# 封装教程: MICROSOFT WINDOWS 11 22H2

不同的系统版本,有着不同的封装方式,封装过程中包含:"语言包:添加、关联、删除"、"驱动:添加、删除"、"累积更新:添加、删除"、"InBox Apps:添加、更新、标记"等。



在这背后藏着很多的隐藏故事, 想解开这些, 你准备好开始尝试封装了吗?

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#### 章节1 部署映像

## A. 先决条件

II ISO 工具

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

Ⅲ 要求

学习"附件: OS", 查看"Windows 11"项。

- 1. 系统安装包
  - 1.1. 准备: en-us\_windows\_11\_business\_editions\_version\_22h2\_x64\_dvd\_17a08ce3.iso
  - 1.2. 解压到: D:\en-us\_windows\_11\_business\_editions\_version\_22h2\_x64\_dvd\_17a08c
  - 1.3. 解压完成后,将目录 en-us\_windows\_11\_business\_editions\_version\_22h2\_x64\_dvd\_17a08c 更改为 D:\OS\_11
  - 1.4. 所有脚本、所有路径,已默认设置为 D:\OS\_11 为映像来源。
- 2. 语言包
  - 2.1. 学习

阅读时,请了解"蓝色"重要突出部分。

- 2.1.1. 语言概述
- 2.1.2. 将语言添加到 Windows 11 映像
- 2.1.3. 语言和区域按需功能 (FOD)
  - 2.1.3.1. 字体
    - 添加语言包时,触发了对应的区域时,需添加所需的字体功能,下载"所有可用语言 FOD 的列表" 了解更多。
    - 在"语言包:提取"时,已加入自动识别功能,可了解函数:Function Match\_Required\_Fonts
  - 2.1.3.2. 区域关联

区域关联是什么?

- 映像语言仅英文版时,添加 zh-HK 语言包后,映像语言不会新增,应先安装 zh-TW 后,再安装 zh-HK 即可获得对应的关联。
- 可参阅微软官方原版: Windows 10、Windows 11 繁体版。

#### 已知区域关联:

2.1.3.2.1. 区域: zh-TW, 可选关联区域: zh-HK

#### 2.1.3.3. 其它区域特定的要求

触发已知区域时,需添加特定的"程序包"。

2.1.3.3.1. 区域: zh-TW, 程序包: Microsoft-Windows-InternationalFeatures-Taiwan-Package~31bf3856ad364e35~amd64~~.cab

说明:对台湾日期格式设置要求的补充支持。将为位于台湾的客户提供包。

建议: 仅在运送到台湾市场的设备上预安装。 未在设备上安装此功能会导致对使用台湾日历的任何 API 调用失败。

# 存在争议:

- 在测试中发现,微软官方原版 Windows 10、Windows 11 里并未发现原版映像里安装此程序包,但
   是在建议项里有已知问题,到底是遵循与微软官方原版一致,由封装师自由选择安装与否。
- 2.2. 语言包: 下载

 $22621.1.220506-1250.ni\_release\_amd64 fre\_CLIENT\_LOF\_PACKAGES\_OEM. is only the contraction of the contracti$ 

- 2.3. 语言包: 修复
  - 2.3.1. 任选一个网站并打开:
    - 2.3.1.1. https://uupdump.net
    - 2.3.1.2. https://uup.ee
  - 2.3.2. 打开后,搜索关键词: 22621.382, 在搜索结果选择: Windows 11, version 22H2 (22621.382) amd64
  - 2.3.3. 打开后,选择"全部文件";
  - 2.3.4. 在"全部文件"页面里依次搜索绿色部分并下载:
    - 2.3.4.1. 适用于: Install.wim (1项)

Yi's Solutions

2.3.4.1.1. Media

2.3.4.2. 适用于: WinRE.wim, 暂无

2.3.4.3. 适用于: Boot.wim, 暂无

- 2.3.5. 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)";
- 2.3.6. 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;
- 3. InBox Apps
  - 3.1. 下载: 22621.1778.230511-2102.ni\_release\_svc\_prod3\_amd64fre\_InboxApps.iso
  - 3.2. 下载: 22621.1.220506-1250.ni\_release\_amd64fre\_InboxApps.iso 后,提取以下文件后保存到桌面:
    - 3.2.1. Microsoft.HEVCVideoExtension\_8wekyb3d8bbwe.x64.appx
    - 3.2.2. Microsoft.HEVCVideoExtension\_8wekyb3d8bbwe.x64.xml
  - **3.3.** 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;
- IV 命令行
  - 1. 可选 "Terminal" 或 "PowerShell ISE" , 未安装 "Terminal" , 请前往 https://github.com/microsoft/terminal/releases 后下载;
  - 2. 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:

 ${\bf Set\text{-}ExecutionPolicy\text{-}ExecutionPolicy\text{-}Bypass\text{-}Force}$ 

- 3. 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;
- 4. 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。
- B. 语言包: 提取
  - Ⅱ 语言包:准备

