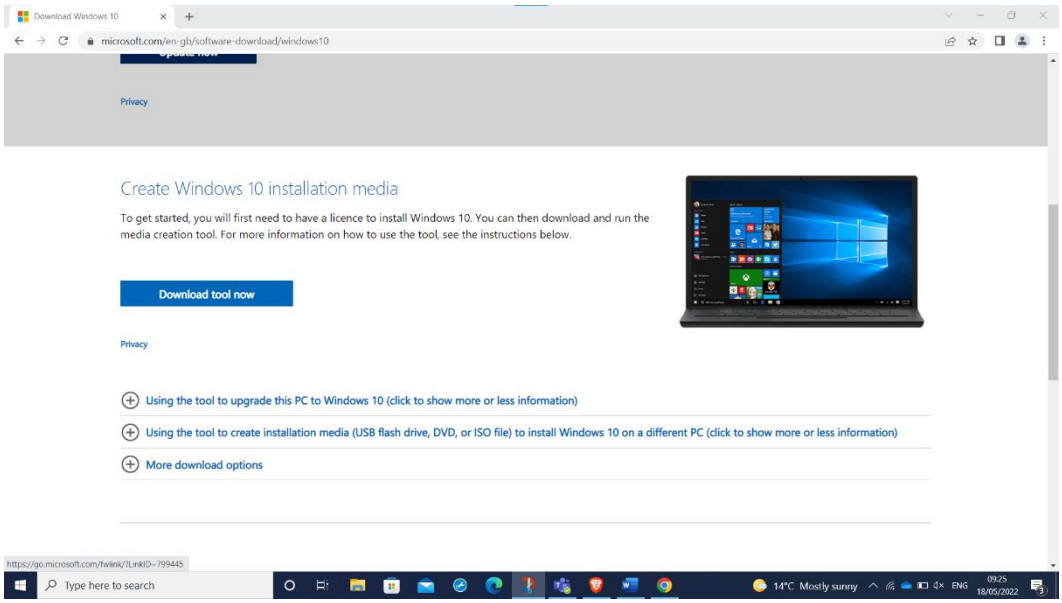
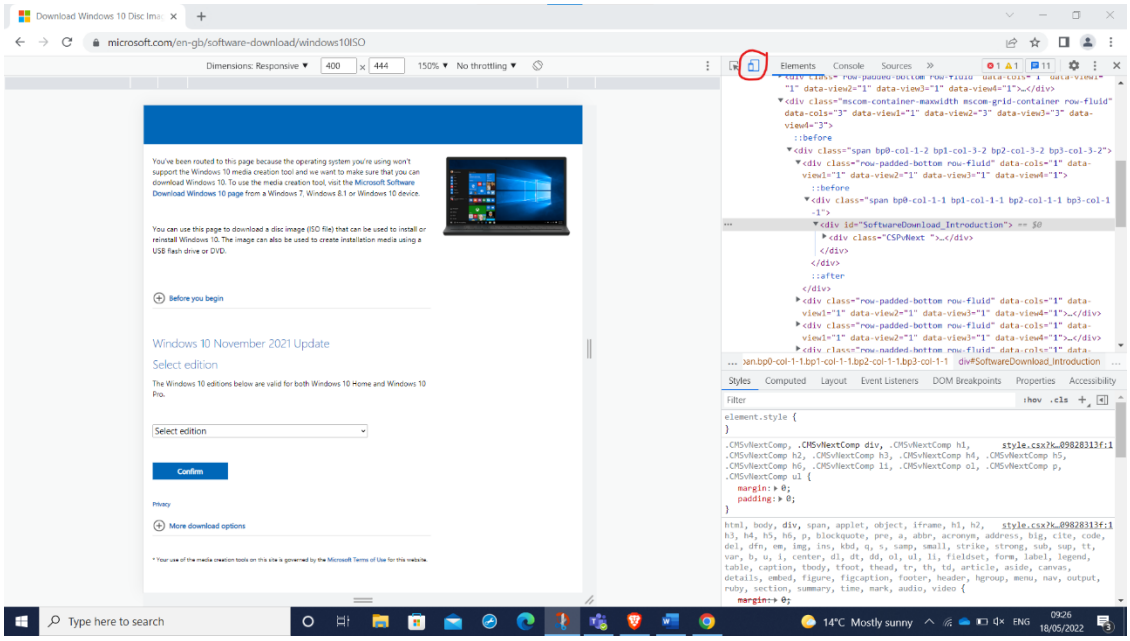
Unattended Windows Installation

1. Download the original ISO o Windows 10

You can download the .iso from main page of Microsoft without the Microsoft Tools.



