Windows 11 22H2

详解 Windows 11 22H2 如何离线封装多语言制作流程，在本文中，分为多个部分来完成制作。

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## **[部署映像](#_top)**

### **[先决条件](#_自定义部署映像)**

#### [**ISO 工具**](#_PREREQUISITES)

准备一款可编辑 ISO 文件的软件，例如：PowerISO、DAEMON Tools、ISO Workshop；

#### [**获取相关包**](#_PREREQUISITES)

学习“附件：OS”，查看“Windows 11”项，

##### [**系统安装包**](#_PREREQUISITES)

* 1. 准备：en-us\_windows\_11\_business\_editions\_version\_22h2\_x64\_dvd\_17a08ce3.iso
  2. 解压到：D:\en-us\_windows\_11\_business\_editions\_version\_22h2\_x64\_dvd\_17a08c
  3. 解压完成后，将目录en-us\_windows\_11\_business\_editions\_version\_22h2\_x64\_dvd\_17a08c 更改为 D:\OS11
  4. 所有脚本、所有路径，已默认设置为 D:\OS11 为映像来源。

##### [**语言包**](#_PREREQUISITES)

* 1. 学习“[将语言添加到 Windows 11 映像](https://learn.microsoft.com/en-us/azure/virtual-desktop/windows-11-language-packs)”
  2. 下载语言包：[22621.1.220506-1250.ni\_release\_amd64fre\_CLIENT\_LOF\_PACKAGES\_OEM.iso](https://software-static.download.prss.microsoft.com/dbazure/988969d5-f34g-4e03-ac9d-1f9786c66749/22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso)
  3. 任选一个网站并打开：
* <https://uupdump.net>
* <https://uup.ee>
  + 1. 打开后，搜索关键词：22621.382，在搜索结果选择：Windows 11, version 22H2 (22621.382) amd64
    2. 打开后，选择“全部文件”；
    3. 在“全部文件”页面里依次搜索绿色部分并下载：
       1. 适用于：Install.wim（ 1项 ）
          1. Media
       2. 适用于：WinRE.wim，暂无
       3. 适用于：Boot.wim，暂无
    4. 下载所有文件后，拉动到页面下方，下载并运行“生成重命名脚本（Windows）”；
  1. 使用ISO 编辑软件，编辑 22621.1.220506-1250.ni\_release\_amd64fre\_CLIENT\_LOF\_PACKAGES\_OEM.iso，将下载的文件添加到 [ISO]:\LanguagesAndOptionalFeatures 目录里；

##### InBox **Apps**

* 1. 下载：[22621.1778.230511-2102.ni\_release\_svc\_prod3\_amd64fre\_InboxApps.iso](https://software-static.download.prss.microsoft.com/dbazure/888969d5-f34g-4e03-ac9d-1f9786c66749/22621.1778.230511-2102.ni_release_svc_prod3_amd64fre_InboxApps.iso)
  2. 下载：[22621.1.220506-1250.ni\_release\_amd64fre\_InboxApps.iso](https://software-static.download.prss.microsoft.com/dbazure/988969d5-f34g-4e03-ac9d-1f9786c66749/22621.1.220506-1250.ni_release_amd64fre_InboxApps.iso) 后，提取以下文件后保存到桌面：
     1. Microsoft.HEVCVideoExtension\_8wekyb3d8bbwe.x64.appx
     2. Microsoft.HEVCVideoExtension\_8wekyb3d8bbwe.x64.xml
  3. 使用 ISO 编辑工具，编辑 22621.1778.230511-2102.ni\_release\_svc\_prod3\_amd64fre\_InboxApps.iso，将已提取文件添加到 [ISO]:\packages 目录里；

1. 运行 PS 命令行时：
2. 可选“Terminal ”或“PowerShell ISE”，未安装“Terminal”，请前往 <https://github.com/microsoft/terminal/releases> 后下载；
3. 以管理员身份打开“Terminal”或“PowerShell ISE”，设置 PowerShell 执行策略：绕过，PS 命令行：

Set-ExecutionPolicy -ExecutionPolicy Bypass -Force

1. 在本文中，绿色部分属于 PS 命令行，请复制后，粘贴到“Terminal”对话框，按回车键（Enter）后开始运行；
2. 有 .ps1 时，点击文件右键，选择以 PowerShell 运行，或复制路径，粘贴到“Terminal ”或“PowerShell ISE”里运行。

### **[语言包：提取](#_自定义部署映像)**

1. [准备语言包](#_语言包：提取)

挂载 22621.1.220506-1250.ni\_release\_amd64fre\_CLIENT\_LOF\_PACKAGES\_OEM.iso 或解压到任意位置；

1. [**执行提取命令**](#_语言包：提取)

* 提取语言：简体中文 - 中国
* 语言标记：zh-CN
* 提取语言包适用于范围：Install.Wim，Boot.Wim，WinRE.Wim
* Auto = 自动搜索本地所有磁盘，默认；
* 自定义路径，例如指定为 E 盘：$ISO = "E:\"

复制代码或查看源文件：Extract.ps1 ( [本地](Code/Extract.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Extract.ps1) )

$ISO = "Auto"

Function Extract\_Language

{

param

(

$Package,

$SaveTo,

$NewPath

)

New-Item -Path $SaveTo -ItemType Directory -ErrorAction SilentlyContinue | Out-Null

if ($NewPath -eq "Auto") {

Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {

ForEach ($item in $Language) {

$TempFilePath = Join-Path -Path $\_.Root -ChildPath $item -ErrorAction SilentlyContinue

if (Test-Path $TempFilePath -PathType Leaf) {

Write-host "`n Find: " -NoNewLine; Write-host $TempFilePath -ForegroundColor Green

Write-host " Copy to: " -NoNewLine; Write-host $SaveTo

Copy-Item -Path $TempFilePath -Destination $SaveTo -Force

}

}

}

} else {

ForEach ($item in $Language) {

$TempFilePath = Join-Path -Path $NewPath -ChildPath $item -ErrorAction SilentlyContinue

Write-host "`n Find: " -NoNewline; Write-host $TempFilePath -ForegroundColor Green

if (Test-Path $TempFilePath -PathType Leaf) {

Write-host " Copy to: " -NoNewLine; Write-host $SaveTo

Copy-Item -Path $TempFilePath -Destination $SaveTo -Force

} else {

Write-host " Not found"

}

}

}

Write-host "`n Verify the language pack file"

ForEach ($item in $Package) {

$Path = "$($SaveTo)\$([IO.Path]::GetFileName($item))"

if (Test-Path $Path -PathType Leaf) {

Write-host " Discover: " -NoNewLine

Write-host $Path -ForegroundColor Green

} else {

Write-host " Not found: " -NoNewLine

Write-host $Path -ForegroundColor Red

}

}

}

$Language = @(

"LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~AMD64~~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-Client-Language-Pack\_x64\_zh-CN.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Basic-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"

)

Extract\_Language -Package $Language -SaveTo "D:\OS11\_Custom\Install\Install\Language\zh-CN" -NewPath $ISO

$Language = @(

"Windows Preinstallation Environment\x64\WinPE\_OCs\WinPE-FontSupport-zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\lp.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-securestartup\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-atbroker\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-audiocore\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-audiodrivers\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-enhancedstorage\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-narrator\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-scripting\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-speech-tts\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-srh\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-srt\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-wds-tools\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-wmi\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-appxdeployment\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-appxpackaging\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-storagewmi\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-wifi\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-windowsupdate\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-rejuv\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-opcservices\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-hta\_zh-CN.cab"

)

Extract\_Language -Package $Language -SaveTo "D:\OS11\_Custom\Install\WinRE\Language\zh-CN" -NewPath $ISO

$Language = @(

"Windows Preinstallation Environment\x64\WinPE\_OCs\WinPE-FontSupport-zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\lp.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\WinPE-Setup\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\WINPE-SETUP-CLIENT\_zh-CN.CAB"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-securestartup\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-atbroker\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-audiocore\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-audiodrivers\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-enhancedstorage\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-narrator\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-scripting\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-speech-tts\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-srh\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-srt\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-wds-tools\_zh-CN.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\zh-CN\winpe-wmi\_zh-CN.cab"

)

Extract\_Language -Package $Language -SaveTo "D:\OS11\_Custom\Boot\Boot\Language\zh-CN" -NewPath $ISO

