript">
' // ***************************************************************************
' //
' // Copyright (c) Microsoft Corporation.  All rights reserved.
' //
' // Microsoft Deployment Toolkit Solution Accelerator
' //
' // File:       ZTIWindowsUpdate.wsf
' //
' // Version:    6.3.8456.1000
' //
' // Purpose:    Installs all needed updates (drivers, patches, service packs,
' //             etc.) from the Windows Update/Microsoft Update site or WSUS
' //             server, rebooting as required until no more updates are needed.
' //
' // Usage:      cscript.exe [//nologo] ZTIWindowsUpdate.wsf [/debug:true]
' //
' // ***************************************************************************

Option Explicit
```

```
RunNewInstance



'//---------------------------------------------------------------------------
'//  Global Constants
'//---------------------------------------------------------------------------

Const MSIT_WU_REBOOT_MAX = 7
Const MAX_UPDATES = 100



'//---------------------------------------------------------------------------
'//  Main Class
'//---------------------------------------------------------------------------

Class ZTIWindowsUpdate

 //---------------------------------------------------------------------------
 //  Class instance variable declarations
 //---------------------------------------------------------------------------

Public globalVariable
Private privateVariable


 //---------------------------------------------------------------------------
 //  Constructor to initialize needed global objects
 //---------------------------------------------------------------------------

Private Sub Class_Initialize

  No initialization is required

End Sub


 //---------------------------------------------------------------------------
 //  Main routine
 //---------------------------------------------------------------------------
```

```
Function Main

    Dim iRetVal
    Dim Item
    Dim MSIT_WU_Count
    Dim MSIT_LogType
    Dim ServiceManager
    Dim bFoundMU
    Dim NewUpdateService
    Dim strCabPath
    Dim iResult
    Dim oProgress
    Dim bFailure, bReboot

    Main = Success

    ' Validate that are not restarting from a failed install.

    If ucase(oEnv("SystemDrive")) = "X:" Then
        oLogging.CreateEntry "Environment Error: ManualRetry (From ZTIWindowsUpdate).", LogTypeInfo

        oEnvironment.Item("LTISuspend") = "LiteTouch is trying to install Windows Updates." & _
            vbNewLine & "This cannot be performed in Windows PE." & _
            vbNewLine & "If booting from a USB Flash Disk, please remove all drives before Retrying." &
            vbNewLine & "Otherwise, ensure the hard disk is selected first in the boot order of the BIOS
        oEnvironment.Item("SMSTSRebootRequested") = "true"
        oEnvironment.Item("SMSTSRetryRequested") = "true"
        Main = SUCCESS
        exit function
    End if


    ' //---------------------------------------------------------------------------
    ' //  Initialization
    ' //---------------------------------------------------------------------------

    MSIT_WU_Count = oEnvironment.Item("MSIT_WU_Count")
    If not IsNumeric(MSIT_WU_Count) then
```

```
    MSIT_WU_Count = 0
  End if
  oLogging.CreateEntry "Begin Windows Update.  Reboot=[" &
oEnvironment.Item("SMSTSRebootRequested") & "]  Retry=[" &
oEnvironment.Item("SMSTSRetryRequested") & "]  Count = " & MSIT_WU_Count , LogTypeInfo

  MSIT_WU_Count = MSIT_WU_Count + 1
  oEnvironment.Item("MSIT_WU_Count") = MSIT_WU_Count



  If oEnvironment.Item("WsusServer") = "" then
    oLogging.ReportProgress "Initializing Windows Update process (pass " & MSIT_WU_Count & ")", 0
  Else
    oLogging.ReportProgress "Initializing WSUS update process (pass " & MSIT_WU_Count & ")", 0
  End if



  If oEnvironment.Item("SMSTSRebootRequested") <> "" then
    oEnvironment.Item("SMSTSRebootRequested") = ""
  End if
  If oEnvironment.Item("SMSTSRetryRequested") <> "" then
    oEnvironment.Item("SMSTSRetryRequested") = ""
  End if

  If MSIT_WU_Count > MSIT_WU_REBOOT_MAX then
    oLogging.ReportFailure "ZTIWindowsUpdate has run and failed too many times.  Count = " &
MSIT_WU_Count, 9902
  End if



  ' Make sure the necessary agent is in place

  iRetVal = VerifyWUA
  If iRetVal = 3010 then

    ' Initiate a reboot and ask that we be re-executed

    oEnvironment.Item("SMSTSRebootRequested") = "true"
    oEnvironment.Item("SMSTSRetryRequested") = "true"
```

```
    Exit Function

  ElseIf iRetVal <> 0 then

    oLogging.ReportFailure "Unexpected issue installing the updated Windows Update Agent, rc = "
iRetVal, 9903

  End if


  ' Opt-In to the Microsoft Update Agent

  On Error Resume Next
    Item = oFSO.GetFileVersion ( ees("%SystemRoot%\System32\WUAUENG.DLL" ) )
    oLogging.CreateEntry "Ready to Opt-In to Microsoft Update:  WUA Version: " & Item , LogTypeInf
    Set ServiceManager = nothing
    Set ServiceManager = CreateObject("Microsoft.Update.ServiceManager")
  On Error Goto 0

