

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1 部署映像

A. 先决条件

II ISO工具

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

Ⅲ 要求

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.** en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08ce3.iso
- 1.2.2. en-us_windows_11_consumer_editions_version_22h2_x64_dvd_e630fafd.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
- 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。

如何解决,添加 ei.cfg 到 D:\OS_11\Sources 里,创建 ei.cfg: 1.6.2.2. @" [Channel] volume [VL] 1 "@ | Out-File -FilePath "D:\OS_11\sources\EI.CFG" -Encoding Ascii 语言包 学习 2.1. 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) 2.2. 语言包:下载 https://software-static.download.prss.microsoft.com/dbazure/988969d5-f34g-4e03-ac9d-1f9786c66749/22621.1.220506-f34g-4e03-ac9d-1f9786c66749/22621-f36666-f34g-4e03-ac9d-1f9786c66749/2066-f36666-f36666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f36666-f36666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f3666-f31250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso 语言包: 修复 2.3. 2.3.1. 任选一个网站并打开: https://uupdump.net 2.3.1.1. https://uup.ee 2.3.1.2. 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

Yi's Solutions

2.

- 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;
- 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.x64.appx
 - 3.2.1.2. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.xml
 - (ISO]:\packages 目录里;
- IV 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。

V 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:\Yi.Solutions_Encapsulation_SIP.ps1"
- B. 语言包: 提取
 - Ⅱ 语言包:准备

挂载 22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso 或解压到任意位置;

- Ⅲ 语言包:提取方案
 - 1. 添加
 - 1.1. 语言名称:简体中文-中国,区域:zh-CN,适用范围:Install.Wim, Boot.Wim, WinRE.Wim
 - 2. 删除
 - 2.1. 语言名称: 英语-美国,区域: en-US,适用范围: Install.Wim, Boot.Wim, WinRE.Wim

IV 执行提取命令

- Auto = 自动搜索本地所有磁盘, 默认;
- 自定义路径,例如指定为 E 盘: \$ISO = "E:\"
- Extract.ps1
 - 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-AF", "fa-AF", "glk-Arab", "ha-
Arab", "ks-Arab", "ks-Arab-IN", "ku-Arab", "ps-Arab", "pa-Arab", "pa-Arab-PK", "pnb-Arab", "prs", "prs-AF", "ps-AF", "sd-Arab", "ks-Arab", "ks-Arab", "ks-Arab", "ks-Arab", "prs-AF", "ps-AF", "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", "brx-IN", "hi", "ks-Deva", "mai", "mr", "mr-IN", "ne", "ne-IN", "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", "wuu-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", "zh-Hant", "zh-hak-Hant", "zh-Hant", "zh-HK", "zh-Hzh-Hant", "zh-MO", "zh-yue-Hant"); Name = ("zh-TW", "zh-Hant", "z
"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 )
          \label{lem:newSaveTo} $\ensuremath{$\mathbb{C}$} = \ensuremath{$\mathbb{C}$} (\ensuremath{$\mathbb{C}$}) \ensuremath{$\mathbb{C}$} (\ens
          New-Item\ -Path\ \$NewSaveTo\ -ItemType\ Directory\ -ErrorAction\ Silently Continue\ |\ Out-Null\ -Path\ Path\ |\ Path\ Path\
          if ($ISO -eq "Auto") {
```

```
Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
     ForEach ($item in $Package) {
       $TempFilePath = Join-Path + Path $\_. Root - ChildPath \\ $item - Error Action Silently Continue
       if (Test-Path $TempFilePath -PathType Leaf) {
        Write-host "`n Find: " -NoNewLine; Write-host $TempFilePath -ForegroundColor Green
        Write-host " Copy to: " -NoNewLine; Write-host $NewSaveTo
         Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force
 } else {
   ForEach ($item in $Package) {
     $TempFilePath = Join-Path -Path $ISO -ChildPath $item -ErrorAction SilentlyContinue
     Write-host "`n Find: " -NoNewline; Write-host $TempFilePath -ForegroundColor Green
     if (Test-Path $TempFilePath -PathType Leaf) {
       Write-host " Copy to: " -NoNewLine; Write-host $NewSaveTo
       Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force
     } else {
       Write-host " Not found"
 Write-host "`n Verify the language pack file"
 ForEach ($item in $Package) {
   $Path = "$($NewSaveTo)\$([IO.Path]::GetFileName($item))"
   if (Test-Path $Path -PathType Leaf) {
     Write-host " Discover: " -NoNewLine; Write-host $Path -ForegroundColor Green
   } else {
     Write-host " Not found: " -NoNewLine; Write-host $Path -ForegroundColor Red
$AdvLanguage = @(
 @{
```

"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-enhancedstorage_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-narrator_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-scripting_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-speech-tts_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srh_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srt_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wds-tools_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wmi_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-appxdeployment_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-appxpackaging_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-storagewmi_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wifi_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-windowsupdate_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-rejuv_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-opcservices_{Lang}.cab" "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-SETUP-CLIENT_{Lang}.CAB" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab" "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-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-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
```

