

MICROSOFT WINDOWS 11 22H2

封装教程: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 4

章节1 封装

A. 先决条件

II 正在运行的操作系统

正在运行的操作系统是 Windows 10 或者低于 Windows 11 24H2 时,在某些情况下使用 DISM 命令在制作高版本镜像时,会引发一些未知的问题,例如:在 Windows 10 操作系统里运行 DISM 命令来处理 Windows Server 2025 脱机映像时,在封装过程中也许会收到报错信息:"此应用无法在你的电脑运行",解决方法:

- 1. 升级正在运行的操作系统或重新安装到更高的版本 (建议);
- 2. 升级或安装新版 ADK 或 PowerShell 版本 (不建议)
 - 2.1. 可尝试升级到最新 PowerShell 7以上的版本;
 - 2.2. 安装最新版 ADK 后并替换 DISM 命令后能解决 DISM 版本低的问题,但是:封装脚本主要使用的命令行是 PowerShell 命令行,所以不建议你使用以上方法,最佳的方法是:升级正在运行的操作系统或重新安装到更高的版本。

Ⅲ ISO工具

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

Ⅳ 要求

1. 系统安装包

关键词: 迭代、跨版本、大版本、累积更新、初始版本

1.1. 说明

- 1.1.1. 每版本更新时请重新制作镜像,例如从 21H1 跨越到 22H2 时,应避免出现其它兼容性问题请勿在旧镜像基础上制作;
- 1.1.2. 该条例已经在某些 OEM 厂商,通过各种形式向封装师明确传达了该法令,不允许直接从迭代版本里直接升级;
- 1.1.3. 制作中请使用"初始版本"、"开发者版"制作。微软官方文档里曾短暂的出现过在制作中必须使用初始版本,后来这句在官方文档里却被删除了;
- 1.1.4. 安装语言包后,必须重新添加累积更新(可同一版本号),不添加累积更新会出现"乱码"、"界面闪退"等问题。
- 1.1.5. 进化过程: Windows 11 22H2, Build 22261.382 + KB5027303 = OS Build 22621.1928

1.2. 准备下载初始版本或开发者版本

1.2.1. x64

 $\textbf{1.2.1.1.} \qquad \text{en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08ce3.iso}$

- **1.2.1.2.** en-us_windows_11_consumer_editions_version_22h2_x64_dvd_e630fafd.iso
- **1.2.1.3.** en-us_windows_11_iot_enterprise_version_22h2_x64_dvd_eb39bf70.iso
- 1.2.2. arm64
 - 1.2.2.1. en-us_windows_11_iot_enterprise_version_22h2_arm64_dvd_f09f5d29.iso
- 1.3. 示例下载 en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08ce3.iso 后,解压到: D:\en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08c

注意:解压到 D 盘前,你应该检查是否 ReFS 分区格式,如果是 ReFS 分区格式时:执行部分命令将出现异常。解决方法:请使用 NTFS 格式的磁盘分区。

- 1.4. 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
- 1.5. 所有脚本、所有路径,已默认设置为 D:\OS_11 为映像来源。
- 1.6. 安装配置
 - 1.6.1. 学习: Windows 安装版配置和产品 ID 文件 (El.cfg 和 PID.txt)
 - 1.6.2. 已知问题
 - 1.6.2.1. 没有 Ei.cfg 时,ISO 引导安装,选择某些版本时会报错,提示: Windows 找不到 Microsoft 软件许可条款。 请确保安装源有效。然后重新启动安装。
 - 1.6.2.2. 如何解决,添加 ei.cfg 到 D:\OS_11\Sources 里,创建 ei.cfg:

@"

[Channel]

volume

[VL]

1

"@ | Out-File -FilePath "D:\OS_11\sources\EI.CFG" -Encoding Ascii

1.7. 报告

查看映像包里已安装:语言包、已关联的语言包组件、预安装 InBox Apps 应用程序等详细信息,下载报告后,使用 Excel 软件打开 .xlsx。

1.7.1. 报告:总览

包含: ISO 系统安装包、映像版本、区域、区域关联、已关联的语言包组件等。

Report.Overview.xlsx



1.7.2. 报告: 完整

包容: ISO 系统安装包、映像版本、区域、区域关联、已关联的语言包组件、已安装 InBox Apps 预安装应用程序等。 en-us、ar-sa、bg-bg、cs-cz、da-dk、de-de、el-gr、en-gb、es-es、es-mx、et-ee、fi-fi、fr-ca、fr-fr、he-il、hr-hr、hu-hu、it-it、ja-jp、ko-kr、lt-lt、lv-lv、nb-no、nl-nl、pl-pl、pt-br、pt-pt、ro-ro、ru-ru、sk-sk、sl-si、sr-latn-rs、sv-se、th-th、tr-tr、uk-ua、zh-cn、zh-tw

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。

已知区域关联:

- 2.1.3.2.1. 区域: ar-sa, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.1.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.1.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.2. 区域: bg-bg, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.2.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.2.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-

2.1.3.2.3. 区域: da-dk, 可选关联区域: en-US, 关联安装包:

- 2.1.3.2.3.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.3.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab

2.1.3.2.4. 区域: el-gr, 可选关联区域: en-US, 关联安装包:

- 2.1.3.2.4.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.4.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab

2.1.3.2.5. 区域: fr-ca, 可选关联区域: en-US、fr-fr, 关联安装包:

- 2.1.3.2.5.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.5.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.5.3. Microsoft-Windows-LanguageFeatures-Basic-fr-fr-Package~31bf3856ad364e35~amd64~~.cab
- $2.1.3.2.5.4. Microsoft-Windows-Language Features-Handwriting-fi-fi-\\ Package \sim 31bf3856ad364e35 \sim amd64 \sim \sim .cab$

2.1.3.2.6. 区域: he-il, 可选关联区域: en-US, 关联安装包:

- 2.1.3.2.6.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.6.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab

2.1.3.2.7. 区域: ru-ru, 可选关联区域: en-US, 关联安装包:

- 2.1.3.2.7.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.7.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab

2.1.3.2.8. 区域: th-th, 可选关联区域: en-US, 关联安装包:

2.1.3.2.8.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab

- 2.1.3.2.8.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.9. 区域: uk-ua, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.9.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.9.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.10. 区域: zh-TW, 可选关联区域: zh-HK, 关联安装包:
 - 2.1.3.2.10.1. Microsoft-Windows-LanguageFeatures-Basic-zh-hk-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.10.2. Microsoft-Windows-LanguageFeatures-Speech-zh-hk-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.10.3. Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-hk-Package~31bf3856ad364e35~amd64~~.cab

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:

- 查看"报告: Windows 11 23H2"脱机映像语言列表,并未发现有此程序包;
- 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

https://software-static.download.prss.microsoft.com/dbazure/988969d5-f34g-4e03-ac9d-1f9786c66749/22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso

- 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
- 2.3.1.3. https://osdump.com
- 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)
 - 2.3.4.1.1. MediaPlayer
 - 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: https://software-static.download.prss.microsoft.com/dbazure/888969d5-f34g-4e03-ac9d-1f9786c66749/22621.1778.230511-2102.ni_release_svc_prod3_amd64fre_InboxApps.iso
 - 3.2. 下载: https://software-static.download.prss.microsoft.com/dbazure/988969d5-f34g-4e03-ac9d-1f9786c66749/22621.1.220506-1250.ni_release_amd64fre_InboxApps.iso 后,提取:
 - 3.2.1. Microsoft.HEVCVideoExtension
 - 3.2.1.1. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.arm64.appx
 - 3.2.1.2. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.arm64.xml
 - 3.2.1.3. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.appx
 - 3.2.1.4. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.xml
 - (ISO]:\packages 目录里;
- V Windows 安全中心
 - 在处理封装任务时,将产生大量的临时文件,安装 InBox Apps 里的应用时会释放大量的安装文件;

- 开启 Windows 安全中心会扫描文件、会占用大量的 CPU。
- 测试中:未关闭前耗时1小时22分,关闭后耗时20分钟。

如何关闭:

绿色为命令行,按住Windows键并按R键启动"运行"。

- 1. 打开"Windows 安全中心"或运行:windowsdefender:
- 2. 选择"病毒和威胁防护"或运行: windowsdefender://threat
- 3. 找到"病毒和威胁防护设置",点击"管理设置"或运行: windowsdefender://threatsettings,建议您关闭部分功能:
 - 3.1. 实时保护
 - 3.2. 云提供的保护
 - 3.3. 自动提交样本
 - 3.4. 篡改防护
- 4. 未处于封装时,建议您开启 Windows 安全中心。