  If ServiceManager is nothing then
    oLogging.CreateEntry "Failed to Create Object:  Microsoft.Update.ServiceManager" ,
LogTypeWarning
  Else
    ServiceManager.ClientApplicationID = "ZTIWindowsUpdate " & Version
    bFoundMU = False
    For each Item in ServiceManager.Services
      wScript.Echo "Registered Update Service:  " & Item.ServiceID & "   " & Item.Name
      If Item.ServiceID = "7971f918-a847-4430-9279-4a52d1efe18d" then
        bFoundMU = True
      End if
    Next

    oLogging.CreateEntry "Microsoft Update Service:   Enabled = " & bFoundMU, LogTypeInfo
    If not bFoundMU then
      On Error Resume Next
        Err.clear
        If Err.Number <> 0 then
          oLogging.CreateEntry "There was an error getting Windows Update to opt into Microsoft Upda
Please verify you are running the latest version of Windows Update Agent." , LogTypeWarning
```

```
        End if
    End if
    If oEnvironment.Item("WsusServer") = "" then

        '//---------------------------------------------------------------------------
        '//  Try to find the standalone muauth.cab file and install from it
        '//---------------------------------------------------------------------------
        '
        '  From http://download.windowsupdate.com/v9/microsoftupdate/redir/muauth.cab
        '
        '  Place this file in the Distribution\Tools folder so this script can find them.
        iResult = oUtility.FindFile("muauth.cab", strCabPath)

        If iResult <> Success then
            ' "" will force a internet search for cab file
            strCabPath = ""
        End if

        oLogging.CreateEntry "  about to begin add service ["+ strCabPath +"]", LogTypeInfo
    '
        Set NewUpdateService = ServiceManager.AddService2("7971f918-a847-4430-9279-
4a52d1efe18d",6,strCabPath)
        oLogging.CreateEntry "  Status:  " & NewUpdateService.RegistrationState, LogTypeInfo
    End if

    On error goto 0
  End if
End if

'//---------------------------------------------------------------------------
'//  Process the command line
'//---------------------------------------------------------------------------

Dim IsRegistered, Query_Only, UpdateCommand, BadKBArticlesList
Dim BadGUIDList

Query_Only    = FALSE or WScript.Arguments.Named.Exists("QUERY")
IsRegistered  = FALSE
```

```
If WScript.Arguments.Unnamed.Count > 0 then
UpdateCommand = WScript.Arguments.Unnamed.Item(0)
Elseif Ucase(oEnvironment.Item("DoCapture")) = "YES" or Ucase(oEnvironment.Item("DoCapture"))
= "PREPARE" then
UpdateCommand = "IsInstalled = 0 and IsHidden = 0 and Type = 'Software'"
Else
UpdateCommand = "IsInstalled = 0 and IsHidden = 0"
End if


'  Check to see if this version of Windows has been registered

IsRegistered = FALSE
On Error Resume Next
For each Item in objWMI.InstancesOf("Win32_WindowsProductActivation")
IsRegistered = Item.ActivationRequired = 0
Exit for
Next
On Error Goto 0

oLogging.CreateEntry "Command Line Procesed Query=" & QUery_Only & " Registered=" &
IsRegistered & "  UpdateCommand=[" & UpdateCommand & "]" , LogTypeInfo


Set BadKBArticlesList = oEnvironment.ListItem("WUMU_ExcludeKB")
Set BadGUIDList = oEnvironment.ListItem("WUMU_ExcludeID")


'//----------------------------------------------------------------------------
'//  Search Windows Update
'//----------------------------------------------------------------------------

oLogging.ReportProgress "Searching for updates", 0

Dim UpdateSession, searchResults, updatesToDownload
Dim Downloader, Installer, UpdateResult
Dim kbArticle, bInstall, kb, iSize
Dim i
```

```
    On Error Resume Next
    Set updateSession = CreateObject("Microsoft.Update.Session")
    Set updatesToDownload = CreateObject("Microsoft.Update.UpdateColl")
    On Error Goto 0

    If updateSession is nothing then
        oLogging.ReportFailure "Failed to Create Object: Microsoft.Update.Session.", 9904
    End if
    If updatesToDownload is nothing then
        oLogging.ReportFailure "Failed to Create Object: Microsoft.Update.UpdateColl.", 9905
    End if
    updateSession.ClientApplicationID = "ZTIWindowsUpdate " & Version

    oLogging.CreateEntry "Start Search..." , LogTypeInfo
    On Error Resume Next
    Set searchResults = updateSession.CreateupdateSearcher().Search(UpdateCommand)
    If Err then
        If Err.Number = &h8024402c then
            oLogging.CreateEntry "Error searching for updates: Not Connected to Internet? (" & Err.Numbe
& ")", LogTypeInfo
            Main = Success
        ElseIf Err.Number = &h80072ee2 then
            oLogging.CreateEntry "Error searching for updates: ERROR_INTERNET_TIMEOUT: Retry! (" &
Err.Number & ")", LogTypeInfo
            oEnvironment.Item("SMSTSRebootRequested") = "true"
            oEnvironment.Item("SMSTSRetryRequested") = "true"
        ElseIf Err.Number = &h80244010 then
            oLogging.CreateEntry "Timeout Error WU_E_PT_EXCEEDED_MAX_SERVER_TRIPS : Retry! (" & Err.Numb
& ")", LogTypeInfo
            ' See: http://blogs.technet.com/sus/archive/2008/09/18/wsus-clients-fail-with-warning-
syncserverupdatesinternal-failed-0x80244010.aspx
            oEnvironment.Item("SMSTSRebootRequested") = "false"
            oEnvironment.Item("SMSTSRetryRequested") = "true"

        Else
            TestAndLog err = 0, "Windows Update, search for updates."
            Main = Failure
        End if
```