自定义部署映像

II 自定义部署映像: Install.wim

1. 查看 Install.wim 详细信息

```
映像名称、映像描述、映像大小、架构、版本、索引号等;
$ViewFile = "D:\OS_11\Sources\Install.wim"

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

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

循环操作区域,开始,

2. 指定挂载 Install 路径

 $New-Item-Path "D: \OS_11_Custom \\Install \\Install \\Mount"-ItemType directory-ea Silently \\Continue \\Install \\$



C.

3. 开始挂载 Install.wim

默认索引号: 1

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

处理 Install.wim 映像内的文件,可选项,开始,

3.1. 自定义部署映像: WinRE.wim

注意:

- WinRE.wim 属于 Install.wim 映像内的文件;
- Install.wim 有多个索引号时,仅处理任意一个 WinRE.wim 即可;
- 同步至所有索引号即可减少 Install.wim 体积,学习"如何批量替换 Install.wim 里的所有索引号里的 WinRE.wim"。

3.1.1. 查看 WinRE.wim 详细信息

映像名称、映像描述、映像大小、架构、版本、索引号等;

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

3.1.2. 指定挂载 WinRE.wim 路径

New-Item -Path "D:\OS_11_Custom\Install\WinRE\Mount" -ItemType directory -ea SilentlyContinue

3.1.3. 开始挂载 WinRE.wim

默认索引号: 1

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

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



- \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-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"
$Language_List = @(
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
 @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_zh-CN.cab"; }
 @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_zh-CN.cab"; }
 @{ Match = "*WiFi*"; File = "winpe-wifi_zh-CN.cab"; }
 @{ Match = "*rejuv*"; File = "winpe-rejuv_zh-CN.cab"; }
 @{ Match = "*opcservices*"; File = "winpe-opcservices_zh-CN.cab"; }
 @{ Match = "*hta*"; File = "winpe-hta_zh-CN.cab"; }
 @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_zh-CN.cab"; }
 @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_zh-CN.cab"; }
```

```
ForEach ($Rule in $Language_List) {

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

ForEach ($Component in $InitL_instalL_Language_Component) {

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

Write-host " Component name: " -NoNewline

Write-host $Component -ForegroundColor Green

Write-host " Language pack file: " -NoNewline

Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green

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

try {

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

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}

break

}
```

3.1.4.2. 组件:映像中已安装的所有包

3.1.4.2.1. 查看

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

3.1.4.2.2. 导出到 Csv

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

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

Write-host \$SaveTo -ForegroundColor Green

3.1.5. 保存映像: WinRE.wim

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

3.1.6. 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。

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

3.1.7. 重建 WinRE.wim 后,可缩小文件大小

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

• 复制代码

```
FileName = "D:\OS_11\_Custom\Install\Mount\Windows\System32\Recovery\WinRE.wim"
 Get-WindowsImage - ImagePath $Filename - Error Action Silently Continue | For Each-Object {
       Write-Host " Image name: " -NoNewline
       Write-Host $_.ImageName -ForegroundColor Yellow
       Write-Host " The index number: "-NoNewline
       Write-Host $_.ImageIndex -ForegroundColor Yellow
       Write-Host "`n Rebuild".PadRight(28) -NoNewline
       Export-Windows Image - Source Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path \$File name - Source Index \$\_. Image Index - Destination Image Path Image Index - Destination Image Image Image Index - Destination Image Imag
  "$($FileName).New" -CompressionType max
      Write-Host "Finish`n" -ForegroundColor Green
if (Test-Path "$($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
```

