MICROSOFT WINDOWS 10

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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D.

章节1 部署映像

A. 先决条件

Ⅱ 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 10 22H2, Build 19045.2006 + KB5027215 = OS Build 19045.3086

1.2. 准备下载初始版本或开发者版本

- 1.2.1. en-us_windows_10_business_editions_version_22h2_x64_dvd_8cf17b79.iso
- 1.2.2. en-us_windows_10_consumer_editions_version_22h2_x64_dvd_8da72ab3.iso
- 1.3. 示例下载 en-us_windows_10_business_editions_version_22h2_x64_dvd_8cf17b79.iso 后,解压到: D:\en-us_windows_10_business_editions_version_22h2_x64_dvd_8cf17b79
- 1.4. 解压完成后,将目录 en-us_windows_10_business_editions_version_22h2_x64_dvd_8cf17b79 更改为 D:\OS_10
- 1.5. 所有脚本、所有路径,已默认设置为 D:\OS_10 为映像来源。

2. 语言包

2.1. 学习

阅读时,请了解"蓝色"重要突出部分。

- 2.1.1. 语言概述
- 2.1.2. 将语言添加到 Windows 10 映像
- 2.1.3. 语言和区域按需功能 (FOD)

2.2. 语言包: 下载

https://software-download.microsoft.com/download/pr/19041.1.191206-1406.vb_release_CLIENTLANGPACKDVD_OEM_MULTI.iso

2.3. 功能包: 下载

X64: https://software-download.microsoft.com/download/pr/19041.1.191206-1406.vb_release_amd64fre_FOD-PACKAGES_OEM_PT1_amd64fre_MULTI.iso

3. InBox Apps

https://software-static.download.prss.microsoft.com/dbazure/888969d5-f34g-4e03-ac9d-1f9786c66749/19041.3031.230508-1728.vb_release_svc_prod3_amd64fre_InboxApps.iso

Ⅲ 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。

B. 语言包: 提取

- Ⅱ 语言包:准备
 - 1. 语言包: 挂载

挂载 19041.1.191206-1406.vb_release_CLIENTLANGPACKDVD_OEM_MULTI.iso 或解压到任意位置;

2. 功能包: 挂载

请正确选择架构版本,提取错误的语言包,安装会报错误。

X64: 19041.1.191206-1406.vb_release_amd64fre_FOD-PACKAGES_OEM_PT1_amd64fre_MULTI.iso

- 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
- 3. 架构: x64

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/_Documents/Attachment/OS.10/22H2/Expand/Extract.ps1

• 复制代码

```
$ISO = "Auto"
$SaveTo = "D:\OS_10_Custom"
$Extract_language_Pack = @(
      @{ Tag = "zh-CN"; Arch = "AMD64"; Act = "Add"; Scope = @("Install\Install"; "Install\WinRE"; "Boot\Boot") }
      @{ Tag = "en-US"; Arch = "AMD64"; Act = "Del"; Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot" ) }
Function Extract_Language
{
      param($NewArch, $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-IQ", "ar-KM", "ar-KW", "ar-LB", "ar-LB", "ar-EG", "ar-ER", "ar-IL", "ar-IQ", "ar-I
LY", "ar-MA", "ar-MR", "ar-OM", "ar-PS", "ar-QA", "ar-SD", "ar-SO", "ar-SS", "ar-SY", "ar-TD", "ar-TN", "ar-YE", "arz-Arab", "ckb-Arab", "fa-
AF", "fa-IR", "glk-Arab", "ha-Arab", "ks-Arab", "ks-Arab-IN", "ku-Arab", "ku-Arab-IQ", "mzn-Arab", "pa-Arab", "pa-Arab-PK", "pnb-Arab", "prs",
"prs-AF", "prs-Arab", "ps", "ps-AF", "sd-Arab", "sd-Arab-PK", "tk-Arab", "ug", "ug-Arab", "ug-CN", "ur", "ur-IN", "ur-PK", "uz-Arab", "uz-Arab-AF");
Name = "Arab"; }
                   @{ Match = @("bn-IN", "as-IN", "bn", "bn-BD", "bpy-Beng"); Name = "Beng"; }
                   @{ Match = @("da-dk", "iu-Cans", "iu-Cans-CA"); Name = "Cans"; }
                   @{ Match = @("chr-Cher-US", "chr-Cher"); Name = "Cher"; }
                   @{ Match = @("hi-IN", "bh-Deva", "brx", "brx-Deva", "brx-IN", "hi", "ks-Deva", "mai", "mr", "mr-IN", "ne-IN", "ne-NP", "new-Deva", "pi-
Deva", "sa", "sa-Deva", "sa-IN"); Name = "Deva"; }
                   @{ Match = @("am", "am-ET", "byn", "byn-ER", "byn-Ethi", "ti", "ti-ER", "ti-ET", "tig-ER", "tig-Ethi", "ve-Ethi", "wal", "wal-ET", "wal-ET", "wal-ET", "wal-ET", "tig-Ethi", "tig-Ethi", "tig-Ethi", "tig-Ethi", "tig-Ethi", "tig-Ethi", "tig-Ethi", "wal-ET", "
```

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

```
if (($item.Match) -Contains $Lang) {
              return $item.Name
    return "Skip_specific_packages"
Function Extract_Process
    param($Package, $Name, $NewSaveTo)
     \ensuremath{$\text{NewSaveTo}}\ = "$($SaveTo)\$($NewSaveTo)\Language\$($Act)\$($NewLang)"
    New-Item -Path $NewSaveTo -ItemType Directory -ErrorAction SilentlyContinue | Out-Null
    if ($ISO -eq "Auto") {
         Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
              ForEach ($item in $Package) {
                   \verb| TempFilePath = Join-Path + Path + L. Root - ChildPath + Item - Error + ChildPath + Item - Item 
                   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 = @(
         "Microsoft-Windows-LanguageFeatures-Fonts-{DiyLang}-Package~31bf3856ad364e35~AMD64~~.cab"
         "{ARCHC}\langpacks\Microsoft-Windows-Client-Language-Pack_x64_{Lang}.cab"
         "Microsoft-Windows-LanguageFeatures-Basic-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
         "Microsoft-Windows-LanguageFeatures-Handwriting-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
         "Microsoft-Windows-LanguageFeatures-OCR-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
         "Microsoft-Windows-LanguageFeatures-Speech-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
         "Microsoft-Windows-LanguageFeatures-TextToSpeech-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
         "Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
         "Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
         "Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~{ARCH}~{Lang}~.cab"
         "Microsoft-Windows-Notepad-FoD-Package \sim 31 bf 3856 ad 364 e 35 \sim \{ARCH\} \sim \{Lang\} \sim .cab "additional formula of the control 
         "Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
         "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
          "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
          "Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
          "Microsoft-Windows-Printing-WFS-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
          "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
          "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
         "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
          "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
```

```
"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-appxpackaging_{Lang}.cab"
  "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wifi_{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-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-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-wmi_{Lang}.cab"
 $NewFonts = Match_Required_Fonts -Lang $NewLang
 $SpecificPackage = Match_Other_Region_Specific_Requirements -Lang $NewLang
 $NewArchC = $NewArch.Replace("AMD64", "x64")
 Foreach ($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}",
$$pecificPackage).Replace("{ARCH}", $NewArch).Replace("{ARCHC}", $NewArchC)
      Extract_Process -NewSaveTo $itemList.Path -Package $Language -Name $item
For Each ($item in $Extract_language_Pack) { Extract_Language -Act $item.Act -NewLang $item.Tag -NewArch $item.Arch -Expand
$item.Scope }
```