```
    CleanupWhenDone
    Exit Function
  End if
  On Error Goto 0

  oLogging.ReportProgress "Processing " & searchResults.Updates.Count & " updates.", 0
  For each item in searchResults.Updates

    bInstall = TRUE

    On Error Resume Next

    item.AcceptEula

    If item.InstallationBehavior.CanRequestUserInput then
      bInstall = FALSE ' Do NOT install anything that can Request User Input!
    End if

    For each kb in Item.Categories
      if ucase(kb.Name) = "DRIVERS" then
        bInstall = TRUE ' Some XP drivers may be marked as CanRequestUserInput. Override!
        exit for
      elseif ucase(kb.Name) = "WINDOWS VISTA ULTIMATE LANGUAGE PACKS" then
        bInstall = FALSE ' Most users don't want *ALL* Language Packs. Too much. Override!
        exit for
      end if
    Next


    If BadKBArticlesList.Count > 0 then
      For each kbArticle in item.KBArticleIDs
        For each kb in BadKBArticlesList
          If lcase(kb) = lcase(kbArticle) then
            bInstall = FALSE ' Do NOT install any patch in the Bad KB articles list!
          End if
        Next
      Next
    End if
```

```
        For each kbArticle in BadGUIDList
            If lcase(item.Identity.UpdateID) = lcase(kbArticle) then
                bInstall = FALSE ' Do NOT install any patch in the Bad GUID articles list!
            End if
        Next


        iSize = empty
        kb = ""
        for i = 0 to item.KBArticleIDs.Count - 1
            If instr(1,Item.Title,item.KBArticleIDs(i),vbTextCompare) = 0 then
                bStrings.AddToList kb, "KB" & item.KBArticleIDs(i), " "
            End if
        next
        iSize = item.MinDownloadSize
        If item.MaxDownloadSize > 0 then
            iSize = Item.MaxDownloadSize
        End if
        If kb <> "" then
            kb = "  [ " & kb & " ]"
        End if
        If iSize > 0 then
            kb = kb & " - " & FormatLargeSize(iSize)
        End if

        If bInstall = TRUE and updatesToDownload.count < MAX_UPDATES then
            bLogging.CreateEntry "INSTALL - " & item.Identity.UpdateID & " - " & Item.Title & kb,
LogTypeInfo
            updatesToDownload.Add(Item)
        Else
            bLogging.CreateEntry "  SKIP  - " & item.Identity.UpdateID & " - " & Item.Title & kb,
LogTypeInfo
        End if

        On Error Goto 0

    Next

    bLogging.CreateEntry "Scan complete, ready to install updates.  Count = " &
```

```
updatesToDownload.Count, LogTypeInfo

    If updatesToDownload.Count = 0 or Query_Only then
        oLogging.CreateEntry "This computer is up to date (Success)" , LogTypeInfo
        oEnvironment.Item("MSIT_WU_Count") = ""  ' Reset the counter

        CleanupWhenDone
        Main = Success
        Exit Function
    
    End if


    If MSIT_WU_Count > MSIT_WU_REBOOT_MAX - 1 then
        MSIT_LogType = LogTypeWarning
    Else
        MSIT_LogType = LogTypeInfo
    End if


    '//----------------------------------------------------------------------------
    '//  Download binaries
    '//----------------------------------------------------------------------------

    Set oProgress = new Progress

    oLogging.CreateEntry "Begin Downloading...", LogTypeInfo

    Set Downloader = updateSession.CreateUpdateDownloader()
    Downloader.Updates = UpdatesToDownload
    Set UpdateResult = Downloader.BeginDownload(oProgress, oProgress, vbNull)

    On Error Resume Next
    While not UpdateResult.IsCompleted
        oLogging.ReportProgress "Downloading " &
UpdatesToDownload(UpdateResult.GetProgress.CurrentUpdateIndex).Title,
UpdateResult.GetProgress.PercentComplete
        WScript.Sleep 500
    Wend
```

```
    On Error Goto 0

    For item = 0 to UpdatesToDownload.Count - 1
        If not UpdatesToDownload.Item(item).IsDownloaded then
            oLogging.CreateEntry "    Failed to download: " &
UpdatesToDownload.Item(item).Identity.UpdateID & _
                "  result(" & UpdateResult.GetProgress.GetUpdateResult(item).ResultCode & ") : " &
UpdatesToDownload.Item(item).Title, MSIT_LogType
        End if
    Next

    On Error Resume Next
    Downloader.EndDownload UpdateResult
    On Error Goto 0



    '//----------------------------------------------------------------------------
    '//  Install Binaries
    '//----------------------------------------------------------------------------

    oLogging.CreateEntry "Begin Installation...", LogTypeInfo

    Set Installer = updateSession.CreateUpdateInstaller()
    Installer.Updates = UpdatesToDownload
    Set UpdateResult = nothing

    On Error Resume Next
    Set UpdateResult = Installer.BeginInstall(oProgress, oProgress, vbNull)
    If UpdateResult is nothing then

        '  Some unknown error returned from the installer, reboot and try again.

        oLogging.CreateEntry "Installer.Install() returned Unknown failure! " & err.number & " " &
Err.Description, LogTypeInfo
        oEnvironment.Item("SMSTSRebootRequested") = "true"
        oEnvironment.Item("SMSTSRetryRequested") = "true"
        Exit Function