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

- Ⅲ 语言包: 提取方案
  - 1. 添加

1.1. 语言名称:简体中文 - 中国,区域: zh-CN,适用范围: Install.Wim, Boot.Wim, WinRE.Wim

- 2. 删除
  - 2.1. 语言名称: 英语 美国, 区域: en-US, 适用范围: Install.Wim, Boot.Wim, WinRE.Wim

#### IV 执行提取命令

- 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:\"
- Extract.ps1
  - \Expand\Extract.ps1
  - o https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Extract.ps1
- 复制代码

```
$ISO = "Auto"
 $SaveTo = "D:\OS_11_Custom"
 $Extract_language_Pack = @(
       @{Tag = "zh-CN"; Act = "Add"; Scope = @("Install\"; "Install\WinRE"; "Boot\Boot"))}
       @{ Tag = "en-US"; Act = "Det"; Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot" ) }
 Function Extract_Language
       param( $Act, $NewLang, $Expand )
       Function Match_Required_Fonts
             param($Lang)
             $Fonts = @(
                    @{ Match = @("as", "ar-SA", "ar", "ar-AE", "ar-BH", "ar-DJ", "ar-DZ", "ar-EG", "ar-ER", "ar-IL", "ar-IQ", "ar-IO", "ar-KM", "ar-KW", "ar-LB", "ar-LB", "ar-DZ", "ar-ER", "ar-IL", "ar-ID", "ar-I
LY", "ar-MA", "ar-MR", "ar-OM", "ar-PS", "ar-QA", "ar-SD", "ar-SO", "ar-SS", "ar-SY", "ar-TD", "ar-TN", "ar-YE", "arz-Arab", "ckb-Arab", "fa", "fa-
 AF", "fa-IR", "glk-Arab", "ha-Arab", "ks-Arab", "ks-Arab-IN", "ku-Arab", "ku-Arab-IQ", "mzn-Arab", "pa-Arab", "pa-Arab-PK", "pnb-Arab", "prs",
 "prs-AF", "prs-Arab", "ps", "ps-AF", "sd-Arab", "sd-Arab-PK", "tk-Arab", "ug", "ug-Arab", "ug-CN", "ur", "ur-IN", "ur-PK", "uz-Arab", "uz-Arab-AF");
Name = "Arab"; }
                    @{ Match = @("bn-IN", "as-IN", "bn", "bn-BD", "bpy-Beng"); Name = "Beng"; }
                    @{ Match = @("da-dk", "iu-Cans", "iu-Cans-CA"); Name = "Cans"; }
                    @{ Match = @("chr-Cher-US", "chr-Cher"); Name = "Cher"; }
                    @{ Match = @("hi-IN", "bh-Deva", "brx", "brx-Deva", "brx-IN", "hi", "ks-Deva", "mai", "mr", "mr-IN", "ne", "ne-IN", "ne-NP", "new-Deva", "pi-
 Deva", "sa", "sa-Deva", "sa-IN"); Name = "Deva"; }
                     @{ Match = @("am", "am-ET", "byn", "byn-ER", "byn-Ethi", "ti-ER", "ti-ER", "tig-ER", "tig-ER", "tig-Ethi", "ve-Ethi", "wal-ET", "wal-ET", "wal-ET", "wal-ET", "tig-ER", "tig-ER"
 Ethi"); Name = "Ethi"; }
                    @{ Match = @("gu", "gu-IN"); Name = "Gujr"; }
```

```
@{ Match = @("pa", "pa-IN", "pa-Guru"); Name = "Guru"; }
                    @{ Match = @("zh-CN", "cmn-Hans", "gan-Hans", "hak-Hans", "wuu-Hans", "yue-Hans", "zh-gan-Hans", "zh-hak-Hans", "zh-hak-Hans",
SG", "zh-wuu-Hans", "zh-yue-Hans"); Name = "Hans"; }
                    @{ Match = @("zh-TW", "cmn-Hant", "lzh-Hant", "zh-hak-Hant", "zh-hak-Hant", "zh-Hant", "
Name = "Hant"; }
                    @{ Match = @("he", "he-IL", "yi"); Name = "Hebr"; }
                    @{ Match = @("ja", "ja-JP"); Name = "Jpan"; }
                    @{ Match = @("km", "km-KH"); Name = "Khmr"; }
                    @{ Match = @("kn", "kn-IN"); Name = "Knda"; }
                    @{ Match = @("ko", "ko-KR"); Name = "Kore"; }
                    @{ Match = @("de-de", "lo", "lo-LA"); Name = "Laoo"; }
                   @{ Match = @("ml", "ml-IN"); Name = "Mlym"; }
                   @{ Match = @("or", "or-IN"); Name = "Orya"; }
                   @{ Match = @("si", "si-LK"); Name = "Sinh"; }
                   @{ Match = @("tr-tr", "arc-Syrc", "syr", "syr-SY", "syr-Syrc"); Name = "Syrc"; }
                   @{ Match = @("ta", "ta-IN", "ta-LK", "ta-MY", "ta-SG"); Name = "Taml"; }
                   @{ Match = @("te", "te-IN"); Name = "Telu"; }
                   @{ Match = @("th", "th-TH"); Name = "Thai"; }
             ForEach ($item in $Fonts) {
                   if (($item.Match) -Contains $Lang) {
                          return $item.Name
            return "Not_matched"
      Function Match_Other_Region_Specific_Requirements
            param($Lang)
             $RegionSpecific = @(
                   @{ Match = @("zh-TW"); Name = "Taiwan"; }
            ForEach ($item in $RegionSpecific) {
                   if (($item.Match) -Contains $Lang) {
                          return $item.Name
            return "Skip_specific_packages"
      Function Extract_Process
            param( $Package, $Name, $NewSaveTo )
```

```
New-Item -Path $NewSaveTo -ItemType Directory -ErrorAction SilentlyContinue | Out-Null
       if ($ISO -eq "Auto") {
          Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
              ForEach ($item in $Package) {
                   TempFilePath = Join-Path - Path _.Root - ChildPath  item - Error Action Silently Continue
                   if (Test-Path $TempFilePath -PathType Leaf) {
                      Write-host "`n Find: "-NoNewLine; Write-host $TempFilePath -ForegroundColor Green
                       Write-host " Copy to: " -NoNewLine; Write-host $NewSaveTo
                       Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force
       } else {
           ForEach ($item in $Package) {
              $TempFilePath = Join-Path +Path $ISO - 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 $NewSaveTo
                   Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force
              } else {
                   Write-host " Not found"
       Write-host "`n Verify the language pack file"
       ForEach ($item in $Package) {
          $Path = "$($NewSaveTo)\$([IO.Path]::GetFileName($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
    $AdvLanguage = @(
       @{
          Path = "Install\Install"
          Rule = @(
              "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Fonts-{DiyLang}-
Package~31bf3856ad364e35~AMD64~~.cab"
              "LanguagesAndOptionalFeatures\Microsoft-Windows-Client-Language-Pack_x64_{Lang}.cab"
              "Languages And Optional Features \verb|\Microsoft-Windows-LanguageFeatures-Basic-{Lang}-Package \verb|\algoes|| -23 bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 \verb|\AMD64|| -23 cab bf 3856 ad 364 e 35 cab bf 3856 ad 36
              "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Handwriting-{Lang}-
```

Package~31bf3856ad364e35~AMD64~~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-OCR-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Speech-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-TextToSpeech-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-MediaPlayer-Package-AMD64-{Lang}.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-MediaPlayer-Package-wow64-{Lang}.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab" "LanguagesAndOptionalFeatures\Microsoft-Windows-InternationalFeatures-{Specific}-Package~31bf3856ad364e35~amd64~~.cab" @{ Path = "Install\WinRE" Rule = @( "Windows Preinstallation Environment\x64\WinPE\_OCs\WinPE-FontSupport-{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\lp.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-securestartup\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-atbroker\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-audiocore\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-audiodrivers\_{Lang},cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-enhancedstorage\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-narrator\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-scripting\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-speech-tts\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-srh\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-srt\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-wds-tools\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-wmi\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-appxdeployment\_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-appxpackaging\_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-storagewmi\_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE\_OCs\{Lang}\winpe-wifi\_{Lang}.cab"

```
"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-windowsupdate_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-rejuv_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-opcservices_{Lang}.cab"
      @{
    Path = "Boot\Boot"
    Rule = @(
      "Windows Preinstallation Environment\x64\WinPE_OCs\WinPE-FontSupport-{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\lp.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\WinPE-Setup_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\WINPE-SETUP-CLIENT_{Lang}.CAB"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-enhancedstorage_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-narrator_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-scripting_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srh_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wds-tools_{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wmi_{Lang}.cab"
 $NewFonts = Match_Required_Fonts -Lang $NewLang
 $SpecificPackage = Match_Other_Region_Specific_Requirements -Lang $NewLang
 Foreach ($item in $Expand) {
   $Language = @()
   Foreach ($itemList in $AdvLanguage) {
    if ($itemList.Path -eq $item) {
      Foreach ($PrintLang in $itemList.Rule) {
       $Language += "$($PrintLang)".Replace("{Lang}", $NewLang).Replace("{DiyLang}", $NewFonts).Replace("{Specific}",
$SpecificPackage)
      Extract_Process - NewSaveTo $itemList.Path - Package $Language - Name $item
```

## C. 自定义部署映像

- II 自定义部署映像: Install.wim
  - 1. 查看 Install.wim 详细信息

映像名称、映像描述、映像大小、架构、版本、索引号等;

\$ViewFile = "D:\OS\_11\Sources\Install.wim"

Get-WindowsImage -ImagePath \$ViewFile | Foreach-Object { Get-WindowsImage -ImagePath \$ViewFile -index \$\_.ImageIndex }

#### 循环操作区域,开始,

2. 指定挂载 Install 路径

 $New-Item-Path "D: \OS\_11\_Custom \Install \Install \Mount"-ItemType \ directory-ea \ Silently \Continue$ 

3. 开始挂载 Install.wim

默认索引号: 1

 $Mount-Windows Image - Image Path "D: \OS\_11 \setminus Sources \setminus "I" - Path "D: \OS\_11\_Custom \setminus Install \setminus Mount = (A. Custom \setminus Install \setminus Install \setminus Mount = (A. Custom \setminus Install \setminus Insta$ 

处理 Install.wim 映像内的文件,可选项,开始,

3.1. 自定义部署映像: WinRE.wim

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"。
- 3.1.1. 查看 WinRE.wim 详细信息

映像名称、映像描述、映像大小、架构、版本、索引号等;

 $\label{thm:loss} $$\bigvee_{n=0}\OS_{11}_Custom\Install\Mount\Windows\System 32\Recovery\WinRE.wim"} $$$ 

 ${\tt Get-WindowsImage-ImagePath\ \$ViewFile\ |\ For each-Object\ \{\ Get-WindowsImage-ImagePath\ \$ViewFile\ -index\ Annex\ Annex\$ 

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## 3.1.2. 指定挂载 WinRE.wim 路径

#### 3.1.3. 开始挂载 WinRE.wim

## 默认索引号: 1

Mount-WindowsImage -ImagePath
"D:\OS\_11\_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim" -Index "1" -Path
"D:\OS\_11\_Custom\Install\WinRE\Mount"

## 3.1.4. 语言包

自动安装语言包:获取"组件:映像中已安装的所有包"后进行匹配,匹配到对应的名称后,再安装本地对应的语言包文件。

#### 3.1.4.1. 语言包:添加

- WinRE.Instl.lang.ps1
  - \Expand\Install\WinRE\WinRE.Instl.lang.ps1
  - o https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Exp and/Install/WinRE/WinRE.Instl.lang.ps1

```
$Mount = "D:\OS_11_Custom\Install\WinRE\Language\Add\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 = "*AIBroker*"; File = "winpe-audiocore_zh-CN.cab"; }
    @{ Match = "*AudioCore*"; File = "winpe-audiodrivers_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 = "*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"; }
 @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_zh-CN.cab"; }
 @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_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 $Component -ForegroundColor Green
     Write-host "Language pack file: "-NoNewline
     Write-host "$($Sources)\$($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
```

