封装教程: MICROSOFT WINDOWS SERVER 2022

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

使用一款可编辑 ISO 文件的软件,例如: PowerISO、DAEMON Tools、ISO Workshop;

Ⅲ 要求

学习"附件 1: 获取 Windows 安装包",查看"Windows Server 2022"项。

- 1. 系统安装包
 - 1.1. 准备: en-us_windows_server_2022_x64_dvd_620d7eac.iso
 - 1.2. 解压到: D:\en-us_windows_server_2022_x64_dvd_620d7eac
 - 1.3. 解压完成后,将目录 en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08c 更改为 D:\OS_2022
 - 1.4. 所有脚本、所有路径,已默认设置为 D:\OS_2022 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. 将语言添加到 Windows 11 映像
- 2.1.2. 语言和区域按需功能 (FOD)
 - 2.1.2.1. 字体
 - 添加语言包时,触发了对应的区域时,需添加所需的字体功能,下载"所有可用语言 FOD 的列表" 了解更多。
 - 在"语言包:提取"时,已加入自动识别功能,可了解函数:Function Match_Required_Fonts

2.1.2.2. 区域关联

区域关联是什么?

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

已知区域关联:

2.1.2.2.1. 区域: zh-TW, 可选关联区域: zh-HK

2.2. 语言包: 下载

20348.1.210507-1500.fe_release_amd64fre_SERVER_LOF_PACKAGES_OEM.iso

IV 命令行

- I. 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",建议设置 PowerShell 执行策略:绕过,PS 命令行:

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

- 3. 在本文中,PS 命令行,绿色部分,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 里运行。

B. 语言包: 提取

Ⅱ 语言包:准备

挂载 20348.1.210507-1500.fe_release_amd64fre_SERVER_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;

Yi's Solutions

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- 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.2022/Expand/Extract.ps1