### [**自定义部署映像**](#_自定义部署映像)

#### **[自定义部署映像：Install.wim](#_3、安装语言包)**

##### [**查看 Install.wim 详细信息**](#_3.1__)

映像名称、映像描述、映像大小、架构、版本、索引号等；

$ViewFile = "D:\OS11\Sources\Install.wim"

Get-WindowsImage -ImagePath $ViewFile | Foreach-Object {

Get-WindowsImage -ImagePath $ViewFile -index $\_.ImageIndex

}

##### [**指定挂载 Install 路径**](#_3.1__)

New-Item -Path "D:\OS11\_Custom\Install\Install\Mount" -ItemType directory -ea SilentlyContinue

循环操作区域，开始，

1. [**开始挂载 Install.wim**](#_3.1__)

默认索引号：1

$Index = "1"

Mount-WindowsImage -ImagePath "D:\OS11\sources\install.wim" -Index $Index -Path "D:\OS11\_Custom\Install\Install\Mount"

处理 Install.wim 映像内的文件，可选项，开始，

###### **[自定义部署映像：WinRE.wim](#_3.1__)**

注意：

* WinRE.wim 属于 Install.wim 映像内的文件；
* Install.wim 有多个索引号时，仅处理任意一个 WinRE.wim 即可；
* 同步至所有索引号即可减少 Install.wim 体积；学习“[如何批量替换 Install.wim 里的所有索引号里的 WinRE.wim](#_如何批量替换_Install.wim_里的所有索引号里的)”
  + 1. [**查看 WinRE.wim 详细信息**](#_安装语言包到：WinRE.wim)

映像名称、映像描述、映像大小、架构、版本、索引号等；

$ViewFile = "D:\OS11\_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"

Get-WindowsImage -ImagePath $ViewFile | Foreach-Object {

Get-WindowsImage -ImagePath $ViewFile -index $\_.ImageIndex

}

* + 1. [**指定挂载 WinRE.wim 路径**](#_3.1.2.1__)

New-Item -Path "D:\OS11\_Custom\Install\WinRE\Mount" -ItemType directory -ea SilentlyContinue

* + 1. **开始挂载 WinRE.wim**

默认索引号：1

$Index = "1"

Mount-WindowsImage -ImagePath "D:\OS11\_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim" -Index $Index -Path "D:\OS11\_Custom\Install\WinRE\Mount"

* + 1. **[语言包](#_自定义部署映像：WinRE.wim)**

自动安装语言包：按组件匹配，匹配成功后，再安装本地对应的语言包文件。

* + - 1. [**语言包：添加**](#_执行安装命令后安装语言包到：WinRE)

复制代码或查看源文件：WinRE.Instl.lang.ps1 ( [本地](Code/Install/WinRE/WinRE.Instl.lang.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Install/WinRE/WinRE.Instl.lang.ps1) )

$Mount = "D:\OS11\_Custom\Install\WinRE\Mount"

$Sources = "D:\OS11\_Custom\Install\WinRE\Language\zh-CN"

$Initl\_install\_Language\_Component = @()

Get-WindowsPackage -Path $Mount | ForEach-Object {

$Initl\_install\_Language\_Component += $\_.PackageName

}

Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"

$Language\_List = @(

@{ Match = "\*WinPE-LanguagePack-Package\*"; File = "lp.cab"; }

@{ Match = "\*SecureStartup\*"; File = "winpe-securestartup\_zh-CN.cab"; }

@{ Match = "\*ATBroker\*"; File = "winpe-atbroker\_zh-CN.cab"; }

@{ Match = "\*AudioCore\*"; File = "winpe-audiocore\_zh-CN.cab"; }

@{ Match = "\*AudioDrivers\*"; File = "winpe-audiodrivers\_zh-CN.cab"; }

@{ Match = "\*EnhancedStorage\*"; File = "winpe-enhancedstorage\_zh-CN.cab"; }

@{ Match = "\*Narrator\*"; File = "winpe-narrator\_zh-CN.cab"; }

@{ Match = "\*scripting\*"; File = "winpe-scripting\_zh-CN.cab"; }

@{ Match = "\*Speech-TTS\*"; File = "winpe-speech-tts\_zh-CN.cab"; }

@{ Match = "\*srh\*"; File = "winpe-srh\_zh-CN.cab"; }

@{ Match = "\*srt\*"; File = "winpe-srt\_zh-CN.cab"; }

@{ Match = "\*wds-tools\*"; File = "winpe-wds-tools\_zh-CN.cab"; }

@{ Match = "\*-WMI-Package\*"; File = "winpe-wmi\_zh-CN.cab"; }

@{ Match = "\*WinPE-AppxPackaging\*"; File = "winpe-appxpackaging\_zh-CN.cab"; }

@{ Match = "\*StorageWMI\*"; File = "winpe-storagewmi\_zh-CN.cab"; }

@{ Match = "\*WiFi\*"; File = "winpe-wifi\_zh-CN.cab"; }

@{ Match = "\*rejuv\*"; File = "winpe-rejuv\_zh-CN.cab"; }

@{ Match = "\*opcservices\*"; File = "winpe-opcservices\_zh-CN.cab"; }

@{ Match = "\*hta\*"; File = "winpe-hta\_zh-CN.cab"; }

)

ForEach ($Rule in $Language\_List) {

Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' \* 80)"

ForEach ($Component in $Initl\_install\_Language\_Component) {

if ($Component -like "\*$($Rule.Match)\*") {

Write-host " Component name: " -NoNewline

Write-host $Component -ForegroundColor Green

Write-host " Language pack file: " -NoNewline

Write-host $Rule.File -ForegroundColor Green

Write-Host " Installing ".PadRight(22) -NoNewline

try {

Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}

break

}

}

}

* + - 1. **[组件](#_执行安装命令后安装语言包到：WinRE)**
         1. [**查看**](#_组件_2)

Get-WindowsPackage -Path "D:\OS11\_Custom\Install\WinRE\Mount" | Out-GridView

* + - * 1. [**导出到 Csv**](#_组件_2)

$SaveTo = "D:\OS11\_Custom\Install\WinRE\Report.$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS11\_Custom\Install\WinRE\Mount" | Export-CSV -NoType -Path $SaveTo

Write-host $SaveTo -ForegroundColor Green

* + 1. **[更新](#_3.1.2.1__)**[，可选](#_3.1.2.1__)
    2. **[驱动](#_3.1.2.1__)**[，可选](#_3.1.2.1__)
    3. **[保存映像](#_3.1.2.1__)**

Save-WindowsImage -Path "D:\OS11\_Custom\Install\WinRE\Mount"

* + 1. [**卸载映像**](#_3.1.2.1__)

Dismount-WindowsImage -Path "D:\OS11\_Custom\Install\WinRE\Mount" -Discard

* + 1. [**重建 WinRE.wim 后，可缩小文件大小**](#_3.1.2.1__)

复制代码或查看源文件：WinRE.Rebuild.ps1 ( [本地](Code/Install/WinRE/WinRE.Rebuild.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Install/WinRE/WinRE.Rebuild.ps1) )

$FileName = "D:\OS11\_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"

Get-WindowsImage -ImagePath $Filename -ErrorAction SilentlyContinue | ForEach-Object {

Write-Host " Image name: " -NoNewline

Write-Host $\_.ImageName -ForegroundColor Yellow

Write-Host " The index number: " -NoNewline

Write-Host $\_.ImageIndex -ForegroundColor Yellow

Write-Host "`n Rebuild".PadRight(28) -NoNewline

Export-WindowsImage -SourceImagePath $Filename -SourceIndex $\_.ImageIndex -DestinationImagePath "$($FileName).New" -CompressionType max

Write-Host "Finish`n" -ForegroundColor Green

}

if (Test-Path "$($FileName).New" -PathType Leaf) {

Remove-Item -Path $Filename

Move-Item -Path "$($FileName).New" -Destination $Filename

Write-Host "Finish" -ForegroundColor Green

} else {

Write-host "Failed" -ForegroundColor Red

}

* + 1. [**备份 WinRE.wim**](#_3.1.2.1__)

复制代码或查看源文件：WinRE.Backup.ps1 ( [本地](Code/Install/WinRE/WinRE.Backup.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Install/WinRE/WinRE.Backup.ps1) )

$WimLibPath = "D:\OS11\_Custom\Install\Install\Update\Winlib"

$FileName = "D:\OS11\_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"