The way for to do this is.. you must right click and go to inspect then you click in mode phone, later you refresh the page:



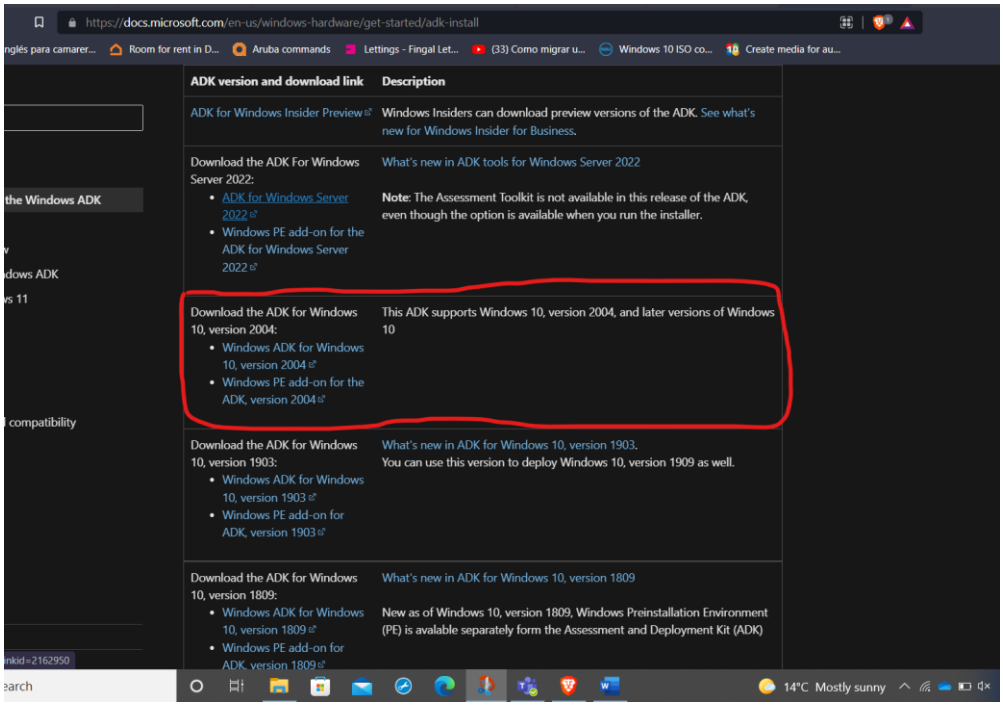
Select the versión of the S.O and download 😊

Note: This tip, I usually do in Google Chrome beacuse, it could fail in other browser.

2. Install Windows ADK for Windows System Image Manager and Development Tools.

You can to download this packet in the main page of Microsoft. https://docs.microsoft.com/en-us/windows-hardware/get-started/adk-install

You need the most recent versión of this packet:

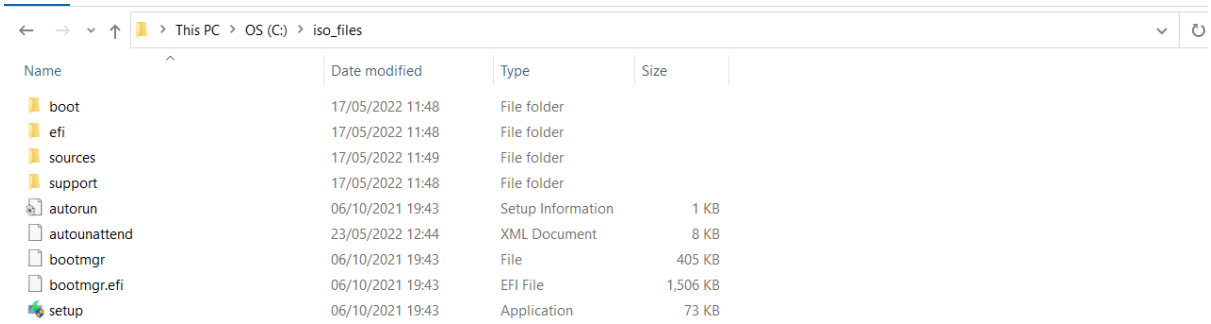


When we go to install it and the installation wizard comes up. Choose only Development Tool.