C. 自定义部署映像

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

映像名称、映像描述、映像大小、架构、版本、索引号等;

\$ViewFile = "D:\OS_10\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

 $New-Item\ -Path\ "D:\ OS_10_Custom\ Install\ Mount"\ -ItemType\ directory\ -ea\ Silently Continue$

3. 开始挂载 Install.wim

默认索引号: 1

Mount-WindowsImage -ImagePath "D:\OS_10\sources\install.wim" -Index "1" -Path "D:\OS_10_Custom\Install\Install\Mount"

处理 Install.wim 映像内的文件,可选项,开始,

3.1. 自定义部署映像: WinRE.wim

注意:

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

映像名称、映像描述、映像大小、架构、版本、索引号等;

 $\label{thm:local_continuity} $$ \text{"D:}OS_10_Custom\Install\Mount\Windows\System32\Recovery\WinRE.wim"} $$$

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

3.1.2. 指定挂载 WinRE.wim 路径

 $New-Item\ -Path\ "D: \ OS_10_Custom \ Install \ WinRE \ Mount"\ -Item Type\ directory\ -ea\ Silently Continue$



3.1.3. 开始挂载 WinRE.wim

默认索引号: 1

Mount-WindowsImage -ImagePath
"D:\OS_10_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim" -Index "1" -Path
"D:\OS_10_Custom\Install\WinRE\Mount"

3.1.4. 语言包

- 自动安装语言包:获取"组件:映像中已安装的所有包"后进行匹配,匹配到对应的名称后,再安装本地对应的语言包文件,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/_Documents/Attachment/OS.10/22H2/Exp and/Install/WinRE/WinRE.Instl.lang.ps1

• 复制代码

```
$Mount = "D:\OS_10_Custom\Install\WinRE\Mount"
$Sources = "D:\OS_10_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 = @(
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
```

```
@{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
 @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_zh-CN.cab"; }
 @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_zh-CN.cab"; }
 @{ Match = "*WiFi*"; File = "winpe-wifi_zh-CN.cab"; }
 @{ Match = "*rejuv*"; File = "winpe-rejuv_zh-CN.cab"; }
 @{ Match = "*opcservices*"; File = "winpe-opcservices_zh-CN.cab"; }
 @{ Match = "*hta*"; File = "winpe-hta_zh-CN.cab"; }
ForEach ($Rule in $Language) {
 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
       Write-host " $($_)" -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

 $Get-Windows Package - Path "D: \OS_10_Custom \Install \WinRE \Mount" \mid Out-Grid View$

3.1.4.2.2. 导出到 Csv

\$SaveTo = "D:\OS_10_Custom\Install\WinRE\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS_10_Custom\Install\WinRE\Mount" | Export-CSV - NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

3.1.5. 保存映像

Save-WindowsImage -Path "D:\OS_10_Custom\Install\WinRE\Mount"

3.1.6. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS_10_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
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/WinRE.Rebuild.ps1

复制代码

 $FileName = "D:\OS_10_Custom\Install\Mount\Windows\System32\Recovery\WinRE.wim"$

 $Get-Windows Image - Image Path \$Filename - Error Action Silently Continue \mid For Each-Object \{ and Action Silently Continue \mid For Each-Object \} \} and the property of the pro$

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

 $Write-Host \$_. ImageName - Foreground Color \ Yellow$

Write-Host " The index number: " -NoNewline

Write-Host \$_.ImageIndex -ForegroundColor Yellow

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

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

Write-Host "Finish`n" -ForegroundColor Green

}

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

Remove-Item -Path \$Filename

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



3.1.8. 备份 WinRE.wim

- WinRE.Backup.ps1
 - o \Expand\Install\WinRE\WinRE.Backup.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/WinRE.Backup.ps1

• 复制代码

\$WimLibPath = "D:\OS_10_Custom\Install\Install\Update\Winlib"

 $FileName = "D:\OS_10_Custom\Install\Mount\Windows\System32\Recovery\WinRE.wim"$

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
 - $o \verb| \Expand \ln tall \ln tall. In stl. lang. ps 1|$
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/Install.Instl.lang.ps1



复制代码

```
Function Language_Install
{
  param($Mount, $Sources, $Lang)
  $Initl_install_Language_Component = @()
  if (Test-Path $Mount -PathType Container) {
   Get-WindowsPackage -Path $Mount | ForEach-Object { $Initl_install_Language_Component += $_.PackageName }
 } else {
   Write-Host "Not mounted: $($Mount)"
   return
  $Script:Init_Folder_All_File = @()
  if (Test-Path "$($Sources)\$($Lang)" -PathType Container) {
   Get-ChildItem -Path $Sources -Recurse -Include "*.cab" -ErrorAction SilentlyContinue | ForEach-Object {
     $Script:Init_Folder_All_File += $_.FullName
   Write-host "`n Available language pack installation files"
   if ($Script:Init_Folder_All_File.Count -gt 0) {
     ForEach ($item in $Script:Init_Folder_All_File) {
       Write-host " $($item)"
   } else {
     Write-host "There are no language pack files locally"
     return
 } else {
   Write-Host "Path does not exist: $($Sources)\$($Lang)"
   return
  $Script:Init_Folder_All_File_Match_Done = @()
  $Script:Init_Folder_All_File_Exclude = @()
  $Script:Search_File_Order = @(
   @{
     Name = "Fonts"
```