New-Item -Path $WimLibPath -ItemType Directory -ea SilentlyContinue

Copy-Item -Path $FileName -Destination $WimLibPath -Force

* + 1. [**替换 Install.wim 映像内的 WinRE.wim**](#_3.1.2.1__)
* 每次挂载 Install.wim 后“[替换 WinRE.wim](#_替换_WinRE.wim)”；
* 学习“[获取 Install.wim 所有索引号后并替换旧的 WinRE.wim](#_获取_Install.wim_所有索引号后并替换旧的)”。

处理 Install.wim 映像内的文件，结束。

##### **[语言包](#_自定义部署映像：Install.wim)**

自动安装语言包：按组件匹配，匹配成功后，再安装本地对应的语言包文件。

###### **[语言包：添加](#_执行安装命令后安装语言包到：Install.wim)**

复制代码或查看源文件：Install.Instl.lang.ps1 ( [本地](Code/Install/Install.Instl.lang.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Install/Install.Instl.lang.ps1) )

$Mount = "D:\OS11\_Custom\Install\Install\Mount"

$Sources = "D:\OS11\_Custom\Install\Install\Language\zh-CN"

$Initl\_install\_Language\_Component = @()

Get-WindowsPackage -Path $Mount | ForEach-Object {

$Initl\_install\_Language\_Component += $\_.PackageName

}

Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~.cab"

$Language\_List = @(

@{ Match = "\*Client-LanguagePack-Package\*"; File = "Microsoft-Windows-Client-Language-Pack\_x64\_zh-CN.cab"; }

@{ Match = "\*LanguageFeatures-Basic\*"; File = "Microsoft-Windows-LanguageFeatures-Basic-zh-CN-Package~31bf3856ad364e35~amd64~~.cab"; }

@{ Match = "\*Handwriting\*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~amd64~~.cab"; }

@{ Match = "\*OCR\*"; File = "Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~amd64~~.cab"; }

@{ Match = "\*LanguageFeatures-Speech\*"; File = "Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~amd64~~.cab"; }

@{ Match = "\*TextToSpeech\*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~amd64~~.cab"; }

@{ Match = "\*InternetExplorer\*"; File = "Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }

@{ Match = "\*Notepad\*amd64\*"; File = "Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }

@{ Match = "\*Notepad\*wow64\*"; File = "Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }

@{ Match = "\*MediaPlayer\*amd64\*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab"; }

@{ Match = "\*MediaPlayer\*wow64\*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab"; }

@{ Match = "\*PowerShell\*amd64\*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~.cab"; }

@{ Match = "\*PowerShell\*wow64\*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }

@{ Match = "\*Printing\*PMCPPC\*amd64\*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }

@{ Match = "\*StepsRecorder\*amd64\*"; File = "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~.cab"; }

@{ Match = "\*StepsRecorder\*wow64\*"; File = "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }

@{ Match = "\*WMIC\*FoD\*Package\*amd64\*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }

@{ Match = "\*WMIC\*FoD\*Package\*wow64\*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }

@{ Match = "\*WordPad\*amd64\*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab"; }

@{ Match = "\*WordPad\*wow64\*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }

)

ForEach ($Rule in $Language\_List) {

Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' \* 80)"

ForEach ($Component in $Initl\_install\_Language\_Component) {

if ($Component -like "\*$($Rule.Match)\*") {

Write-host " Component name: " -NoNewline

Write-host $Component -ForegroundColor Green

Write-host " Language pack file: " -NoNewline

Write-host $Rule.File -ForegroundColor Green

Write-Host " Installing ".PadRight(22) -NoNewline

try {

Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}

break

}

}

}

###### **[组件](#_语言包)**

* + 1. [**查看**](#_组件_1)

Get-WindowsPackage -Path "D:\OS11\_Custom\Install\Install\Mount" | Out-GridView

* + 1. [**导出到 Csv**](#_组件_1)

$SaveTo = "D:\OS11\_Custom\Install\Install\Report.$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS11\_Custom\Install\Install\Mount" | Export-CSV -NoType -Path $SaveTo

Write-host $SaveTo -ForegroundColor Green

##### **[InBox Apps](#_3.1__)**

###### [**学习“附件：inBox Apps”**](#_InBox_Apps)

了解不同的操作系统预安装应用，应用商店连接。

###### **[InBox Apps：已安装](#_InBox_Apps)**

* + 1. [**查看**](#_InBox_Apps：已安装)

Get-AppXProvisionedPackage -Path "D:\OS11\_Custom\Install\Install\Mount" | Out-GridView

* + 1. [**导出到 Csv**](#_InBox_Apps：已安装)

$SaveTo = "D:\OS11\_Custom\Install\Install\Report.$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-AppXProvisionedPackage -Path "D:\OS11\_Custom\Install\Install\Mount" | Export-CSV -NoType -Path $SaveTo

Write-host $SaveTo -ForegroundColor Green

###### [**删除已安装的所有预应用程序**](#_InBox_Apps)

复制代码或查看源文件：Install.InBox.Appx.Clear.all.ps1 ( [本地](Code/Install/Install.InBox.Appx.Clear.all.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Install/Install.InBox.Appx.Clear.all.ps1) )

Get-AppXProvisionedPackage -path "D:\OS11\_Custom\Install\Install\Mount" -ErrorAction SilentlyContinue | ForEach-Object {

Write-host "`n $($\_.DisplayName)"

Write-Host " Deleting ".PadRight(22) -NoNewline

try {

Remove-AppxProvisionedPackage -Path "D:\OS11\_Custom\Install\Install\Mount" -PackageName $\_.PackageName -ErrorAction SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}

}

###### [**语言标记：了解**](#_InBox_Apps)

了解语言标记前，先了解 ZuneMusic 应用程序可用的语言列表：en-us, en-gb, as-in, az-latn-az, bs-latn-ba, bn-in, cs-cz, cy-gb, ar-sa, de-de, af-za, am-et, da-dk, el-gr, es-es, es-mx, ca-es, ca-es-valencia, eu-es, fi-fi, bg-bg, ga-ie, et-ee, gl-es, gu-in, gd-gb, fil-ph, fr-ca, fr-fr, hy-am, fa-ir, hu-hu, id-id, it-it, ja-jp, hr-hr, ka-ge, is-is, he-il, hi-in, kk-kz, lo-la, km-kh, lt-lt, kn-in, kok-in, ko-kr, mk-mk, lv-lv, ms-my, mi-nz, mr-in, mt-mt, ne-np, nl-nl, nb-no, ml-in, nn-no, lb-lu, or-in, ro-ro, sk-sk, ru-ru, pl-pl, quz-pe, pt-br, pt-pt, sq-al, ta-in, th-th, sv-se, pa-in, sr-cyrl-ba, sr-cyrl-rs, sr-latn-rs, ur-pk, ug-cn, tr-tr, uk-ua, tt-ru, zh-cn, vi-vn, uz-latn-uz, sl-si, zh-tw, te-in

**查看脱机映像已安装的语言**

Dism /Image:"D:\OS11\_Custom\Install\Install\Mount" /Get-Intl

查看结果已安装的语言：en-US、zh-CN，在安装 ZuneMusic 应用时，安装程序会匹配“已安装的语言”，自动过滤未安装的语言列表，这就是语言标记。

###### [**语言标记：添加方式**](#_InBox_Apps)

* + 1. 执行“[语言包：添加](#_语言包：添加)”
    2. 安装“本地语言体验包（LXPs）”

微软官方向 Windows 10 提供了本地语言体验包（LXPS）安装文件，Windows 11 不再提供，要想获取离线安装包：

* + - 1. **使用“Windows 本地语言体验包（LXPs）下载器”下载**

了解：<https://github.com/ilikeyi/LXPs>

下载后保存到：D:\OS11\_Custom\Install\Install\InBox.Appx，文件格式：LanguageExperiencePack.zh-CN.Neutral.Appx

* + - 1. **手动下载**
         1. **查看“附件：LXPs”**

等待下载“简体中文 - 中国”的本地语言体验包（LXPs），语言标记：zh-CN，应用程序 ID：9NRMNT6GMZ70，网站连接：https://www.microsoft.com/store/productId/9NRMNT6GMZ70

* + - * 1. **打开网站：**[**https://store.rg-adguard.net**](https://store.rg-adguard.net)

搜索关键词：

https://www.microsoft.com/store/productId/9NRMNT6GMZ70

网页内搜索 22621 内容，搜索结果：Microsoft.LanguageExperiencePackzh-CN\_22621.\*. neutral\_\_8wekyb3d8bbwe.appx

