

# Подготовка на многоезиков Windows

Източник: <https://learn.microsoft.com/ru-ru/windows-hardware/manufacture/desktop/add-language-packs-to-windows?view=windows-11>

Подготовка на изходните ISO-та:

1. Свлягане на ISO-то. Няма значение BG или EN. Примера е за BG.

2. Свлягане на езиковите пакети

LP download: <https://www.ntlite.com/community/index.php?threads/language-packs-for-windows-11-10-8-1-7.17/page-5>

3. Слагаме ISO-тата в c:\iso-files

4. Правим следните папки

```
1 md c:\mount\windows
2 md c:\mount\boot
3 md c:\mount\winre
```

Подготовка на install.wim

• Избор на имидж:

```
1 Dism /Get-ImageInfo /imagefile:C:\iso-files\sources\install.wim
```

• Виждаме индекса на желаната версия на Windows и я монтираме (да се замени XXXXX с индекса:

```
1 Dism /Mount-Image /ImageFile:C:\iso-files\sources\install.wim /Index:XXXXXX /MountDir:"C:\m
```

• Монтиране на езиковото ISO:

```
1 $isoImg = "c:\iso-files\22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso
2 $driveLetter = "f:"
3 $diskImg = Mount-DiskImage -ImagePath $isoImg -NoDriveLetter
4 $volInfo = $diskImg | Get-Volume
5 mountvol $driveLetter $volInfo.UniqueId
```

• Добавяме езиковия пакет:

```
1 Dism /Image:"C:\mount\windows" /Add-Package /PackagePath="F:\LanguagesAndOptionalFeatures\M
```

• Проверяваме резултата:

```
1 Dism /Image:"C:\mount\windows" /Get-Packages /format:table > lang.txt
```

• Взимаме списък на възможните пакети за инсталиране:

```
1 DISM /online /Get-Capabilities /format:table > lang-cap.txt
```

- Сравняваме къде има единия език но няма другия и добавяме липсващите:

```
1 #добавяне на английски
2 Dism /Image:"C:\mount\windows" /Add-Capability /capabilityname:Language.Speech~~~en-US~0.0.
3
4 #добавяне на български
5 Dism /Image:"C:\mount\windows" /Add-Capability /capabilityname:Language.Basic~~~bg-bg~0.0.1
```

- Проверяваме резултата:

```
1 Dism /Image:"C:\mount\windows" /Get-Packages /format:table
2
3 #или
4
5 Dism /Image:"C:\mount\windows" /Get-Capabilities /format:table | findstr /i "installed"
```

- Настройваме език по подразбиране:

```
1 Dism /Image:"C:\mount\windows" /Set-AllIntl:bg-bg /Set-TimeZone:"FLE Standard Time"
```

## Подготовка на WinRe

```
1 Dism.exe /Get-ImageInfo /imagefile:c:\mount\windows\Windows\system32\recovery\winre.wim
2
3 ## Взимаме индекса
4
5 Dism /Mount-Image /ImageFile:"C:\mount\windows\Windows\System32\Recovery\winre.wim" /index:1 /MountDi
```

### Минимално добавяме:

```
1 f:
2 cd "f:\Windows Preinstallation Environment\x64\WinPE_OC\en-us\"
3 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
4 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
5 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
6 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
7 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
8 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
9 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
10 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
11 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
12 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
```

### Освен това е хубаво да добавим:

```
f:
cd '.\Windows Preinstallation Environment\x64\WinPE_OC\en-us\'
Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
```

```
5 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
6 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
7 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
8 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
9 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
10 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
11 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
12 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
13 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
14 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
15 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
16 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
17 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
18 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
19 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
20 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
21 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
22 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
23 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
24 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
25 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
26 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
27 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
28 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
29 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
30 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
31 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
32 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
33 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
34 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
35 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
36 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
37 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
38 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
39 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
40 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
41 rem Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
42 Dism /Image:"C:\mount\winre" /Add-Package /PackagePath:"F:\Windows Preinstallation Environment\x64\Wi
```

### Проверяваме резултата:

```
1 dism /get-packages /image:c:\mount\winre /format:table
```

### Комитваме промените във WinRe:

```
1 Dism /unmount-image /mountdir:C:\mount\winre /commit
```

### Ако няма да продължаваме с WinPE - комитваме и install.wim

```
1 Dism /Commit-Image /MountDir:"C:\mount\windows"
```