```
Description = "Fonts"
                 Rule = @(
                     @{ Match_Name = "*Fonts*"; IsMatch = "No"; Capability = ""; }
           @{
                Name = "Basic"
                Description = "Basic"
                 Rule = @(
                     @{ Match_Name = "*LanguageFeatures-Basic*"; IsMatch = "Yes"; Capability = "Language.Basic~~~$($Lang)~0.0.1.0"; }
                      @\{ Match_Name = "*Client*Language*Pack*"; IsMatch = "Yes"; Capability = "Language.Basic" ($Lang) = 0.0.1.0"; \} \\ ($Language*Pack*"; IsMatch = "Yes"; Capability = "Language.Basic") ($Language.Basic*") ($Language.
           @{
                Name = "OCR"
                Description = "Optical character recognition"
                 Rule = @(
                     @{ Match_Name = "*LanguageFeatures-OCR*"; IsMatch = "Yes"; Capability = "Language.OCR~~~$($Lang)~0.0.1.0"; }
           @{
               Name = "Handwriting"
                Description = "Handwriting recognition"
                 Rule = @(
                     @{ Match_Name = "*LanguageFeatures-Handwriting*"; IsMatch = "Yes"; Capability =
"Language.Handwriting~~~$($Lang)~0.0.1.0";}
           @{
                Name = "TextToSpeech"
                Description = "Text-to-speech"
                 Rule = @(
                     @{ Match_Name = "*LanguageFeatures-TextToSpeech*"; IsMatch = "Yes"; Capability =
"Language.TextToSpeech~~~$($Lang)~0.0.1.0";}
```

```
@{
     Name = "Speech"
     Description = "Speech recognition"
     Rule = @(
      @{ Match_Name = "*LanguageFeatures-Speech*"; IsMatch = "Yes"; Capability =
"Language.Speech~~~$($Lang)~0.0.1.0"; }
    )
   @{
     Name = "RegionSpecific"
     Description = "Other region-specific requirements"
     Rule = @(
      @{ Match_Name = "*InternationalFeatures*"; IsMatch = "No"; Capability = ""; }
   @{
     Name = "Retail"
     Description = "Retail demo experience"
     Rule = @(
      @{ Match_Name = "*RetailDemo*"; IsMatch = "Yes"; Capability = ""; }
   @{
     Name = "Features_On_Demand"
     Description = "Features on demand"
     Rule = @(
       @{ Match_Name = "*InternetExplorer*"; IsMatch = "Yes"; Capability = ""; }
       @{ Match_Name = "*MSPaint*amd64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.MSPaint~~~0.0.1.0"; }
       @{ Match_Name = "*MSPaint*wow64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.MSPaint~~~0.0.1.0"; }
       @{ Match_Name = "*Notepad*amd64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.Notepad~~~~0.0.1.0"; }
        @\{ Match\_Name = "*Notepad*wow64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.Notepad~~~0.0.1.0"; \} \\
       @{ Match_Name = "*MediaPlayer*amd64*"; IsMatch = "Yes"; Capability =
"Media.WindowsMediaPlayer~~~0.0.12.0"; }
       @{ Match_Name = "*MediaPlayer*wow64*"; IsMatch = "Yes"; Capability =
"Media.WindowsMediaPlayer~~~0.0.12.0"; }
```

```
@{ Match_Name = "*PowerShell-ISE-FOD-Package*amd64*"; IsMatch = "Yes"; Capability =
"Microsoft.Windows.PowerShell.ISE~~~0.0.1.0"; }
      @{ Match_Name = "*PowerShell-ISE-FOD-Package*wow64*"; IsMatch = "Yes"; Capability =
"Microsoft.Windows.PowerShell.ISE~~~0.0.1.0"; }
       @{ Match_Name = "*Printing*PMCPPC*amd64*"; IsMatch = "Yes"; Capability =
"Print.Management.Console~~~0.0.1.0"; }
       @{ Match_Name = "*Printing*WFS*amd64*"; IsMatch = "Yes"; Capability = "Print.Management.Console~~~~0.0.1.0"; }
       @{ Match_Name = "*StepsRecorder*amd64*"; IsMatch = "Yes"; Capability = "App.StepsRecorder~~~0.0.1.0"; }
       @{ Match_Name = "*StepsRecorder*wow64*"; IsMatch = "Yes"; Capability = "App.StepsRecorder~~~0.0.1.0"; }
       @{ Match_Name = "*WordPad*amd64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.WordPad~~~~0.0.1.0"; }
       @{ Match_Name = "*WordPad*wow64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.WordPad~~~~0.0.1.0"; }
       @{ Match_Name = "*WMIC*FoD*Package*amd64*"; IsMatch = "Yes"; Capability = "WMIC~~~~"; }
      @{ Match_Name = "*WMIC*FoD*Package*wow64*"; IsMatch = "Yes"; Capability = "WMIC~~~"; }
 ForEach ($item in $Script:Search_File_Order) { New-Variable -Name "Init_File_Type_$($item.Name)" -Value @() -Force }
 ForEach ($WildCard in $Script:Init_Folder_All_File) {
   ForEach ($item in $Script:Search_File_Order) {
     ForEach ($NewRule in $item.Rule) {
      if ($WildCard -like "*$($NewRule.Match_Name)*") {
        Write-host "`n Fuzzy matching: "-NoNewline; Write-host $NewRule.Match_Name -ForegroundColor Green
        Write-host "Language pack file: "-NoNewline; Write-host $WildCard -ForegroundColor Green
        $OSDefaultUser = (Get-Variable -Name "Init_File_Type_$($item.Name)" -ErrorAction SilentlyContinue).Value
        $TempSave = @{ Match_Name = $NewRule.Match_Name; Capability = $NewRule.Capability; FileName =
$WildCard }
        $new = $OSDefaultUser + $TempSave
        if ($NewRule.IsMatch -eq "Yes") {
          ForEach ($Component in $Initl_install_Language_Component) {
            if ($Component -like "*$($NewRule.Match_Name)*") {
             Write-host " Component name: " -NoNewline; Write-host $Component -ForegroundColor Green
             New-Variable -Name "Init_File_Type_$($item.Name)" -Value $new -Force
             $Script:Init_Folder_All_File_Match_Done += $WildCard
             break
```