    End if
```

```
    On Error Goto 0

    On Error Resume Next
    While not UpdateResult.IsCompleted
        bLogging.ReportProgress "Installing " &
UpdatesToDownload(UpdateResult.GetProgress.CurrentUpdateIndex).Title,
UpdateResult.GetProgress.PercentComplete
        WScript.Sleep 500
    Wend
    On Error Goto 0

    bReboot = False
    bFailure = False
    For item = 0 to UpdatesToDownload.Count - 1
        If not UpdatesToDownload.Item(item).IsInstalled then
            If UpdateResult.GetProgress.GetUpdateResult(item).ResultCode <> 2 then
                bLogging.CreateEntry "    " & UpdatesToDownload.Item(item).Identity.UpdateID & _
                    "  result(" & UpdateResult.GetProgress.GetUpdateResult(item).ResultCode & " / HR = " &
hex(UpdateResult.GetProgress.GetUpdateResult(item).HResult) & _
                    " ) : " & UpdatesToDownload.Item(item).Title , MSIT_LogType
                bFailure = True
            End if
            If UpdateResult.GetProgress.GetUpdateResult(item).RebootRequired then
                bReboot = True
            End if
        End if
    Next

    On Error Resume Next
    Installer.EndInstall UpdateResult
    On Error Goto 0



    ' //---------------------------------------------------------------------------
    ' //  Cleanup
    ' //---------------------------------------------------------------------------

    If bFailure then
```

```
        oLogging.CreateEntry "Failure, Please run again!" , LogTypeInfo
        oEnvironment.Item("SMSTSRetryRequested") = "true"
        oEnvironment.Item("SMSTSRebootRequested") = "true"

    ElseIf bReboot then

        oLogging.CreateEntry "More to install, Please reboot and run again!" , LogTypeInfo
        oEnvironment.Item("SMSTSRetryRequested") = "true"
        oEnvironment.Item("SMSTSRebootRequested") = "true"

    Else
    '
        ' A recently installed MicrosoftUpdate/WindowsUpdate component *may* require more/new updates
        ' Rerun Main() to ensure that all updates are installed. Exit above when MU/WU returns NO
updates.

        oLogging.CreateEntry "Success! Please rerun WindowsUpdate to ensure machine is FULLY up to
date." , LogTypeInfo
        Main = Main()

        If LCase(oEnvironment.Item("SMSTSRetryRequested")) <> "true" then
            CleanUpWhenDone
        End if

    End if



End function


' //---------------------------------------------------------------------------
' //  Functions
' //---------------------------------------------------------------------------

Function CleanUpWhenDone

    Dim NoAutoUpdateState
    NoAutoUpdateState = oEnvironment.Item("NoAutoUpdate_Previous")
```

```
    If NoAutoUpdateState = "<empty>" or NoAutoUpdateState= "" then
        oLogging.CreateEntry "Restore NoAutoUpdateKey to <empty>.", LogTypeInfo
        On Error Resume Next
            oShell.RegDelete
"HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\NoAutoUpdate"
        On Error Goto 0
    ElseIf NoAutoUpdateState <> "" then
        oLogging.CreateEntry "Restore NoAutoUpdateKey to " & NoAutoUpdateState, LogTypeInfo
        oShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\NoAutoUpdate",
NoAutoUpdateState, "REG_DWORD"
    Else
        oLogging.CreateEntry "Unknown previous NoAutoUpdateKey State, Do Nothing [" &
NoAutoUpdateState & "].", LogTypeInfo
    End if
    
End Function

Function VerifyWUA

    Dim iResult
    Dim strExePath, bUpdateNeeded, objAgentInfo
    Dim intMajorVersion
    Dim sArchitecture
    Dim iNoAutoUpdate


    ' //---------------------------------------------------------------------------
    ' //  Ensure the desired tracing registry entries are in place
    ' //---------------------------------------------------------------------------

    On error resume next
    
    If UCase(oEnvironment.Item("Debug")) = "TRUE" then
    
        oShell.RegWrite "HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Trace\Level", 3
"REG_DWORD"
```

```
    oShell.RegWrite
"HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Trace\Handler\Flags",
&h000000ff, "REG_DWORD"
    oShell.RegWrite
"HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Trace\Handler\Level", 3,
"REG_DWORD"

    oShell.RegWrite
"HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Trace\COMAPI\Flags", &h000000ff,
"REG_DWORD"
    oShell.RegWrite
"HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Trace\COMAPI\Level", 3,
"REG_DWORD"
    On error goto 0

  End if

  //-------------------------------------------------------------------------
  //  Configure Windows Update settings
  //-------------------------------------------------------------------------

  If oEnvironment.Item("WsusServer") <> "" then

    Configure the WSUS server in the registry.  This needs to be a URL (e.g. http://myserver).

    oLogging.CreateEntry "Configuring client to use WSUS server " &
oEnvironment.Item("WsusServer"), LogTypeInfo

    oShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\WUServer",
oEnvironment.Item("WsusServer"), "REG_SZ"
    oShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\WUStatusServer",
oEnvironment.Item("WsusServer"), "REG_SZ"
' ajoute
    If oEnvironment.Item("TargetGroup") <> "" then
     oShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\TargetGroup",
oEnvironment.Item("TargetGroup"), "REG_SZ"
```

```
        oShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\TargetGroupEnabled",
00000001, "REG_DWORD"
    End if
'
End if

oLogging.CreateEntry "Configuring Windows Update settings (manual update, use server)",
LogTypeInfo

If oEnvironment.Item("NoAutoUpdate_Previous") = "" then
    On Error Resume Next
    iNoAutoUpdate =
oShell.RegRead("HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\NoAuto
Update")
    If iNoAutoUpdate = "" then
        iNoAutoUpdate = "<empty>"
    End if
    oLogging.CreateEntry "Archive NoAUtoUpdate State:  Was [" & iNoAutoUpdate & "].", LogTypeInfo
    oEnvironment.Item("NoAutoUpdate_Previous") = iNoAutoUpdate
    On Error Goto 0
End if

oShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\UseWUServer", 1,
"REG_DWORD"
oShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\NoAutoUpdate", 1,
"REG_DWORD"