3.1.8. 备份 WinRE.wim

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

• 复制代码

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

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

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

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

3.1.9. 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\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-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-CN-windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeatures-Handwriting-zh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-LanguageFeature-yh-Windows-Handwriting-yh-Windows-Handwrit-yh-Windows-Handwriting-yh-Windows-ha-Windows-ha-Windows-ha-Wind
Package~31bf3856ad364e35~amd64~~.cab"; }
     @\{ Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~31bf3856ad364e35 ~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~31bf3856ad364e35 ~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~31bf3856ad364e35 ~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~31bf3856ad364e35 ~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~31bf3856ad364e35 ~~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~31bf3856ad364e35 ~~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~31bf3856ad364e35 ~~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~~amd64 ~~. cab"; \} \\ = (Match = "*OCR*"; File = "Microsoft-Windows-Language Features-OCR-zh-CN-Package ~~amd64 ~~. cab"; \} \\ = (Match = "Microsoft-Windows-Language Features-Windows-Language Features-OCR-zh-CN-Package ~~amd64 ~~. cab"; \} \\ = (Match = "Microsoft-Windows-Language Features-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-Windows-
     @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
     @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
     @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~zh-
CN~.cab"; }
     @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~zh-
CN~.cab"; }
    @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
     @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab"; }
     @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab"; }
     @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
     @\{ Match = "*PowerShell*wow64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow664~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856ad364~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-ISE-FOD-Package~31bf3856~wow64~zh-PowerShell-IS
CN~.cab"; }
     @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }
    @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
    @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
     @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~zh-
CN~.cab"; }
     @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
     @\{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab"; \} \\
     @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }
     @{ 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. 组件:映像中已安装的所有包

4.2.1. 查看

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

4.2.2. 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. InBox Apps:已安装

5.1.1. 查看

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

5.1.2. 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

5.2. 删除已安装的所有预应用程序



- Install.InBox.Appx.Clear.all.ps1
 - \Expand\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

• 复制代码

```
Get-AppXProvisionedPackage -path "D:\OS_11_Custom\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\\Mount" -PackageName $_.PackageName -ErrorAction

SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}
```

- 5.3. 区域标记:添加方式
 - 5.3.1. 执行"语言包:添加"
 - 5.3.2. 安装"本地语言体验包 (LXPs)"

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

5.3.2.1. 使用"Windows 本地语言体验包(LXPs)下载器"下载

了解: https://github.com/ilikeyi/LXPs

下载后保存到: D:\OS_11_Custom\Install\InBox.Appx, 文件格式: LanguageExperiencePack.zh-CN.Neutral.Appx

- 5.3.2.2. 手动下载
 - 5.3.2.2.1. 区域

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

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

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



5.3.2.2.2.1. 搜索关键词:

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

5.3.2.2.2.2. 网页内搜索 22621 内容,搜索结果:

 ${\it Microsoft.} Language {\it Experience Packzh-CN_22621.*.}$

neutral__8wekyb3d8bbwe.appx

5.3.2.2.2.3. 下载后保存到 D:\OS_11_Custom\Install\Install\InBox.Appx 目录里, 重命

名: LanguageExperiencePack.zh-cn.Neutral.Appx

5.3.2.3. 执行安装命令安装本地语言体验包 (LXPs)

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

Add-AppxProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" -PackagePath "D:\OS_11_Custom\Install\InBox.appx\LanguageExperiencePack.zh-cn.Neutral.appx" -SkipLicense

5.3.2.4. InBox Apps: 已安装的应用程序包

5.3.2.4.1. 查看

5.3.2.4.2. 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

5.4. InBox Apps:安装

5.4.1. 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;