```
} else {
                       Write-host " Do not match, install directly" -ForegroundColor Yellow
                       New-Variable -Name "Init_File_Type_$($item.Name)" -Value $new -Force
                       $Script:Init_Folder_All_File_Match_Done += $WildCard
Write-host "`n Grouping is complete, pending installation" -ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($WildCard in $Script:Search_File_Order) {
     OSDefaultUser = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - (Get-Variable - Name "Init_Fil
    \label{lem:write-host} \begin{tabular}{ll} Write-host "`n $($WildCard.Description) ( $($OSDefaultUser.Count) item )" \end{tabular}
     if ($OSDefaultUser.Count -gt 0) {
          ForEach ($item in $OSDefaultUser) {
              Write-host " $($item.FileName)" -ForegroundColor Green
   } else {
         Write-host " Not available" -ForegroundColor Red
Write-host "`n Not matched, no longer installed" -ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($item in $Script:Init_Folder_All_File) {
     if ($Script:Init_Folder_All_File_Match_Done -notcontains $item) {
          $Script:Init_Folder_All_File_Exclude += $item
          Write-host " $($item)" -ForegroundColor Red
Write-host "`n Install" -ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($WildCard in $Script:Search_File_Order) {
     $OSDefaultUser = (Get-Variable -Name "Init_File_Type_$($WildCard.Name)" -ErrorAction SilentlyContinue). Value
```

```
Write-host "`n $($WildCard.Description) ($($OSDefaultUser.Count) item)"; Write-host "$('-' * 80)"
            if ($OSDefaultUser.Count -gt 0) {
                   ForEach ($item in $OSDefaultUser) {
                        Write-host " Language pack file: " -NoNewline; Write-host $item.FileName -ForegroundColor Green
                        Write-Host " Installing ".PadRight(22) -NoNewline
                        if (Test-Path $item.FileName -PathType Leaf) {
                              try {
                                     Add-WindowsPackage -Path $Mount -PackagePath $item.FileName | Out-Null
                                     Write-host "Finish`n" -ForegroundColor Green
                              } catch {
                                     Write-host "Failed" -ForegroundColor Red
                                    Write-host " $($_)" -ForegroundColor Red
                        } else {
                              Write-host "Does not exist`n"
           } else {
                 Write-host "Not available `n" -ForegroundColor Red
Language\_Install - Mount "D: \OS\_10\_Custom \Install \Mount" - Sources
"D:\label{lem:condition} Install\label{lem:condition} Install\label{lem:condition} Language\label{lem:condition} Add"-Language\label{lem:condition} Language\label{lem:condition} Language\label{lem:condition} Install\label{lem:condition} Install\label{lem:condition} Language\label{lem:condition} Install\label{lem:condition} Language\label{lem:condition} Install\label{lem:condition} Install\label{lem:condition} Language\label{lem:condition} Install\label{lem:condition} Install\label{lem:condition} Language\label{lem:condition} Language\labe
```

4.2. 组件:映像中已安装的所有包

4.2.1. 查看

 $Get-Windows Package - Path "D: \OS_10_Custom \Install \Install \Mount" | Out-Grid View \Additional \Color \Additional \Color \Additional \Color \Additional \Additional \Additional \Color \Additional \Addition$

4.2.2. 导出到 Csv

\$SaveTo = "D:\OS_10_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS_10_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

5.1. InBox Apps:已安装

5.1.1. 查看

5.1.2. 导出到 Csv

 $SaveTo = D:OS_10_Custom\Install\Report.$(Get-Date - Format "yyyyMMddHHmmss").csv"$

Get-AppXProvisionedPackage -Path "D:\OS_10_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
 - o \Expand\Install\Install.InBox.Appx.Clear.all.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install.InBox.
 Appx.Clear.all.ps1

• 复制代码

```
Get-AppXProvisionedPackage -path "D:\OS_10_Custom\Install\Install\Mount" -ErrorAction SilentlyContinue | ForEach-Object {

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

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

try {

Remove-AppxProvisionedPackage -Path "D:\OS_10_Custom\Install\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_10_Custom\Install\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:

Microsoft.LanguageExperiencePackzh-CN_22621.*. neutral_8wekyb3d8bbwe.appx

5.3.2.2.2.3. 下载后保存到 D:\OS_10_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 LanguageExperiencePack.zh-cn.Neutral 后,执行安装命令:

Add-AppxProvisionedPackage -Path "D:\OS_10_Custom\Install\Install\Mount" -PackagePath "D:\OS_10_Custom\Install\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

 $\label{lem:condition} Get-AppXProvisionedPackage - Path "D: \OS_10_Custom \Install \Mount" \mid Out-Grid View$

5.3.2.4.2. 导到出 Csv

 $\label{lem:condition} $SaveTo = "D:\OS_10_Custom\Install\Install\Report.$(Get-Date\-Format\"yyyyMMddHHmmss").csv"$

Get-AppXProvisionedPackage -Path "D:\OS_10_Custom\Install\Install\Mount" |



5.4. InBox Apps:安装

5.4.1. 挂载或解压 InBox Apps 安装文件

挂载 19041.3031.230508-1728.vb_release_svc_prod3_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"
- Install.Inst.InBox.Appx.ps1
 - o \Expand\Install\Install.Inst.InBox.Appx.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/Install.Inst.InBox.Appx.ps1