' Restart the service to get the latest settings

oShell.Run "net stop wuauserv", 0, true
oShell.Run "net start wuauserv", 0, true


//----------------------------------------------------------------------------
//  Ensure the needed Windows Update Agent version is installed
```

```
    //---------------------------------------------------------------------

    bUpdateNeeded = True   ' init value, do not touch


    '  See if the version is sufficient

    On Error Resume Next
    Set objAgentInfo = CreateObject("Microsoft.Update.AgentInfo")
    If Err.Number = 0 then

        '  Make sure ApiMajorVersion is 4 or higher (Version 4 is needed to opt-in to Microsoft Update

        intMajorVersion = 0   ' init value
        intMajorVersion = objAgentInfo.GetInfo("ApiMajorVersion")
        If intMajorVersion >= 4 Then
            bUpdateNeeded = False
            bLogging.CreateEntry "Windows Update Agent verion " & intMajorVersion & " found, OK to
continue", LogTypeInfo
        Else
            bLogging.CreateEntry "Windows Update Agent verion " & intMajorVersion & " found, upgrade
needed", LogTypeInfo
        End if

    Else
        bLogging.CreateEntry "Unable to create Microsoft.Update.AgentInfo object, Windows Update Agen
upgrade is needed", LogTypeInfo
    End if


    If not bUpdateNeeded then
        VerifyWUA = 0
        Exit Function
    End if


    //---------------------------------------------------------------------
    //  Try to find the standalone installer file and install from it
    //---------------------------------------------------------------------
```

```
    ' From http://technet.microsoft.com/en-us/library/bb932139.aspx, you can obtain the
    ' Windows Update Agent stand-alone installer from:
    '
    ' http://go.microsoft.com/fwlink/?LinkID=100334 (WindowsUpdateAgent30-x86.exe)
    ' http://go.microsoft.com/fwlink/?LinkID=100335 (windowsupdateagent30-x64.exe)
    '
    ' Place these files in the Distribution\Tools\<platform> folder so this script can find them.


    sArchitecture = lcase(oEnvironment.Item("Architecture"))
    If sArchitecture = "" then
        sArchitecture = lcase(EES("%Processor_Architecture%"))
    End if
    If sArchitecture = "amd64" then
        sArchitecture = "x64"
    End if

    iResult = oUtility.FindFile("WindowsUpdateAgent30-" & sArchitecture & ".exe", strExePath)
    If iResult = Success then
        oLogging.CreateEntry "About to install updated Windows Update Agent from " & strExePath,
LogTypeInfo
        iResult = oShell.Run(strExePath & " /quiet /norestart", 0, true)
        oLogging.CreateEntry "Windows Update Agent installation return code = " & iResult, LogTypeInf
        VerifyWUA = 3010
        Exit Function
    End if

    oLogging.CreateEntry "Unable to find WindowsUpdateAgent30-" & sArchitecture & ".exe, will
attempt to download", LogTypeInfo


    '---------------------------------------------------------------------------
    '  Download the Windows Update Agent
    '---------------------------------------------------------------------------

    ' See http://msdn2.microsoft.com/en-us/library/aa387285.aspx for the basic logic used here.
```

```
    Dim sWURedistCab, oWUXML, sFileVer1, sFileVer2, sWUDownload


    sWURedistCab = InternetFileDownload("http://update.microsoft.com/redist/wuredist.cab")
    VerifyCriticalFile sWURedistCab, "wuredist.cab"


    ' Extract XML File

    oUtility.RunWithHeartbeat ees("Expand.exe -r " & sWURedistCab & " -F:wuRedist.xml %temp%")
    VerifyCriticalFile "%Temp%\WURedist.xml", "wuRedist.xml"


    ' Load XML File

    Set oWUXML = oUtility.CreateXMLDOMObjectEx(EES("%Temp%\WURedist.xml"))
    If oWUXML is nothing then
        oLogging.CreateEntry "Failed to load: %Temp%\WURedist.xml" , LogTypeError
        VerifyWUA = 1
        Exit function
    End if


    ' Get Local File Version

    sFileVer1 = oFSO.GetFileVersion ( ees("%SystemRoot%\System32\WUAUENG.DLL" ) )
    oLogging.CreateEntry "Current Version %SystemRoot%\System32\WUAUENG.DLL : " & sFileVer1 ,
LogTypeInfo


    ' Get New File Version

    sFileVer2 = oWUXML.selectSingleNode ("//WURedist/StandaloneRedist/architecture[@name='" &
sArchitecture & "']/@clientVersion").Text
    oLogging.CreateEntry "Current Version wuredist.cab : " & sFileVer2 , LogTypeInfo


    ' Download and install if file Versions don't match
```

```
    If sFileVer1 <> sFileVer2 then
        sWUDownload = InternetFileDownload( oWUXML.DocumentElement.selectSingleNode
("//WURedist/StandaloneRedist/architecture[@name='" & sArchitecture & "']/@downloadUrl").Text
)
        VerifyCriticalFile sWUDownload, "WUDownload.exe"
        iResult = oUtility.RunWithHeartbeat(sWUDownload & " /wuforce /quiet /norestart")