下载后保存到 D:\OS11\_Custom\Install\Install\InBox.Appx 目录里，重命名：LanguageExperiencePack.zh-cn.Neutral.Appx

* + - 1. **执行安装命令安装本地语言体验包（LXPs）**

了解语言标记添加方式后，获得 LanguageExperiencePack.zh-cn.Neutral 后，执行安装命令：

Add-AppxProvisionedPackage -Path "D:\OS11\_Custom\Install\Install\Mount" -PackagePath "D:\OS11\_Custom\Install\Install\InBox.appx\LanguageExperiencePack.zh-cn.Neutral.appx" -SkipLicense

* + - 1. **InBox Apps：已安装的应用程序包**
         1. 查看

Get-AppXProvisionedPackage -Path "D:\OS11\_Custom\Install\Install\Mount" | Out-GridView

* + - * 1. 导到出 Csv

$SaveTo = "D:\OS11\_Custom\Install\Install\Report.$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-AppXProvisionedPackage -Path "D:\OS11\_Custom\Install\Install\Mount" | Export-CSV -NoType -Path $SaveTo

Write-host $SaveTo -ForegroundColor Green

###### [**InBox Apps：安装**](#_InBox_Apps)

* + 1. [**挂载或解压 InBox** **Apps 安装文件**](#_InBox_Apps：安装)

挂载 22621.1.220506-1250.ni\_release\_amd64fre\_InboxApps.iso 或解压到任意位置；

* + 1. **[执行安装命令后安装 InBox Apps 到：Install.wim](#_InBox_Apps：安装)**
       - Auto = 自动搜索本地所有磁盘，默认；
       - 自定义路径，例如指定为 F 盘：$ISO = "F:\packages"

复制代码或查看源文件：Install.Inst.InBox.Appx.ps1 ( [本地](Code/Install/Install.Inst.InBox.Appx.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Install/Install.Inst.InBox.Appx.ps1) )

$ISO = "Auto"

$Mount = "D:\OS11\_Custom\Install\Install\Mount"

try {

Write-host "`n Offline image version: " -NoNewline

$Current\_Edition\_Version = (Get-WindowsEdition -Path $Mount).Edition

Write-Host $Current\_Edition\_Version -ForegroundColor Green

} catch {

Write-Host "Error" -ForegroundColor Red

Write-Host " $($\_)" -ForegroundColor Yellow

return

}

$Pre\_Config\_Rules = @(

@{

Name = @(

"Core"; "CoreN"; "CoreSingleLanguage";

)

Apps = @(

"Microsoft.UI.Xaml.2.3"; "Microsoft.UI.Xaml.2.4"; "Microsoft.UI.Xaml.2.7"; "Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00"; "Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.HEIFImageExtension"; "Microsoft.HEVCVideoExtension"; "Microsoft.SecHealthUI"; "Microsoft.VP9VideoExtensions"; "Microsoft.WebpImageExtension"; "Microsoft.WindowsStore"; "Microsoft.GamingApp"; "Microsoft.Sticky.Notes"; "Microsoft.Paint"; "Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad"; "Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.Solitaire.Collection"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps"; "Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.BingWeather"; "Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos"; "Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator"; "Microsoft.Windows.CommunicationsApps"; "Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI"; "Microsoft.XboxGameOverlay"; "Microsoft.XboxGamingOverlay"; "Microsoft.XboxIdentityProvider"; "Microsoft.XboxSpeechToTextOverlay";

"Microsoft.YourPhone"; "Microsoft.ZuneVideo"; "MicrosoftCorporationII.QuickAssist"; "MicrosoftWindows.Client.WebExperience"; "Microsoft.RawImageExtension"; "MicrosoftCorporationII.MicrosoftFamily";

)

}

@{

Name = @(

"Education"; "Professional"; "ProfessionalEducation"; "ProfessionalWorkstation"; "Enterprise"; "IoTEnterprise"; "ServerRdsh";

)

Apps = @(

"Microsoft.UI.Xaml.2.3"; "Microsoft.UI.Xaml.2.4"; "Microsoft.UI.Xaml.2.7"; "Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00"; "Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.HEIFImageExtension"; "Microsoft.HEVCVideoExtension"; "Microsoft.SecHealthUI"; "Microsoft.VP9VideoExtensions"; "Microsoft.WebpImageExtension"; "Microsoft.WindowsStore"; "Microsoft.GamingApp"; "Microsoft.Sticky.Notes"; "Microsoft.Paint"; "Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad"; "Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.Solitaire.Collection"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps"; "Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.BingWeather"; "Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos"; "Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator"; "Microsoft.Windows.CommunicationsApps"; "Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI"; "Microsoft.XboxGameOverlay"; "Microsoft.XboxGamingOverlay"; "Microsoft.XboxIdentityProvider"; "Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "Microsoft.ZuneVideo"; "MicrosoftCorporationII.QuickAssist"; "MicrosoftWindows.Client.WebExperience"; "Microsoft.RawImageExtension";

)

}

@{

Name = @(

"EnterpriseN"; "EnterpriseGN"; "EnterpriseSN"; "ProfessionalN"; "EducationN"; "ProfessionalWorkstationN"; "ProfessionalEducationN"; "CloudN"; "CloudEN"; "CloudEditionN"; "CloudEditionLN"; "StarterN";

)

Apps = @(

"Microsoft.UI.Xaml.2.3"; "Microsoft.UI.Xaml.2.4"; "Microsoft.UI.Xaml.2.7"; "Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00"; "Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.SecHealthUI"; "Microsoft.WindowsStore"; "Microsoft.Sticky.Notes"; "Microsoft.Paint"; "Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad"; "Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.Solitaire.Collection"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps"; "Microsoft.BingNews"; "Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.BingWeather"; "Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator"; "Microsoft.Windows.CommunicationsApps"; "Microsoft.XboxGameOverlay"; "Microsoft.XboxIdentityProvider"; "Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "MicrosoftCorporationII.QuickAssist"; "MicrosoftWindows.Client.WebExperience";

)

}

)

$Allow\_Install\_App = @()

ForEach ($item in $Pre\_Config\_Rules) {

if ($item.Name -contains $Current\_Edition\_Version) {

Write-host "`n Match to: "-NoNewline

Write-host $Current\_Edition\_Version -ForegroundColor Green

$Allow\_Install\_App = $item.Apps

break

}

}

Write-host "`n The app to install ( $($Allow\_Install\_App.Count) item )" -ForegroundColor Yellow

Write-host " $('-' \* 80)"

ForEach ($item in $Allow\_Install\_App) {

Write-host " $($item)" -ForegroundColor Green

}

$InBoxApps = @(

@{ Name = "Microsoft.UI.Xaml.2.3"; File = "Microsoft.UI.Xaml.x64.2.3.appx"; License = ""; }

@{ Name = "Microsoft.UI.Xaml.2.4"; File = "Microsoft.UI.Xaml.x64.2.4.appx"; License = ""; }

@{ Name = "Microsoft.UI.Xaml.2.7"; File = "Microsoft.UI.Xaml.x64.2.7.appx"; License = ""; }

@{ Name = "Microsoft.NET.Native.Framework.2.2"; File = "Microsoft.NET.Native.Framework.x64.2.2.appx"; License = ""; }

@{ Name = "Microsoft.NET.Native.Runtime.2.2"; File = "Microsoft.NET.Native.Runtime.x64.2.2.appx"; License = ""; }

@{ Name = "Microsoft.VCLibs.140.00"; File = "Microsoft.VCLibs.x64.14.00.appx"; License = ""; }

@{ Name = "Microsoft.VCLibs.140.00.UWPDesktop"; File = "Microsoft.VCLibs.x64.14.00.UWPDesktop.appx"; License = ""; }

@{ Name = "Microsoft.WindowsStore"; File = "Microsoft.WindowsStore\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.WindowsStore\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.HEIFImageExtension"; File = "Microsoft.HEIFImageExtension\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.HEIFImageExtension\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.HEVCVideoExtension"; File = "Microsoft.HEVCVideoExtension\_8wekyb3d8bbwe.x64.appx"; License = "Microsoft.HEVCVideoExtension\_8wekyb3d8bbwe.x64.xml"; }

@{ Name = "Microsoft.SecHealthUI"; File = "Microsoft.SecHealthUI\_8wekyb3d8bbwe.x64.appx"; License = "Microsoft.SecHealthUI\_8wekyb3d8bbwe.x64.xml"; }