• 复制代码

```
$ISO = "Auto"
$Mount = "D:\OS_10_Custom\Install\Install\Mount"
try {
 Write-host "`n Offline image version: " -NoNewline
  $Current_Edition_Version = (Get-WindowsEdition -Path $Mount).Edition
 Write-Host $Current_Edition_Version -ForegroundColor Green
} catch {
 Write-Host "Error" -ForegroundColor Red
 Write-Host " $($_)" -ForegroundColor Yellow
 return
$Pre_Config_Rules = @(
  @{
   Name = @("Core"; "CoreN"; "CoreSingleLanguage";)
   Apps = @(
     "Microsoft.UI.Xaml.2.3"; "Microsoft.UI.Xaml.2.4"; "Microsoft.UI.Xaml.2.7";
"Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00";
"Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.HEIFImageExtension"; "Microsoft.HEVCVideoExtension";
"Microsoft.SecHealthUI"; "Microsoft.VP9VideoExtensions"; "Microsoft.WebpImageExtension";
```

```
"Microsoft.WindowsStore"; "Microsoft.GamingApp"; "Microsoft.Sticky.Notes"; "Microsoft.Paint";
"Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad";
"Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.Solitaire.Collection";
"Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps";
"Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera";
"Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.BingWeather"; "Microsoft.GetHelp";
"Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos";
"Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.Windows.CommunicationsApps"; "Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI";
"Microsoft.XboxGameOverlay"; "Microsoft.XboxGamingOverlay"; "Microsoft.XboxIdentityProvider";
"Microsoft.XboxSpeechToTextOverlay";
"Microsoft.YourPhone"; "Microsoft.ZuneVideo"; "MicrosoftCorporationII.QuickAssist";
"MicrosoftWindows.Client.WebExperience"; "Microsoft.RawImageExtension";
"MicrosoftCorporationII.MicrosoftFamily";
  @{
   Name = @("Education"; "Professional"; "ProfessionalEducation"; "ProfessionalWorkstation"; "Enterprise";
"IoTEnterprise"; "ServerRdsh";)
   Apps = @(
     "Microsoft.UI.Xaml.2.3"; "Microsoft.UI.Xaml.2.4"; "Microsoft.UI.Xaml.2.7";
"Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00";
"Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.HEIFImageExtension"; "Microsoft.HEVCVideoExtension";
"Microsoft.SecHealthUI"; "Microsoft.VP9VideoExtensions"; "Microsoft.WebpImageExtension";
"Microsoft.WindowsStore"; "Microsoft.GamingApp"; "Microsoft.Sticky.Notes"; "Microsoft.Paint";
"Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad";
"Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.Solitaire.Collection";
"Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps";
"Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera";
"Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.BingWeather"; "Microsoft.GetHelp";
"Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos";
"Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.Windows.CommunicationsApps"; "Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI";
"Microsoft.XboxGameOverlay"; "Microsoft.XboxGamingOverlay"; "Microsoft.XboxIdentityProvider";
"Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "Microsoft.ZuneVideo";
"MicrosoftCorporationII.QuickAssist"; "MicrosoftWindows.Client.WebExperience";
"Microsoft.RawImageExtension";
 @{
   Name = @("EnterpriseN"; "EnterpriseSN"; "ProfessionalN"; "EducationN";
"ProfessionalWorkstationN"; "ProfessionalEducationN"; "CloudN"; "CloudEN"; "CloudEditionN";
"CloudEditionLN"; "StarterN";)
   Apps = @(
     "Microsoft.UI.Xaml.2.3"; "Microsoft.UI.Xaml.2.4"; "Microsoft.UI.Xaml.2.7";
"Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00";
"Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.SecHealthUI"; "Microsoft.WindowsStore";
"Microsoft.Sticky.Notes"; "Microsoft.Paint"; "Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch";
```

```
"Microsoft.WindowsNotepad"; "Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp";
"Microsoft.Solitaire.Collection"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub";
"Microsoft.WindowsMaps"; "Microsoft.BingNews"; "Microsoft.DesktopAppInstaller";
"Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.BingWeather";
"Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp";
"Microsoft.Todos"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.Windows.CommunicationsApps"; "Microsoft.XboxGameOverlay"; "Microsoft.XboxIdentityProvider";
"Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "MicrosoftCorporationII.QuickAssist";
"MicrosoftWindows.Client.WebExperience";
$Allow_Install_App = @()
ForEach ($item in $Pre_Config_Rules) {
  if ($item.Name -contains $Current_Edition_Version) {
   Write-host "`n Match to: "-NoNewline
   Write-host $Current_Edition_Version -ForegroundColor Green
    $Allow_Install_App = $item.Apps
   break
Write-host "`n The app to install ( $($Allow_Install_App.Count) item )" -ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($item in $Allow_Install_App) {
  Write-host " $($item)" -ForegroundColor Green
$InBoxApps = @(
  @{ Name = "Microsoft.UI.Xaml.2.3"; File = "Microsoft.UI.Xaml.x64.2.3.appx"; License = ""; }
  @{ Name = "Microsoft.UI.Xaml.2.4"; File = "Microsoft.UI.Xaml.x64.2.4.appx"; License = ""; }
  @{ Name = "Microsoft.UI.Xaml.2.7"; File = "Microsoft.UI.Xaml.x64.2.7.appx"; License = ""; }
  @{ Name = "Microsoft.NET.Native.Framework.2.2"; File = "Microsoft.NET.Native.Framework.x64.2.2.appx";
License = ""; }
  @{ Name = "Microsoft.NET.Native.Runtime.2.2"; File = "Microsoft.NET.Native.Runtime.x64.2.2.appx"; License =
"";}
  @{ Name = "Microsoft.VCLibs.140.00"; File = "Microsoft.VCLibs.x64.14.00.appx"; License = ""; }
  @{ Name = "Microsoft.VCLibs.140.00.UWPDesktop"; File = "Microsoft.VCLibs.x64.14.00.UWPDesktop.appx";
License = ""; }
  @{ Name = "Microsoft.WindowsStore"; File = "Microsoft.WindowsStore_8wekyb3d8bbwe.msixbundle"; License
= "Microsoft.WindowsStore_8wekyb3d8bbwe.xml"; }
```

```
@{ Name = "Microsoft.HEIFImageExtension"; File =
"Microsoft.HEIFImageExtension_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.HEIFImageExtension_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.HEVCVideoExtension"; File =
"Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.appx"; License =
"Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.xml"; }
 @{ Name = "Microsoft.SecHealthUI"; File = "Microsoft.SecHealthUI_8wekyb3d8bbwe.x64.appx"; License =
"Microsoft.SecHealthUI_8wekyb3d8bbwe.x64.xml"; }
 @{ Name = "Microsoft.VP9VideoExtensions"; File = "Microsoft.VP9VideoExtensions_8wekyb3d8bbwe.x64.appx";
License = "Microsoft.VP9VideoExtensions_8wekyb3d8bbwe.x64.xml"; }
 @{ Name = "Microsoft.WebpImageExtension"; File =
"Microsoft.WebpImageExtension_8wekyb3d8bbwe.x64.appx"; License =
"Microsoft.WebpImageExtension_8wekyb3d8bbwe.x64.xml"; }
 @{ Name = "Microsoft.GamingApp"; File = "Microsoft.GamingApp_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.GamingApp_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Sticky.Notes"; File = "Microsoft.MicrosoftStickyNotes_8wekyb3d8bbwe.msixbundle";
License = "Microsoft.MicrosoftStickyNotes_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Paint"; File = "Microsoft.Paint_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.Paint_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.PowerAutomateDesktop"; File =
"Microsoft.PowerAutomateDesktop_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.PowerAutomateDesktop_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.ScreenSketch"; File = "Microsoft.ScreenSketch_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.ScreenSketch_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsNotepad"; File = "Microsoft.WindowsNotepad_8wekyb3d8bbwe.msixbundle";
License = "Microsoft.WindowsNotepad_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsTerminal"; File = "Microsoft.WindowsTerminal_8wekyb3d8bbwe.msixbundle";
License = "Microsoft.WindowsTerminal_8wekyb3d8bbwe.xml"; }
 @{ Name = "Clipchamp.Clipchamp"; File = "Clipchamp.Clipchamp_yxz26nhyzhsrt.msixbundle"; License =
"Clipchamp_yxz26nhyzhsrt.xml"; }
 @{ Name = "Microsoft.Solitaire.Collection"; File =
"Microsoft.MicrosoftSolitaireCollection_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.MicrosoftSolitaireCollection_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsAlarms"; File = "Microsoft.WindowsAlarms_8wekyb3d8bbwe.msixbundle";