# 3.1.4.2. 脱机映像语言: 更改

# 3.1.4.2.1. 更改默认语言、区域设置和其他国际设置

区域: zh-CN

 $\label{lem:limit} Dism/Image: "D:\OS\_11\_Custom\Install\WinRE\Mount"/Set-AllIntl: zh-CN$ 

## 3.1.4.2.2. 查看可用的语言设置

#### 3.1.4.3. 语言包: 删除, 可选

- 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。删除语言时, 请按与添加语言组件相反的顺序卸载语言组件。
- 添加中文后,反向删除"英语-美国",区域: en-US,需提前提取语言包
- WinRE.Del.Specified.lang.Tag.ps1
  - o \Expand\Install\WinRE\WinRE.Del.Specified.lang.Tag.ps1
  - https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Ex
     pand/Install/WinRE/WinRE.Del.Specified.lang.Tag.ps1

```
$Lang = "en-US"
$Mount = "D:\OS_11_Custom\Install\WinRE\Mount"
$Sources = "D:\OS_11_Custom\Install\WinRE\Language\Del\en-US"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
$Language = @(
 @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_$($Lang).cab"; }
 @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_$($Lang).cab"; }
 @{ Match = "*hta*"; File = "winpe-hta_$($Lang).cab"; }
  @{ Match = "*opcservices*"; File = "winpe-opcservices_$($Lang).cab"; }
  @{ Match = "*rejuv*"; File = "winpe-rejuv_$($Lang).cab"; }
  @{ Match = "*WiFi*"; File = "winpe-wifi_$($Lang).cab"; }
  @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_$($Lang).cab"; }
  @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_$($Lang).cab"; }
  @{ Match = "*-WMI-Package*"; File = "winpe-wmi_$($Lang).cab"; }
  @{ Match = "*wds-tools*"; File = "winpe-wds-tools_$($Lang).cab"; }
  @{ Match = "*srt*"; File = "winpe-srt_$($Lang).cab"; }
  @{ Match = "*srh*"; File = "winpe-srh_$($Lang).cab"; }
  @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_$($Lang).cab"; }
  @{ Match = "*scripting*"; File = "winpe-scripting_$($Lang).cab"; }
  @{ Match = "*Narrator*"; File = "winpe-narrator_$($Lang).cab"; }
  @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_$($Lang).cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_$($Lang).cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_$($Lang).cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_$($Lang).cab"; }
```

```
@{ Match = "*SecureStartup*"; File = "winpe-securestartup_$($Lang).cab"; }
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: "-NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host "Language pack file: "-NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
      Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -
ErrorAction SilentlyContinue | Out-Null
      Write-host "Finish" -ForegroundColor Green
     } catch {
      Write-host "Failed" -ForegroundColor Red
      Write-host " $($_)" -ForegroundColor Red
     break
$InitlClearLanguagePackage = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 if ($_.PackageName -like "*$($Lang)*") {
   $InitlClearLanguagePackage += $_.PackageName
if ($InitlClearLanguagePackage.count -gt 0) {
 For Each ($item in $InitlClearLanguagePackage) {
   Write-Host "`n $($item)" -ForegroundColor Green
   Write-Host " Deleting ".PadRight(22) -NoNewline
     Remove-AppxProvisionedPackage -Path $Mount -PackageName $item -ErrorAction
SilentlyContinue | Out-Null
     Write-host "Finish" -ForegroundColor Green
   } catch {
     Write-host "Failed" -ForegroundColor Red
     Write-host " $($_)" -ForegroundColor Red
```

## 3.1.4.4. 组件:映像中已安装的所有包

#### 3.1.4.4.1. 查看

Get-WindowsPackage -Path "D:\OS\_11\_Custom\Install\WinRE\Mount" | Out-GridView

# 3.1.4.4.2. 导出到 Csv

\$SaveTo = "D:\OS\_11\_Custom\Install\WinRE\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

 $\label{lem:condition} Get-WindowsPackage - Path "D: \OS\_11\_Custom \Install \WinRE \Mount" | Export-CSV-NoType - Path $SaveTo$ 

Write-host \$SaveTo -ForegroundColor Green

# 3.1.5. 累积更新,可选

准备可用的累积更新文件,请更改示例文件名: KB\_WinRE.cab

#### 3.1.5.1. 添加

 $$KBPath = "D:\OS_11\_Custom\Install\WinRE\Update\KB\_WinRE.cab"$ 

 $Add-Windows Package-Path~"D:\OS\_11\_Custom\Install\WinRE\Mount"-Package-Path~KBPath~"D:\OS\_11\_Custom\Install\WinRE\Mount"-Package-Path~"D:\OS\_11\_Custom\Install\WinRE\Mount"-Package-Path~"D:\OS\_11\_Custom\Install\WinRE\Mount"-Package-Path~"D:\OS\_11\_Custom\Install\WinRE\Mount"-Package-Path~"D:\OS\_11\_Custom\Install\WinRE\Mount"-Package-Path~"D:\OS\_11\_Custom\Install\WinRE\Mount"-Package-Path~"D:\OS\_11\_Custom\Install\WinRE\Mount"-Package-Path~"D:\OS\_11\_Custom\Install\WinRE\Mount"-Package-Path~"D:\OS\_11\_Custom\Nount"-Package-Path$ 

# 3.1.5.2. 删除

 $$KBPath = "D:\OS\_11\_Custom\Install\WinRE\Update\KB\_WinRE.cab"$ 

## 3.1.5.3. 固化更新,可选项

# 固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

Dism /image:"D:\OS\_11\_Custom\Install\WinRE\Mount" /cleanup-image /StartComponentCleanup /ResetBase

# 3.1.5.3.1. 固化更新后清理组件,可选项

\$Mount = "D:\OS\_11\_Custom\Install\WinRE\Mount"

 ${\tt Get-WindowsPackage - Path \$ Mount - Error Action Silently Continue \mid For Each-Object \{ for Each-Object \} and the property of the property$ 

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

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

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

#### 3.1.6. 驱动

#### 3.1.7. 保存映像

 $Save-WindowsImage - Path "D: \label{loss_11_Custom} Install \label{loss_11_Custom} WinRE \label{loss_11_Custom} Install \label{loss_11_Custom} WinRE \label{loss_11_Custom} Install \label{loss_11_Custom} WinRE \label{l$ 

#### 3.1.8. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS\_11\_Custom\Install\WinRE\Mount" -Discard

# 3.1.9. 重建 WinRE.wim 后,可缩小文件大小

- WinRE.Rebuild.ps1
  - o \Expand\Install\WinRE\WinRE.Rebuild.ps1
  - https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Install/WinRE.Rebuild.ps1

```
$FileName = "D:\OS_11_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
        {\bf Export-WindowsImage-SourceImagePath~\$Filename-SourceIndex\,\$\_.ImageIndex\,-DestinationImagePath~\$ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.ImageIndex\,\$\_.
  "$($FileName).New" -CompressionType max
       Write-Host "Finish`n" -ForegroundColor Green
if (Test-Path "$($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
```

#### 3.1.10. 备份 WinRE.wim

- WinRE.Backup.ps1
  - o \Expand\Install\WinRE\WinRE.Backup.ps1
  - https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Install/WinRE.Backup.ps1

## • 复制代码

```
$WimLibPath = "D:\OS_11_Custom\Install\Install\Update\Winlib"

$FileName = "D:\OS_11_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"

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

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

#### 3.1.11. 替换 Install.wim 映像内的 WinRE.wim

- 每次挂载 Install.wim 后"替换 WinRE.wim";
- 学习"获取 Install.wim 所有索引号后并替换旧的 WinRE.wim"。

处理 Install.wim 映像内的文件,结束。

## 4. 语言包

自动安装语言包: 获取"组件:映像中已安装的所有包"后进行匹配,匹配到对应的名称后,再安装本地对应的语言包文件。

- 4.1. 语言包:添加
  - Install.Instl.lang.ps1
    - \Expand\Install.Instl.lang.ps1
    - https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Install/Install.Instl.la
       ng.ps1

```
$Mount = "D:\OS_11_Custom\Install\Install\Mount"