• 复制代码

```
$ISO = "Auto"
$SaveTo = "D:\OS_2022_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-DZ", "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", "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-Arab", "ug-CN", "ur", "ur-IN", "ur-PK", "uz-Arab", "uz-Arab-AF");
Name = "Arab"; }
                    @{ Match = @("bn-IN", "as-IN", "bn", "bn-BD", "bpy-Beng"); Name = "Beng"; }
                    @{ Match = @("da-dk", "iu-Cans", "iu-Cans-CA"); Name = "Cans"; }
                    @{ Match = @("chr-Cher-US", "chr-Cher"); Name = "Cher"; }
                    @{ Match = @("hi-IN", "bh-Deva", "brx", "brx-Deva", "brx-IN", "hi", "ks-Deva", "mai", "mr", "mr-IN", "ne", "ne-IN", "ne-NP", "new-Deva", "pi-
Deva", "sa", "sa-Deva", "sa-IN"); Name = "Deva"; }
                    @{ Match = @("am", "am-ET", "byn", "byn-ER", "byn-Ethi", "ti-ER", "ti-ET", "tig", "tig-ER", "tig-Ethi", "ve-Ethi", "wal-ET", "wal-ET", "wal-ET", "wal-ET", "tig-Ethi", "tig-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", "wuu-Hans", "yue-Hans", "zh-gan-Hans", "zh-hak-Hans", "zh-hak-Hans",
SG", "zh-wuu-Hans", "zh-yue-Hans"); Name = "Hans"; }
                    @{ Match = @("zh-TW", "cmn-Hant", "hak-Hant", "zh-Hant", "zh-hak-Hant", "zh-HK", "zh-HK", "zh-Hant", "zh-Hoo", "zh-yue-Hant");
Name = "Hant"; }
                    @{ Match = @("he", "he-IL", "yi"); Name = "Hebr"; }
                    @{ Match = @("ja", "ja-JP"); Name = "Jpan"; }
                    @{ Match = @("km", "km-KH"); Name = "Khmr"; }
                    @{ Match = @("kn", "kn-IN"); Name = "Knda"; }
                    @{ Match = @("ko", "ko-KR"); Name = "Kore"; }
                    @{ Match = @("de-de", "lo", "lo-LA"); Name = "Laoo"; }
```

```
@{ Match = @("ml", "ml-IN"); Name = "Mlym"; }
   @{ Match = @("or", "or-IN"); Name = "Orya"; }
   @{ Match = @("si", "si-LK"); Name = "Sinh"; }
   @{ Match = @("tr-tr", "arc-Syrc", "syr", "syr-SY", "syr-Syrc"); Name = "Syrc"; }
   @{Match = @("ta", "ta-IN", "ta-LK", "ta-MY", "ta-SG"); Name = "Taml";}
   @{ Match = @("te", "te-IN"); Name = "Telu"; }
   @{ Match = @("th", "th-TH"); Name = "Thai"; }
 ForEach ($item in $Fonts) {
   if (($item.Match) -Contains $Lang) {
    return $item.Name
 return "Not_matched"
Function Match_Other_Region_Specific_Requirements
 param($Lang)
 $RegionSpecific = @(
   @{ Match = @("zh-TW"); Name = "Taiwan"; }
 ForEach ($item in $RegionSpecific) {
   if (($item.Match) -Contains $Lang) {
    return $item.Name
 return "Skip_specific_packages"
Function Extract_Process
 param( $Package, $Name, $NewSaveTo )
 New-Item -Path $NewSaveTo -ItemType Directory -ErrorAction SilentlyContinue | Out-Null
 if ($ISO -eq "Auto") {
   Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
    ForEach ($item in $Package) {
      $TempFilePath = Join-Path -Path $\_. Root -ChildPath $\$item -ErrorAction SilentlyContinue
      if (Test-Path $TempFilePath -PathType Leaf) {
        Write-host "`n Find: "-NoNewLine; Write-host $TempFilePath -ForegroundColor Green
        Write-host " Copy to: "-NoNewLine; Write-host $NewSaveTo
        Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force
```

```
} else {
        ForEach ($item in $Package) {
            $TempFilePath = Join-Path +Path $ISO - ChildPath $item - ErrorAction SilentlyContinue
            Write-host "`n Find: "-NoNewline; Write-host $TempFilePath -ForegroundColor Green
            if (Test-Path $TempFilePath -PathType Leaf) {
               Write-host " Copy to: " -NoNewLine; Write-host $NewSaveTo
               Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force
            } else {
               Write-host " Not found"
     Write-host "`n Verify the 语言包 file"
      ForEach ($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
   $AdvLanguage = @(
      @{
        Path = "Install\Install"
        Rule = @(
            Package~31bf3856ad364e35~amd64~~.cab"
            "LanguagesAndOptionalFeatures\Microsoft-Windows-Server-Language-Pack_x64_{Lang}.cab"
            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Basic-{Lang}-Package~31bf3856ad364e35~amd64~~.cab"
            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Handwriting-{Lang}-
Package~31bf3856ad364e35~amd64~~.cab"
            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-OCR-{Lang}-Package~31bf3856ad364e35~amd64~~.cab"
             \verb|'LanguagesAndOptionalFeatures| Microsoft-Windows-LanguageFeatures-Speech-{Lang}-Package \verb|'31bf3856ad364e35|| and 64$| and 64
            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-TextToSpeech-{Lang}-
Package~31bf3856ad364e35~amd64~~.cab"
            "LanguagesAndOptionalFeatures\Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~{Lang}~.cab"
            "LanguagesAndOptionalFeatures\Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
            "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~{Lang}~.cab"
            "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
            "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~{Lang}~.cab"
            "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
```

```
"LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
@{
 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-storagewmi_{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_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\WINPE-SETUP-Server_{Lang}.CAB"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-enhancedstorage_{Lang}.cab"
```

```
"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-narrator_{Lang}.cab"
     "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wds-tools_{Lang}.cab"
     "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wmi_{Lang}.cab"
 $NewFonts = Match_Required_Fonts -Lang $NewLang
 $SpecificPackage = Match_Other_Region_Specific_Requirements -Lang $NewLang
 Foreach ($item in $Expand) {
  $Language = @()
  Foreach ($itemList in $AdvLanguage) {
   if ($itemList.Path -eq $item) {
     Foreach ($PrintLang in $itemList.Rule) {
      $Language += "$($PrintLang)".Replace("{Lang}", $NewLang).Replace("{DiyLang}", $NewFonts).Replace("{Specific}",
$SpecificPackage)
    }
     Extract_Process -NewSaveTo $itemList.Path -Package $Language -Name $item
ForEach ($item in $Extract_language_Pack) { Extract_Language -Act $item.Act -NewLang $item.Tag -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_2022\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.wim 路径

 $New-Item\ -Path\ "D: \ \ Cos_2022_Custom \ \ Install \ \ Mount"\ -Item Type\ directory\ -ea\ Silently Continue$

3. 开始挂载 Install.wim

默认索引号: 1

Mount-WindowsImage -ImagePath "D:\OS_2022\sources\install.wim" -Index "1" -Path "D:\OS_2022_Custom\Install\Install\Mount"

处理 Install.wim 映像内的文件,可选项,开始,

• 自定义部署映像: WinRE.wim

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. 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:linear} $$ \text{"D:\OS_2022_Custom\Install\Mount\Windows\System32\Recovery\WinRE.wim"} $$$

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

3..2. 指定挂载 WinRE.wim 路径

 $New-Item\ -Path\ "D: \ OS_2022_Custom \ Install \ WinRE\setminus Mount"\ -Item Type\ directory\ -ea\ Silently Continue$

3..3. 开始挂载 WinRE.wim

默认索引号: 1

Mount-WindowsImage -ImagePath \$FileName -Index "1" -Path "D:\OS_2022_Custom\Install\WinRE\Mount"

3..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"。

3..4.1. 语言包:添加

Yi's Solutions

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WinRE.Instl.lang.ps1

- o \Expand\Install\WinRE\WinRE.Instl.lang.ps1
- https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/ Install/WinRE/WinRE.Instl.lang.ps1

• 复制代码