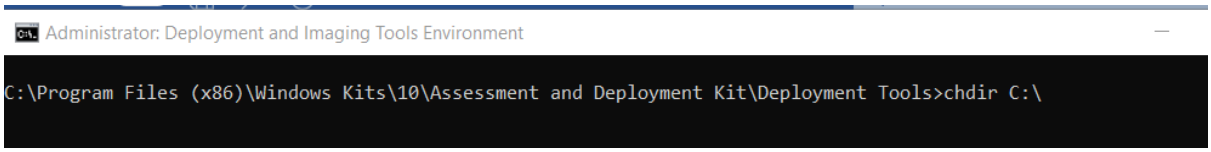
Once finish the installation, we will have two features more, Imaging tools environment and Image Manager.

3. Mount the image and export for then customizer the image

The fisrt open PowerShell for to enter this command “Mount-DiskImage -ImagePath Ubicaciondelaimagen”. With this we will have the mounted image, we will have to go inside the image and copy all the root of the CR-ROM and paste it in a folder that we will create called ISO-FOLDER. Once this step is done, the next thing to do is to go to the ISO-FOLDER folder and take the install.wim file. This file is in the sources folder



Start the deployment Tools console and enter this:



Copy the .wim file in other folder for custimze more later. Before use the Image Manager we need to use this command:

```
dism /Get-WimInfo /WimFile:C:\tmp\install.wim
```

Then printer for the Command Line Indexes the differents Operating Systems. I need the Index 6 (Windows 10 Pro).

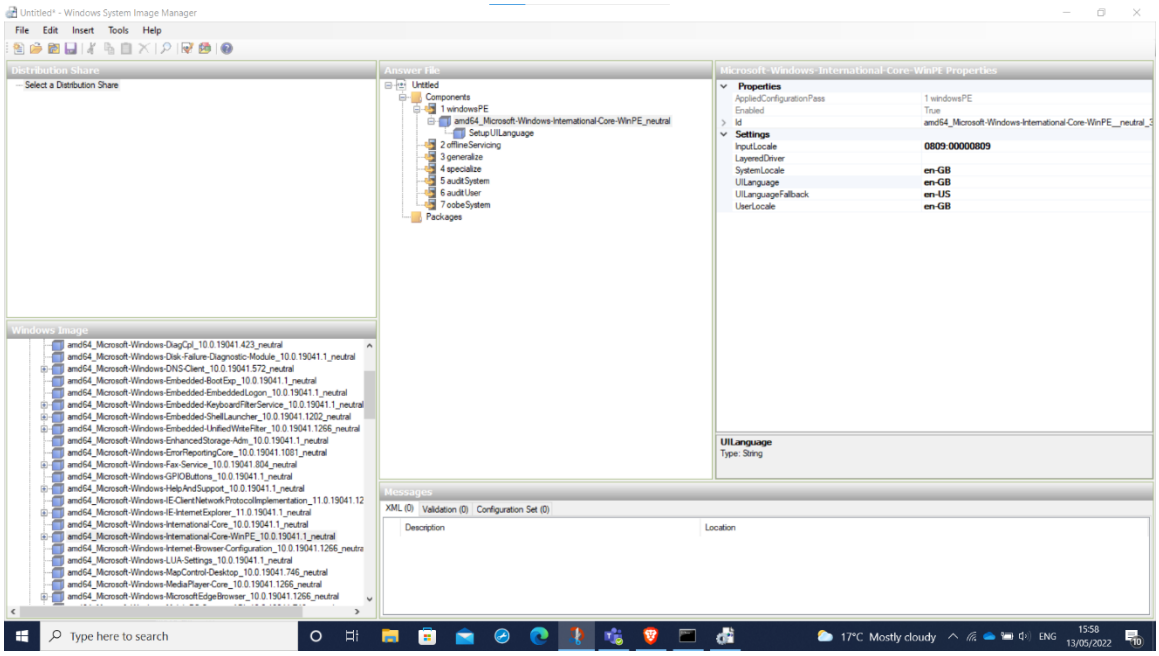
```
dism /Export-Image /SourceImageFile:C:\tmp\install.wim /SourceIndex:6
/DestinationImageFile:C:\tmp\install_1.wim
```

When we do this, we now have the permissions to be able to customise it. Now open Image Manager and click on open response image and select install_1.wim

We go to the windows image window and click on components. There, we look for the name of one packet “amd64_Microsoft-Windows-International-Core-WinPE_neutral” add this packet with right click.