$Sources = "D:\OS_11_Custom\Install\Language\Add\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-
 @{ Match = "*Client*LanguagePack*zh-TW*"; File = "Microsoft-Windows-InternationalFeatures-Taiwan-
Package~31bf3856ad364e35~amd64~~.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 $Component -ForegroundColor Green
    Write-host " Language pack file: " -NoNewline; Write-host "$($Sources)\$($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
}
```

# 4.2. 脱机映像语言: 更改

- 从 Windows 11 开始, DISM 设置的默认系统 UI 语言在所有版本中保持不变(家庭版除外)。对于所有商业版,在开箱即用体验(OOBE)期间选择的语言会设置为系统首选 UI 语言, Windows 将以此语言显示;对于家庭版,在 OOBE 期间选择的语言将继续用作默认系统 UI 语言。
- 从 Windows 10 版本 2004 开始,如果将基于 .appx 的语言体验包 (LXP) 支持的语言作为参数传递,则该语言将设置为系统首选 UI 语言,其父语言将设置为默认系统 UI 语言。在以前的版本中,仅支持基于 .cab 的语言包。
- 4.2.1. 更改默认语言、区域设置和其他国际设置

区域: zh-CN

 $\label{lem:limit} \begin{tabular}{ll} $$Dism/Image:"D:\OS\_11\_Custom\Install\Install\Mount"/Set-AllIntl:"zh-CN" \\ \end{tabular}$ 

# 4.2.2. 查看可用的语言设置

Dism /Image:"D:\OS\_11\_Custom\Install\Install\Mount" /Get-Intl

# 4.3. 语言包:删除,可选

- 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。删除语言时,请按与添加语言组件相反的顺序卸载语言组件。
- 添加中文后,反向删除"英语 美国",区域:en-US,需提前提取语言包
- Install.Del.Specified.lang.Tag.ps1
  - $\verb|o| \ensuremath{|} \ensuremath{|$
  - o https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Install/Install/Install. Del.Specified.lang.Tag.ps1
- 复制代码

```
$Lang = "en-US"
$Mount = "D:\OS_11_Custom\Install\Install\Mount"
$Sources = "D:\OS_11_Custom\Install\Install\Language\Del\en-US"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
$Language = @(
 @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-$($Lang).cab"; }
 @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-$($Lang).cab"; }
 @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Client-LanguagePack-Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_$($Lang).cab"; }
ForEach ($Rule in $Language) {
```

```
Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: "-NoNewline; Write-host $Component -ForegroundColor Green
     Write-host " Language pack file: " -NoNewline; Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
       Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -ErrorAction SilentlyContinue |
Out-Null
      Write-host "Finish" -ForegroundColor Green
     } catch {
      Write-host "Failed" -ForegroundColor Red
      Write-host " $($_)" -ForegroundColor Red
     break
$InitlClearLanguagePackage = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 if ($_.PackageName -like "*$($Lang)*") {
   $InitlClearLanguagePackage += $_.PackageName
if ($InitlClearLanguagePackage.count -gt 0) {
 ForEach ($item in $InitlClearLanguagePackage) {
   Write-Host "`n $($item)" -ForegroundColor Green
   Write-Host " Deleting ".PadRight(22) -NoNewline
   try {
     Remove-AppxProvisionedPackage -Path $Mount -PackageName $item -ErrorAction SilentlyContinue | Out-Null
     Write-host "Finish" -ForegroundColor Green
   } catch {
     Write-host "Failed" -ForegroundColor Red
     Write-host " $($_)" -ForegroundColor Red
```

## 4.4. 组件:映像中已安装的所有包

# 4.4.1. 查看

#### 4.4.2. 导出到 Csv

\$SaveTo = "D:\OS\_11\_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS\_11\_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

#### 5. InBox Apps

5.1. 学习"附件: inBox Apps"

了解不同的操作系统预安装应用,应用商店连接。

5.2. InBox Apps:已安装

#### 5.2.1. 查看

## 5.2.2. 导出到 Csv

\$SaveTo = "D:\OS\_11\_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-AppXProvisionedPackage -Path "D:\OS\_11\_Custom\Install\Install\Mount" | Export-CSV -NoType -Path
\$SaveTo

Write-host \$SaveTo -ForegroundColor Green

# 5.3. 删除已安装的所有预应用程序

- Install.InBox.Appx.Clear.all.ps1
  - $o \verb| \Expand \Install. In Box. Appx. Clear. all. ps 1|$
  - https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Install.InBox.
     Appx.Clear.all.ps1

```
Get-AppXProvisionedPackage -path "D:\OS_11_Custom\Install\Install\Mount" -ErrorAction SilentlyContinue | ForEach-Object {

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

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

try {

Remove-AppxProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" -PackageName $_.PackageName -

ErrorAction SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green
} catch {

Write-host "Failed" -ForegroundColor Red
```

5.4. 区域标记: 了解

了解区域标记前,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:\OS\_11\_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,这就是区域标记。

5.5. 区域标记:添加方式

5.5.1. 执行"语言包:添加"

5.5.2. 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:

5.5.2.1. 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:\OS\_11\_Custom\Install\Install\InBox.Appx, 文件格式:

LanguageExperiencePack.zh-CN.Neutral.Appx

5.5.2.2. 手动下载

5.5.2.2.1. 查看 "附件: LXPs"

等待下载"简体中文 - 中国"的本地语言体验包(LXPs),区域: zh-CN,应用程

序ID: 9NRMNT6GMZ70, 商店连接:

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

5.5.2.2.2. 打开网站: https://store.rg-adguard.net

5.5.2.2.2.1. 搜索关键词:

Yi's Solutions

第27页 共62页

#### 5.5.2.2.2.2. 网页内搜索 22621 内容, 搜索结果:

Microsoft.LanguageExperiencePackzh-CN\_22621.\*. neutral\_\_8wekyb3d8bbwe.appx

# 5.5.2.2.2.3. 下载后保存到 D:\OS\_11\_Custom\Install\Install\InBox.Appx 目录

里, 重命名: LanguageExperiencePack.zh-cn.Neutral.Appx

#### 5.5.2.3. 执行安装命令安装本地语言体验包 (LXPs)

了解区域标记添加方式后,获得 Language Experience Pack.zh-cn.Neutral 后,执行安装命令:

Add-AppxProvisionedPackage -Path "D:\OS\_11\_Custom\Install\Install\Mount" -PackagePath "D:\OS\_11\_Custom\Install

#### 5.5.2.4. InBox Apps: 已安装的应用程序包

## 5.5.2.4.1. 查看

 $\label{lem:condition} Get-AppXProvisionedPackage - Path "D: \OS\_11\_Custom \Install \Mount" \mid Out-Grid View$ 

## 5.5.2.4.2. 导到出 Csv

 $SaveTo = D:\OS_11_Custom\Install\Install\Report.$(Get-Date - Format "yyyyMMddHHmmss").csv"$ 

Get-AppXProvisionedPackage -Path "D:\OS\_11\_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

## 5.6. InBox Apps:安装

# 5.6.1. 挂载或解压 InBox Apps 安装文件

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

## 5.6.2. 执行安装命令后安装 InBox Apps 到: Install.wim

- 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"
- Install.Inst.InBox.Appx.ps1



- \Expand\Install\Install.Inst.InBox.Appx.ps1
- https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Install/Install.Inst.InBox.Appx.ps1

#### 复制代码

```
$ISO = "Auto"
$Mount = "D:\OS_11_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"; "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)" - Foreground Color 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"; File = "Microsoft.WindowsN
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_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". Pad Right (22) \, - No New line \, - Foreground Color \, 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
```

}

```
} else {
    Write-host " Skip the installation" -ForegroundColor Red
}
```

#### 5.7. 区域标记:删除

- 完成安装 InBox Apps 应用后,区域标记已不再重要,可删除或不删除,删除"本地语言体验包(LXPs),简体中文 中国)",区域标记: zh-CN,可更改为其它区域标记。
- Install.Clear.Flag.ps1
  - o \Expand\Install\Install.Clear.Flag.ps1
  - https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Install/Install.Clear.
     Flag.ps1

#### • 复制代码

```
$Lang = "zh-CN"

Get-AppXProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" | Foreach-object {

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

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

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

try {

Remove-AppxProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" -PackageName $_.PackageName -

ErrorAction SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green
} catch {