        VerifyWUA = iResult
        Exit Function
    End if


    ' Cleanup

    On Error Resume Next
    For each item in array ( sWURedistCab, EES("%Temp%\WURedist.xml"), sWUDownload )
        If oFSO.FileExists(item) then
            oFSO.DeleteFile item
        End if
    Next
    On Error Goto 0

End Function


Function InternetFileDownload( InternetURL  )
    Dim InternetBuffer
    Dim ADODB

    Set ADODB = CreateObject("ADODB.Stream")
    Set InternetBuffer = CreateObject("Msxml2.XmlHttp")
    InternetBuffer.open "GET", InternetURL , false
    On Error Resume Next
    InternetBuffer.send ""
    On Error Goto 0

    If InternetBuffer.ReadyState = 4 then
        oLogging.CreateEntry "Status: " & InternetBuffer.Status & " " & InternetURL, LogTypeInfo
    Else
```

```
        oLogging.CreateEntry "Ready State : " & InternetBuffer.ReadyState & " " & InternetURL ,
LogTypeWarning
    End if

    If InternetBuffer.Status = 200 then
        If ADODB.State <> 0 then ADODB.Close
        ADODB.Type = 1 '(1=binary,2=Text)
        ADODB.Mode = 3 '(1=Read,2=Write,3=RW)
        ADODB.Open
        ADODB.Write InternetBuffer.ResponseBody
        ADODB.SaveToFile EES( "%temp%\" & oFSO.GetFileName(InternetURL) ) , 2
        ADODB.Close
    End if

    If InternetBuffer.Status = 200 then
        InternetFileDownload = EES( "%temp%\" & oFSO.GetFileName(InternetURL) )
    End if

End function

Function FormatLargeSize( lSize )

    Dim i
    For i = 1 to len(" KMGTPEZY")
        If cdbl(lSize) < 1024 ^ i then
            FormatLargeSize = int(cdbl(lSize)/(1024^(i-1))) & " " & mid(" KMGTPEZY",i,1) & "B"
            Exit function
        End if
    next

End function

Function EES ( EnvStr )
    EES = oShell.ExpandEnvironmentStrings( EnvStr )
End function


Sub VerifyCriticalFile (FileName, Description)
```

```
    If FileName = "" or not oFSO.FileExists(ees(FileName)) then
        oLogging.CreateEntry Description & " not found: " & FileName , LogTypeError
        oLogging.CreateEntry "   Most likely cause: No Internet Access or unconfigured Proxy
settings!", LogTypeError
        oLogging.ReportFailure "Critical file " & FileName & " was not found, aborting", 9906
    End if

End sub

End Class

Class Progress
  Public Default Function Process
  End Function
End Class
</script>
</job>
```

Raccourcis.ps1

Ce script me permet d'ajouter des raccourcis dans le bureau public de l'ordinateur.

```
# Raccourci Office.com avec icône
Copy-Item "\\RN-SRV-WDS01.ad.khroners.fr\GPO$\Raccourcis\Office.ico" -Destination
"C:\Office.ico"
$TargetFile = "https://www.office.com/"
$shortcutFile = "C:\Users\Public\Desktop\Portail Office Web.lnk"
$WScriptShell = New-Object -ComObject WScript.Shell
$shortcut = $WScriptShell.CreateShortcut($ShortcutFile)
$shortcut.TargetPath = $TargetFile
$shortcut.IconLocation = "C:\Office.ico"
$shortcut.Save()

# Raccourcis suite Microsoft365
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Word.lnk" -Destination
"c:\users\Public\Desktop" -Force
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Excel.lnk" -Destination
"c:\users\Public\Desktop" -Force
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\PowerPoint.lnk" -
```

```
Destination "c:\users\Public\Desktop" -Force
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\OneNote.lnk" -
Destination "c:\users\Public\Desktop" -Force
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Outlook.lnk" -
Destination "c:\users\Public\Desktop" -Force
Copy-Item -Path "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Publisher.lnk" -
Destination "c:\users\Public\Desktop" -Force
```

Install_Drivers.ps1

Ce script me permet de télécharger les pilotes via Windows Update.

```
$Session = New-Object -ComObject Microsoft.Update.Session
$Searcher = $Session.CreateUpdateSearcher()

$Searcher.ServiceID = '7971f918-a847-4430-9279-4a52d1efe18d'
$Searcher.SearchScope =  1 # MachineOnly
$Searcher.ServerSelection = 3 # Third Party

$Criteria = "IsInstalled=0 and Type='Driver'"
Write-Host('Searching Driver-Updates...') -Fore Green
$SearchResult = $Searcher.Search($Criteria)
$Updates = $SearchResult.Updates
□
#Show available Drivers...
$Updates | select Title, DriverModel, DriverVerDate, Driverclass, DriverManufacturer | fl

$UpdatesToDownload = New-Object -Com Microsoft.Update.UpdateColl
$updates | % { $UpdatesToDownload.Add($_) | out-null }
Write-Host('Downloading Drivers...')  -Fore Green
$UpdateSession = New-Object -Com Microsoft.Update.Session
$Downloader = $UpdateSession.CreateUpdateDownloader()
$Downloader.Updates = $UpdatesToDownload
$Downloader.Download()

$UpdatesToInstall = New-Object -Com Microsoft.Update.UpdateColl
$updates | % { if($_.IsDownloaded) { $UpdatesToInstall.Add($_) | out-null } }

Write-Host('Installing Drivers...')  -Fore Green
```

```
$Installer = $UpdateSession.CreateUpdateInstaller()
$Installer.Updates = $UpdatesToInstall
$InstallationResult = $Installer.Install()
if($InstallationResult.RebootRequired) {
Write-Host('Reboot required! please reboot now..') -Fore Red
} else { Write-Host('Done..') -Fore Green }