## Добавяне на езици във WinPE:

Източник 1: <https://learn.microsoft.com/ru-ru/windows-hardware/manufacture/desktop/add-multilingual-support-to-windows-setup?view=windows-11>

Източник 2: <https://learn.microsoft.com/ru-ru/windows-hardware/manufacture/desktop/winpe-mount-and-customize?view=windows-11>

### Монтираме имиджа:

```
1 Dism /Get-ImageInfo /imagefile:C:\iso-files\sources\boot.wim
2
3 ### Взимаме индекса
4
5 Dism /mount-image /imagefile:C:\iso-files\sources\boot.wim /index:2 /mountdir:C:\Mount\boot
```

### Добавяме LP:

```
1 Dism /image:C:\mount\boot /add-package /packagepath:"C:\Program Files (x86)\Windows Kits\10\Assessmer
2 Dism /image:C:\mount\boot /add-package /packagepath:"C:\Program Files (x86)\Windows Kits\10\Assessmer
3 Dism /image:C:\mount\boot /add-package /packagepath:"C:\Program Files (x86)\Windows Kits\10\Assessmer
```

### Монтираме EN-US ISO-то като Н и копираме папката EN-US от h:\sources в c:\mount\boot\sources

#### Ако сме демонтирали install.wim първо го монтираме:

```
1 Dism /Mount-Image /ImageFile:C:\iso-files\sources\install.wim /Index:XXXXXX /MountDir:"C:\mount\windc
```

### Добавяме езиковите пакети във Windows:

```
1 Dism /image:C:\mount\windows /gen-langINI /distribution:C:\iso-files
```

### Сменяме езика по подразбиране:

```
1 Dism /image:C:\mount\boot /Set-SetupUILang:bg-bg /distribution:C:\iso-files
```

### Копираме езиковото ini:

```
1 Xcopy C:\iso-files\sources\lang.ini C:\mount\boot\sources\lang.ini
```

### Примерно съдържание на lang.ini:

```
[Available UI Languages]
bg-BG = 3
en-US = 2

[Fallback Languages]
```

```
6 bg-BG = en-us
```

### Демонтираме и комитваме имиджите:

```
1 Dism /unmount-image /mountdir:C:\mount\boot /commit
2 Dism /unmount-image /mountdir:C:\mount\windows /commit
```

### Създаване на нов ISO файл:

```
1 C:\Windows\System32\oscdimg.exe -m -o -u2 -udfver102 -bootdata:2#p0,e,bc:\iso-files\boot\etfsboot.com
```

### Създаване на собствен имидж:

Правим Hyper-V виртуалка и инсталираме от ISO-то създадено в предната точка. **Целта е да влезе в OOBЕ режим.**

### Влизане в OOBЕ:

Ctrl+Shift+F3 на първия екран след първия рестарт на Windows (избор на страна)

### Ъпдейти до дупка.

**Ако сме "стъпили" на БГ имидж и към него сме добавили друг език, инсталираме на БГ. Причината - Ако езиковите пакети са по-стари от ISO-то на което сме стъпили (обикновено е така), в добавения език менютата в Setup не са си по местата и не са с правилните имена, тъй като са различни версии на различните езици. Това ще се оправи чак когато инсталацията се ъпдейтне, така че и в двата езика всичко да е една и съща версия.**

Докато вървят ъпдейтите - деинсталиране на пиннати приложения + Microsoft News, Teams, Xbox, Xbox Live и One Drive **(да се види защо не се получава)**

### Инсталиране на софтуери

**WinRAR контекстното меню чупи OOBЕ-то. Да се инсталира така че да не е каскадно.**

### Настройки не регистри.

### Добавяне на RunOnce регистър и .cmd файл:

В regedit зреждаме като hive в HKEY\_USERS NTUSER.DAT на потребител Default. Ако го заредим като TEST, в HKEY\_USERS\TEST\Software\Microsoft\Windows\CurrentVersion\RunOnce добавяме стойност стринг с пътя към .CMD файла с инициализациите на вески нов потребител.