VI 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:

Set-ExecutionPolicy - ExecutionPolicy Bypass - 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,带冒号的路径,在命令 行添加 & 字符,示例:& "D:\YiSolutions_Encapsulation_SIP.ps1"
- 3. 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
 - o \Expand\Extract.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/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"; "Install\WinRE"; "Boot\Boot" ) }
    @{Tag = "en-US"; Act = "Del"; 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-JO", "ar-KM", "ar-KW", "ar-LB", "ar-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", "ps-Arab", "pa-Arab", "pa-Arab-PK", "pnb-Arab", "prs-AF", "prs-Arab", "ps-AF", "sd-Arab", "ks-Arab", "ks-Arab", "ks-Arab", "ks-Arab", "prs-Arab", "prs-Arab", "ps-AF", "sd-Arab", "ps-Arab", "ps-Arab",
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", "birx-IN", "hi", "ks-Deva", "mai", "mr", "mr-IN", "ne-IN", "ne-NP", "ne-NP", "new-Deva", "pi-Deva", "sa",
```

```
@{ Match = @("am", "am-ET", "byn", "byn-ER", "ti-ER", "ti-ER", "tig-ER", "tig-ER", "tig-Ethi", "ve-Ethi", "wal-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", "yue-Hans", "zh-gan-Hans", "zh-hak-Hans", "zh-Hans", "zh-sG", "zh-wuu-
Hans", "zh-yue-Hans"); Name = "Hans"; }
     @{ Match = @("zh-TW", "cmn-Hant", "hak-Hant", "lzh-Hant", "zh-hak-Hant", "zh-Hant", "zh-HK", "zh-lzh-Hant", "zh-MO", "zh-yue-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, $NewSaveTo )
 \ensuremath{\mbox{NewSaveTo}}\ = "$($SaveTo)\$($NewSaveTo)\Language\$($Act)\$($NewLang)"
 New-Item -Path $NewSaveTo -ItemType Directory -ErrorAction SilentlyContinue | Out-Null
 if ($ISO -eq "Auto") {
   ForEach ($item in $Package) {
      $TempFilePath = Join-Path -Path $_.Root -ChildPath $item -ErrorAction SilentlyContinue
      if (Test-Path $TempFilePath -PathType Leaf) {
        Write-host "`n Find: " -NoNewLine; Write-host $TempFilePath -ForegroundColor Green
        Write-host " Copy to: " -NoNewLine; Write-host $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 = @(
                          "Languages And Optional Features \verb|\Microsoft-Windows-LanguageFeatures-Fonts-{DiyLang}| -Package \verb|\Ambigages-Ambigages-Boundard-Fonts-{DiyLang}| -Package \verb|\Ambigages-Boundard-Fonts-{DiyLang}| -Package \verb|\Ambigages-Boun
                          "Languages And Optional Features \verb|\Microsoft-Windows-Client-Language-Pack_x64_{\{Lang\}.cab}"
                          "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Basic-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
                          "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-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
                          "Languages And Optional Features \verb|\Microsoft-Windows-Notepad-System-FoD-Package \verb|\algoes|| 31bf3856ad364e35 \verb|\algoes|| AMD64 \verb|\algoes|| 4.cab \verb|\algoe
                          "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"
                          "Languages And Optional Features \verb|\Microsoft-Windows-Printing-PMCPPC-FoD-Package \verb|\algoes|| 31bf3856ad364e35 \verb|\algoes|| AMD64 \verb|\algoes|| 4.cab \verb|\algo
                           "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
                          "Languages And Optional Features \verb|\Microsoft-Windows-StepsRecorder-Package"| 31bf3856ad364e35 \verb|\www64"| 4cmg | 2cm |
                           "LanguagesAndOptionalFeatures\Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
                          "Languages And Optional Features \verb|\Microsoft-Windows-WMIC-FoD-Package<| 31bf3856ad364e35<| wow64<| Langles | Languages | La
                           "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-hta_{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-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-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"
$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
```

For Each (\$item in \$Extract_language_Pack) { Extract_Language -Act \$item.Act -NewLang \$item.Tag -Expand \$item.Scope }

C. 自定义封装

II 自定义封装: 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 SilentlyContinue

3. 开始挂载 Install.wim

默认索引号: 1

 $Mount-Windows Image - Image Path "D: \OS_11 \setminus Sources \setminus Image Path "D: \OS_11_Custom \setminus Imstall \setminus Imstall$

处理 Install.wim 映像内的文件,可选项,开始,

3.1. 自定义封装: 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;

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

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

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

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,查看报告"语言安装包适用于WinRE.wim"。
- 添加语言时,须对应不同的架构版本,未对应时,添加过程中报错等提示。

3.1.4.1. 语言包:添加

- WinRE.Instl.lang.ps1
 - o \Expand\Install\WinRE\WinRE.Instl.lang.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Inst all/WinRE/WinRE.Instl.lang.ps1

• 复制代码

```
$Mount = "D:\OS_11_Custom\Install\WinRE\Mount"
$Sources = "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-Windows Package - Path $Mount - Package Path $$(\$Sources) \land WinPE-Font Support-zh-CN.cab"
$Language_List = @(
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
```

```
@{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
 @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_zh-CN.cab"; }
 @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_zh-CN.cab"; }
 @{ Match = "*WiFi*"; File = "winpe-wifi_zh-CN.cab"; }
 @{ Match = "*rejuv*"; File = "winpe-rejuv_zh-CN.cab"; }
 @{ Match = "*opcservices*"; File = "winpe-opcservices_zh-CN.cab"; }
 @{ Match = "*hta*"; File = "winpe-hta_zh-CN.cab"; }
 @{ 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
     \label{lem:wite-host} \begin{tabular}{ll} Write-host $$(\$Sources)\$(\$Rule.File)$$"-ForegroundColor Green \end{tabular}
     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

Dism /Image:"D:\OS_11_Custom\Install\WinRE\Mount" /Get-Intl

3.1.4.3. 语言包: 删除

- 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
 - \Expand\Install\WinRE\WinRE.Del.Specified.lang.Tag.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/In stall/WinRE/WinRE.Del.Specified.lang.Tag.ps1

• 复制代码

```
$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"; }
```

Yi's Solutions

```
@{ 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
     \label{lem:wite-host} \begin{tabular}{ll} Write-host $$(\$Sources)\$(\$Rule.File)$$"-ForegroundColor Green \end{tabular}
     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 = @()
```

@{ Match = "*wds-tools*"; File = "winpe-wds-tools_\$(\$Lang).cab"; }

```
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

}

}
```

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

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-WindowsPackage -Path "D:\OS_11_Custom\Install\WinRE\Mount" -PackagePath \$KBPath

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

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。

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

 $\label{lem:limit} Dism\/image: "D:\OS_11_Custom\/lnstall\/WinRE\/mount"\/cleanup-image\/StartComponentCleanup$ /ResetBase

3.1.5.3.1. 固化更新后清理组件

```
Get-WindowsPackage -Path $Mount -ErrorAction SilentlyContinue | ForEach-Object {
 if ($_.PackageState -eq "Superseded") {
   Write-Host " $($_.PackageName)" -ForegroundColor Green
```

 $Remove-Windows Package - Path $Mount - Package Name $$ _. Package Name | Out-Null | | Out-$

驱动 3.1.6.

3.1.7. 保存映像: WinRE.wim

Save-WindowsImage -Path "D:\OS_11_Custom\Install\WinRE\Mount"

3.1.8. 卸载映像: WinRE.wim

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。

 $\label{lem:linear_loss} Dismount-Windows Image - Path "D: \OS_11_Custom \Install \WinRE \Mount" - Discard$

重建 WinRE.wim 后,可缩小文件大小 3.1.9.