License = "Microsoft.WindowsAlarms_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsFeedbackHub"; File =
"Microsoft.WindowsFeedbackHub_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.WindowsFeedbackHub_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsMaps"; File = "Microsoft.WindowsMaps_8wekyb3d8bbwe.msixbundle"; License
= "Microsoft.WindowsMaps_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.ZuneMusic"; File = "Microsoft.ZuneMusic_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.ZuneMusic_8wekyb3d8bbwe.xml"; }
 @{ Name = "MicrosoftCorporationII.MicrosoftFamily"; File =
"MicrosoftCorporationII.MicrosoftFamily_8wekyb3d8bbwe.msixbundle"; License =
"MicrosoftCorporationII.MicrosoftFamily_8wekyb3d8bbwe.xml"; }
```

```
@{ Name = "Microsoft.BingNews"; File = "Microsoft.BingNews_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.BingNews_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.DesktopAppInstaller"; File =
"Microsoft.DesktopAppInstaller_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.DesktopAppInstaller_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsCamera"; File = "Microsoft.WindowsCamera_8wekyb3d8bbwe.msixbundle";
License = "Microsoft.WindowsCamera_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Getstarted"; File = "Microsoft.Getstarted_8wekyb3d8bbwe.msixbundle"; License =
"Microsoft.Getstarted_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Cortana"; File = "Microsoft.CortanaApp_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.CortanaApp_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.BingWeather"; File = "Microsoft.BingWeather_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.BingWeather_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.GetHelp"; File = "Microsoft.GetHelp_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.GetHelp_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.MicrosoftOfficeHub"; File =
"Microsoft.MicrosoftOfficeHub_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.MicrosoftOfficeHub_8wekyb3d8bbwe.xml"; }
  @{ Name = "Microsoft.People"; File = "Microsoft.People_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.People_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.StorePurchaseApp"; File = "Microsoft.StorePurchaseApp_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.StorePurchaseApp_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Todos"; File = "Microsoft.Todos_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.Todos_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WebMediaExtensions"; File =
"Microsoft.WebMediaExtensions_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.WebMediaExtensions_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Windows.Photos"; File = "Microsoft.Windows.Photos_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.Windows.Photos_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsCalculator"; File =
"Microsoft.WindowsCalculator_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.WindowsCalculator_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Windows.CommunicationsApps"; File =
"Microsoft.WindowsCommunicationsApps_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.WindowsCommunicationsApps_8wekyb3d8bbwe.xml"; }
  @{ Name = "Microsoft.WindowsSoundRecorder"; File =
"Microsoft.WindowsSoundRecorder_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.WindowsSoundRecorder_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.Xbox.TCUI"; File = "Microsoft.Xbox.TCUI_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.Xbox.TCUI_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.XboxGameOverlay"; File = "Microsoft.XboxGameOverlay_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.XboxGameOverlay_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.XboxGamingOverlay"; File =
"Microsoft.XboxGamingOverlay_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.XboxGamingOverlay_8wekyb3d8bbwe.xml"; }
```

```
@{ Name = "Microsoft.XboxIdentityProvider"; File =
"Microsoft.XboxIdentityProvider_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.XboxIdentityProvider_8wekyb3d8bbwe.xml"; }
  @{ Name = "Microsoft.XboxSpeechToTextOverlay"; File =
"Microsoft.XboxSpeechToTextOverlay_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.XboxSpeechToTextOverlay_8wekyb3d8bbwe.xml"; }
  @{ Name = "Microsoft.YourPhone"; File = "Microsoft.YourPhone_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.YourPhone_8wekyb3d8bbwe.xml"; }
  @{ Name = "Microsoft.ZuneVideo"; File = "Microsoft.ZuneVideo_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.ZuneVideo_8wekyb3d8bbwe.xml"; }
  @{ Name = "MicrosoftCorporationII.QuickAssist"; File =
"MicrosoftCorporationII.QuickAssist_8wekyb3d8bbwe.appxbundle"; License =
"MicrosoftCorporationII.QuickAssist_8wekyb3d8bbwe.xml"; }
  @{ Name = "MicrosoftWindows.Client.WebExperience"; File =
"MicrosoftWindows.Client.WebExperience_cw5n1h2txyewy.appxbundle"; License =
"MicrosoftWindows.Client.WebExperience_cw5n1h2txyewy.xml"; }
  @{ Name = "Microsoft.RawImageExtension"; File =
"Microsoft.RawImageExtension_8wekyb3d8bbwe.appxbundle"; License =
"Microsoft.RawImageExtension_8wekyb3d8bbwe.xml"; }
Function Install_Appx
 param($File, $License)
 Write-host " $('-' * 80)"
 Write-host " Installing: "-NoNewline; Write-host $File -ForegroundColor Yellow
 if (Test-Path -Path $File -PathType Leaf) {
   if (Test-Path -Path $License -PathType Leaf) {
     Write-host " License: "-NoNewline; Write-host $License -ForegroundColor Yellow
     Write-host "With License".PadRight(22) -NoNewline -ForegroundColor Green
     Write-host " Installing".PadRight(22) -NoNewline
     try {
      Add-AppxProvisionedPackage -Path $Mount -PackagePath $File -LicensePath $License -ErrorAction
SilentlyContinue | Out-Null
      Write-Host "Done" -ForegroundColor Green
     } catch {
       Write-Host "Failed" -ForegroundColor Red
       Write-Host " $($_)" -ForegroundColor Yellow
   } else {
     Write-host "No License".PadRight(22) -NoNewline -ForegroundColor Red
```

```
Write-host " Installing".PadRight(22) -NoNewline
            try {
                 Add-AppxProvisionedPackage -Path $Mount -PackagePath $File -SkipLicense -ErrorAction
SilentlyContinue | Out-Null
                 Write-Host "Done" -ForegroundColor Green
            } catch {
                 Write-Host "Failed" -ForegroundColor Red
                 Write-Host " $($_)" -ForegroundColor Yellow
        }
    } else {
        Write-host " The installation package does not exist" -ForegroundColor Red
ForEach ($Rule in $InBoxApps) {
    Write-host "`n Name: "-NoNewline
    Write-host $Rule.Name -ForegroundColor Yellow
    Write-host " $('-' * 80)"
    if($Allow_Install_App -contains $Rule.Name) {
        Write-host "Search for apps: "-NoNewline
        Write-host $Rule.File -ForegroundColor Yellow
        Write-host "Search for License: "-NoNewline
        Write-host $Rule.File -ForegroundColor Yellow
        if ($ISO -eq "Auto") {
             Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
                 \alpha = Join-Path - Path _-Root - ChildPath _-Path _-Root - ChildPath _-Path _-Pa
                 $LicensePath = Join-Path -Path $_.Root -ChildPath "packages\$($Rule.License)" -ErrorAction
SilentlyContinue
                  if (Test-Path $AppPath -PathType Leaf) {
                      Write-host " $('-' * 80)"
                      Write-host " Discover apps: "-NoNewLine; Write-host $AppPath -ForegroundColor Green
                      if (Test-Path $LicensePath -PathType Leaf) {; Write-host " Discover License: " -NoNewLine
                          Write-host $LicensePath -ForegroundColor Green
                      } else {
                          Write-host " License: "-NoNewLine
```

```
Write-host "Not found" -ForegroundColor Red

}

Install_Appx -File $AppPath -License $LicensePath

return

}

}

} else {

Install_Appx -File "$($ISO)\$($Rule.File)" -License "$($ISO)\$($Rule.License)"

}

} else {

Write-host " Skip the installation" -ForegroundColor Red

}
```