```
$Mount = "D:\OS_2022_Custom\Install\WinRE\Mount"
$Sources = "D:\OS_2022_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"
$Language_List = @(
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
 @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_zh-CN.cab"; }
 @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_zh-CN.cab"; }
 @{ Match = "*WiFi*"; File = "winpe-wifi_zh-CN.cab"; }
 @{ Match = "*rejuv*"; File = "winpe-rejuv_zh-CN.cab"; }
 @{ Match = "*opcservices*"; File = "winpe-opcservices_zh-CN.cab"; }
 @{ Match = "*hta*"; File = "winpe-hta_zh-CN.cab"; }
ForEach ($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 $Component -ForegroundColor Green
     Write-host "语言包 file: "-NoNewline
     Write-host "$($Sources)\$($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..4.2. 脱机映像语言: 更改

3..4.2.1. 更改默认语言、区域设置和其他国际设置

区域: zh-CN

Dism /Image: "D:\OS_2022_Custom\Install\WinRE\Mount" /Set-AllIntl:zh-CN

3..4.2.2. 查看可用的语言设置

Dism /Image:"D:\OS_2022_Custom\Install\WinRE\Mount" /Get-Intl

3..4.3. 语言包:删除,可选

- 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。删除语言时, 请按与添加语言组件相反的顺序卸载语言组件。
- 添加中文后,反向删除"英语-美国",区域: en-US, 需提前提取语言包
- WinRE.Del.Specified.lang.Tag.ps1
 - o \Expand\Install\WinRE\WinRE.Del.Specified.lang.Tag.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/
 Install/WinRE/WinRE.Del.Specified.lang.Tag.ps1

• 复制代码

```
$Lang = "en-US"

$Mount = "D:\OS_2022_Custom\Install\WinRE\Mount"

$Sources = "D:\OS_2022_Custom\Install\WinRE\Language\Del\en-US"

$Initl_install_Language_Component = @()

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

$Initl_install_Language_Component += $_.PackageName
```

```
$Language = @(
 @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_$($Lang).cab"; }
 @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_$($Lang).cab"; }
 @{ Match = "*hta*"; File = "winpe-hta_$($Lang).cab"; }
  @{ Match = "*opcservices*"; File = "winpe-opcservices_$($Lang).cab"; }
  @{ Match = "*rejuv*"; File = "winpe-rejuv_$($Lang).cab"; }
  @{ Match = "*WiFi*"; File = "winpe-wifi_$($Lang).cab"; }
  @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_$($Lang).cab"; }
  @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_$($Lang).cab"; }
  @{ Match = "*-WMI-Package*"; File = "winpe-wmi_$($Lang).cab"; }
  @{ Match = "*wds-tools*"; File = "winpe-wds-tools_$($Lang).cab"; }
  @{ Match = "*srt*"; File = "winpe-srt_$($Lang).cab"; }
  @{ Match = "*srh*"; File = "winpe-srh_$($Lang).cab"; }
  @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_$($Lang).cab"; }
  @{ Match = "*scripting*"; File = "winpe-scripting_$($Lang).cab"; }
  @{ Match = "*Narrator*"; File = "winpe-narrator_$($Lang).cab"; }
  @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_$($Lang).cab"; }
  @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_$($Lang).cab"; }
  @{ Match = "*AudioCore*"; File = "winpe-audiocore_$($Lang).cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_$($Lang).cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_$($Lang).cab"; }
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: "-NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host "语言包 file: "-NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
       Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -
ErrorAction SilentlyContinue | Out-Null
       Write-host "Finish" -ForegroundColor Green
     } catch {
       Write-host "Failed" -ForegroundColor Red
       Write-host " $($_)" -ForegroundColor Red
     break
```

```
}
$InitlClearLanguagePackage = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 if ($_.PackageName -like "*$($Lang)*") {
   $InitlClearLanguagePackage += $_.PackageName
if ($InitlClearLanguagePackage.count -gt 0) {
 ForEach ($item in $InitlClearLanguagePackage) {
   Write-Host "`n $($item)" -ForegroundColor Green
   Write-Host " Deleting ".PadRight(22) -NoNewline
   try {
     Remove-AppxProvisionedPackage -Path $Mount -PackageName $item -ErrorAction
SilentlyContinue | Out-Null
     Write-host "Finish" -ForegroundColor Green
   } catch {
     Write-host "Failed" -ForegroundColor Red
     Write-host " $($_)" -ForegroundColor Red
```