@{ Name = "Microsoft.VP9VideoExtensions"; File = "Microsoft.VP9VideoExtensions\_8wekyb3d8bbwe.x64.appx"; License = "Microsoft.VP9VideoExtensions\_8wekyb3d8bbwe.x64.xml"; }

@{ Name = "Microsoft.WebpImageExtension"; File = "Microsoft.WebpImageExtension\_8wekyb3d8bbwe.x64.appx"; License = "Microsoft.WebpImageExtension\_8wekyb3d8bbwe.x64.xml"; }

@{ Name = "Microsoft.GamingApp"; File = "Microsoft.GamingApp\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.GamingApp\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.Sticky.Notes"; File = "Microsoft.MicrosoftStickyNotes\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.MicrosoftStickyNotes\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.Paint"; File = "Microsoft.Paint\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.Paint\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.PowerAutomateDesktop"; File = "Microsoft.PowerAutomateDesktop\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.PowerAutomateDesktop\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.ScreenSketch"; File = "Microsoft.ScreenSketch\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.ScreenSketch\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.WindowsNotepad"; File = "Microsoft.WindowsNotepad\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.WindowsNotepad\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.WindowsTerminal"; File = "Microsoft.WindowsTerminal\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.WindowsTerminal\_8wekyb3d8bbwe.xml"; }

@{ Name = "Clipchamp.Clipchamp"; File = "Clipchamp.Clipchamp\_yxz26nhyzhsrt.msixbundle"; License = "Clipchamp.Clipchamp\_yxz26nhyzhsrt.xml"; }

@{ Name = "Microsoft.Solitaire.Collection"; File = "Microsoft.MicrosoftSolitaireCollection\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.MicrosoftSolitaireCollection\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.WindowsAlarms"; File = "Microsoft.WindowsAlarms\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.WindowsAlarms\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.WindowsFeedbackHub"; File = "Microsoft.WindowsFeedbackHub\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.WindowsFeedbackHub\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.WindowsMaps"; File = "Microsoft.WindowsMaps\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.WindowsMaps\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.ZuneMusic"; File = "Microsoft.ZuneMusic\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.ZuneMusic\_8wekyb3d8bbwe.xml"; }

@{ Name = "MicrosoftCorporationII.MicrosoftFamily"; File = "MicrosoftCorporationII.MicrosoftFamily\_8wekyb3d8bbwe.msixbundle"; License = "MicrosoftCorporationII.MicrosoftFamily\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.BingNews"; File = "Microsoft.BingNews\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.BingNews\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.DesktopAppInstaller"; File = "Microsoft.DesktopAppInstaller\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.DesktopAppInstaller\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.WindowsCamera"; File = "Microsoft.WindowsCamera\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.WindowsCamera\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.Getstarted"; File = "Microsoft.Getstarted\_8wekyb3d8bbwe.msixbundle"; License = "Microsoft.Getstarted\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.Cortana"; File = "Microsoft.CortanaApp\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.CortanaApp\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.BingWeather"; File = "Microsoft.BingWeather\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.BingWeather\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.GetHelp"; File = "Microsoft.GetHelp\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.GetHelp\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.MicrosoftOfficeHub"; File = "Microsoft.MicrosoftOfficeHub\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.MicrosoftOfficeHub\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.People"; File = "Microsoft.People\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.People\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.StorePurchaseApp"; File = "Microsoft.StorePurchaseApp\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.StorePurchaseApp\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.Todos"; File = "Microsoft.Todos\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.Todos\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.WebMediaExtensions"; File = "Microsoft.WebMediaExtensions\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.WebMediaExtensions\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.Windows.Photos"; File = "Microsoft.Windows.Photos\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.Windows.Photos\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.WindowsCalculator"; File = "Microsoft.WindowsCalculator\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.WindowsCalculator\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.Windows.CommunicationsApps"; File = "Microsoft.WindowsCommunicationsApps\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.WindowsCommunicationsApps\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.WindowsSoundRecorder"; File = "Microsoft.WindowsSoundRecorder\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.WindowsSoundRecorder\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.Xbox.TCUI"; File = "Microsoft.Xbox.TCUI\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.Xbox.TCUI\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.XboxGameOverlay"; File = "Microsoft.XboxGameOverlay\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.XboxGameOverlay\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.XboxGamingOverlay"; File = "Microsoft.XboxGamingOverlay\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.XboxGamingOverlay\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.XboxIdentityProvider"; File = "Microsoft.XboxIdentityProvider\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.XboxIdentityProvider\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.XboxSpeechToTextOverlay"; File = "Microsoft.XboxSpeechToTextOverlay\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.XboxSpeechToTextOverlay\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.YourPhone"; File = "Microsoft.YourPhone\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.YourPhone\_8wekyb3d8bbwe.xml"; }

@{ Name = "Microsoft.ZuneVideo"; File = "Microsoft.ZuneVideo\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.ZuneVideo\_8wekyb3d8bbwe.xml"; }

@{ Name = "MicrosoftCorporationII.QuickAssist"; File = "MicrosoftCorporationII.QuickAssist\_8wekyb3d8bbwe.appxbundle"; License = "MicrosoftCorporationII.QuickAssist\_8wekyb3d8bbwe.xml"; }

@{ Name = "MicrosoftWindows.Client.WebExperience"; File = "MicrosoftWindows.Client.WebExperience\_cw5n1h2txyewy.appxbundle"; License = "MicrosoftWindows.Client.WebExperience\_cw5n1h2txyewy.xml"; }

@{ Name = "Microsoft.RawImageExtension"; File = "Microsoft.RawImageExtension\_8wekyb3d8bbwe.appxbundle"; License = "Microsoft.RawImageExtension\_8wekyb3d8bbwe.xml"; }

)

Function Install\_Appx

{

param

(

$File,

$License

)

Write-host " $('-' \* 80)"

Write-host " Installing: " -NoNewline

Write-host $File -ForegroundColor Yellow

if (Test-Path -Path $File -PathType Leaf) {

if (Test-Path -Path $License -PathType Leaf) {

Write-host " License: " -NoNewline

Write-host $License -ForegroundColor Yellow

Write-host " With License".PadRight(22) -NoNewline -ForegroundColor Green

Write-host " Installing".PadRight(22) -NoNewline

try {

Add-AppxProvisionedPackage -Path $Mount -PackagePath $File -LicensePath $License -ErrorAction SilentlyContinue | Out-Null

Write-Host "Done" -ForegroundColor Green

} catch {

Write-Host "Failed" -ForegroundColor Red

Write-Host " $($\_)" -ForegroundColor Yellow

}

} else {

Write-host " No License".PadRight(22) -NoNewline -ForegroundColor Red

Write-host " Installing".PadRight(22) -NoNewline

try {

Add-AppxProvisionedPackage -Path $Mount -PackagePath $File -SkipLicense -ErrorAction SilentlyContinue | Out-Null

Write-Host "Done" -ForegroundColor Green

} catch {

Write-Host "Failed" -ForegroundColor Red

Write-Host " $($\_)" -ForegroundColor Yellow

}

}

} else {

Write-host " The installation package does not exist" -ForegroundColor Red

}

}

ForEach ($Rule in $InBoxApps) {

Write-host "`n Name: " -NoNewline

Write-host $Rule.Name -ForegroundColor Yellow

Write-host " $('-' \* 80)"

if($Allow\_Install\_App -contains $Rule.Name) {

Write-host " Search for apps: " -NoNewline

Write-host $Rule.File -ForegroundColor Yellow

Write-host " Search for License: " -NoNewline

Write-host $Rule.File -ForegroundColor Yellow

if ($ISO -eq "Auto") {

Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {

$AppPath = Join-Path -Path $\_.Root -ChildPath "packages\$($Rule.File)" -ErrorAction SilentlyContinue

$LicensePath = Join-Path -Path $\_.Root -ChildPath "packages\$($Rule.License)" -ErrorAction SilentlyContinue

if (Test-Path $AppPath -PathType Leaf) {

Write-host " $('-' \* 80)"

Write-host " Discover apps: " -NoNewLine

Write-host $AppPath -ForegroundColor Green

if (Test-Path $LicensePath -PathType Leaf) {

Write-host " Discover License: " -NoNewLine

Write-host $LicensePath -ForegroundColor Green

} else {

Write-host " License: " -NoNewLine

Write-host "Not found" -ForegroundColor Red

}

Install\_Appx -File $AppPath -License $LicensePath

return

}

}

} else {

Install\_Appx -File "$($ISO)\$($Rule.File)" -License "$($ISO)\$($Rule.License)"