- WinRE.Rebuild.ps1

 - $https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Install/WinRE/W$ RE.Rebuild.ps1



• 复制代码

```
FileName = "D:\OS_11\_Custom\Install\Mount\Windows\System32\Recovery\WinRE.wim"
 Get-WindowsImage - ImagePath $Filename - ErrorAction SilentlyContinue | ForEach-Object {
       Write-Host " Image name: " -NoNewline
       Write-Host $_.ImageName -ForegroundColor Yellow
       Write-Host " The index number: "-NoNewline
       Write-Host $_.ImageIndex -ForegroundColor Yellow
       Write-Host "`n Rebuild".PadRight(28) -NoNewline
       Export-Windows Image - Source Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path Image Index - Destination Image Index - Destination Image Path Image Index - Destination Image Index - Destination Image Index - Destination Image Index - Destination Image Image Index - Destination Image Index - Destination Image Index - Destination Image Image Image Index - Destination Image Im
  "$($FileName).New" -CompressionType max
      Write-Host "Finish`n" -ForegroundColor Green
if (Test-Path "$($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
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Install/WinRE/Win RE.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,查看报告"语言安装包适用于Install.wim"。
- 添加语言时,须对应不同的架构版本,未对应时,添加过程中报错等提示。

4.1. 语言包:添加

- Install.Instl.lang.ps1
 - \Expand\Install.Instl.lang.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Install.Instl.lang.ps1

• 复制代码

```
$Mount = "D:\OS_11_Custom\Install\Install\Mount"
$Sources = "D:\OS_11_Custom\Install\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-Defined File of the context of the 
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"; }
 CN~.cab"; }
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
 @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~zh-
CN~.cab"; }
 @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
 @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab"; }
 @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }
 @{ 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

Dism /Image: "D:\OS_11_Custom\Install\Install\Mount" /Set-AllIntl: "zh-CN"

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

- 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
 - o \Expand\Install\Install.Del.Specified.lang.Tag.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Install/Install.Del.Specified.la
 ng.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)-1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 10000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 10000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000
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)"
```

```
For Each ($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 {
     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

 $Get-Windows Package - Path "D: \OS_11_Custom \Install \Install \Mount" \mid Out-Grid View$

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

5.1.1. DISM 应用包(.appx 或 .appxbundle)服务命令行选项

5.2. InBox Apps: 预安装应用程序

编组缩写

- 群组 A: 教育版, 专业版, 专业教育版, 专业版工作站, 企业版, IoT 企业版, 适用于虚拟桌面的 Windows 10 企业版
- 群组 B:企业版 N,企业版 GN,企业版 SN,专业版 N,教育版 N,专业版工作站 N,专业教育版 N
- 群组 C: 家庭版,家庭版 N,家庭单语版

	名称	产品 ID	编组
1.	Microsoft.HEIFImageExtension	9PMMSR1CGPWG	A, C
2.	Microsoft.HEVCVideoExtension	9NMZLZ57R3T7	A, C
3.	Microsoft.VP9VideoExtensions	9N4D0MSMP0PT	A, C
4.	Microsoft.WebpImageExtension	9PG2DK419DRG	A, C
5.	Microsoft.GamingApp	9MV0B5HZVK9Z	A, C
6.	Microsoft.ZuneMusic	9WZDNCRFJ3PT	A, C
7.	MicrosoftCorporationII.MicrosoftFamily	9PDJDJS743XF	С
8.	Microsoft.WebMediaExtensions	9N5TDP8VCMHS	A, C
9.	Microsoft.WindowsSoundRecorder	9WZDNCRFHWKN	A, C
10.	Microsoft.Xbox.TCUI	9NKNC0LD5NN6	A, C
11.	Microsoft.ZuneVideo	9WZDNCRFJ3P2	A, C

12.	Microsoft.XboxGamingOverlay	9NZKPSTSNW4P	A, C
13.	Microsoft.RawImageExtension	9NCTDW2W1BH8	A, C
14.	Microsoft.UI.Xaml.2.3		A, B, C
15.	Microsoft.UI.Xaml.2.4		A, B, C
16.	Microsoft.UI.Xaml.2.7		A, B, C
17.	Microsoft.NET.Native.Framework.2.2		A, B, C
18.	Microsoft.NET.Native.Runtime.2.2		A, B, C
19.	Microsoft.VCLibs.140.00		A, B, C
20.	Microsoft.VCLibs.140.00.UWPDesktop		A, B, C
21.	Microsoft.SecHealthUI	9NK0JLZT7JD0	A, B, C
22.	Microsoft.WindowsStore	9WZDNCRFJBMP	A, B, C
23.	Microsoft.Sticky.Notes	9NBLGGH4QGHW	A, B, C
24.	Microsoft.Paint	9PCFS5B6T72H	A, B, C
25.	Microsoft.PowerAutomateDesktop	9NFTCH6J7FHV	A, B, C
26.	Microsoft.ScreenSketch	9MZ95KL8MR0L	A, B, C
27.	Microsoft.WindowsNotepad	9MSMLRH6LZF3	A, B, C
28.	Microsoft.WindowsTerminal	9N0DX20HK701	A, B, C
29.	Clipchamp.Clipchamp	9P1J8S7CCWWT	A, B, C
30.	Microsoft.Solitaire.Collection	9WZDNCRFHWD2	A, B, C
31.	Microsoft.WindowsAlarms	9WZDNCRFJ3PR	A, B, C
32.	Microsoft.WindowsFeedbackHub	9NBLGGH4R32N	A, B, C
33.	Microsoft.WindowsMaps	9WZDNCRDTBVB	A, B, C
34.	Microsoft.BingNews	9WZDNCRFHVFW	A, B, C
35.	Microsoft.DesktopAppInstaller	9NBLGGH4NNS1	A, B, C
36.	Microsoft.WindowsCamera	9WZDNCRFJBBG	A, B, C
37.	Microsoft.Getstarted	9WZDNCRDTBJJ	A, B, C
38.	Microsoft.Cortana	9NFFX4SZZ23L	A, B, C
39.	Microsoft.BingWeather	9WZDNCRFJ3Q2	A, B, C
40.	Microsoft.GetHelp	9PKDZBMV1H3T	A, B, C
41.	Microsoft.MicrosoftOfficeHub	9WZDNCRD29V9	A, B, C
42.	Microsoft.People	9NBLGGH10PG8	A, B, C
43.	Microsoft.StorePurchaseApp	9NBLGGH4LS1F	A, B, C
44.	Microsoft.Todos	9NBLGGH5R558	A, B, C
45.	Microsoft.Windows.Photos	9WZDNCRFJBH4	A, B, C

46.	Microsoft.WindowsCalculator	9WZDNCRFHVN5	A, B, C
47.	Microsoft.Windows.CommunicationsApps	9WZDNCRFHVQM	A, B, C
48.	Microsoft.XboxGameOverlay	9NBLGGH537C2	A, B, C
49.	Microsoft.XboxIdentityProvider	9WZDNCRD1HKW	A, B, C
50.	Microsoft.XboxSpeechToTextOverlay	9P086NHDNB9W	A, B, C
51.	Microsoft.YourPhone	9NMPJ99VJBWV	A, B, C
52.	MicrosoftCorporationII.QuickAssist	9P7BP5VNWKX5	A, B, C
53.	MicrosoftWindows.Client.WebExperience	9MSSGKG348SP	A, B, C

5.3. InBox Apps:已安装

5.3.1. 查看

 $Get-AppXProvisionedPackage - Path "D: \OS_11_Custom \Install \Install \Mount" \mid Out-Grid View$

5.3.2. 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

5.4. 删除已安装的所有预应用程序

- Install.InBox.Appx.Clear.all.ps1
 - \Expand\Install\Install.InBox.Appx.Clear.all.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Install/Install.InBox.Appx.Clear.all.ps1