$updateSvc.Services | ? { $_.IsDefaultAUService -eq $false -and $_.ServiceID -eq "7971f918-a847-4430-9279-4a52d1efe18d" } | % { $UpdateSvc.RemoveService($_.ServiceID) }
```

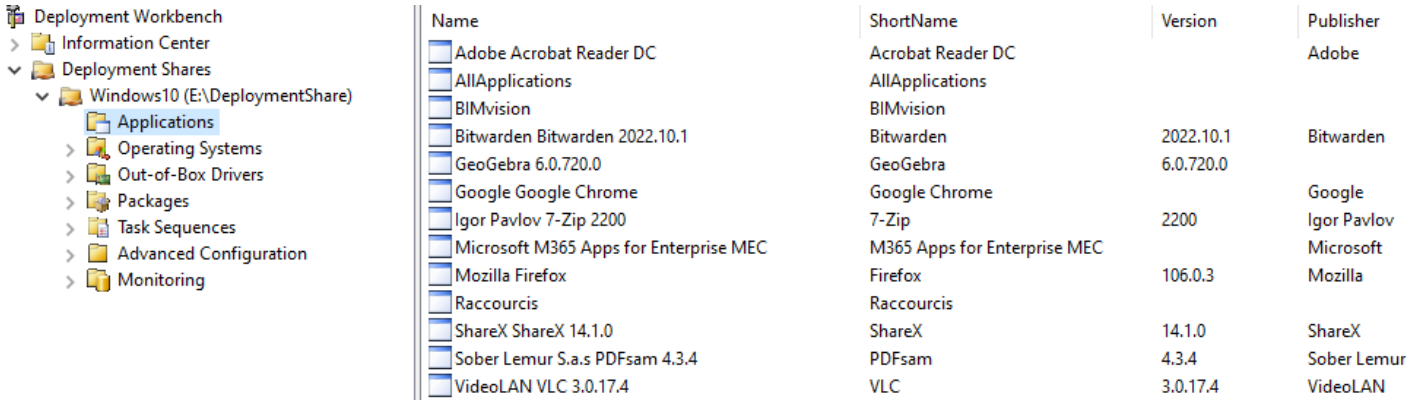
RestoreREG.ps1

Ce script permet de restaurer le registre suite à ma modification de ce dernier avant le déploiement : Modifier le registre d... | Docs Khroners

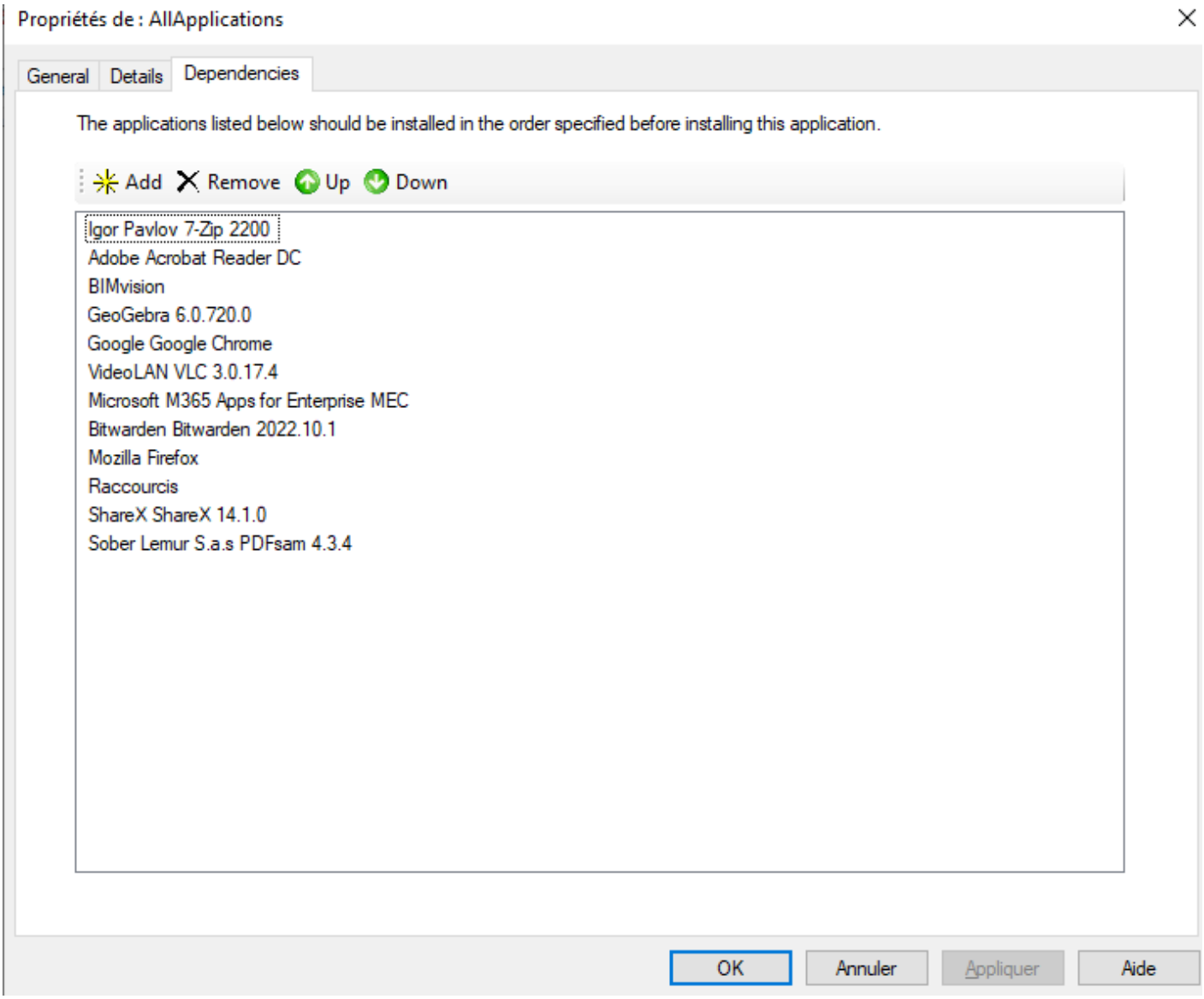
```
reg add HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\DriverSearching /v SearchOrderConfig /t REG_DWORD /d 00000001 /f
reg delete HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate /f
```

Applications

Liste