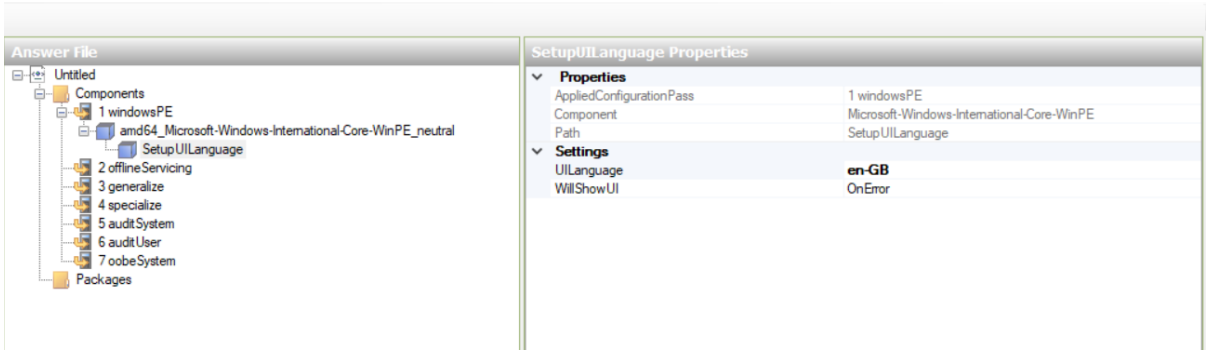
In case the file’s extensión was .esd you can to convert .esd to .wim with this tutorial

https://www.tenforums.com/tutorials/95308-convert-esd-file-wim-using-dism-windows-10-a.html

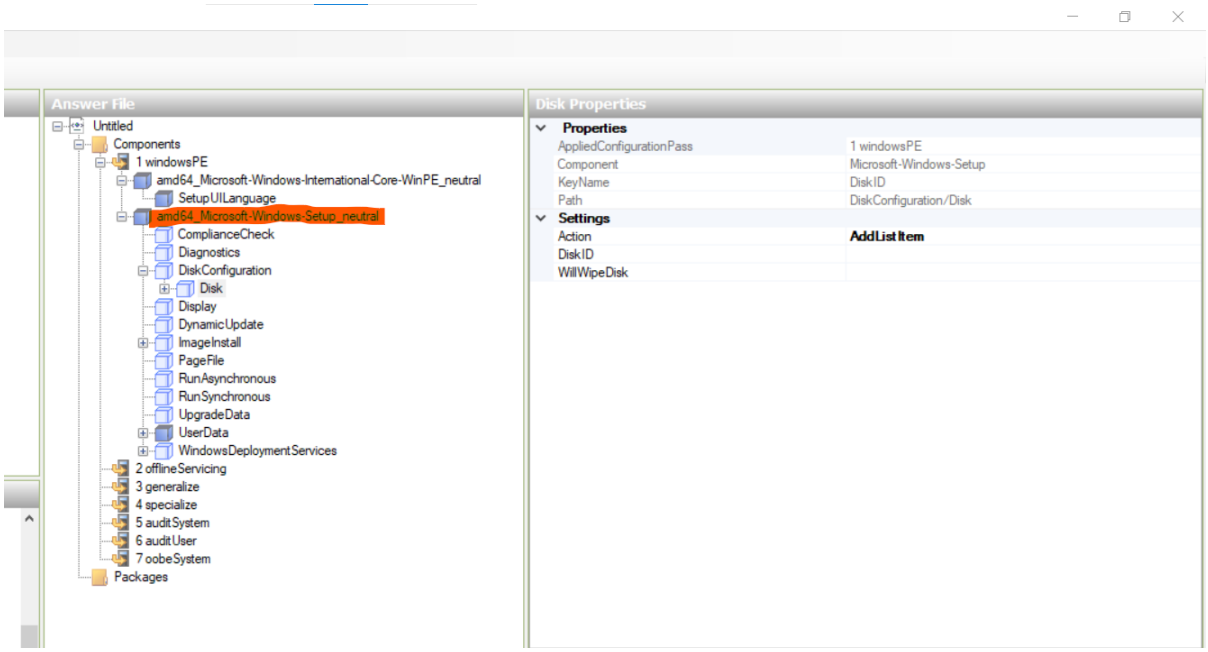


We complete the settings with the language we want to use. For InputLocale see this link