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```
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
```

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}

5.5. 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

 $\label{lem:linear_loss} \begin{tabular}{ll} $$Dism/Image:"D:\OS_11_Custom\Install\Install\Mount"/Get-Intl. \end{tabular}$

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。

5.6. 区域标记:添加

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,想获取:

5.6.1. 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

5.6.2. 手动下载

5.6.2.1. 区域

区域	产品ID	区域	产品ID
en-US	C9PDSCC711RVF	af-za	9PDW16B5HMXR
am-et	9NGL4R61W3PL	ar-sa	9N4S78P86PKX
as-in	9NTJLXMXX35J	az-latn-az	9P5TFKZHQ5K8
be-by	9MXPBGNNDW3L	bg-bg	9MX54588434F
bn-bd	9PH7TKVXGGM8	bn-in	9P1M44L7W84T
bs-latn-ba	9MVFKLJ10MFL	ca-es	9P6JMKJQZ9S7
ca-es-valencia	9P9K3WMFSW90	chr-cher-us	9MX15485N3RK
CS-CZ	9P3WXZ1KTM7C	cy-gb	9NKJ9TBML4HB
da-dk	9NDMT2VKSNL1	de-de	9P6CT0SLW589

el-gr	9N586B13PBLD	en-gb	9NT52VQ39BVN
es-es	9NWVGWLHPB1Z	es-mx	9N8MCM1X3928
et-ee	9NFBHFMCR30L	eu-es	9NMCHQHZ37HZ
fa-ir	9NGS7DD4QS21	fi-fi	9MW3PQ7SD3QK
fil-ph	9NWM2KGTDSSS	fr-ca	9MTP2VP0VL92
fr-fr	9NHMG4BJKMDG	ga-ie	9P0L5Q848KXT
gd-gb	9P1DBPF36BF3	gl-es	9NXRNBRNJN9B
gu-in	9P2HMSWDJDQ1	ha-latn-ng	9N1L95DBGRG3
he-il	9NB6ZFND5HCQ	hi-in	9NZC3GRX8LD3
hr-hr	9NW01VND4LTW	hu-hu	9MWN3C58HL87
hy-am	9NKM28TM6P67	id-id	9P4X3N4SDK8P
ig-ng	9PG4ZFJ48JSX	is-is	9NTHJR7TQXX1
it-it	9P8PQWNS6VJX	ja-jp	9N1W692FV4S1
ka-ge	9P60JZL05WGH	kk-kz	9PHV179R97LV
km-kh	9PGKTS4JS531	kn-in	9NC6DB7N95F9
kok-in	9MV3P55CMZ6P	ko-kr	9N4TXPCVRNGF
ku-arab-iq	9P1C18QL3D7H	ky-kg	9P7D3JJGZM48
lb-lu	9N0ST1WBZ9D9	lo-la	9N8X352G5NZV
lt-lt	9NWWD891H6HN	lv-lv	9N5CQDPH6SQT
mi-nz	9P2GDFB3JPSX	mk-mk	9P1X6XB1K3RN
ml-in	9NWDTV8FFV7L	mn-mn	9PG1DHC4VTZW
mr-in	9MWXCKHJVR1J	ms-my	9NPXL8ZSDDQ7
mt-mt	9PDG96SQ6BN8	nb-no	9N6J0M5DHCK0
ne-np	9P7CHPLWDQVN	nl-nl	9PF1C9NB5PRV
nn-no	9PK7KM3Z06KH	nso-za	9NS49QLX5CDV
or-in	9NTHCXCXSJDH	pa-arab-pk	9NJRL03WH6FM
pa-in	9NSNC0ZJX69B	pl-pl	9NC5HW94R0LD
prs-af	9P3NGC6X5ZQC	pt-br	9P8LBDM4FW35
pt-pt	9P7X8QJ7FL0X	quc-latn-gt	9P2V6MNNQZ0B
quz-pe	9NHTX8NVQ04K	ro-ro	9MWXGPJ5PJ3H
ru-ru	9NMJCX77QKPX	rw-rw	9NFW0M20H9WG
sd-arab-pk	9NB9JSCXW9X5	si-lk	9NVF9QSLGTL0
sk-sk	9N7LSNN099WB	sl-si	9NV27L34J4ST
sq-al	9MWLRGNMDGK7	sr-cyrl-ba	9MXGN7V65C7B

sr-cyrl-rs	9PPD6CCK9K5H	sr-latn-rs	9NBZ0SJDPPVT
sv-se	9P0HSNX08177	sw-ke	9NFF2M19DQ55
ta-in	9PDZB1WT1B34	te-in	9PMQJJGF63FW
tg-cyrl-tj	9MZHLBPPT2HC	th-th	9MSTWFRL0LR4
ti-et	9NC8C9RDNK2S	tk-tm	9NKHQ4GL6VLT
tn-za	9NFSXM123DHT	tr-tr	9NL1D3T5HG9R
tt-ru	9NV90Q1X1ZR2	ug-cn	9P52C5D7VL5S
uk-ua	9PPPMZRSGHR8	ur-pk	9NDWFTFW12BQ
uz-latn-uz	9P5P2T5P5L9S	vi-vn	9P0W68X0XZPT
wo-sn	9NH3SW1CR90F	xh-za	9NW3QWSLQD17
yo-ng	9NGM3VPPZS5V	zh-cn	9NRMNT6GMZ7
zh-tw	9PCJ4DHCQ1JQ	zu-za	9NNRM7KT5NB0

下载区域: zh-CN,应用程序ID: 9NRMNT6GMZ70,商店连接:

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

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

5.6.2.2.1. 搜索关键词:

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

5.6.2.2.2. 网页内搜索 22621 内容,搜索结果: Microsoft.LanguageExperiencePackzh-CN_22621.*.
neutral_8wekyb3d8bbwe.appx

5.6.2.2.3. 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

5.6.3. 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:

 $\label{lem:linstall_mount} Add-AppxProvisionedPackage - Path "D:\OS_11_Custom\Install\Instal$

5.6.4. 区域标记:新增变化

脱机映像已安装的语言将成为默认,例如已安装语言:en-US、zh-CN,那么重新安装或更新 InBox Apps 应用程序时,将参考已安装语言来进行匹配,自动添加对应的语言包,可通过以下方式查看变化。

5.6.4.1. InBox Apps: 已安装的应用程序包

5.6.4.1.1. 查看

Get-AppXProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" | Out-GridView

5.6.4.1.2. 导到出 Csv

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

 $\label{lem:condition} Get-AppXProvisionedPackage - Path "D: \OS_11_Custom \Install \Mount" \mid Export-CSV-NoType - Path $SaveTo$

Write-host \$SaveTo -ForegroundColor Green

5.6.4.2. 查看可用的语言设置

Dism /Image:"D:\OS_11_Custom\Install\Install\Mount" /Get-Intl

5.7. InBox Apps:安装

5.7.1. 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;

- 5.7.2. 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"
 - 架构: x64
 - Install.Inst.InBox.Appx.ps1
 - o \Expand\Install\Install.Inst.InBox.Appx.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Install.Inst .InBox.Appx.ps1

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```
$ISO = "Auto"

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

$Arch = "x64"

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 = @{
 Edition = @(
   @{
     Name = @( "CloudEdition"; )
     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.Services.Store.Engagement"; "Microsoft.VP9VideoExtensions"; "Clipchamp.Clipchamp"; "Microsoft.BingNews";
"Microsoft.BingWeather"; "Microsoft.DesktopAppInstaller"; "Microsoft.GetHelp"; "Microsoft.Getstarted";
"Microsoft.HEIFImageExtension"; "Microsoft.HEVCVideoExtension"; "Microsoft.MicrosoftOfficeHub";
"Microsoft.MicrosoftStickyNotes"; "Microsoft.MinecraftEducationEdition"; "Microsoft.Paint";
"Microsoft.RawImageExtension"; "Microsoft.ScreenSketch"; "Microsoft.SecHealthUI"; "Microsoft.StorePurchaseApp";
"Microsoft.Todos"; "Microsoft.WebMediaExtensions"; "Microsoft.WebpImageExtension"; "Microsoft.Whiteboard";
"Microsoft.Windows.Photos"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsCalculator"; "Microsoft.WindowsCamera"; \\
"Microsoft.W indows Feedback Hub"; "Microsoft.W indows Maps"; "Microsoft.W indows Notepad"; \\
"Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI"; "Microsoft.XboxIdentityProvider";
"Microsoft.XboxSpeechToTextOverlay"; "Microsoft.ZuneMusic"; "Microsoft.ZuneVideo";
"MicrosoftCorporationII.QuickAssist";
   @{
     Name = @( "CloudEditionN"; )
     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.Services.Store.Engagement"; "Microsoft.XboxSpeechToTextOverlay"; "Clipchamp.Clipchamp";
"Microsoft.BingNews"; "Microsoft.BingWeather"; "Microsoft.DesktopAppInstaller"; "Microsoft.GetHelp"; \\
"Microsoft.Getstarted"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.MicrosoftStickyNotes";
"Microsoft.MinecraftEducationEdition"; "Microsoft.Paint"; "Microsoft.ScreenSketch"; "Microsoft.SecHealthUI";
"Microsoft.StorePurchaseApp"; "Microsoft.Whiteboard"; "Microsoft.Windows.Photos"; "Microsoft.WindowsAlarms";
"Microsoft.WindowsCalculator"; "Microsoft.WindowsCamera"; "Microsoft.WindowsFeedbackHub";
"Microsoft.WindowsMaps"; "Microsoft.WindowsNotepad"; "Microsoft.XboxIdentityProvider";
"MicrosoftCorporationII.QuickAssist";
     )
   @{
```

```
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.MicrosoftStickyNotes"; "Microsoft.Paint"; "Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch";
"Microsoft.WindowsNotepad"; "Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp";
"Microsoft.MicrosoftSolitaireCollection"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub";
"Microsoft.WindowsMaps"; "Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.BingWeather";
"Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana";
"Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp";
"Microsoft.Todos"; "Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.windowscommunicationsapps"; "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.MicrosoftStickyNotes"; "Microsoft.Paint"; "Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch";
"Microsoft.WindowsNotepad"; "Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp";
"Microsoft.MicrosoftSolitaireCollection"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub";
"Microsoft.WindowsMaps"; "Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.BingWeather";
"Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana";
'Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp";
"Microsoft.Todos"; "Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.windowscommunicationsapps"; "Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI";
"Microsoft.XboxGameOverlay"; "Microsoft.XboxGamingOverlay"; "Microsoft.XboxIdentityProvider"; \\
"Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "Microsoft.ZuneVideo";
"MicrosoftCorporationII.QuickAssist"; "MicrosoftWindows.Client.WebExperience"; "Microsoft.RawImageExtension";
   @{
```

```
Name = @(
       "EnterpriseN"; "EnterpriseGN"; "EnterpriseSN"; "ProfessionalN"; "EducationN"; "ProfessionalWorkstationN";
"ProfessionalEducationN"; "CloudN"; "CloudEN"; "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.MicrosoftStickyNotes"; "Microsoft.Paint";
"Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad";
"Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.MicrosoftSolitaireCollection";
"Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps"; "Microsoft.BingNews";
"Microsoft.BingWeather"; "Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera"; "Microsoft.Getstarted";
"Microsoft.Cortana"; "Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People";
"Microsoft.StorePurchaseApp"; "Microsoft.Todos"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.windowscommunicationsapps"; "Microsoft.XboxGameOverlay"; "Microsoft.XboxIdentityProvider";
"Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "MicrosoftCorporationII.QuickAssist";
"MicrosoftWindows.Client.WebExperience";
 Rule = @(
   @{ Name="Microsoft.UI.Xaml.2.3"; Match="UI.Xaml*{ARCHTag}*2.3"; License="UI.Xaml*{ARCHTag}*2.3";
Dependencies=@(); }
   @{ Name="Microsoft.UI.Xaml.2.4"; Match="UI.Xaml*{ARCHTag}*2.4"; License="UI.Xaml*{ARCHTag}*2.4";
Dependencies=@(); }
   @{ Name="Microsoft.UI.Xaml.2.7"; Match="UI.Xaml*{ARCHTag}*2.7"; License="UI.Xaml*{ARCHTag}*2.7";
Dependencies=@(); }
   @{ Name="Microsoft.NET.Native.Framework.2.2";
Match="Native.Framework*{ARCHTag}*2.2";License="Native.Framework*{ARCHTag}*2.2"; Dependencies=@(); }
   @{ Name="Microsoft.NET.Native.Runtime.2.2";
\label{lem:match} Match="Native.Runtime*{ARCHTag}*2.2"; License="Native.Runtime*{ARCHTag}*2.2"; Dependencies=@(); \ \}