}

} else {

Write-host " Skip the installation" -ForegroundColor Red

}

}

* 1. [**语言标记：删除**](#_InBox_Apps)

完成安装 InBox Apps 应用后，语言标记已不再重要，可删除或不删除，删除“本地语言体验包（LXPs），简体中文 - 中国）”，唯一识别语言标记：zh-CN，可更改为其它语言标记。

复制代码或查看源文件：Install.Clear.Flag.ps1 ( [本地](Code/Install/Install.Clear.Flag.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Install/Install.Clear.Flag.ps1) )

$Lang = "zh-CN"

Get-AppXProvisionedPackage -Path "D:\OS11\_Custom\Install\Install\Mount" | Foreach-object {

if ($\_.DisplayName -Like "\*LanguageExperiencePack\*$($Lang)\*") {

Write-host " $($\_.DisplayName)"

Write-Host " 删除中".PadRight(22) -NoNewline

try {

Remove-AppxProvisionedPackage -Path "D:\OS11\_Custom\Install\Install\Mount" -PackageName $\_.PackageName -ErrorAction SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}

}

}

###### [**InBox Apps：优化**](#_InBox_Apps)

在安装应用后，应优化预配 Appx 包，通过用硬链接替换相同的文件来减少应用的磁盘使用量，仅针对脱机映像。

Dism /Image:"D:\OS11\_Custom\Install\Install\Mount" /Optimize-ProvisionedAppxPackages

##### **[更新](#_3.1__)**

推荐你下载最新版，提供初始版本的累积更新，解决同一版本号重新安装后刷新“组件”状态。

###### **[初始版本](#_更新)**

* + 1. [**如何下载**](#_初始版本)

累积更新 KB5016632 已无法从 <https://www.catalog.update.microsoft.com/Search.aspx?q=KB5016632> 里搜索到，其它下载方法，任选一个网站并打开：

* <https://uupdump.net>
* <https://uup.ee>
  + - 1. 打开后，搜索关键词：22621.382，在搜索结果选择：Windows 11, version 22H2 (22621.382) amd64
      2. 打开后，选择“全部文件”；
      3. 在“全部文件”页面里搜索：KB5016632，下载：
* Windows11.0-KB5016632-x64.cab
* Windows11.0-KB5016632-x64.psf
  + - 1. 合并累积更新
         1. 前往 <https://github.com/abbodi1406/WHD/tree/master/scripts> 后下载[PSFX\_Repack\_6.zip](https://github.com/abbodi1406/WHD/raw/master/scripts/PSFX_Repack_6.zip)
         2. 下载后解压到：D:\PSFX\_Repack\_6
         3. 复制 Windows11.0-KB5016632-x64.cab、Windows11.0-KB5016632-x64.psf 到：D:\PSFX\_Repack\_6
         4. 运行：psfx2cab\_GUI.cmd 后，将得到一个新的文件：

**Windows11.0-KB5016632-x64-full\_psfx.cab**

* + - * 1. 将 Windows11.0-KB5016632-x64-full\_psfx.cab 保存到：

D:\OS11\_Custom\Install\Install\Update\Windows11.0-KB5016632-x64-full\_psfx.cab

* + 1. [**添加**](#_初始版本)

$KBPath = "D:\OS11\_Custom\Install\Install\Update\Windows11.0-KB5016632-x64-full\_psfx.cab"

Add-WindowsPackage -Path "D:\OS11\_Custom\Install\Install\Mount" -PackagePath $KBPath

###### **[其它版本](#_更新)**

* + 1. [**如何下载**](#_其它版本)

查阅“[Windows 11 版本信息](https://learn.microsoft.com/en-us/windows/release-health/windows11-release-information)”，例如下载累积更新：KB5030219，前往下载页面：<https://www.catalog.update.microsoft.com/Search.aspx?q=KB5030219> 或 "[直连下载](https://catalog.sf.dl.delivery.mp.microsoft.com/filestreamingservice/files/b82b3f6d-17e2-46d5-998a-893deb622e0a/public/windows11.0-kb5030219-x64_659d407821da654d564a3108bf493594bd143ab1.msu)"，保存到：

D:\OS11\_Custom\Install\Install\Update\windoOS11.0-kb5030219-x64\_659d407821da654d564a3108bf493594bd143ab1.msu

* + 1. **[添加](#_其它版本)**

$KBPath = "D:\OS11\_Custom\Install\Install\Update\windoOS11.0-kb5030219-x64\_659d407821da654d564a3108bf493594bd143ab1.msu"

Add-WindowsPackage -Path "D:\OS11\_Custom\Install\Install\Mount" -PackagePath $KBPath

###### **[固化更新，可选项](#_更新)**

Dism /Image:"D:\OS11\_Custom\Install\Install\Mount" /cleanup-image /StartComponentCleanup

* + 1. [**固化更新后清理组件，可选项**](#_固化更新，可选项)

$Mount = "D:\OS11\_Custom\Install\Install\Mount"

Get-WindowsPackage -Path $Mount -ErrorAction SilentlyContinue | ForEach-Object {

if ($\_.PackageState -eq "Superseded") {

Write-Host " $($\_.PackageName)" -ForegroundColor Green

Remove-WindowsPackage -Path $Mount -PackageName $\_.PackageName | Out-Null

}

}

##### [**驱动**，可选](#_3.1__)

##### [**健康**](#_3.1__)

保存前应检查是否损坏，健康状态异常时，中止保存

Repair-WindowsImage -Path "D:\OS11\_Custom\Install\Install\Mount" -ScanHealth

##### **[替换 WinRE.wim](#_3.1__)**

已批量替换 Install.wim 里的所有索引号里的 WinRE.wim 请跳过该步骤。

$WinRE = "D:\OS11\_Custom\Install\Install\Update\Winlib\WinRE.wim"

$CopyTo = "D:\OS11\_Custom\Install\Install\Mount\Windows\System32\Recovery"

Copy-Item -Path $WinRE -Destination $CopyTo -Force

##### [**保存映像**](#_3.1__)

Save-WindowsImage -Path "D:\OS11\_Custom\Install\Install\Mount"

##### [**卸载映像**](#_3.1__)

Dismount-WindowsImage -Path "D:\OS11\_Custom\Install\Install\Mount" -Discard

循环操作区域，结束。

##### **[如何批量替换 Install.wim 里的所有索引号里的 WinRE.wim](#_3.1__)**

###### [**获取WimLib**](#_如何批量替换_Install.wim_里的所有索引号里的)

前往 <https://wimlib.net> 官方网站后，选择不同的版本：[arm64](https://wimlib.net/downloads/wimlib-1.14.3-windows-aarch64-bin.zip), [x64](https://wimlib.net/downloads/wimlib-1.14.3-windows-aarch64-bin.zip), [x86](https://wimlib.net/downloads/wimlib-1.14.3-windows-i686-bin.zip)，下载完成后解压到：D:\Wimlib

###### **[如何在 Install.wim 里提取和更新 WinRE.wim](#_如何批量替换_Install.wim_里的所有索引号里的)**

* + 1. [**从 Install.wim 里提取 WinRE.wim 文件Install.wim**](#_如何在_Install.wim_里提取和更新)

复制代码或查看源文件：Install.WinRE.Replace.wim.ps1 ( [本地](Code/Install/Install.WinRE.Replace.wim.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Install/Install.WinRE.Replace.wim.ps1) )

$Arguments = @(

"extract",

"D:\OS11\sources\install.wim", "1",

"\Windows\System32\Recovery\Winre.wim",

"--dest-dir=""D:\OS11\_Custom\Install\Install\Update\Winlib"""

)

New-Item -Path "D:\OS11\_Custom\Install\Install\Update\Winlib" -ItemType Directory -ea SilentlyContinue

Start-Process -FilePath "d:\wimlib\wimlib-imagex.exe" -ArgumentList $Arguments -wait -nonewwindow

* + 1. **[获取 Install.wim 所有索引号后并替换旧的 WinRE.wim](#_如何在_Install.wim_里提取和更新)**

复制代码或查看源文件：Install.WinRE.Replace.wim.ps1 ( [本地](Code/Install/Install.WinRE.Replace.wim.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Install/Install.WinRE.Replace.wim.ps1) )