Write-host "Failed" -ForegroundColor Red
}
}
```

# 5.8. InBox Apps:优化

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。

 $\label{lem:limit} Dism/Image: "D:\OS\_11\_Custom\Install\Install\Mount"/Optimize-Provisioned Appx Packages$ 

# 6. 累积更新

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:映像中已安装的所有包"状态。

6.1. 初始版本

#### 6.1.1. 如何下载

累积更新 KB5016632 已无法从 https://www.catalog.update.microsoft.com/Search.aspx?q=KB5016632 里搜索到。

- 6.1.1.1. 任选一个网站并打开:
  - 6.1.1.1.1. https://uupdump.net
  - 6.1.1.1.2. https://uup.ee
- 6.1.1.2. 打开后,搜索关键词: 22621.382, 在搜索结果选择: Windows 11, version 22H2 (22621.382) amd64
- 6.1.1.3. 打开后,选择"全部文件";
- 6.1.1.4. 在"全部文件"页面里搜索: KB5016632, 下载:
  - Windows11.0-KB5016632-x64.cab
  - Windows11.0-KB5016632-x64.psf
- 6.1.1.5. 累积更新: 合并
  - 6.1.1.5.1. 前往 https://github.com/abbodi1406/WHD/tree/master/scripts 后下载
    PSFX\_Repack\_6.zip
  - 6.1.1.5.2. 下载后解压到: D:\PSFX\_Repack\_6
  - **6.1.1.5.3.** 复制 Windows11.0-KB5016632-x64.cab、Windows11.0-KB5016632-x64.psf **到:** D:\PSFX\_Repack\_6
  - 6.1.1.5.4. 运行: psfx2cab\_GUI.cmd 后,将得到一个新的文件:

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

6.1.1.5.5. 将 Windows11.0-KB5016632-x64-full\_psfx.cab 保存到:

D:\OS\_11\_Custom\Install\Install\Update\Windows11.0-KB5016632-x64-full\_psfx.cab

6.1.2. 添加

 $$KBPath = "D:\OS_11_Custom\Install\Update\Windows11.0-KB5016632-x64-full\_psfx.cab" \\$ 

Add-WindowsPackage -Path "D:\OS\_11\_Custom\Install\Install\Mount" -PackagePath \$KBPath

- 6.2. 其它版本
  - 6.2.1. 如何下载



查阅"Windows 11 版本信息",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",保存到:

 $\label{lem:loss} D:\OS_11\_Custom\Install\Update\windoOS_11.0-kb5030219-x64\_659d407821da654d564a3108bf493594bd143ab1.msu$ 

## 6.2.2. 添加

```
KBPath = "D:\OS_11_Custom\Install\Update\windoOS_11.0-kb5030219-x64_659d407821da654d564a3108bf493594bd143ab1.msu"
```

 $Add-Windows Package - Path "D: \OS\_11\_Custom \Install \Install \Mount" - Package Path $KBPath \Add-Windows \Add-Window \Add-Windows \Add-Windows \Add-Windows \Add-Windows \Add-Window \Add-Windo$ 

#### 6.3. 固化更新,可选项

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

Dism /Image:"D:\OS\_11\_Custom\Install\Install\Mount" /cleanup-image /StartComponentCleanup /ResetBase

## 6.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS_11_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
   }
}
```

- 7. 驱动,可选
- 8. 部署引擎:添加,可选
  - 了解"部署引擎",如果添加到 ISO 安装介质,可跳过添加到已挂载;
  - 如果添加部署引擎到已挂载里,请继续在当前位置执行下一步。
- 9. 健康

保存前应检查是否损坏,健康状态异常时,中止保存

 $Repair-Windows Image - Path "D: \OS\_11\_Custom \Install \Install \Mount" - Scan Health \Mount \Moun$ 

10. 替换 WinRE.wim

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

```
\label{lem:winRE} $$\operatorname{UD:\Omega_11_Custom\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\linstall\
```

 $\label{loss} $\operatorname{CopyTo} = "D:\OS_11_Custom\Install\Install\Mount\Windows\System32\Recovery" \\$ 

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

## 11. 保存映像

Save-WindowsImage -Path "D:\OS\_11\_Custom\Install\Install\Mount"

#### 12. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS\_11\_Custom\Install\Install\Mount" -Discard

#### 循环操作区域,结束。

## 13. 重建 Install.wim 后可缩小文件大小

- Install.Rebuild.wim.ps1
  - $o \verb| \Expand Install.Rebuild.wim.ps1| \\$
  - $o \qquad \text{https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Install.Rebuild.wim.ps1} \\$

### • 复制代码

```
$InstallWim = "D:\OS_11\sources\install.wim"
```

 ${\tt Get-WindowsImage-ImagePath~SInstallWim-ErrorAction~SilentlyContinue~|~For Each-Object~\{articles a continuous and a continuous action action and a continuous action act$ 

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

 $Export-Windows Image - Source Image Path \$Install Wim - Source Index \$\_. Image Index - Destination Image Path \$(\$Install Wim). New "- Image Index - Destination Image Path Boundary Foundation Image Path Boundary Foun$ 

CompressionType max | Out-Null

Write-Host "Finish`n" -ForegroundColor Green

}

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

 ${\bf Remove\text{-}Item\text{-}Path\text{\,\$}InstallWim}$ 

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

Write-Host "Finish" -ForegroundColor Green

} else {

- 14. 如何批量替换 Install.wim 里的所有索引号里的 WinRE.wim
  - 14.1. 获取 WimLib

前往 https://wimlib.net 官方网站后,选择不同的版本:arm64, x64, x86, 下载完成后解压到:D:\Wimlib

- 14.2. 如何在 Install.wim 里提取和更新 WinRE.wim
  - 14.2.1. 从 Install.wim 里提取 WinRE.wim 文件 Install.wim
    - Install.WinRE.Replace.wim.ps1
      - o \Expand\Install\Install.WinRE.Replace.wim.ps1
      - o https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Install/Install.WinRE.Replace.wim.ps1
    - 复制代码

```
$Arguments = @(
   "extract",
   "D:\OS_11\sources\install.wim", "1",
   "\Windows\System32\Recovery\Winre.wim",
   "--dest-dir=""D:\OS_11_Custom\Install\Install\Update\Winlib"""
)
New-Item -Path "D:\OS_11_Custom\Install\Install\Update\Winlib" -ItemType Directory -ea SilentlyContinue
```

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

14.2.2. 获取 Install.wim 所有索引号后并替换旧的 WinRE.wim

- Install.WinRE.Replace.wim.ps1
  - o \Expand\Install\Install.WinRE.Replace.wim.ps1
  - o https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Install/Install.WinRE.Replace.wim.ps1
- 复制代码

```
Get-WindowsImage -ImagePath "D:\OS_11\sources\install.wim" -ErrorAction SilentlyContinue | ForEach-Object {

Write-Host " Image name: " -NoNewline; Write-Host $_.ImageName -ForegroundColor Yellow
```

```
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:\OS_11\sources\install.wim", $_.ImageIndex,
    "--command=""add 'D:\OS_11_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
}
```

#### III 自定义部署映像: boot.wim

1. 查看 Boot.wim 文件信息

映像名称、映像描述、映像大小、架构、版本、索引<del>号等</del>;

\$ViewFile = "D:\OS\_11\Sources\Boot.wim"

Get-WindowsImage -ImagePath \$ViewFile | Foreach-Object { Get-WindowsImage -ImagePath \$ViewFile -index \$\_.ImageIndex }

2. 指定挂载 Boot.wim 路径

 $New-Item\ -Path\ "D: \ OS\_11\_Custom \ Boot \ Mount"\ -Item Type\ directory\ -ea\ Silently Continue$ 

3. 开始挂载 Boot.wim

默认索引号: 2

 $Mount-Windows Image - Image Path "D: \OS\_11 \setminus Sources \setminus Sources$ 

4. 语言包

自动安装语言包: 获取"组件:映像中已安装的所有包"后进行匹配,匹配到对应的名称后,再安装本地对应的语言包文件。

4.1. 语言包:添加

- Boot.Instl.lang.ps1
  - o \Expand\Boot\Boot.Instl.lang.ps1
  - https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Boot/Boot.Instl.lang.p
- 复制代码

\$Mount = "D:\OS\_11\_Custom\Boot\Boot\Mount"

\$Sources = "D:\OS\_11\_Custom\Boot\Boot\Language\Add\zh-CN"

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```
$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 $($Sources)\$($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
```

## 4.2. 脱机映像语言: 更改

### 4.2.1. 更改默认语言、区域设置和其他国际设置

区域标记: zh-CN

Dism /Image: "D:\OS\_11\_Custom\Boot\Boot\Mount" /Set-AllIntl:zh-CN

#### 4.2.2. 查看可用的语言设置

Dism /Image: "D:\OS\_11\_Custom\Boot\Boot\Mount" /Get-Intl

#### 4.3. 语言包:删除,可选

- 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。删除语言时,请按与添加语言组件相反的顺序卸载语言组件。
- 添加中文后,反向删除"英语-美国",区域: en-US, 需提前提取语言包
- Boot.Del.Specified.lang.Tag.ps1
  - o \Expand\Boot\Boot.Del.Specified.lang.Tag.ps1
  - o https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Boot/Boot/Boot.Del.S pecified.lang.Tag.ps1

## • 复制代码