   @{ Name="Microsoft.VCLibs.140.00"; Match="VCLibs*{ARCHTag}"; License="VCLibs*{ARCHTag}"; Dependencies=@(); }
   @{ Name="Microsoft.VCLibs.140.00.UWPDesktop";
Match="VCLibs*{ARCHTag}*Desktop";License="VCLibs*{ARCHTag}*Desktop";Dependencies=@();}
   @{ Name="Microsoft.HEIFImageExtension"; Match="HEIFImageExtension"; License="HEIFImageExtension*";
Dependencies=@("Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.HEVCVideoExtension";
Match="HEVCVideoExtension*{ARCHC}";License="HEVCVideoExtension*{ARCHC}*xml";
Dependencies=@("Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.SecHealthUI"; Match="SecHealthUI*{ARCHC}";License="SecHealthUI*{ARCHC}";
Dependencies=@("Microsoft.UI.Xaml.2.4","Microsoft.VCLibs.140.00");}
   @{ Name="Microsoft.VP9VideoExtensions";
Match="VP9VideoExtensions*{ARCHC}";License="VP9VideoExtensions*{ARCHC}";
Dependencies=@("Microsoft.VCLibs.140.00"); }
```

```
@{ Name="Microsoft.WebpImageExtension";
Match="WebpImageExtension*{ARCHC}";License="WebpImageExtension*{ARCHC}";
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Yi's Solutions

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Dependencies=@("Microsoft.VCLibs.140.00"); }
             @{ Name="Microsoft.Windows.Photos"; Match="Windows.Photos"; License="Windows.Photos";
Dependencies=@("Microsoft.UI.Xaml.2.4","Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.NET.Native.Runtime.2.2", Microsoft.NET.Native.Runtime.2.2", Microsoft.NET.Native.Runtime.2.2", Microsoft.NET.Native.Runtime.2.2", Microsoft
osoft.VCLibs.140.00"); }
             @{ Name="Microsoft.WindowsCalculator"; Match="WindowsCalculator"; License="WindowsCalculator";
Dependencies=@("Microsoft.UI.Xaml.2.4", "Microsoft.VCLibs.140.00"); }
             @{ Name="Microsoft.windowscommunicationsapps";
Match="WindowsCommunicationsApps";License="WindowsCommunicationsApps";
Dependencies=@("Microsoft.UI.Xaml.2.7", "Microsoft.VCLibs.140.00"); }
             @{ Name="Microsoft.WindowsSoundRecorder"; Match="WindowsSoundRecorder"; License="WindowsSoundRecorder";
Dependencies=@("Microsoft.UI.Xaml.2.3","Microsoft.VCLibs.140.00"); }
             @{ Name="Microsoft.Xbox.TCUI"; Match="Xbox.TCUI"; License="Xbox.TCUI";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.140.00");}
              @\{ Name="Microsoft.XboxGameOverlay"; Match="XboxGameOverlay"; License="XboxGameOverlay"; License="Xb
Dependencies=@("Microsoft.VCLibs.140.00"); }
             @{ Name="Microsoft.XboxGamingOverlay"; Match="XboxGamingOverlay"; License="XboxGamingOverlay";
Dependencies=@("Microsoft.VCLibs.140.00"); }
             @{ Name="Microsoft.XboxIdentityProvider"; Match="XboxIdentityProvider"; License="XboxIdentityProvider";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.140.00"); }
             @{ Name="Microsoft.XboxSpeechToTextOverlay";
Match="XboxSpeechToTextOverlay";License="XboxSpeechToTextOverlay";Dependencies=@("Microsoft.VCLibs.140.00");}
             @{ Name="Microsoft.YourPhone"; Match="YourPhone"; License="YourPhone";
```

```
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.140.00","
Microsoft.VCLibs.140.00.UWPDesktop"); }
            @{ Name="Microsoft.ZuneVideo"; Match="ZuneVideo"; License="ZuneVideo";
 Dependencies=@("Microsoft.UI.Xaml.2.7", "Microsoft.VCLibs.140.00"); }
             @{Name="MicrosoftCorporation II.QuickAssist"; Match="QuickAssist"; License="QuickAssist"; Dependencies=@(); }\\
             @{Name="MicrosoftWindows.Client.WebExperience"; Match="WebExperience"; License="WebExperience"; License="WebExperience"
 Dependencies=@("Microsoft.VCLibs.140.00"); }
             @{ Name="Microsoft.MinecraftEducationEdition";
 Match="MinecraftEducationEdition";License="MinecraftEducationEdition";
 Dependencies=@("Microsoft.VCLibs.140.00.UWPDesktop"); }
             @{ Name="Microsoft.Whiteboard"; Match="Whiteboard"; License="Whiteboard";
Dependencies=@("Microsoft.NET.Native.Framework.2.2", "Microsoft.NET.Native.Runtime.2.2", "Microsoft.VCLibs.140.00"); }
             @{Name="Microsoft.RawImageExtension"; License="RawImageExtension"; License="RawImageExtension; License="RawImageExtension"; License="RawImageExtension"; License="RawImageExtension"; License="RawImageExtension"; License="RawImageExtension"; License="RawImageExtension"; License="RawImageExtension"; License="RawImageExtension"; Licens
 Dependencies=@(); }
 $Allow_Install_App = @()
 ForEach ($item in $Pre_Config_Rules.Edition) {
      if ($item.Name -contains $Current_Edition_Version) {
            Write-host "`n Match to: "-NoNewline; Write-host $Current_Edition_Version -ForegroundColor Green
             $Allow_Install_App = $item.Apps
            break
Write-host "`n The app to install ( $($Allow_Install_App.Count) item )" -ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($item in $Allow_Install_App) {
      Write-host " $($item)" -ForegroundColor Green
Function Match_InBox_Apps_Install_Pack
      param ($NewPath)
      $NewArch = $Arch
      $NewArchC = $Arch.Replace("AMD64", "x64")
      $NewArchCTag = $Arch.Replace("AMD64", "x64")
      if ($Arch -eq "arm64") { $NewArchCTag = "arm" }
      if ($Pre_Config_Rules.Rule.Count -gt 0) {
```

```
ForEach ($itemInBoxApps in $Pre_Config_Rules.Rule){
             $InstallPacker = ""
             $InstallPackerCert = ""
             \ensuremath{\$}SearchNewStructure = \ensuremath{\$}itemInBoxApps.Match.Replace("{ARCH}", \ensuremath{\$}NewArch).Replace("{ARCHC}", \ensuremath{\$}Ne
$NewArchC).Replace("{ARCHTag}", $NewArchCTag)
             $SearchNewLicense = $itemInBoxApps.License.Replace("{ARCH}", $NewArch).Replace("{ARCHC}",
$NewArchC).Replace("{ARCHTag}", $NewArchCTag)
             Get-ChildItem -Path $NewPath -Filter "*$($SearchNewStructure)*" -Include "*.appx", "*.appxbundle", "*.msixbundle"
 -Recurse -Force -ErrorAction SilentlyContinue | ForEach-Object {
                 if (Test-Path -Path $_.FullName -PathType Leaf) {
                      $InstallPacker = $_.FullName
                      Get-ChildItem -Path $NewPath -Filter "*$($SearchNewLicense)*" -Include *.xml -Recurse -Force -ErrorAction
SilentlyContinue | ForEach-Object {
                         $InstallPackerCert = $_.FullName
                      $Script:InBoxAppx += @{
                                                    = $itemInBoxApps.Name;
                         Name
                                                    = $itemInBoxApps.Dependencies;
                          Depend
                          Search
                                                    = $SearchNewStructure;
                         InstallPacker = $InstallPacker;
                          Certificate = $InstallPackerCert
                          CertificateRule = $SearchNewLicense
                      return
Write-host "`n InBox Apps: Installation packages, automatic search for full disk or specified paths" -ForegroundColor
Yellow
Write-host " $('-' * 80)"
$Script:InBoxAppx = @()
if ($ISO -eq "Auto") {
     Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
         $AppPath = Join-Path -Path $_.Root -ChildPath "packages" -ErrorAction SilentlyContinue
```

```
Match_InBox_Apps_Install_Pack -NewPath $AppPath
} else {
  Match_InBox_Apps_Install_Pack -NewPath $ISO
}
Write-host " Search Complete" -ForegroundColor Green
Write-host "`n InBox Apps: Installer Match Results" -ForegroundColor Yellow
Write-host " $('-' * 80)"
if ($Script:InBoxAppx.Count -gt 0) {
  Write-host " Match successful" -ForegroundColor Green
} else {
  Write-host "Failed match" -ForegroundColor Red
  return
Write-host "`n InBox Apps: Details of the application to be installed ( $($Script:InBoxAppx.Count) item )" -ForegroundColor
Yellow
Write-host " $('-' * 80)"
ForEach ($Rule in $Script:InBoxAppx) {
  Write-host " Apps name: "-NoNewline; Write-host $Rule.Name -ForegroundColor Yellow
  Write-host " Apps installer: "-NoNewline; Write-host $Rule.InstallPacker-ForegroundColor Yellow
  Write-host "License: "-NoNewline; Write-host $Rule.Certificate -ForegroundColor Yellow
  Write-host ""
Write-host "`n InBox Apps: Installation" -ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($Rule in $Script:InBoxAppx) {
  Write-host " Name: " -NoNewline; Write-host $Rule.Name -ForegroundColor Yellow
  Write-host " $('-' * 80)"
  if($Allow_Install_App -contains $Rule.Name) {
    Write-host "Search for apps: "-NoNewline; Write-host $Rule.InstallPacker -ForegroundColor Yellow
    Write-host "Search for License: "-NoNewline; Write-host $Rule.Certificate -ForegroundColor Yellow
    if (Test-Path -Path $Rule.InstallPacker -PathType Leaf) {
     if (Test-Path -Path $Rule.Certificate -PathType Leaf) {
       Write-host "License: "-NoNewline
       Write-host $Rule.Certificate -ForegroundColor Yellow
```

```
Write-host " With License".PadRight(22) -NoNewline -ForegroundColor Green
       Write-host " Installing".PadRight(22) -NoNewline
       try {
        Add-AppxProvisionedPackage -Path $Mount -PackagePath $Rule.InstallPacker -LicensePath $Rule.Certificate -
ErrorAction SilentlyContinue | Out-Null
        Write-Host "Done`n" -ForegroundColor Green
       } catch {
         Write-Host "Failed" -ForegroundColor Red
         Write-Host " $($_)`n"-ForegroundColor Red
     } else {
       Write-host "No License".PadRight(22) -NoNewline -ForegroundColor Red
       Write-host " Installing".PadRight(22) -NoNewline
       try {
         Add-Appx Provisioned Package-Path\ \$ Mount-Package Path\ \$ Rule. In stall Packer-Skip License-Error Action
SilentlyContinue | Out-Null
         Write-Host "Done`n" -ForegroundColor Green
       } catch {
         Write-Host "Failed" -ForegroundColor Red
         Write-Host " $($_)`n"-ForegroundColor Red
   } else {
     Write-host " The installation package does not exist" -ForegroundColor Red
   }
 } else {
   Write-host "Skip the installation`n" -ForegroundColor Red
```