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。

 $\label{lem:limited} \begin{tabular}{ll} Dism/Image: "D: \OS_10_Custom \Install \Mount"/Optimize-Provisioned Appx Packages \end{tabular}$

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. 功能启用包

- o 学习: KB5015684: 使用启用包对 Windows 10 版本 22H2 的特别推荐更新
- o 注意: 使用 Windows 10 22H2 19045.2006 相同版本和以上版本号时,可跳过功能启用包。
- 制作 Windows 10 版本 2004、20H2、21H1、21H2 时,需提前安装"功能启用包"后才能安装 19045.* 的累积更新, 下载后保存到:D:\OS_10_Custom\Install\Install\Update,根据架构选择下载:
- 6.1.1. x64, 默认
 - 直连下载

 $https://catalog.s.download.windowsupdate.com/c/upgr/2022/07/windows10.0-kb5015684-x64_523c039b86ca98f2d818c4e6706e2cc94b634c4a.msu$



• 安装

 $BPath = D:\OS_{10}\Custom\Install\Update\windows10.0-kb5015684-x64_523c039b86ca98f2d818c4e6706e2cc94b634c4a.msu"$

 $Add-Windows Package-Path~"D:\OS_10_Custom\Install\Install\Mount"-Package-Path~\$KBPath~Nathall\Add-Windows Package-Path~"D:\OS_10_Custom\Install\Add-Windows Package-Path~"D:\OS_10_Custom\Add-Windows Package-Path~"D:\OS_10_Custom\Add-Window$

6.2. 初始版本

累积更新 KB5017308 已无法从 https://www.catalog.update.microsoft.com/Search.aspx?q=KB5017308 里搜索到,通过直连 方式下载后保存到:D:\OS_10_Custom\Install\Update,根据架构选择下载:

6.2.1. x64, 默认

• 直连下载

 $https://catalog.s.download.windowsupdate.com/c/msdownload/update/software/secu/2022/09/windows10.0-kb5017308-x64_2027053968a06948b45d139d95475ab4feee5654.msu$

• 安装

 $$KBPath = "D:\OS_10_Custom\Install\Update\windows 10.0-kb 5017308-x64_2027053968a06948b45d139d95475ab4feee 5654.msu"$

 $Add-Windows Package - Path "D: \OS_10_Custom \Install \Install \Mount" - Package Path $KBPath \Add-Windows \Add-Windows$

6.3. 其它版本

查阅"Windows 10 版本信息",例如下载累积更新:KB5032278,前往下载页面:

https://www.catalog.update.microsoft.com/Search.aspx?q=KB5032278, 下载后保存到:

D:\OS_10_Custom\Install\Install\Update, 或通过直连下载, 根据架构选择下载:

6.3.1. x64, 默认

• 直连下载

 $https://catalog.s.download.windowsupdate.com/d/msdownload/update/software/updt/2023/11/windows10.\\ 0-kb5032278-x64_3a2b384f690eaa92c5030c535ac4a7e47c71a635.msu$

• 添加

 $$KBPath = "D:\OS_10_Custom\Install\Install\Update\windows10.0-kb5032278-x64_3a2b384f690eaa92c5030c535ac4a7e47c71a635.msu"$

 $Add-Windows Package - Path "D: \OS_10_Custom \Install \Mount" - Package Path $KBPath \Add-Windows \Add-Wind$

6.4. 固化更新,可选项



固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

Dism /Image: "D:\OS_10_Custom\Install\Install\Mount" /cleanup-image /StartComponentCleanup /ResetBase

6.4.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS_10_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. 部署引擎:添加,可选

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

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_10_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。

```
$WinRE = "D:\OS_10_Custom\Install\Install\Update\Winlib\WinRE.wim"

$CopyTo = "D:\OS_10_Custom\Install\Install\Mount\Windows\System32\Recovery"

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

10. 保存映像

11. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。



12. 重建 Install.wim 后可缩小文件大小

- Install.Rebuild.wim.ps1
 - \Expand\Install\Install.Rebuild.wim.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/Install.Rebuild.wim.ps1

• 复制代码

```
$InstallWim = "D:\OS_10\sources\install.wim"
Get-WindowsImage - ImagePath $InstallWim - 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 Under reconstruction". PadRight(28) - NoNewline
  Export-WindowsImage -SourceImagePath $\square$ InstallWim -SourceIndex $\_.\square$ ImageIndex -DestinationImagePath "$($\square$ 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
```

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

- o \Expand\Install\Install.WinRE.Replace.wim.ps1
- o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/Install.WinRE.Replace.wim.ps1

• 复制代码

```
$Arguments = @(

"extract",

"D:\OS_10\sources\install.wim", "1",

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

"--dest-dir=""D:\OS_10_Custom\Install\Install\Update\Winlib"""

)

New-Item -Path "D:\OS_10_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
 - o \Expand\Install\Install.WinRE.Replace.wim.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/Install.WinRE.Replace.wim.ps1