3..4.4. 组件:映像中已安装的所有包

3..4.4.1. 查看

 $\label{lem:condition} Get-WindowsPackage - Path "D:\OS_2022_Custom\Install\WinRE\Mount" | Out-GridView$

3..4.4.2. 导出到 Csv

\$SaveTo = "D:\OS_2022_Custom\Install\WinRE\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS_2022_Custom\Install\WinRE\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

3..5. 累积更新,可选

准备可用的累积更新文件,请更改示例文件名: KB_WinRE.cab

3..5.1. 添加

\$KBPath = "D:\OS_2022_Custom\Install\WinRE\Update\KB_WinRE.cab"

3..5.2. 删除

\$KBPath = "D:\OS_2022_Custom\Install\WinRE\Update\KB_WinRE.cab"

 $Remove-Windows Package - Path "D: \OS_2022_Custom \Install \WinRE \Mount" - Package Path $KBPath \All the package - Path \All the package \A$

3..5.3. 固化更新,可选项

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

Dism /image:"D:\OS_2022_Custom\Install\WinRE\Mount" /cleanup-image /StartComponentCleanup /ResetBase

3..5.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS_2022_Custom\Install\WinRE\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

}
```

3..6. 驱动,可选

3..7. 保存映像

Save-WindowsImage -Path "D:\OS_2022_Custom\Install\WinRE\Mount"

3..8. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

 $\label{thm:condition} Dismount-Windows Image - Path "D: \OS_2022_Custom \Install \WinRE \Mount" - Discard$

3..9. 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/_Documents/Attachment/OS.2022/Expand/Install/WinR E/WinRE.Rebuild.ps1

• 复制代码

```
File Name = "D:\OS_2022\_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim" + the context of th
 Get-WindowsImage - ImagePath $Filename - ErrorAction SilentlyContinue | ForEach-Object {
          Write-Host " Image name: " -NoNewline
          Write-Host $_.ImageName -ForegroundColor Yellow
          Write-Host " The index number: " -NoNewline
          Write-Host $_.ImageIndex -ForegroundColor Yellow
          Write-Host "`n Rebuild".PadRight(28) -NoNewline
           Export-Windows Image - Source Image Path \ \$Filename - Source Index \ \$\_. Image Index - Destination Image Path \ \$Filename - Source Index \ \$\_. Image Index - Destination Image Path \ \$Filename - Source Index \ \$\_. Image Index - Destination Image Path \ \$\_. Image Index - Destinatio
  "$($FileName).New" -CompressionType max
          Write-Host "Finish`n" -ForegroundColor Green
if (Test-Path "$($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..10. 备份 WinRE.wim

- WinRE.Backup.ps1
 - o \Expand\Install\WinRE\WinRE.Backup.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install/WinR
 E/WinRE.Backup.ps1

• 复制代码

```
$WimLibPath = "D:\OS_2022_Custom\Install\Install\Update\Winlib"

$FileName = "D:\OS_2022_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..11. 替换 Install.wim 映像内的 WinRE.wim

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

处理 Install.wim 映像内的文件,结束。

4. 语言包

自动安装语言包:获取"组件:映像中已安装的所有包"后进行匹配,匹配到对应的名称后,再安装本地对应的语言包文件,查看报告"语言安装包适用于Install.wim"。

- 语言包:添加
 - Install.Instl.lang.ps1
 - \Expand\Install.Instl.lang.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install.Instl.lang.ps1

• 复制代码