5.4.2. 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

• 复制代码

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$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
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"Microsoft.windowscommunicationsapps"; "Microsoft.XboxGameOverlay"; "Microsoft.XboxIdentityProvider";
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Microsoft.VCLibs.140.00.UWPDesktop"); }
                  @{ Name="Microsoft.GetHelp"; Match="GetHelp"; License="GetHelp";
Dependencies=@("Microsoft.UI.Xaml.2.7","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="MicrosoftOfficeHub"; Match="MicrosoftOfficeHub";License="MicrosoftOfficeHub";
Dependencies=@("Microsoft.VCLibs.140.00","Microsoft.VCLibs.140.00.UWPDesktop"); }
                  @{ Name="Microsoft.People"; Match="People"; License="People";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.140.00");}
                  @{ Name="Microsoft.StorePurchaseApp"; Match="StorePurchaseApp"; License="StorePurchaseApp";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.140.00"); }
                  @{ Name="Microsoft.Todos"; Match="Todos"; License="Todos";
Dependencies = @ ("Microsoft.UI.Xaml.2.4", "Microsoft.NET.Native.Framework.2.2", "Microsoft.NET.Native.Runtime.2.2", "Microsoft.NET.Nati
osoft.VCLibs.140.00"); }
                  @{ Name="Microsoft.WebMediaExtensions"; Match="WebMediaExtensions"; License="WebMediaExtensions";
Dependencies=@("Microsoft.VCLibs.140.00"); }
                   @\{ Name="Microsoft.Windows.Photos"; Match="Windows.Photos"; License="Windows.Photos"; License="Windows.Photos Photos Ph
 Dependencies=@("Microsoft.UI.Xaml.2.4", "Microsoft.NET.Native.Framework.2.2", "Microsoft.NET.Native.Runtime.2.2", "Microsoft.Net.Native.Ru
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";
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="MicrosoftCorporationII.QuickAssist"; Match="QuickAssist"; License="QuickAssist"; Dependencies=@(); }
   @{ Name="MicrosoftWindows.Client.WebExperience"; Match="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"; Match="RawImageExtension"; License="RawImageExtension";
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 = ""
              $SearchNewStructure = $itemInBoxApps.Match.Replace("{ARCH}", $NewArch).Replace("{ARCHC}",
$NewArchC).Replace("{ARCHTag}", $NewArchCTag)
             \ensuremath{\mbox SearchNewLicense} = \ensuremath{\mbox Apps.License.Replace("{ARCH}", \ensuremath{\mbox NewArch}).Replace("{ARCHC}", \ensuremath{\mbox NewArch}).Re
$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
                           Depend = $itemInBoxApps.Dependencies;
                           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
```

5.5. InBox Apps: 优化

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

 $\label{lem:limited} \mbox{Dism/Image:"D:\OS_11_Custom\Install\Mount"/Optimize-ProvisionedAppxPackages} \label{limited:limited-provisionedAppxPackages}$

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
 - 6.1.1.1.3. https://osdump.com
- 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
 - **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:

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

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\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\Install\Update\windows11.0-kb5035853-x64_8ca1a9a646dbe25c071a8057f249633a61929efa.msu"

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

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。

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

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

Yi's Solutions

- 7. 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。
- 8. 健康

保存前应检查是否损坏,健康状态异常时,中止保存

Repair-WindowsImage -Path "D:\OS_11_Custom\Install\Install\Mount" -ScanHealth

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

 $\copyTo = "D:\OS_11_Custom\Install\Mount\Windows\System32\Recovery"$

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

10. 保存映像: Install.wim

11. 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。

- 12. 如何批量替换 Install.wim 里的所有索引号里的 WinRE.wim
 - 12.1. 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

- 12.2. 如何在 Install.wim 里提取和更新 WinRE.wim
 - 12.2.1. 从 Install.wim 里提取 WinRE.wim 文件 Install.wim

Yi's Solutions

Install.WinRE.Replace.wim.ps1

- \Expand\Install\Install.WinRE.Replace.wim.ps1
- 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

```
$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
```

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

- Install.WinRE.Replace.wim.ps1
 - o \Expand\Install\Install.WinRE.Replace.wim.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_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
```

13. 重建 Install.wim 后可缩小文件大小

- Install.Rebuild.wim.ps1
 - o \Expand\Install\Install.Rebuild.wim.ps1
 - o 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 | For Each-Object {
 Write-Host " Image name: " -NoNewline
 Write-Host $_.ImageName -ForegroundColor Yellow
 Write-Host " The index number: " -NoNewline
 Write-Host $_.ImageIndex -ForegroundColor Yellow
 Write-Host "`n Under reconstruction".PadRight(28) -NoNewline
 Export-WindowsImage - SourceImagePath $InstallWim - SourceIndex $_.ImageIndex - DestinationImagePath "$($InstallWim).New" -
CompressionType max | Out-Null
 Write-Host "Finish`n" -ForegroundColor Green
if (Test-Path "$($InstallWim).New" -PathType Leaf) {
 Remove-Item -Path $InstallWim
 Move-Item -Path "$($InstallWim).New" -Destination $InstallWim
 Write-Host "Finish" -ForegroundColor Green
} else {
 Write-host "Failed" -ForegroundColor Red
```

III 自定义部署映像: boot.wim

1. 查看 Boot.wim 文件信息