5.8. 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

• 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

}

}
```

5.9. 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。

Dism /Image:"D:\OS_11_Custom\Install\Mount" /Optimize-ProvisionedAppxPackages

6. 累积更新

- 不同版本、旧版本升级到最新版时,需优先添加"功能启用包"后才能添加最新版累积更新;
- 添加语言包后,可安装与初始版本相同的累积更新,以解决安装后未刷新"组件:映像中已安装的所有包"状态的已知问题;
- 为保持最新,推荐您下载最新版。

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 或 Windows 11, version 22H2 (22621.382) arm64
- 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:

 $D: \label{lem:loss} D: \label{loss} D: \labe$

6.1.2. 添加

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

 $Add-Windows Package - Path "D: \OS_11_Custom \Install \Mount" - Package Path $KBPath \Add-Windows \Add-Wind$

6.2. 其它版本

查阅"Windows 11 版本信息",例如下载累积更新:KB5035853,版本号:22621.3296,前往下载页面:
https://www.catalog.update.microsoft.com/Search.aspx?q=KB5035853,下载后保存到:D:\OS_11_Custom\Install\Install\Update,

或通过直连下载,根据架构选择下载:

- 6.2.1. x64, 默认
 - 直连下载

https://catalog.sf.dl.delivery.mp.microsoft.com/filestreamingservice/files/594b22d5-84c3-4665-bdc7-3167c91759b9/public/windows11.0-kb5035853-x64_8ca1a9a646dbe25c071a8057f249633a61929efa.msu

• 添加



```
$KBPath = "D:\OS_11_Custom\Install\Update\windows11.0-kb5035853-x64_8ca1a9a646dbe25c071a8057f249633a61929efa.msu" Add-WindowsPackage - Path "D:\OS_11_Custom\Install\Install\Mount" - PackagePath $KBPath $MBPath $MBPath
```

6.2.2. Arm64

• 直连下载

https://catalog.sf.dl.delivery.mp.microsoft.com/filestreamingservice/files/72ba502a-7982-471c-aad2-355efddbff61/public/windows11.0-kb5035853-arm64_076c009bca80cfa85272bd50d65951c2f663fcc5.msu

• 添加

```
$KBPath = "D:\OS_11\_Custom\Install\Install\Update\windows11.0-kb5035853-arm64\_076c009bca80cfa85272bd50d65951c2f663fcc5.msu" Add-WindowsPackage - Path "D:\OS_11\_Custom\Install\Install\Mount" - PackagePath $KBPath = "D:\OS_11\_Custom\Install\Mount" - Pa
```

6.3. 固化更新

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。

 $\label{lem:limit} Dism/Image: "D:\OS_11_Custom\Install\Install\Mount"/cleanup-image/StartComponentCleanup/ResetBase (ComponentCleanup/ResetBase) (ComponentClea$

6.3.1. 固化更新后清理组件

```
$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
- 8. 部署引擎:添加
 - 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



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} $$\operatorname{"D:\OS_11_Custom\Install\Install\Update\Winlib\WinRe.wim"}$$$