```
$Lang = "en-US"
$Mount = "D:\OS_11_Custom\Boot\Boot\Mount"
$Sources = "D:\OS_11_Custom\Boot\Boot\Language\Del\en-US"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
$Language = @(
 @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab";}
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab";}
```

```
@{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-$($Lang).cab"; }
 @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-$($Lang).cab"; }
 @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Client-LanguagePack_Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_$($Lang).cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: " -NoNewline; Write-host $Component -ForegroundColor Green
     Write-host " Language pack file: "-NoNewline; Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
       Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -ErrorAction SilentlyContinue | Out-
Null
      Write-host "Finish" -ForegroundColor Green
     } catch {
      Write-host "Failed" -ForegroundColor Red
       Write-host " $($_)" -ForegroundColor Red
     break
$InitlClearLanguagePackage = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 if ($_.PackageName -like "*$($Lang)*") {
   $InitlClearLanguagePackage += $_.PackageName
```

```
if ($InitlClearLanguagePackage.count -gt 0) {

ForEach ($item in $InitlClearLanguagePackage) {

Write-Host "`n $($item)" -ForegroundColor Green

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

try {

Remove-AppxProvisionedPackage -Path $Mount -PackageName $item -ErrorAction SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green
} catch {

Write-host "Failed" -ForegroundColor Red

Write-host " $($__)" -ForegroundColor Red
}
}
```

#### 4.4. 组件:映像中已安装的所有包

#### 4.4.1. 查看

 $Get-WindowsPackage - Path "D: \OS\_11\_Custom \Boot \Boot \Mount" \mid Out-Grid View$ 

## 4.4.2. 导出到 Csv

\$SaveTo = "D:\OS\_11\_Custom\Boot\Boot\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS\_11\_Custom\Boot\Boot\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

# 4.5. 语言包: 修复

### 4.5.1. 提取

打开: D:\OS\_11\_Custom\Install\Language\Add\zh-CN\Microsoft-Windows-Client-Language-Pack\_x64\_zh-CN\Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Microsoft-Windows-Micros

4.5.1.1. arunres.dll.mui

4.5.1.2. spwizres.dll.mui

4.5.1.3. w32uires.dll.mui

## 4.5.2. 复制

将提取的文件复制到: D:\OS\_11\_Custom\Boot\Boot\Mount\sources\zh-CN

CN.cab, 进入目录: Setup\sources\zh-cn\cli, 复制以下文件到桌面:

#### 4.6. 语言包: 同步到 ISO 安装程序

Copy-Item -Path "D:\OS\_11\_Custom\Boot\Boot\Mount\sources\zh-CN" -Destination "D:\OS\_11\sources\zh-CN" -Recurse - Force

#### 4.7. 重新生成 Lang.ini

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。

#### 4.7.1. 重新生成已挂载目录 lang.ini

重新生成的 Lang.ini 文件位置: D:\en-

 $us\_windows\_server\_2022\_x64\_dvd\_620d7eac\_Custom \\ \ Boot\\ \ Mount\\ \ Sources\\ \ lang.ini$ 

#### 4.7.2. 重新生成 lang.ini 后,同步到安装程序

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:\OS\_11\_Custom\Boot\Boot\Mount" /gen-langini /distribution:"D:\OS\_11"

### 5. 累积更新,可选

准备可用的累积更新文件,请更改示例文件名: KB\_Boot.cab

### 5.1. 添加

 $KBPath = "D:\OS_11\_Custom\Boot\Boot\Update\KB\_Boot.cab"$ 

Add-WindowsPackage -Path "D:\OS\_11\_Custom\Boot\Boot\Mount" -PackagePath \$KBPath

# 5.2. 删除

 $KBPath = "D:\OS_11\_Custom\Boot\Boot\Update\KB\_Boot.cab"$ 

Remove-WindowsPackage -Path "D:\OS\_11\_Custom\Boot\Boot\Mount" -PackagePath \$KBPath

## 5.3. 固化更新,可选项

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

 $\label{lem:limit} Dism\/image: "D:\OS\_11\_Custom\/Boot\/Boot\/Mount"\/cleanup-image\/StartComponentCleanup\/ResetBase$ 

## 5.3.1. 固化更新后清理组件,可选项



```
$Mount = "D:\OS_11_Custom\Boot\Boot\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
   }
}
```

#### 6. 驱动,可选

#### 7. 其它

#### 7.1. 绕过 TPM 安装时检查

- Boot.Bypass.TPM.ps1
  - o \Expand\Boot\Boot.Bypass.TPM.ps1
  - https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/Boot/Boot.Bypass.TP
     M.ps1

#### 复制代码

\$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

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\ -Argument List\ "unload\ ""HKLM\ (\$RandomGuid)"""\ -Wait\ -WindowStyle\ Hidden\ -Error Action\ Silently Continue\ -Wait\ -WindowStyle\ Hidden\ -Error Action\ Silently Continue\ -Wait\ -Wait\$ 

Remove-PSDrive -Name OtherTasksTPM

DWord -Force -ea SilentlyContinue | Out-Null

### 8. 保存映像

Save-WindowsImage -Path "D:\OS\_11\_Custom\Boot\Boot\Mount"



#### 9. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS\_11\_Custom\Boot\Boot\Mount" -Discard

#### Ⅳ 部署引擎

- 了解"自动添加 Windows 系统已安装的语言",学习:https://github.com/ilikeyi/Multilingual,如何下载:
  - 进入网站后,点击 "代码", "下载压缩包",下载完成后得到 main.zip 压缩包文件。
  - 前往 https://github.com/ilikeyi/Multilingual/releases 下载页面,选择可用版本: 1.1.0.4,选择下载源代码格式: zip,下载完成后得到 Multilingual-1.1.0.4.zip 压缩包文件;
- 将已下载的 main.zip 或 Multilingual-1.1.0.4.zip,解压到:D:\Multilingual-1.1.0.4,重命名:D:\Multilingual
- 学习"无人值守 Windows 安装参考",通过无人值守来干预安装过程。
- 1. 添加方式
  - 1.1. 添加到 ISO 安装介质
    - 1.1.1. 无人值守
      - 1.1.1.1. 添加到: [ISO]:\Autounattend.xml

引导 ISO 安装时,Autounattend.xml 干预 WinPE 安装程序。

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS\_11\Autounattend.xml

 $\label{lem:copy-ltem:def} \begin{tabular}{ll} Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS\_11\Autounattend.xml" -Destination "D:\$ 

1.1.1.2. 添加到: [ISO]:\Sources\Unattend.xml

挂载或解压 ISO 时,运行 [ISO]:\Setup.exe 安装程序后,[ISO]:\Sources\Unattend.xml 将干预安装过程。

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS\_11\Sources\Unattend.xml

 $\label{lem:copy-lem:def} \begin{tabular}{ll} $$\operatorname{Copy-Item "D:\OS_11\Sources\setminusUnattend.xml" - Destination "D:\OS_11\Sources\cupUnattend.xml" - Destination "D:\OS_$ 

1.1.1.3. 添加到: [ISO]:\sources\\$OEM\$\\$\$\Panther\unattend.xml

安装过程中复制到系统盘里,复制到:{系统盘}:\Windows\Panther\unattend.xml

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#### 1.1.1.3.1. 创建 \$OEM\$ 路径

New-Item -Path "D:\OS\_11\sources\`\$OEM\$\`\$\$\Panther" -ItemType Directory

#### 1.1.1.3.2. 复制

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到

D:\OS\_11\Sources\\$OEM\$\Panther\Unattend.xml

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS\_11\sources\`\$OEM\$\`\$\$\Panther\Unattend.xml" -Force

## 1.1.2. 部署引擎:添加

添加 "自动添加 Windows 系统已安装的语言" 到 D:\OS\_11\sources\\$OEM\$\\$1\Yi\Engine 目录里。

#### 1.1.2.1. 部署引擎: 复制

复制 D:\Multilingual\Engine 到 D:\OS\_11\Sources\\$OEM\$\\$1\Yi\Engine

Copy-Item "D:\Multilingual\Engine" -Destination "D:\OS\_11\sources\`\$OEM\$\`\$1\Yi\Engine" -Recurse - Force

## 1.1.2.2. 部署引擎: 自定义部署标记

\$Flag = @(

"Is\_Mark\_Sync" # 允许全盘搜索并同步部署标记

# 先决部署

- # "Auto\_Update" # 允许自动更新
- # "Use\_UTF8" # Beta 版:使用 Unicode UTF-8 提供全球语言支持

"Disable\_Network\_Location\_Wizard" # 网络位置向导

"Disable\_Cleanup\_Appx\_Tasks" # Appx 清理维护任务

"Disable\_Cleanup\_On\_Demand\_Language" # 阻止清理未使用的按需功能语言包

"Disable\_Cleanup\_Unsed\_Language" # 阻止清理未使用的语言包

"Prerequisites\_Reboot"#重新启动计算机

#完成首次部署

- # "Popup\_Engine" # 允许首次弹出部署引擎主界面
- # "Allow\_First\_Pre\_Experience" # 允许首次预体验,按计划

"Reset\_Execution\_Policy" # 恢复 PowerShell 执行策略: 受限

"Clear\_Solutions"#删除整个解决方案