```
映像名称、映像描述、映像大小、架构、版本、索引号等;
```

```
$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

New-Item -Path "D:\OS_11_Custom\Boot\Boot\Mount" -ItemType directory -ea SilentlyContinue



3. 开始挂载 Boot.wim

默认索引号: 2

 $Mount-Windows Image - Image Path "D: \OS_11 \setminus Sources \setminus "D: \OS_11_Custom \setminus Boot \setminus Boot \setminus Mount" - Index "2" - Path "D: \OS_11_Custom \setminus Boot \setminus Boot \setminus Mount" - Index "2" - Path "D: \OS_11_Custom \setminus Boot \setminus Boot \setminus Mount" - Index "2" - Path "D: \OS_11_Custom \setminus Boot \setminus Boo$

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
 - \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
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"
$Language_List = @(
 @{ Match = "*WinPE*Setup*Client*Package*"; File = "WINPE-SETUP-CLIENT_zh-CN.CAB"; }
 @{ Match = "*WinPE*Setup*Package*"; File = "WinPE-Setup_zh-CN.cab"; }
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
```

```
@{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
  @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
  @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
)
ForEach ($Rule in $Language_List) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
  ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*") {
     Write-host " Component name: " -NoNewline; Write-host $Component -ForegroundColor Green
     Write-host " Language pack file: " -NoNewline; Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Installing ".PadRight(22) -NoNewline
     try {
       Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" | Out-Null
       Write-host "Finish" -ForegroundColor Green
     } catch {
       Write-host "Failed" -ForegroundColor Red
     break
```

4.2. 组件:映像中已安装的所有包

4.2.1. 查看

 ${\sf Get\text{-}WindowsPackage\text{-}Path\text{"}D:\NOS_11_Custom\Boot\Boot\Mount"\mid Out\text{-}GridView}}$

4.2.2. 导出到 Csv

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

Get-WindowsPackage -Path "D:\OS_11_Custom\Boot\Boot\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

4.3. 语言包: 修复

4.3.1. 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:

4.3.1.1. arunres.dll.mui

4.3.1.2. spwizres.dll.mui

4.3.1.3. w32uires.dll.mui

4.3.2. 复制

将提取的文件复制到: D:\OS_11_Custom\Boot\Boot\Mount\sources\zh-CN

4.4. 语言包:同步到ISO安装程序

Copy-Item -Path "D:\OS_11_Custom\Boot\Boot\Mount\sources\zh-CN" -Destination "D:\OS_11\sources\zh-CN" -Recurse -Force

4.5. 重新生成 Lang.ini

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

4.5.1. 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

 $\label{lem:limit} Dism / image: "D:\OS_11_Custom \Boot\Boot\Boot\Mount" / gen-langini / distribution: "D:\OS_11_Custom \Boot\Boot\Mount" / gen-langini / distribution: "D:\OS_11_Custom \Boot\Mount" / gen-langini / distribution: "D:\OS_11_Cu$

4.5.2. 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

5. 其它

5.1. 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

 $\label{lem:condition} $\ensuremath{\tt RegSystem} = "D:\OS_11_Custom\Boot\Boot\Mount\Windows\System32\Config\SYSTEM" $$$

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



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

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

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

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

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

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

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

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

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

[gc]::collect()

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

Remove-PSDrive -Name OtherTasksTPM

6. 保存映像: Boot.wim

 $Save-Windows Image \ -Path \ "D:\ OS_11_Custom \ Boot\ Boot\ Mount"$

7. 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。

 $\label{thm:converse} \begin{tabular}{ll} Dismount-WindowsImage - Path "D: \OS_11_Custom \Boot \Boot$

IV 部署引擎

- 了解"自动添加 Windows 系统已安装的语言",学习:https://github.com/ilikeyi/Multilingual,如何下载:
 - 进入网站后,点击"代码","下载压缩包",下载完成后得到 main.zip 压缩包文件。
 - 前往 https://github.com/ilikeyi/Multilingual/releases 下载页面,选择可用版本:1.1.1.1,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

 $\label{lem:copy-lem:def} \begin{center} Copy-Item "D:\Multilingual\Learn\Unattend\Mul.Unattend.xml" -Destination "D:\OS_11\Sources\Unattend.xml" -Force \end{center}$

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

New-Item -Path "D:\OS_11\sources\` \$OEM\$\` \$\$\Panther" -ItemType Directory

1.1.1.3.2. 复制

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

 $\label{lem:decomposition} D: \OS_11 \Sources \SOEM \Panther \Unattend. xml$

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

添加"自动添加 Windows 系统已安装的语言"到 D:\OS_11\sources\\$OEM\$\\$1\Yi\Engine 目录里。

1.1.2.1. 部署引擎: 复制

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

Copy-Item "D:\Multilingual\Engine" -Destination "D:\OS_11\sources\` \$OEM\$\` \$1\Yi\Engine" -Recurse -Force

1.1.2.2. 部署引擎: 自定义部署标记