• 复制代码

```
Get-WindowsImage -ImagePath "D:\OS_10\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_10\sources\install.wim", $_.ImageIndex,

"--command=""add 'D:\OS_10_Custom\Install\Install\Update\Winlib\WinRE.wim'

"\Windows\System32\Recovery\WinRe.wim""""

)

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

Write-Host " Finish`n" -ForegroundColor Green
```

III 自定义部署映像: boot.wim

1. 查看 Boot.wim 文件信息

映像名称、映像描述、映像大小、架构、版本、索引号等;

```
$ViewFile = "D:\OS_10\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_10_Custom\Boot\Boot\Mount" -ItemType directory -ea SilentlyContinue

3. 开始挂载 Boot.wim

默认索引号: 2

Mount-WindowsImage -ImagePath "D:\OS_10\sources\boot.wim" -Index "2" -Path "D:\OS_10_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
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Boot/Boot.Instl.lang.p
 s1

• 复制代码

```
$Mount = "D:\OS_10_Custom\Boot\Boot\Mount"

$Sources = "D:\OS_10_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 = @(
```

```
@{ 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) {
 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" \, \hbox{-} Foreground Color \, Red
       Write-host " $($_)" -ForegroundColor Red
     break
```

4.2. 组件:映像中已安装的所有包

4.2.1. 查看

 $Get-WindowsPackage - Path "D: \OS_10_Custom \Boot \Boot \Mount" \mid Out-Grid View$

4.2.2. 导出到 Csv

\$SaveTo = "D:\OS_10_Custom\Boot\Boot\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS_10_Custom\Boot\Boot\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

4.3. 语言包:同步到ISO安装程序

Copy-Item -Path "D:\OS_10_Custom\Boot\Boot\Mount\sources\zh-CN" -Destination "D:\OS_10\sources\zh-CN" -Recurse - Force

4.4. 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。

4.4.1. 重新生成已挂载目录 lang.ini

重新生成的 Lang.ini 文件位置: D:\en-

 $us_windows_server_2022_x64_dvd_620d7eac_Custom \\ Boot\\ Boot\\ Mount\\ Sources\\ lang.ini$

4.4.2. 重新生成 lang.ini 后,同步到安装程序

重新生成的 Lang.ini 文件位置: D:\en-us_windows_server_2022_x64_dvd_620d7eac\Sources\lang.ini

 $\label{local_problem} Dism / image: "D: \OS_10_Custom \Boot \Boot \Mount" / gen-langini / distribution: "D: \OS_10" \Boot \B$

5. 保存映像

 $Save-Windows Image \ -Path \ "D:\OS_10_Custom \ Boot\ Boot\ Mount"$

6. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS_10_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:
 - o 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: 1.1.0.4,选择下载源代码格式: zip,下载完成后得到 Multilingual-1.1.0.4.zip 压缩包文件;
- 将已下载的 main.zip 或 Multilingual-1.1.0.4.zip,解压到:D:\Multilingual-1.1.0.4,重命名:D:\Multilingual
- 学习"无人值守 Windows 安装参考",通过无人值守来干预安装过程。
- 1. 添加方式
 - 1.1. 添加到 ISO 安装介质
 - 1.1.1. 无人值守
 - 1.1.1.1. 添加到: [ISO]:\Autounattend.xml

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

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS_10\Autounattend.xml

 $\label{lem:copy-lem:def} \begin{tabular}{ll} Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" - Destination "D:\OS_10\Autounattend.xml" - Force \end{tabular}$

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

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

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS_10\Sources\Unattend.xml

 $\label{lem:copy-lem:def} \begin{tabular}{ll} Copy-Item "D:\OS_10\Sources\Unattend.xml" - Destination "D:\OS_10\S$

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\Unattend\Mul.Unattend.xml 到

D:\OS_10\Sources\\$OEM\$\Panther\Unattend.xml



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_10\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_10\Sources\\$OEM\$\\$1\Yi\Engine

 $\label{lem:copy-lem:def} $$\operatorname{D:\Multilingual\Engine"-Destination "D:\OS_10\sources\` \$OEM\$\` \$1\Yi\Engine"-Recurse-Force $$$

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

Out-File -FilePath "D:\OS_10\sources\`\$OEM\$\`\$1\Yi\Engine\Deploy\Allow\\$(\$item)" -Encoding utf8 - ErrorAction SilentlyContinue

}

1.2. 添加到已挂载

通过"自定义部署映像: Install.wim",执行"开始挂载 Install.wim",挂载到: D:\OS_10_Custom\Install\Install\Mount

1.2.1. 无人值守

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS_10_Custom\Install\Install\Mount\Panther\Unattend.xml

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_10_Custom\Install\Install\Mount\Panther" -Force

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_10_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_10_Custom\Install\Install\Mount\Yi\Engine

 $\label{lem:copy-lem$

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

 $New-Item-Path "D: \OS_10_Custom \Install \Mount \Yi\Engine \Deploy \Allow"-Item Type Directory-Error Action Silently Continue | Out-Null \Normal Continue \No$

 $Out-File - File Path "D: \OS_10_Custom \Install \Mount \Yi \Engine \Deploy \Allow \$($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_10\Autounattend.xml
- D:\OS_10\Sources\Unattend.xml
- D:\OS_10\sources\\$OEM\$\\$\$\Panther\unattend.xml
- $\bullet \qquad \text{D:} \\ \text{OS_10_Custom} \\ \text{Install} \\ \text{Mount} \\ \text{Panther} \\ \text{Unattend.xml} \\$

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>
    <UserLocale>%OSDUserLocale%</UserLocale>
```

2.2.1.2. 单语

```
单语需指定区域,例如指定区域: zh-CN

<UILanguage>zh-CN</UILanguage>

<InputLocale>zh-CN</InputLocale>

<SystemLocale>zh-CN</SystemLocale>

<UILanguage>zh-CN</UILanguage>

<UILanguageFallback>zh-CN</UILanguageFallback>

<UserLocale>zh-CN</UserLocale>
```

2.2.2. 用户方案

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

2.2.2.1. 自建用户 Administrator

</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>

<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
 - $o \qquad \text{https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/ISO.ps1}\\$
 - 复制代码

```
$ISO = "D:\OS_10"$$Volume = "OS_10"$$SaveTo = "D:\OS_10.iso"$$Arguments = @("-m", "-o", "-u2", "-udfver102", "-l""$($Volume)""", "-bootdata:2#p0,e,b""$($ISO)\boot\effsboot.com""#pEF,e,b""$($ISO)\efi\microsoft\boot\effsys.bin""", $ISO, $SaveTo)$$
```

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

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文档版本: 1.0

文档模型: 精简版

更新日期: 2024 - 1

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