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

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

11. 保存映像: Install.wim

Save-WindowsImage -Path "D:\OS_11_Custom\Install\Install\Mount"

12. 卸载映像: Install.wim

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. 如何批量替换 Install.wim 里的所有索引号里的 WinRE.wim
 - 13.1. 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

- 13.2. 如何在 Install.wim 里提取和更新 WinRE.wim
 - 13.2.1. 从 Install.wim 里提取 WinRE.wim 文件 Install.wim
 - Install.WinRE.Replace.wim.ps1

 - https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Install.Win
 RE.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
```

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

- Install.WinRE.Replace.wim.ps1
 - \Expand\Install\Install.WinRE.Replace.wim.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Install/Install.Win RE.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 " 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
```

14. 重建 Install.wim 后可缩小文件大小

- Install.Rebuild.wim.ps1
 - \Expand\Install\Install.Rebuild.wim.ps1
 - $o \qquad \text{https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Install/Install.Rebuild.wim.ps1} \\$

• 复制代码

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

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

Write-Host " Image name: "-NoNewline
```

Yi's Solutions

```
Write-Host $_.lmageName -ForegroundColor Yellow

Write-Host $_.lmageIndex -ForegroundColor Yellow

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

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

Write-Host "Finish` n" -ForegroundColor Green

}

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

Remove-Item -Path $InstallWim

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

Write-Host "Finish" -ForegroundColor Green

} else {

Write-host "Failed" -ForegroundColor Red

}
```

III 自定义封装: 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、索引号等;

```
$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

3. 开始挂载 Boot.wim

默认索引号: 2

Mount-WindowsImage -ImagePath "D:\OS_11\sources\boot.wim" -Index "2" -Path "D:\OS_11_Custom\Boot\Boot\Mount"

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,查看报告"语言安装包适用于 Boot.wim"。
- 添加语言时,须对应不同的架构版本,未对应时,添加过程中报错等提示。



4.1. 语言包:添加

- Boot.Instl.lang.ps1
 - o \Expand\Boot\Boot.Instl.lang.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Boot/Boot.Instl.lang.ps1

• 复制代码

```
$Mount = "D:\OS_11_Custom\Boot\Boot\Mount"
$Sources = "D:\OS_11_Custom\Boot\Boot\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
{\tt Add-WindowsPackage-Path\ \$Mount\ -PackagePath\ "\$(\$Sources) \backslash 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

4.2.2. 查看可用的语言设置

 $\label{lem:loss_11_CustomBootBootMount"/Get-Intlorence of the continuous co$

4.3. 语言包: 删除

- 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
 - https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Boot/Boot.Del.Specified.lang.Tag.ps1

• 复制代码

\$Lang = "en-US"

 $\mbox{$Mount = "D:\OS_11_Custom\Boot\Boot\Mount"}$} \label{thm:boot}$

Yi's Solutions

```
$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
```

组件:映像中已安装的所有包 4.4.

4.4.1. 查看

 $Get-Windows Package - Path "D: \OS_11_Custom \Boot \Boot \Mount" \mid Out-Grid View$

导出到 Csv 4.4.2.

 $SaveTo = D:OS_11_CustomBootBootReport.$(Get-Date -Format "yyyyMMddHHmmss").csv"$

 ${\tt Get-WindowsPackage-Path~"D:\NOS_11_Custom\Boot\Boot\Mount"~|~Export-CSV-NoType-Path~\$SaveTorrange} \\$

Write-host \$SaveTo -ForegroundColor Green

语言包: 修复 4.5.

4.5.1. 提取

打开: D:\OS_11_Custom\Install\Language\Add\zh-CN\Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab, 进

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

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

语言包: 同步到 ISO 安装程序 4.6.

 $\label{lem:copy-ltem-path} \begin{tabular}{ll} Copy-ltem - Path "D: \OS_11_Custom \Boot \Boot$

重新生成 Lang.ini 4.7.

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:\OS_11_Custom\Boot\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:\OS_11\Sources\lang.ini

 $\label{lem:limit} Dism\/image:"D:\OS_11_Custom\Boot\Boot\Mount"\//gen-langini\//distribution:"D:\OS_11"$

5. 累积更新

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-Windows Package - Path "D: \OS_11_Custom \Boot \$

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

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\Boot\Boot\Mount" /cleanup-image /StartComponentCleanup /ResetBase

5.3.1. 固化更新后清理组件

```
$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
- 7. 其它
 - 7.1. 绕过 TPM 安装时检查



- Boot.Bypass.TPM.ps1
 - o \Expand\Boot\Boot.Bypass.TPM.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/Boot/Boot.Bypass.TPM.ps1

• 复制代码

\$RegSystem = "D:\OS_11_Custom\Boot\Mount\Windows\System32\Config\SYSTEM"

\$RandomGuid = [guid]::NewGuid()

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

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

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

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

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

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

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

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

[gc]::collect()

 $Start-Process\ reg\ -Argument List\ "unload\ ""HKLM\s(\$RandomGuid)"""\ -Wait\ -WindowStyle\ Hidden\ -ErrorAction\ Silently Continue\ -ErrorAction\ -ErrorActi$

Remove-PSDrive -Name OtherTasksTPM

8. 保存映像: Boot.wim

Save-WindowsImage -Path "D:\OS_11_Custom\Boot\Boot\Mount"

9. 卸载映像: Boot.wim

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。

 $\label{lem:lemont} Dismount-Windows Image - Path "D:\OS_11_Custom \ Boot\ Boot\ Mount" - Discard$

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。



- o 前往 https://github.com/ilikeyi/Multilingual/releases 下载页面,选择可用版本: 1.1.1.1,选择下载源代码格式: zip,下载完成后得到 Multilingual-1.1.1.1.zip 压缩包文件;
- 将已下载的 main.zip 或 Multilingual-1.1.1.1.zip,解压到:D:\Multilingual-1.1.1.1,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_Learn\Unattend\Mul.Unattend.xml 到 D:\OS_11\Autounattend.xml

Copy-Item "D:\Multilingual_Learn\Unattend\Mul.Unattend.xml" -Destination "D:\OS_11\Autounattend.xml" -Force

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_Learn\Unattend\Mul.Unattend.xml 到 D:\OS_11\Sources\Unattend.xml

 $\label{lem:copy-lem:def} $$\operatorname{D:\Multilingual\Learn\Unattend\Mul.Unattend.xml"-Destination "D:\OS_11\Sources\Unattend.xml"-Destination "D:\OS_11\Sources\Unattend.xml"-D:\OS_11\Sources\Unattend.xml"-Destination "D:\OS_11\Sources\Unattend.xml"-Destination "D:\OS_11\Sources\Unattend.xml"$

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

1.1.1.3.1. 创建 \$OEM\$ 路径

1.1.1.3.2. 复制

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

D:\OS_11\Sources\\$OEM\$\Panther\Unattend.xml

Copy-Item "D:\Multilingual_Learn\Unattend\Mul.Unattend.xml" -Destination "D:\OS_11\sources\`\$OEM\$\`\$\$\Panther\Unattend.xml" -Force

1.1.2. 部署引擎:添加

1.1.2.1. 部署引擎: 复制

复制 D:\Multilingual\Engine 到 D:\OS_11\Sources\\$OEM\$\\$1\Yi\Engine

 $\label{lem:copy-lem$

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

 $Out\mbox{-}File\mbox{-}File\mbox{-}Path\mbox{-}Deploy\mbox{-}Allow\mbox{-}(\$item)\mbox{-}Encoding\mbox{-}utf8-Error\mbox{-}Action\mbox{-}Silently\mbox{-}Continue}$

1.2. 添加到已挂载

通过"自定义封装: 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_Learn\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

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>



<UILanguageFallback>%OSDUILanguageFallback%</UILanguageFallback>

<use><UserLocale>%OSDUserLocale%</userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></userLocale></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>
<Username>Administrator</Username>
</AutoLogon>

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。

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

2.2.2.2.