Get-WindowsImage -ImagePath "D:\OS11\sources\install.wim" -ErrorAction SilentlyContinue | ForEach-Object {

Write-Host " Image name: " -NoNewline

Write-Host $\_.ImageName -ForegroundColor Yellow

Write-Host " The index number: " -NoNewline

Write-Host $\_.ImageIndex -ForegroundColor Yellow

Write-Host "`n Replacement "

$Arguments = @(

"update",

"D:\OS11\sources\install.wim", $\_.ImageIndex,

"--command=""add 'D:\OS11\_Custom\Install\Install\Update\Winlib\WinRE.wim' '\Windows\System32\Recovery\WinRe.wim'"""

)

Start-Process -FilePath "d:\wimlib\wimlib-imagex.exe" -ArgumentList $Arguments -wait -nonewwindow

Write-Host " Finish`n" -ForegroundColor Green

}

##### **[重建 Install.wim 后可缩小文件大小](#_3.1__)**

复制代码或查看源文件：Install.Rebuild.wim.ps1 ( [本地](Code/Install/Install.Rebuild.wim.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Install/Install.Rebuild.wim.ps1) )

$InstallWim = "D:\OS11\sources\install.wim"

Get-WindowsImage -ImagePath $InstallWim -ErrorAction SilentlyContinue | ForEach-Object {

Write-Host " Image name: " -NoNewline

Write-Host $\_.ImageName -ForegroundColor Yellow

Write-Host " The index number: " -NoNewline

Write-Host $\_.ImageIndex -ForegroundColor Yellow

Write-Host "`n Under reconstruction".PadRight(28) -NoNewline

Export-WindowsImage -SourceImagePath $InstallWim -SourceIndex $\_.ImageIndex -DestinationImagePath "$($InstallWim).New" -CompressionType max | Out-Null

Write-Host "Finish`n" -ForegroundColor Green

}

if (Test-Path "$($InstallWim).New" -PathType Leaf) {

Remove-Item -Path $InstallWim

Move-Item -Path "$($InstallWim).New" -Destination $InstallWim

Write-Host "Finish" -ForegroundColor Green

} else {

Write-host "Failed" -ForegroundColor Red

}

#### **[自定义部署映像：boot.wim](#_3、安装语言包)**

##### [**查看 Boot.wim 文件信息**](#_安装语言包到：boot.wim)

映像名称、映像描述、映像大小、架构、版本、索引号等；

$ViewFile = "D:\OS11\Sources\Boot.wim"

Get-WindowsImage -ImagePath $ViewFile | Foreach-Object {

Get-WindowsImage -ImagePath $ViewFile -index $\_.ImageIndex

}

##### [**指定挂载 Boot.wim 路径**](#_自定义部署映像：boot.wim_1)

New-Item -Path "D:\OS11\_Custom\Boot\Boot\Mount" -ItemType directory -ea SilentlyContinue

##### [**开始挂载 Boot.wim**](#_自定义部署映像：boot.wim_1)

默认索引号：2

$Index = "2"

Mount-WindowsImage -ImagePath "D:\OS11\sources\boot.wim" -Index $Index -Path "D:\OS11\_Custom\Boot\Boot\Mount"

##### [**语言包**](#_自定义部署映像：boot.wim)

自动安装语言包：按组件匹配，匹配成功后，再安装本地对应的语言包文件。

###### **语言包：添加**

复制代码或查看源文件：Boot.Instl.lang.ps1 ( [本地](Code/Boot/Boot.Instl.lang.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Boot/Boot.Instl.lang.ps1) )

$Mount = "D:\OS11\_Custom\Boot\Boot\Mount"

$Sources = "D:\OS11\_Custom\Boot\Boot\Language\zh-CN"

$Initl\_install\_Language\_Component = @()

Get-WindowsPackage -Path $Mount | ForEach-Object {

$Initl\_install\_Language\_Component += $\_.PackageName

}

Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"

$Language\_List = @(

@{ Match = "\*WinPE\*Setup\*Client\*Package\*"; File = "WINPE-SETUP-CLIENT\_zh-CN.CAB"; }

@{ Match = "\*WinPE\*Setup\*Package\*"; File = "WinPE-Setup\_zh-CN.cab"; }

@{ Match = "\*WinPE-LanguagePack-Package\*"; File = "lp.cab"; }

@{ Match = "\*SecureStartup\*"; File = "winpe-securestartup\_zh-CN.cab"; }

@{ Match = "\*ATBroker\*"; File = "winpe-atbroker\_zh-CN.cab"; }

@{ Match = "\*AudioCore\*"; File = "winpe-audiocore\_zh-CN.cab"; }

@{ Match = "\*AudioDrivers\*"; File = "winpe-audiodrivers\_zh-CN.cab"; }

@{ Match = "\*EnhancedStorage\*"; File = "winpe-enhancedstorage\_zh-CN.cab"; }

@{ Match = "\*Narrator\*"; File = "winpe-narrator\_zh-CN.cab"; }

@{ Match = "\*scripting\*"; File = "winpe-scripting\_zh-CN.cab"; }

@{ Match = "\*Speech-TTS\*"; File = "winpe-speech-tts\_zh-CN.cab"; }

@{ Match = "\*srh\*"; File = "winpe-srh\_zh-CN.cab"; }

@{ Match = "\*srt\*"; File = "winpe-srt\_zh-CN.cab"; }

@{ Match = "\*wds-tools\*"; File = "winpe-wds-tools\_zh-CN.cab"; }

@{ Match = "\*-WMI-Package\*"; File = "winpe-wmi\_zh-CN.cab"; }

)

ForEach ($Rule in $Language\_List) {

Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' \* 80)"

ForEach ($Component in $Initl\_install\_Language\_Component) {

if ($Component -like "\*$($Rule.Match)\*") {

Write-host " Component name: " -NoNewline

Write-host $Component -ForegroundColor Green

Write-host " Language pack file: " -NoNewline

Write-host $Rule.File -ForegroundColor Green

Write-Host " Installing ".PadRight(22) -NoNewline

try {

Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}

break

}

}

}

###### **[组件](#_执行安装命令后安装语言包到：Boot.wim)，可选**

* + 1. [**查看**](#_组件)

Get-WindowsPackage -Path "D:\OS11\_Custom\Boot\Boot\Mount" | Out-GridView

* + 1. [**导出到 Csv**](#_组件)

$SaveTo = "D:\OS11\_Custom\Boot\Boot\Report.$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS11\_Custom\Boot\Boot\Mount" | Export-CSV -NoType -Path $SaveTo

Write-host $SaveTo -ForegroundColor Green

###### **[语言包：修复](#_安装语言包到：boot.wim)**

* + 1. [**提取**](#_语言包：修复)

打开：D:\OS11\_Custom\Install\Install\Language\zh-CN\Microsoft-Windows-Client-Language-Pack\_x64\_zh-CN.cab，进入目录：Setup\sources\zh-cn\cli，复制以下文件到桌面：

* + - 1. arunres.dll.mui
      2. spwizres.dll.mui
      3. w32uires.dll.mui
    1. [**复制**](#_语言包：修复)

将提取的文件复制到：D:\OS11\_Custom\Boot\Boot\Mount\sources\zh-CN

###### [**语言包：同步到 ISO 安装程序**](#_安装语言包到：boot.wim)

Copy-Item -Path "D:\OS11\_Custom\Boot\Boot\Mount\sources\zh-CN" -Destination "D:\OS11\sources\zh-CN" -Recurse -Force

###### **[重新生成 Lang.ini](#_安装语言包到：boot.wim)**

重新生成后，可调整“安装界面”，选择“语言”时的顺序，打开 lang.ini，默认首选值 = 3，非默认值 = 2。

* + 1. [**重新生成已挂载目录 lang.ini**](#_重新生成_Lang.ini)

重新生成的Lang.ini 文件位置：D:\en-us\_windows\_server\_2022\_x64\_dvd\_620d7eac\_Custom\Boot\Boot\Mount\Sources\lang.ini

Dism /image:"D:\OS11\_Custom\Boot\Boot\Mount" /gen-langini /distribution:"D:\OS11\_Custom\Boot\Boot\Mount"

* + 1. [**重新生成 lang.ini 后，同步到安装程序**](#_重新生成_Lang.ini)

重新生成的Lang.ini 文件位置：D:\en-us\_windows\_server\_2022\_x64\_dvd\_620d7eac\Sources\lang.ini