```
$Flag = @(
       "Is_Mark_Sync" # 允许全盘搜索并同步部署标记
       # 先决部署
# "Auto_Update" # 允许自动更新
# "Use_UTF8" # Beta 版:使用 Unicode UTF-8 提供全球语言支持
        "Disable_Network_Location_Wizard" # 网络位置向导
        "Disable_Cleanup_Appx_Tasks" # Appx 清理维护任务
        "Disable_Cleanup_On_Demand_Language" # 阻止清理未使用的按需功能语言包
        "Disable_Cleanup_Unsed_Language" # 阻止清理未使用的语言包
        "Prerequisites_Reboot" # 重新启动计算机
       #完成首次部署
# "Popup_Engine" # 允许首次弹出部署引擎主界面
# "Allow_First_Pre_Experience" # 允许首次预体验,按计划
       "Reset_Execution_Policy" # 恢复 PowerShell 执行策略: 受限
        "Clear_Solutions"#删除整个解决方案
        "Clear_Engine"#删除部署引擎,保留其它
# "First_Experience_Reboot" # 重新启动计算机
ForEach ($item in $Flag) {
      Write-host " $($item)" -ForegroundColor Green
       \label{lem-path below-lem-path bel
SilentlyContinue | Out-Null
       Out-File - File Path "D: \OS_11 \sources \` \$OEM\$ \` \$1 \Yi \Engine \Deploy \Allow \$ (\$item) "-Encoding utf8-line \Allow \$ (\$item) - Encoding utf8-line \Allow 
ErrorAction SilentlyContinue
```

1.2. 添加到已挂载

通过"自定义部署映像: Install.wim",执行"开始挂载 Install.wim",挂载到: D:\OS_11_Custom\Install\Install\Mount

1.2.1. 无人值守

复制 D:\Multilingual_Learn\Unattend\Mul.Unattend.xml 到 D:\OS_11_Custom\Install\Install\Mount\Panther\Unattend.xml

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
```

 $New-Item-Path "D: \OS_11_Custom \Install \Mount \Yi\Engine \Deploy \Allow"-Item Type Directory-Error Action Silently Continue | Out-Null \Normal Custom \N$

 $Out-File-FilePath "D: \OS_11_Custom \Install \Mount \Yi\Engine \Deploy \Allow \$ (\$item) "-Encoding utf8-Error \Action Silently \Continue$

}

- 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>

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>
```

2.2.2.2. 自定义用户

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



2.2.2.2.1. 删除

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

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

2.2.2.2.2. 替换

从开始处 <OOBE> 到 </OOBE>

<OOBE>

- <ProtectYourPC>3</ProtectYourPC>
- <hi><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

https://github.com/ilikeyi/solutions/raw/main/_Software/Oscdimg/arm64/oscdimg.exe

- 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
 - $o \qquad https://github.com/ilikeyi/solutions/blob/main/_Learn/Packaging.tutorial/OS.11/22H2/Expand/ISO.ps1$
 - 复制代码

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



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。



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文档版本: 1.0

文档模型: 精简版

更新日期: 2024 - 4

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