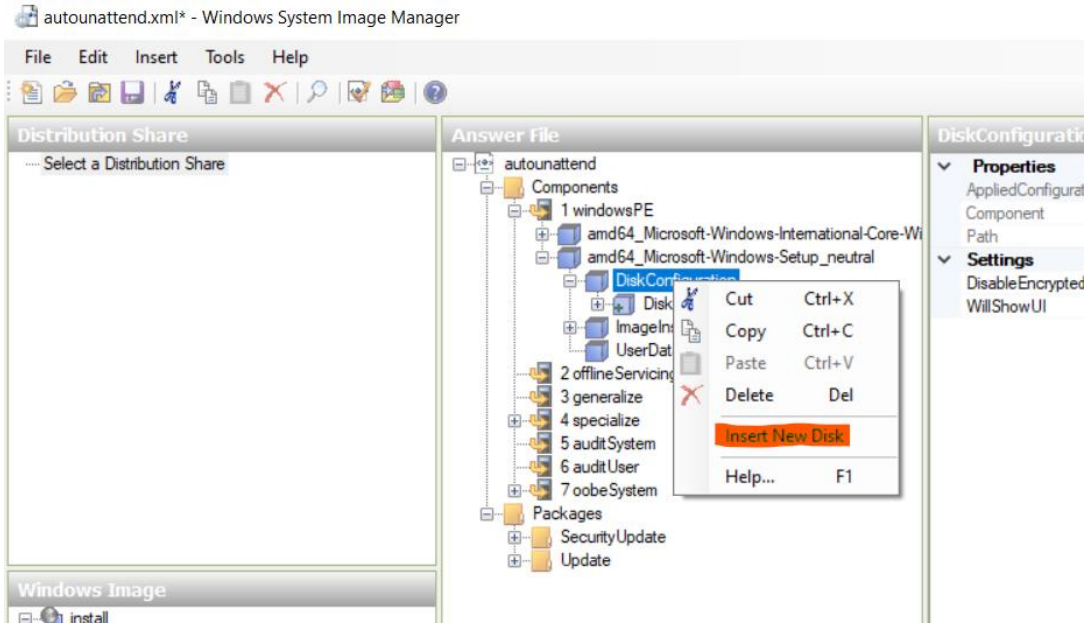
https://docs.microsoft.com/en-us/previous-versions/windows/it-pro/windows-8.1-and-8/hh825682(v=win.10)



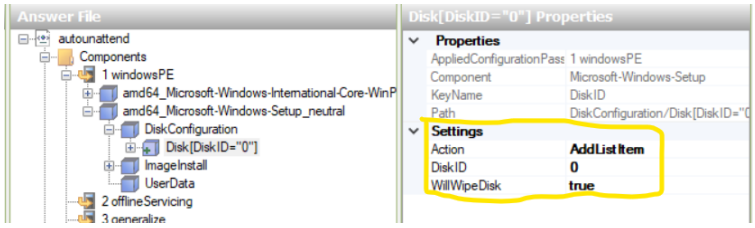
Then, we add other component, with this component we go to customized the partitions of Windows 10. There are two ways for to do this configuration. With GPT or MBR, I am goint to explain both. We will also configure the ProductKey, Accept EULA in the section UserData of this component.



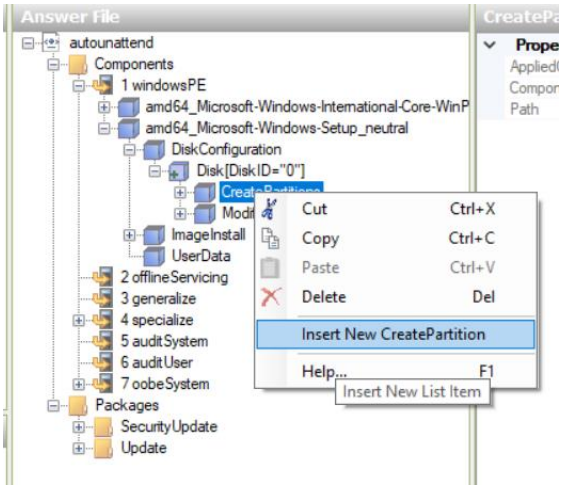
First I will configure a single disk which will be partitioned to use all capacity after system partitions have been created for Windows partition C:.



We put this configuration:

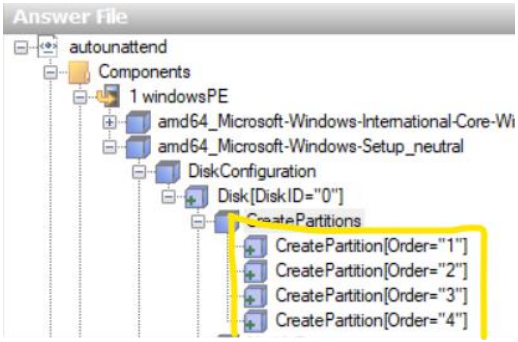


Expand disk, right click Create Partitions and select Insert New CreatePartition:



Partitions for GPT:

PARTITION	EXTEND	ORDER	SIZE(MB)	TYPE
WinRE	False	1	450	Primary
EFI	False	2	100	EFI
MSR	False	3	16	MSR
Windows	True	4	-	Primary