Dism /image:"D:\OS11\_Custom\Boot\Boot\Mount" /gen-langini /distribution:"D:\OS11"

##### [**更新**，可选](#_安装语言包到：boot.wim)

##### [**驱动**，可选](#_安装语言包到：boot.wim)

##### **[其它](#_安装语言包到：boot.wim)**

###### [**绕过 TPM**](#_其它)

复制代码或查看源文件：Boot.Bypass.TPM.ps1 ( [本地](Code/Boot/Boot.Bypass.TPM.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/Boot/Boot.Bypass.TPM.ps1) )

$RegSystem = "D:\OS11\_Custom\Boot\Boot\Mount\Windows\System32\Config\SYSTEM"

$RandomGuid = [guid]::NewGuid()

Write-Host " HKLM:\$($RandomGuid)"

New-PSDrive -PSProvider Registry -Name OtherTasksTPM -Root HKLM -ErrorAction SilentlyContinue | Out-Null

Start-Process reg -ArgumentList "Load ""HKLM\$($RandomGuid)"" ""$($RegSystem)""" -Wait -WindowStyle Hidden -ErrorAction SilentlyContinue

New-Item "HKLM:\$($RandomGuid)\Setup\LabConfig" -force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\$($RandomGuid)\Setup\LabConfig" -Name "BypassCPUCheck" -Value 1 -PropertyType DWord -Force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\$($RandomGuid)\Setup\LabConfig" -Name "BypassStorageCheck" -Value 1 -PropertyType DWord -Force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\$($RandomGuid)\Setup\LabConfig" -Name "BypassRAMCheck" -Value 1 -PropertyType DWord -Force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\$($RandomGuid)\Setup\LabConfig" -Name "BypassTPMCheck" -Value 1 -PropertyType DWord -Force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\$($RandomGuid)\Setup\LabConfig" -Name "BypassSecureBootCheck" -Value 1 -PropertyType DWord -Force -ea SilentlyContinue | Out-Null

[gc]::collect()

Start-Process reg -ArgumentList "unload ""HKLM\$($RandomGuid)""" -Wait -WindowStyle Hidden -ErrorAction SilentlyContinue

Remove-PSDrive -Name OtherTasksTPM

##### [**保存映像**](#_安装语言包到：boot.wim)

Save-WindowsImage -Path "D:\OS11\_Custom\Boot\Boot\Mount"

##### [**卸载映像**](#_安装语言包到：boot.wim)

Dismount-WindowsImage -Path "D:\OS11\_Custom\Boot\Boot\Mount" -Discard

### **[ISO](#_自定义部署映像)**

#### [**生成 ISO**](#_ISO)

1. 下载 oscdimg 后，保存到：C:\Windows\System32 目录里，保存在其它路径，或请输入 OScdimg.exe 绝对位置；
2. 使用 oscdimg命令行生成一个 ISO 文件，保存到：D:\Win11.iso

复制代码或查看源文件：ISO.ps1 ( [本地](Code/ISO.ps1), [Github](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.11/22H2/Code/ISO.ps1) )

$ISO = "D:\OS11"

$Volume = "OS11"

$SaveTo = "D:\OS11.iso"

$Arguments = @("-m", "-o", "-u2", "-udfver102", "-l""$($Volume)""", "-bootdata:2#p0,e,b""$($ISO)\boot\etfsboot.com""#pEF,e,b""$($ISO)\efi\microsoft\boot\efisys.bin""", $ISO, $SaveTo)

Start-Process -FilePath "OSCdimg.exe" -ArgumentList $Arguments -wait -nonewwindow

#### [**绕过 TPM 安装检查，可选**](#_4、生成_ISO)

1. 了解 <https://github.com/AveYo/MediaCreationTool.bat/tree/main/bypass11> 并下载：Quick\_11\_iso\_esd\_wim\_TPM\_toggle.bat
2. 将 D:\OS11.iso 文件托到 Quick\_11\_iso\_esd\_wim\_TPM\_toggle.bat 里，反序“添加”或“删除”TPM 安装时检查功能。

## [**已知问题**](#_top)

暂无

## **[组件：对比](#_top)**

安装新的语言包后变化，组件列表：

| 序号 | 类型 | 组件：原始 | 组件：安装“简体中文 - 中国”语言包后变化 |
| --- | --- | --- | --- |
|  | OnDemandPack | Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.317 | Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.317 |
|  | OnDemandPack | Microsoft-OneCore-DirectX-Database-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-OneCore-DirectX-Database-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | LanguagePack | Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.382 | Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.382 |
|  | LanguagePack |  | Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.382 |
|  | OnDemandPack | Microsoft-Windows-Ethernet-Client-Intel-E1i68x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Ethernet-Client-Intel-E1i68x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Ethernet-Client-Intel-E2f68-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Ethernet-Client-Intel-E2f68-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Ethernet-Client-Realtek-Rtcx21x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Ethernet-Client-Realtek-Rtcx21x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Ethernet-Client-Vmware-Vmxnet3-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Ethernet-Client-Vmware-Vmxnet3-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | FeaturePack | Microsoft-Windows-FodMetadata-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-FodMetadata-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | Foundation | Microsoft-Windows-Foundation-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Foundation-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Hello-Face-Package~31bf3856ad364e35~amd64~~10.0.22621.317 | Microsoft-Windows-Hello-Face-Package~31bf3856ad364e35~amd64~~10.0.22621.317 |
|  | OnDemandPack | Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~en-US~11.0.22621.1 | Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~en-US~11.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~zh-CN~11.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.22621.1 | Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Kernel-LA57-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382 | Microsoft-Windows-Kernel-LA57-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382 |
|  | OnDemandPack | Microsoft-Windows-LanguageFeatures-Basic-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-LanguageFeatures-Basic-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-LanguageFeatures-Basic-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-LanguageFeatures-Handwriting-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-LanguageFeatures-Handwriting-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317 |
|  | OnDemandPack | Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317 | Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317 |
|  | OnDemandPack |  | Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.317 |
|  | OnDemandPack | Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.22621.382 | Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.22621.382 |
|  | OnDemandPack | Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 | Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~~10.0.22621.1 | Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 | Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 | Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1 | Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 | Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 | Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~~10.0.22621.1 | Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 | Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 | Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 | Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~~10.0.22621.1 | Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwns64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwns64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwtw06-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwtw06-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwtw08-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwtw08-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Intel-Netwtw10-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Intel-Netwtw10-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Marvel-Mrvlpcie8897-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Marvel-Mrvlpcie8897-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Qualcomm-Athw8x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Qualcomm-Athw8x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Qualcomm-Athwnx-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Qualcomm-Athwnx-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Qualcomm-Qcamain10x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Qualcomm-Qcamain10x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Ralink-Netr28x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Ralink-Netr28x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Realtek-Rtl8187se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Realtek-Rtl8187se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Realtek-Rtl8192se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Realtek-Rtl8192se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Realtek-Rtl819xp-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Realtek-Rtl819xp-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Realtek-Rtl85n64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Realtek-Rtl85n64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Realtek-Rtwlane-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Realtek-Rtwlane-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Realtek-Rtwlane01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Realtek-Rtwlane01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-Wifi-Client-Realtek-Rtwlane13-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | Microsoft-Windows-Wifi-Client-Realtek-Rtwlane13-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 | Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382 | Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382 |
|  | OnDemandPack | Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 | Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1 | Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 | Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.317 | Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.317 |
|  | OnDemandPack | Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 | Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1 |
|  | OnDemandPack |  | Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 |
|  | OnDemandPack | Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1 | Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1 |
|  | OnDemandPack | OpenSSH-Client-Package~31bf3856ad364e35~amd64~~10.0.22621.1 | OpenSSH-Client-Package~31bf3856ad364e35~amd64~~10.0.22621.1 |
|  | Update | Package\_for\_DotNetRollup\_481~31bf3856ad364e35~amd64~~10.0.9065.6 | Package\_for\_DotNetRollup\_481~31bf3856ad364e35~amd64~~10.0.9065.6 |
|  | SecurityUpdate | Package\_for\_RollupFix~31bf3856ad364e35~amd64~~22621.382.1.13 | Package\_for\_RollupFix~31bf3856ad364e35~amd64~~22621.382.1.13 |
|  | SecurityUpdate | Package\_for\_ServicingStack\_378~31bf3856ad364e35~amd64~~22621.378.1.0 | Package\_for\_ServicingStack\_378~31bf3856ad364e35~amd64~~22621.378.1.0 |