从开始处 <OOBE> 到 </OOBE>

<OOBE>

- <ProtectYourPC>3</ProtectYourPC>
- <HideEULAPage>true</HideEULAPage>
- <HideWirelessSetupInOOBE>true</HideWirelessSetupInOOBE>

</OOBE>

- D. ISO
 - II 生成 ISO
 - 1. 下载 OScdimg

根据架构选择 Oscdimg 版本,下载后保存到: D:\ ,保存在其它路径请输入 OScdimg.exe 绝对路径;

1.1. x64

 $https://github.com/ilikeyi/solutions/raw/main/_Software/Oscdimg/amd64/oscdimg.exe\\$

1.2. x86

https://github.com/ilikeyi/solutions/raw/main/_Software/Oscdimg/x86/oscdimg.exe

1.3. arm64

- 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/_Learn/Packaging.tutorial/OS.11/22H2/Expand/ISO.ps1

• 复制代码

```
$Oscdimg = "D:\Oscdimg.exe"

$ISO = "D:\OS_11"

$Volume = "OS_11"

$SaveTo = "D:\OS_11.iso"

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

Start-Process -FilePath $Oscdimg -ArgumentList $Arguments -wait -nonewwindow
```

Ⅲ 绕过 TPM 安装检查

- 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 报告

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

Ⅱ 不同版本

1. Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.22621.382

A, C

Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317

2. Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~~10.0.22621.1

A, C

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	A, B
4.	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	
5.	Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.317	A, B, C, D
6.	Microsoft-OneCore-DirectX-Database-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
7.	Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.382	A, B, C, D
8.	Microsoft-Windows-Ethernet-Client-Intel-E1i68x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
9.	Microsoft-Windows-Ethernet-Client-Intel-E2f68-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
10.	Microsoft-Windows-Ethernet-Client-Realtek-Rtcx21x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
11.	Microsoft-Windows-Ethernet-Client-Vmware-Vmxnet3-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
12.	Microsoft-Windows-FodMetadata-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
13.	Microsoft-Windows-Foundation-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
14.	Microsoft-Windows-Hello-Face-Package~31bf3856ad364e35~amd64~~10.0.22621.317	A, B, C, D
15.	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.22621.1	A, B, C, D
	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~en-US~11.0.22621.1	A, B, C, D
16.	Microsoft-Windows-Kernel-LA57-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382	A, B, C, D
17.	Microsoft-Windows-LanguageFeatures-Basic-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
18.	Microsoft-Windows-LanguageFeatures-Handwriting-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
19.	Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
20.	Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
21.	Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
22.	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
23.	Microsoft-Windows -Notepad-System-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
24.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
25.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
26.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
27.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
28.	Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
29.	Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D

30.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
31.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
32.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
33.	Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
34.	Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
35.	Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
36.	Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
37.	Microsoft-Windows-Wifi-Client-Intel-Netwns64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
38.	Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
39.	Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
40.	Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
41.	Microsoft-Windows-Wifi-Client-Intel-Netwtw06-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
42.	Microsoft-Windows-Wifi-Client-Intel-Netwtw08-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
43.	Microsoft-Windows-Wifi-Client-Intel-Netwtw10-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
44.	Microsoft-Windows-Wifi-Client-Marvel-Mrvlpcie8897-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
45.	Microsoft-Windows-Wifi-Client-Qualcomm-Athw8x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
46.	Microsoft-Windows-Wifi-Client-Qualcomm-Athwnx-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
47.	Microsoft-Windows-Wifi-Client-Qualcomm-Qcamain10x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
48.	Microsoft-Windows-Wifi-Client-Ralink-Netr28x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
49.	Microsoft-Windows-Wifi-Client-Realtek-Rtl8187se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
50.	Microsoft-Windows-Wifi-Client-Realtek-Rtl8192se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
51.	Microsoft-Windows-Wifi-Client-Realtek-Rtl819xp-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
52.	Microsoft-Windows-Wifi-Client-Realtek-Rtl85n64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
53.	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
54.	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
55.	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane13-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
56.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621	A, B, C, D
57.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
58.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.317	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
59.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D

60.	OpenSSH-Client-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
61.	Package_for_DotNetRollup_481~31bf3856ad364e35~amd64~~10.0.9065.6	A, B, C, D
62.	Package_for_RollupFix~31bf3856ad364e35~amd64~~22621.382.1.13	A, B, C, D
63.	Package_for_ServicingStack_378~31bf3856ad364e35~amd64~~22621.378.1.0	A, B, C, D
语言	安装包适用于:Install.wim	
1.	Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab	A, C
	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
2.	Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab	A,C
	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
3.	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B
	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
4.	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
5.	Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab	A, B, C, D
	Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
6.	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~zh-CN~11.0.22621.1	
7.	Microsoft-Windows-LanguageFeatures-Basic-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Basic-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
8.	Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
9.	Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
10.	Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
11.	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	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	A, B, C, D
	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	A, B, C, D
	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	A, B, C, D
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	

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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	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
17.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
18.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
19.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
20.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
21.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	

IV 语言安装包适用于: WinRE.wim

1. WinPE-FontSupport-zh-CN.cab

 $Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package \verb|^31bf3856ad364e35\verb|^aamd64\verb|^a-10.0.22621.1|$

2. lp.cab

 $Microsoft-Windows-WinPE-Language Pack-Package {\tt ~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1}$

3. winpe-appxdeployment_zh-CN.cab

 $Win PE-Appx Deployment-Package \sim 31bf 3856 ad 364e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

4. winpe-appxpackaging_zh-CN.cab

 $Win PE-Appx Packaging-Package {\tt ~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1}$

5. winpe-atbroker_zh-CN.cab

 $Win PE-ATB roker-Package \sim 31bf 3856 ad 364e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

6. winpe-audiocore_zh-CN.cab

 $Win PE-Audio Core-Package \sim 31bf 3856 ad 364e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

7. winpe-audiodrivers_zh-CN.cab

WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

8. winpe-enhancedstorage_zh-CN.cab

 $Win PE-Enhanced Storage-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

9. winpe-hta_zh-CN.cab

WinPE-HTA-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

10. winpe-narrator_zh-CN.cab

WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

11. winpe-opcservices_zh-CN.cab

 $Win PE-Opc Services-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

12. winpe-rejuv_zh-CN.cab

WinPE-Rejuv-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

13. winpe-scripting_zh-CN.cab

WinPE-Scripting-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

14. winpe-securestartup_zh-CN.cab

WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

15. winpe-speech-tts_zh-CN.cab

 $Win PE-Speech-TTS-Package \sim 31bf3856ad364e35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

16. winpe-srh_zh-CN.cab

WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

17. winpe-srt_zh-CN.cab

WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

18. winpe-storagewmi_zh-CN.cab

WinPE-StorageWMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

19. winpe-wds-tools_zh-CN.cab

 $Win PE-WDS-Tools-Package {\tt ~31bf3856} ad 364e 35 {\tt ~amd64 {\tt ~zh-CN {\tt ~10.0.22621.1}}$

20. winpe-wifi_zh-CN.cab

WinPE-WiFi-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

21. winpe-windowsupdate_zh-CN.cab

 $Win PE-Windows Update-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

22. 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

1. WinPE-FontSupport-zh-CN.cab

Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.22621.1

2. lp.cab

Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

3. winpe-atbroker_zh-CN.cab

WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

4. winpe-audiocore_zh-CN.cab

WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

5. winpe-audiodrivers_zh-CN.cab

 $Win PE-Audio Drivers-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

6. winpe-enhancedstorage_zh-CN.cab

WinPE-EnhancedStorage-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

7. winpe-narrator_zh-CN.cab

WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

8. winpe-scripting_zh-CN.cab

WinPE-Scripting-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

9. winpe-securestartup_zh-CN.cab

WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

10. WINPE-SETUP-CLIENT_zh-CN.CAB

WinPE-Setup-Client-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

11. WinPE-Setup_zh-CN.cab

WinPE-Setup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

12. winpe-speech-tts_zh-CN.cab

WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

13. winpe-srh_zh-CN.cab

WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

14. winpe-srt_zh-CN.cab

 $Win PE-SRT-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

15. winpe-wds-tools_zh-CN.cab

 $Win PE-WDS-Tools-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

16. winpe-wmi_zh-CN.cab

 $Win PE-WMI-Package {\sim} 31 bf 3856 ad 364 e 35 {\sim} amd 64 {\sim} zh-CN {\sim} 10.0.22621.1$

章节3 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。

 $\label{lem:linear_loss} Dismount-Windows Image - Path "D:\OS_11_Custom\\Install\\Install\\Mount" - Discard$

Dismount-WindowsImage -Path "D:\OS_11_Custom\Install\WinRE\Mount" -Discard

 ${\tt Dismount-WindowsImage - Path "D: \Cs_11_Custom \Boot \Boot \Mount" - Discard}$

|| 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。

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

Remove-Item -Path "D:\OS_11\Sources\Unattend.xml" -Force

章节4 已知问题

暂无



此副本封装教程隶属于 Yi's Solutions 内容, 学习更多:

- Yi 的官方网站 | https://fengyi.tel/solutions
- Github | https://github.com/ilikeyi/solutions

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