```
"Clear_Engine"#删除部署引擎,保留其它

# "First_Experience_Reboot"#重新启动计算机
)

ForEach ($item in $Flag) {
    Write-host " $($item)" -ForegroundColor Green
    New-Item -Path "D:\OS_11\sources\`$OEM$\`$1\Yi\Engine\Deploy\Allow" -ItemType Directory -
    ErrorAction SilentlyContinue | Out-Null
    Out-File -FilePath "D:\OS_11\sources\`$OEM$\`$1\Yi\Engine\Deploy\Allow\$($item)" -Encoding utf8 -
    ErrorAction SilentlyContinue
}
```

#### 1.2. 添加到已挂载

通过"自定义部署映像: Install.wim",执行"开始挂载 Install.wim",挂载到: D:\OS\_11\_Custom\Install\Install\Mount

#### 1.2.1. 无人值守

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS\_11\_Custom\Install\Install\Mount\Panther\Unattend.xml

 $\label{lem:copy-lem$ 

### 1.2.2. 部署引擎

添加 "自动添加 Windows 系统已安装的语言" 到 D:\OS\_11\_Custom\Install\Install\Mount\Yi\Engine 目录里。

# 1.2.2.1. 部署引擎: 复制

复制 D:\Multilingual\Engine 到 D:\OS\_11\_Custom\Install\Install\Mount\Yi\Engine

Copy-Item "D:\Multilingual\Engine" -Destination "D:\OS\_11\_Custom\Install\Install\Mount\Yi\Engine" - Recurse -Force

### 1.2.2.2. 部署引擎: 自定义部署标记

\$Flag = @(

"Is\_Mark\_Sync" # 允许全盘搜索并同步部署标记

# 先决部署

- # "Auto\_Update" # 允许自动更新
- # "Use\_UTF8" # Beta 版:使用 Unicode UTF-8 提供全球语言支持

"Disable\_Network\_Location\_Wizard" # 网络位置向导

"Disable\_Cleanup\_Appx\_Tasks" # Appx 清理维护任务

"Disable\_Cleanup\_On\_Demand\_Language" # 阻止清理未使用的按需功能语言包

```
"Disable_Cleanup_Unsed_Language" # 阻止清理未使用的语言包

"Prerequisites_Reboot" # 重新启动计算机

# 完成首次部署

# "Popup_Engine" # 允许首次弹出部署引擎主界面

# "Allow_First_Pre_Experience" # 允许首次预体验,按计划

"Reset_Execution_Policy" # 恢复 PowerShell 执行策略: 受限

"Clear_Solutions" # 删除整个解决方案

"Clear_Engine" # 删除部署引擎,保留其它

# "First_Experience_Reboot" # 重新启动计算机
)

ForEach ($item in $Flag) {

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

New-Item -Path "D:\OS_11_Custom\Install\Install\Mount\Yi\Engine\Deploy\Allow" -ItemType Directory-ErrorAction SilentlyContinue | Out-Null

Out-File -FilePath "D:\OS_11_Custom\Install\Install\Mount\Yi\Engine\Deploy\Allow\$($item)" -Encoding utf8 -ErrorAction SilentlyContinue
}
```

#### 2. 部署引擎:进阶

2.1. 部署引擎:添加过程中

在复制部署引擎后,可添加部署标记来干预安装过程。

## 2.2. 无人值守方案

自定义无人值守时,以下文件存在时请同步修改:

- D:\OS\_11\Autounattend.xml
- D:\OS\_11\Sources\Unattend.xml
- D:\OS\_11\sources\\$OEM\$\\$\$\Panther\unattend.xml
- D:\OS\_11\_Custom\Install\Install\Mount\Panther\Unattend.xml

## 2.2.1. 多语言或单语

多语言时,单语时,可互相切换,替换时,请替换文件里所有相同的。

# 2.2.1.1. 多语言

<UILanguage>%OSDUILanguage%</UILanguage>

<InputLocale>%OSDInputLocale%</inputLocale>

<SystemLocale>%OSDSystemLocale%</SystemLocale>

<UILanguage>%OSDUILanguage%</UILanguage>

<UserLocale>%OSDUserLocale%</UserLocale>

#### 2.2.1.2. 单语

#### 单语需指定区域,例如指定区域: zh-CN

- <UILanguage>zh-CN</UILanguage>
- <InputLocale>zh-CN</InputLocale>
- <SystemLocale>zh-CN</SystemLocale>
- <UILanguage>zh-CN</UILanguage>
- <UILanguageFallback>zh-CN</UILanguageFallback>
- <UserLocale>zh-CN</UserLocale>

#### 2.2.2. 用户方案

默认使用自建用户 Administrator 并自动登录,可通过修改以下配置切换:自建、自定义用户。

#### 2.2.2.1. 自建用户 Administrator

默认使用自建用户: Administrator并自动登录,插入到 <OOBE> 和 </OOBE> 之间。

<UserAccounts>

<LocalAccounts>

<LocalAccount wcm:action="add">

<Password>

<Value></Value>

<PlainText>true</PlainText>

</Password>

<Description>Administrator/Description>

<DisplayName>Administrator</DisplayName>

<Group>Administrators</Group>

<Name>Administrator</Name>

</LocalAccount>

</LocalAccounts>

</UserAccounts>

<AutoLogon>

<Password>

<Value></Value>

<PlainText>true</PlainText>

</Password>

<Enabled>true</Enabled>

<use><Username>Administrator</Username>

</AutoLogon>



#### 2.2.2.2. 自定义用户

设置自定义用户后,安装系统完成后,在 OOBE 里,可选择本地、在线用户等设置。

#### 2.2.2.2.1. 删除

用户名:从开始处删除 <UserAccounts>到 </UserAccounts>

自动登录:从开始处删除 < AutoLogon > 到 < / AutoLogon >

#### 2.2.2.2.2. 替换

从开始处 <OOBE> 到 </OOBE>

<OOBE>

<ProtectYourPC>3</ProtectYourPC>

<hid><hideEULAPage>true</hideEULAPage></hideEULAPage>

<HideWirelessSetupInOOBE>true</HideWirelessSetupInOOBE>

</OOBE>

#### D. ISO

- II 生成 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
    - ISO.ps1
      - o \Expand\ISO.ps1
      - o https://github.com/ilikeyi/solutions/blob/main/\_Documents/Attachment/OS.11/22H2/Expand/ISO.ps1
    - 复制代码

```
$ISO = "D:\OS_11"

$Volume = "OS_11"