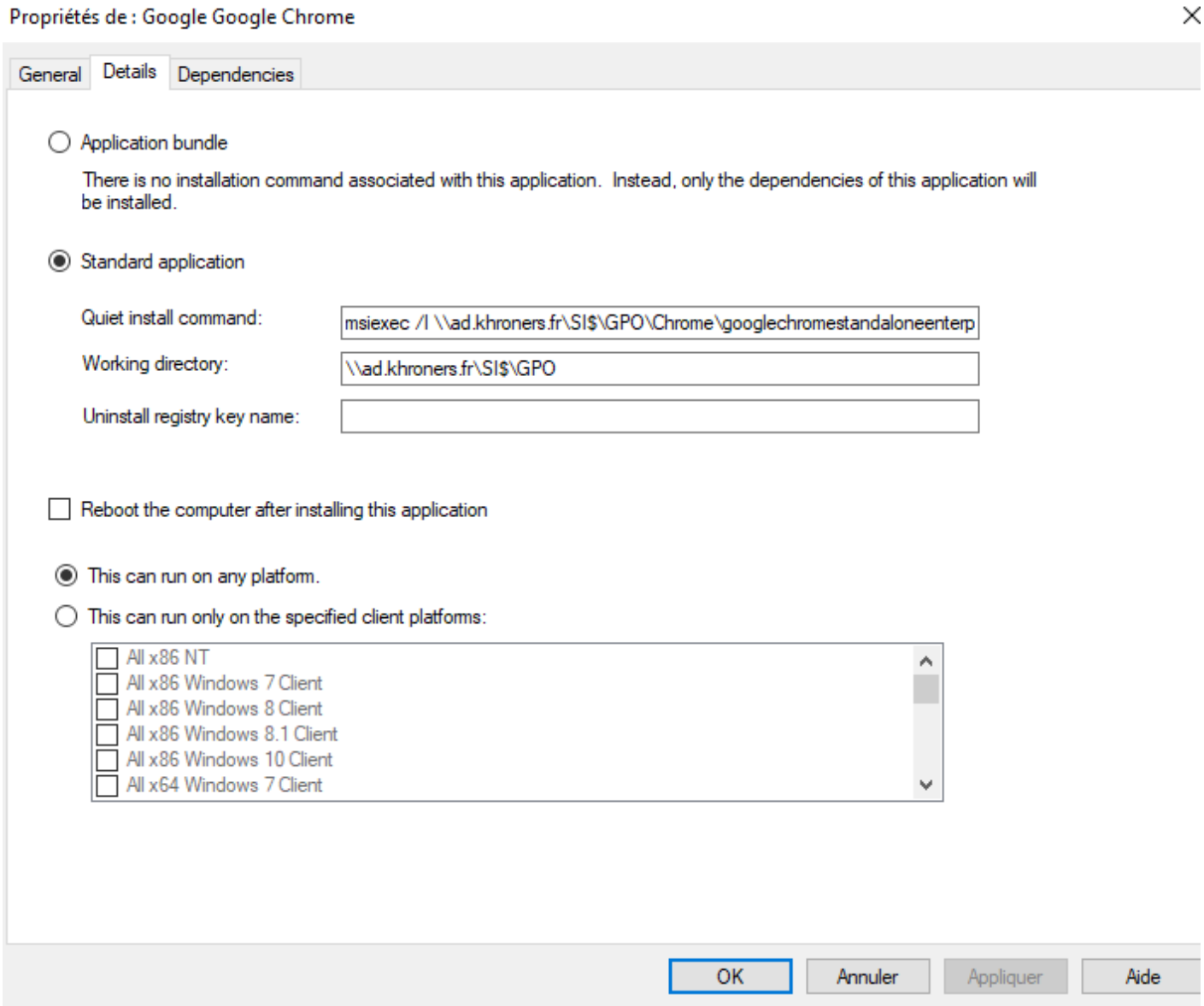
Bundle pour installer toutes les applications



Exemple de commande d'installation

MSI

```
msiexec /I \\ad.khroners.fr\SI$\GPO\Chrome\googlechromestandaloneenterprise64.msi /qn
```



Si le répertoire où est placé le setup est sur un partage DFS (ou simplement en dehors du DeploymentShare (à vérifier)), il faut qu'une des applications du bundle comprenne le partage dans le champ "Working Directory".

EXE

```
\\ad.khroners.fr\SI$\GPO\Bitwarden\Bitwarden-Installer-2022.10.1.exe /S /ALLUSERS
```

Revision #6
Created 6 November 2022 16:51:22 by Khroners
Updated 7 November 2022 17:37:00 by Khroners