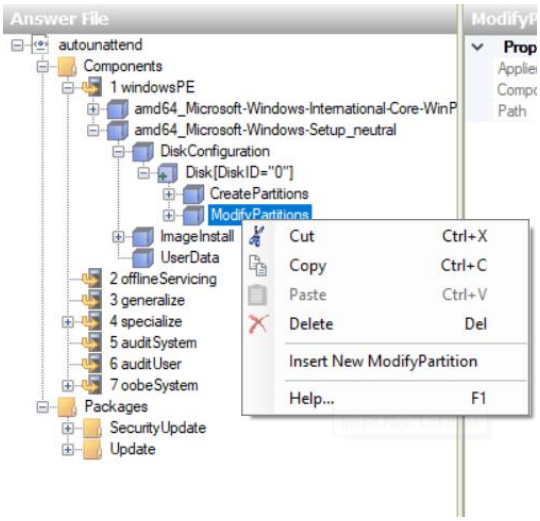


Partitions for MBR:

PARTITION	EXTEND	ORDER	SIZE(MB)	TYPE
System Reserved	False	1	450	Primary
Windows	True	2	-	Primary

The same way for MBR

Repeat this create a ModifyPartition:



For GPT disk only set the properties for each partition:

WinRE partition:

- Format = NTFS
- Label = WinRE
- Order = 1
- PartitionID = 1
- TypeID = DE94BBA4-06D1-4D40-A16A-BFD50179D6AC

EFI partition:

- Format = FAT32
- Label = System
- Order = 2
- PartitionID = 2

MSR partition:

- Order = 3
- PartitionID = 3

Windows partition:

- Format = NTFS
- Label = Windows
- Letter = C
- Order = 4
- PartitionID = 4

For MBR disk only set the properties for each partition:

System Reserved partition:

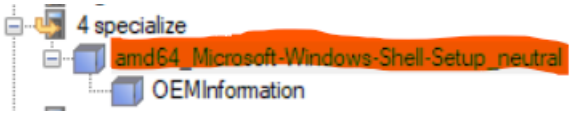
- Active = True
- Format = NTFS
- Label = System
- Order = 1

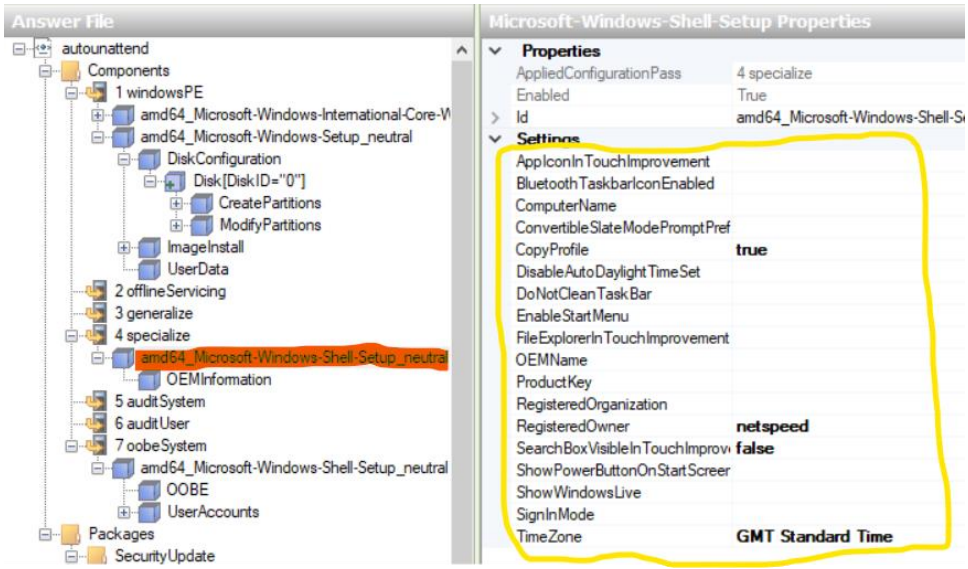
- PartitionID = 1

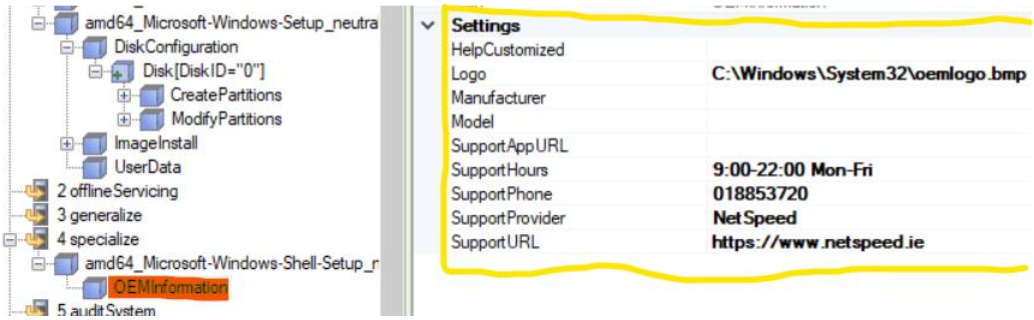
Windows partition:

- Format = NTFS
- Label = Windows
- Letter = C
- Order = 2
- PartitionID = 2

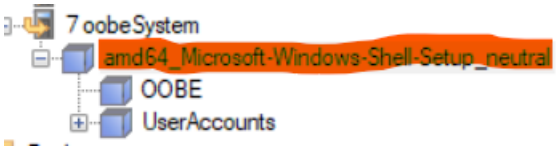
Once this is done, we will add other components to configure the users and some other company information.



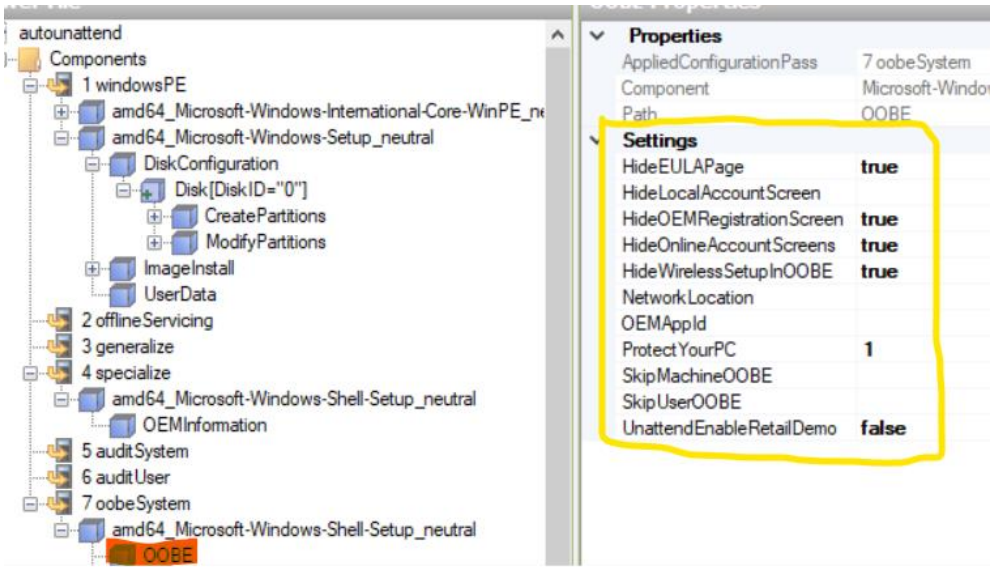




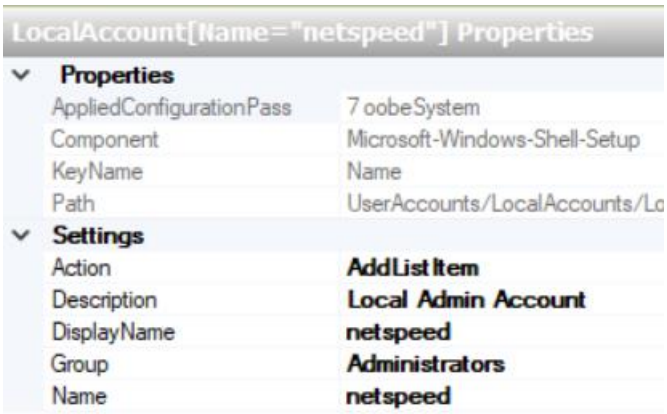
We add another more component



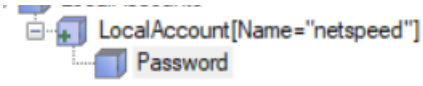
The properties for OOBE is:



Extend UserAccounts and right clic LocalAccount



Extend the LocalAccount:



We put the password of the user. First you put the password in plain text and then when i will use image for install Windows 10 we can to look the hashed password.