$SaveTo = "D:\OS_11.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
```

### Ⅲ 绕过 TPM 安装检查,可选

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:\OS\_11.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。

## 章节 2 常见问题

## II 清理所有挂载到

#### 关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS\_11\_Custom\Install\Install\Mount" -Discard

 $\label{lem:linear_loss} Dismount-Windows Image - Path "D: \OS\_11\_Custom \Install \WinRE \Mount" - Discard$ 

Dismount-WindowsImage -Path "D:\OS\_11\_Custom\Boot\Boot\Mount" -Discard

## III 修复挂载出现异常的问题

## 1. 查看已挂载

Get-WindowsImage -Mounted

#### 2. 删除保存在注册表里的 DISM 挂载记录

Remove-Item -Path "HKLM:\SOFTWARE\Microsoft\WIMMount\Mounted Images\\*" -Force -Recurse -ErrorAction SilentlyContinue | Out-Null

## 3. 删除与已损坏的已装载映像关联的所有资源。

 ${\it Clear-WindowsCorruptMountPoint}$ 

Dism /cleanup-wim

## Ⅳ 清理目录

Remove-Item "D:\OS\_11\_Custom" -Force -Recurse

Remove-Item "D:\OS\_11\Sources\`\$OEM\$" -Force -Recurse

Remove-Item -Path "D:\OS\_11\Autounattend.xml" -Force

## 章节3 已知问题

暂无

## 章节4 组告

- 编组缩写:
  - 群组 A: Windows 11 教育版、Windows 11 企业版、Windows 11 专业版、Windows 11 专业教育版、Windows 11 专业版工作站、Windows 11 loT 企业版
  - 群组 B: Windows 11 教育版 N、Windows 11 企业版 N、Windows 11 专业版 N、Windows 11 专业教育版 N、Windows 11 专业版工作站 N
  - 群组 C: Windows 11 家庭版、Windows 11 家庭单语版
  - 群组 D: Windows 11 家庭版 N
- 标注绿色,已安装;未标注绿色:未安装。

## II 不同版本

序号	名称	Α	В	С	D
1	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.22621.382				
1	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317				
	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~~10.0.22621.1				
2	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1				
3	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
3	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1				
4	Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.317				
5	Microsoft-OneCore-DirectX-Database-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
6	Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.382				
7	Microsoft-Windows-Ethernet-Client-Intel-E1i68x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
8	Microsoft-Windows-Ethernet-Client-Intel-E2f68-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
9	Microsoft-Windows-Ethernet-Client-Realtek-Rtcx21x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
10	Microsoft-Windows-Ethernet-Client-Vmware-Vmxnet3-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
11	Microsoft-Windows-FodMetadata-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
12	Microsoft-Windows-Foundation-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
13	Microsoft-Windows-Hello-Face-Package~31bf3856ad364e35~amd64~~10.0.22621.317				
14	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.22621.1				

序号	名称						
	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~en-US~11.0.22621.1						
15	Microsoft-Windows-Kernel-LA57-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382						
16	Microsoft-Windows-LanguageFeatures-Basic-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
17	Microsoft-Windows-LanguageFeatures-Handwriting-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
18	Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
19	Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
20	Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
21	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1  Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1						
22	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1  Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1						
23	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1  Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1						
24	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~~10.0.22621.1  24  Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1						
25	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~~10.0.22621.1  Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1						
26	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~~10.0.22621.1  Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1						
27	Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
28	Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
29	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
30	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
31	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
32	Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
33	Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
34	Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
35	Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
36	Microsoft-Windows-Wifi-Client-Intel-Netwns64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1						
37	Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1						

序号	名称					
38	Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
39	Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
40	Microsoft-Windows-Wifi-Client-Intel-Netwtw06-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
41	Microsoft-Windows-Wifi-Client-Intel-Netwtw08-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
42	Microsoft-Windows-Wifi-Client-Intel-Netwtw10-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
43	Microsoft-Windows-Wifi-Client-Marvel-Mrvlpcie8897-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
44	Microsoft-Windows-Wifi-Client-Qualcomm-Athw8x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
45	Microsoft-Windows-Wifi-Client-Qualcomm-Athwnx-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
46	Microsoft-Windows-Wifi-Client-Qualcomm-Qcamain10x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
47	Microsoft-Windows-Wifi-Client-Ralink-Netr28x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
48	Microsoft-Windows-Wifi-Client-Realtek-Rtl8187se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
49	49 Microsoft-Windows-Wifi-Client-Realtek-Rtl8192se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
50	Microsoft-Windows-Wifi-Client-Realtek-Rtl819xp-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
51	Microsoft-Windows-Wifi-Client-Realtek-Rtl85n64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
52	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
53	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
54	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane13-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
55	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382  55  Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621					
56	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1  Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1					
57	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.317  Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1					
58	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1  Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1					
59	OpenSSH-Client-Package~31bf3856ad364e35~amd64~~10.0.22621.1					
60	Package_for_DotNetRollup_481~31bf3856ad364e35~amd64~~10.0.9065.6					
61	Package_for_RollupFix~31bf3856ad364e35~amd64~~22621.382.1.13					
62	Package_for_ServicingStack_378~31bf3856ad364e35~amd64~~22621.378.1.0					

## III 语言安装包适用于: Install.wim

序号	语言包安装文件、对应程序包名	А	В	С	D
1	Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab  Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1				
2	Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab  Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1				
3	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab  Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1				
4	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~AMD64~~.cab  Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
5	Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab  Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1				
6	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~zh-CN~.cab  Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~zh-CN~11.0.22621.1				
7	Microsoft-Windows-LanguageFeatures-Basic-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab  Microsoft-Windows-LanguageFeatures-Basic-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
8	Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab  Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
9	Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab  Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
10	Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab  Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
11	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab  Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1				
12	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab  Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1				
13	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab  Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1				
14	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab  Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1				
15	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~.cab  Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1				
16	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~zh-CN~.cab  Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1				

序号	语言包安装文件、对应程序包名	А	В	С	D
17	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab				
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1				
18	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab				
10	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1				
10	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab				
19	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1				
20	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab				
20	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1				
04	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab				
21	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1				

# IV 语言安装包适用于: WinRE.wim

Sn	类型	语言包安装文件、对应程序包名
1	Fonts	WinPE-FontSupport-zh-CN.cab  Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.22621.1
2	Language pack	lp.cab  Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
3	Feature Pack	winpe-appxdeployment_zh-CN.cab  WinPE-AppxDeployment-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
4	Feature Pack	winpe-appxpackaging_zh-CN.cab  WinPE-AppxPackaging-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
5	Feature Pack	winpe-atbroker_zh-CN.cab  WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
6	Feature Pack	winpe-audiocore_zh-CN.cab  WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
7	Feature Pack	winpe-audiodrivers_zh-CN.cab  WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
8	Feature Pack	winpe-enhancedstorage_zh-CN.cab  WinPE-EnhancedStorage-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
9	Feature Pack	winpe-hta_zh-CN.cab  WinPE-HTA-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
10	Feature Pack	winpe-narrator_zh-CN.cab

Sn	类型	语言包安装文件、对应程序包名
		WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
11	Feature Pack	winpe-opcservices_zh-CN.cab  WinPE-OpcServices-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
12	Feature Pack	winpe-rejuv_zh-CN.cab  WinPE-Rejuv-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
13	Feature Pack	winpe-scripting_zh-CN.cab  WinPE-Scripting-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
14	Feature Pack	winpe-securestartup_zh-CN.cab  WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
15	Feature Pack	winpe-speech-tts_zh-CN.cab  WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
16	Feature Pack	winpe-srh_zh-CN.cab WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
17	Feature Pack	winpe-srt_zh-CN.cab  WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
18	Feature Pack	winpe-storagewmi_zh-CN.cab  WinPE-StorageWMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
19	Feature Pack	winpe-wds-tools_zh-CN.cab  WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
20	Feature Pack	winpe-wifi_zh-CN.cab  WinPE-WiFi-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
21	Feature Pack	winpe-windowsupdate_zh-CN.cab  WinPE-WindowsUpdate-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
22	Feature Pack	winpe-wmi_zh-CN.cab  WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

# V 语言安装包适用于: Boot.wim

Sn	类型	语言包安装文件、对应程序包名
1	Fonts	WinPE-FontSupport-zh-CN.cab  Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.22621.1
2	Language pack	lp.cab  Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

Sn	类型	语言包安装文件、对应程序包名
3	Feature Pack	winpe-atbroker_zh-CN.cab  WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
4	Feature Pack	winpe-audiocore_zh-CN.cab  WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
5	Feature Pack	winpe-audiodrivers_zh-CN.cab  WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
6	Feature Pack	winpe-enhancedstorage_zh-CN.cab  WinPE-EnhancedStorage-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
7	Feature Pack	winpe-narrator_zh-CN.cab  WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
8	Feature Pack	winpe-scripting_zh-CN.cab  WinPE-Scripting-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
9	Feature Pack	winpe-securestartup_zh-CN.cab  WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
10	Feature Pack	WINPE-SETUP-CLIENT_zh-CN.CAB  WinPE-Setup-Client-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
11	Feature Pack	WinPE-Setup_zh-CN.cab WinPE-Setup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
12	Feature Pack	winpe-speech-tts_zh-CN.cab  WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
13	Feature Pack	winpe-srh_zh-CN.cab WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
14	Feature Pack	winpe-srt_zh-CN.cab WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
15	Feature Pack	winpe-wds-tools_zh-CN.cab  WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
16	Feature Pack	winpe-wmi_zh-CN.cab WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

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建议或反馈: https://github.com/ilikeyi/solutions/issues