Например файл RunOnceReg.cmd:

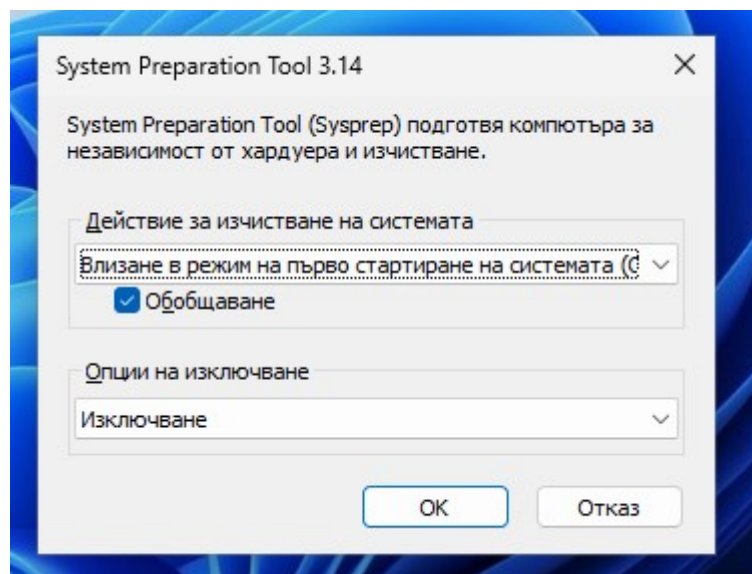
```
reg add "HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\ControlPanel" /v Startu
reg add "HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\ControlPanel" /v AllIta
reg add "HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced" /v Hidden /t
reg add "HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced" /v HideFileEx
reg add "HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Search" /v SearchboxTaskbarMode
reg add "HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Search" /v TaskbarDa /t REG_DWOF
```

```
7 reg add "HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Search" /v TaskbarMn /t REG_DWORD
8 reg add "HKEY_CURRENT_USER\SOFTWARE\CLASSES\CLSID\{86ca1aa0-34aa-4e8b-a509-50c905bae2a2}"
9 reg add "HKEY_CURRENT_USER\SOFTWARE\CLASSES\CLSID\{86ca1aa0-34aa-4e8b-a509-50c905bae2a2}\InprocServer
10 echo Y|del %appdata%\microsoft\windows\recent\automaticdestinations\*
11 del %0
```

### Записваме чекпойнт и изпълняваме SysPrep.

Ако сме го затворили, намира се в `%WINDIR%\System32\Sysprep`, а логовете му в `%WINDIR%\System32\Sysprep\Panther`

Опциите на SysPrep са: Влизане в режим на първо стартиране на системата (OOBE), Обобщаване и Изключване



От команден ред:

```
1 %WINDIR%\system32\sysprep\sysprep.exe /generalize /shutdown /oobe
```

### Генерираме имидж със следния PS скрипт. Променливата `vmname` е името на виртуалката:

```
$vhd=""
$sys=""
$vmname="OOBE-BG-EN"
#$vhd=Get-VMSnapshot -VMName OOBE -name "*latest" | select -ExpandProperty HardDrives | % { Get-VHD $
$vhd=Get-VM -VMName "$vmname" | Select-Object -Property VMId | Get-VHD | Where {$_.Path -like "*$vmname
$last=dir "$vhd" | select -ExpandProperty LastWriteTime
echo "Using virtual disk $vhd"
echo "Last writed at $last"
Mount-VHD -Path "$vhd" -Readonly
$sys=Get-Disk -FriendlyName "Msft Virtual Disk" | Get-Partition | Where-Object -FilterScript {$_.Part
echo "System virtual disk mounted as $sys"
$imgname="Win11 x64 OIH"
$wimfile="C:\iso-files\sources\install.wim"
del $wimfile
echo "Old install.wim file $wimfile deleted"
echo "Creating new file $wimfile"
New-WindowsImage -ImagePath $wimfile -CapturePath $sys:"\ " -ScratchDirectory "c:\Scratch" -Name "Win1
$isofile="c:\oobe\Win11PRO_x64_noTPM_BG_US_OIH.iso"
```

```
19 echo "Creating new ISO file $isofile"
20 C:\Windows\System32\oscdimg.exe -m -o -u2 -udfver102 -bootdata:2#p0,e,bc:\iso-files\boot\etfsboot.com
21 echo "Unmounting virtual disk"
22 Dismount-VHD -Path $vhd
23 Read-Host -Prompt "Press any key to continue..."
```

### WinRAR context menu registry:

```
1 Windows Registry Editor Version 5.00
2
3 [HKEY_CURRENT_USER\Software\Classes\Folder\ShellEx\ContextMenuHandlers\WinRAR]
4 @="{B41DB860-64E4-11D2-9906-E49FADC173CA}"
5
6 [HKEY_CURRENT_USER\Software\Classes\Folder\ShellEx\ContextMenuHandlers\WinRAR32]
7 @="{B41DB860-8EE4-11D2-9906-E49FADC173CA}"
```