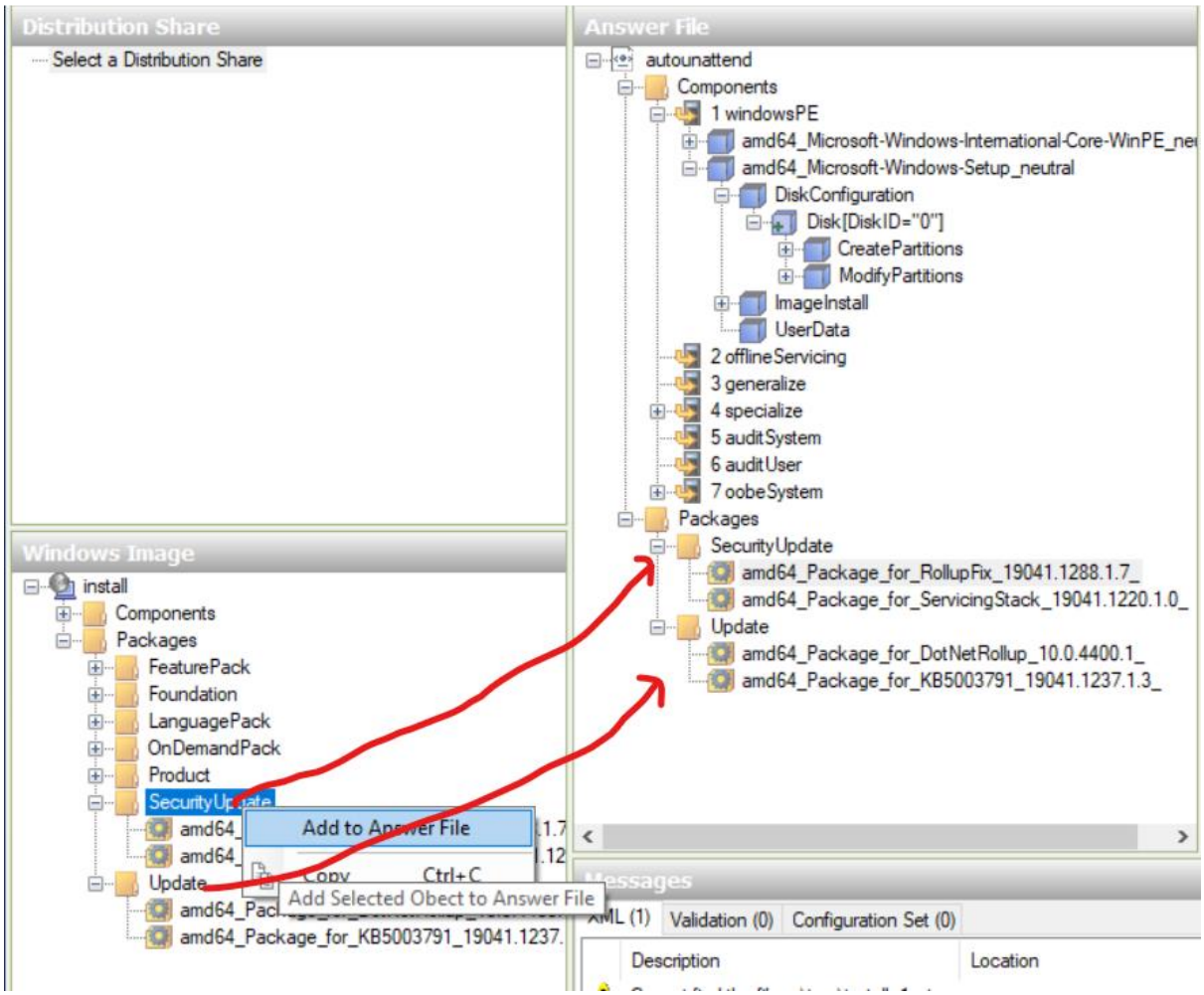
Now when we want to save the file, we get a error of the ProductKey but skip this error and save the file.

The name of the file is autounattend.xml so we insert one tag in UserData:

```
<UserData>
    <AcceptEula>true</AcceptEula>
    <WillShowUI>always</WillShowUI>
</UserData>
```

This will cause the installation to ask us if we have a product key and we can skip this window.

The last thing for to do is insert the packages for Security and Updates.



4. Insert autounattend.xml into the .iso

The last step is to insert the autounattend.xml file into the .iso. Then we need to burn the folder for to convert in an image .iso for to install our windows 10 customize.

We use this command in Deployment Tools with elevated privileges:

```
oscdimg.exe -m -o -u2 -udfver102 -
bootdata:2#p0,e,bc:\iso_files\boot\etfsboot.com#pEF,e,bc:\iso_files\efi\microsoft\
boot\efisys.bin c:\iso_files c:\windowstest.iso
```

Once the process has been completed, we can to create a virtual machine and insert the image .iso.

5. Windows 10 with OOBE