```
$Mount = "D:\OS_2022_Custom\Install\Install\Mount"
$Sources = "D:\OS_2022_Custom\Install\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\Microsoft-Windows-LanguageFeatures-Fonts-Hans-
Package~31bf3856ad364e35~amd64~~.cab"
$Language_List = @(
 @{ Match = "*Server-LanguagePack-Package*"; File = "Microsoft-Windows-Server-Language-Pack_x64_zh-CN.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*MSPaint*amd64*"; File = "Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
 @{ Match = "*MSPaint*wow64*"; File = "Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
 @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
 @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~zh-CN~.cab"; }
 @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }
 @{ Match = "*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 = "*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 "$('-' * 80)"
 For Each ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*") {
    Write-host " Component name: "-NoNewline
    Write-host $Component -ForegroundColor Green
    Write-host "语言包 file: "-NoNewline
    Write-host "$($Sources)\$($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
      break
    } catch {
      Write-host "Failed" -ForegroundColor Red
```

• 脱机映像语言: 更改

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

区域: zh-CN

 $\label{lem:limit} Dism/Image: "D:\OS_2022_Custom\Install\Install\Mount"/Set-AllIntl: zh-CN$

4..2. 查看可用的语言设置

Dism /Image:"D:\OS_2022_Custom\Install\Install\Mount" /Get-Intl

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

• 复制代码

```
$Lang = "en-US"
$Mount = "D:\OS_2022_Custom\Install\Install\Mount"
$Sources = "D:\OS_2022_Custom\Install\Install\Language\Del\en-US"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
$Language = @(
 @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab";}
 @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-$($Lang).cab"; }
 @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-$($Lang).cab"; }
```

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

```
if ($InitlClearLanguagePackage.count -gt 0) {
    ForEach ($item in $InitlClearLanguagePackage) {
        Write-Host "`n $($item)" -ForegroundColor Green
        Write-Host " Deleting ".PadRight(22) -NoNewline
        try {
            Remove-AppxProvisionedPackage -Path $Mount -PackageName $item -ErrorAction SilentlyContinue | Out-Null
            Write-host "Finish" -ForegroundColor Green
        } catch {
            Write-host "Failed" -ForegroundColor Red
            Write-host " $($__)" -ForegroundColor Red
        }
    }
}
```

• 组件:映像中已安装的所有包

4..1. 查看

 $Get-Windows Package - Path "D: \OS_2022_Custom \Install \Mount" \mid Out-Grid \V iew \Mount \M$

4..2. 导出到 Csv

\$SaveTo = "D:\OS_2022_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS_2022_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

5. 累积更新,可选项

下载

查阅 "Windows Server 2022 更新历史",例如安装累积更新: KB5030216

前往下载页面: https://www.catalog.update.microsoft.com/Search.aspx?q=Kb5030216 或 "直连下载" (无法下载时请进入下载页面) ,保存到:

D:\OS_2022_Custom\Install\Install\Update\windows10.0-kb5030216-x64_cbe587155f9818548b75f65d5cd41d341ed2fc61.msu

添加

 $$KBPath = "D:\OS_2022_Custom\Install\Update\windows10.0-kb5030216-x64_cbe587155f9818548b75f65d5cd41d341ed2fc61.msu"$

 ${\tt Add-WindowsPackage-Path~"D:\OS_2022_Custom\Install\Install\Mount"-PackagePath~\$KBPath)} \\$

• 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_2022_Custom\Install\Install\Mount" /cleanup-image /StartComponentCleanup /ResetBase

5..1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS_2022_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
}
```

- 6. 驱动,可选
- 7. 添加部署引擎,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

 $Repair-WindowsImage - Path "D: \OS_2022_Custom \Install \Install \Mount" - Scan Health$

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} $$\operatorname{"D:\OS\_2022\_Custom\Install\Install\Update\Winlib\WinRE.wim"}$$
```

 $\label{local_condition} $CopyTo = "D:\OS_2022_Custom\Install\Install\Mount\Windows\System 32\Recovery"$

 ${\tt Copy-Item\ -Path\ \$WinRE\ -Destination\ \$CopyTo\ -Force}$

10. 保存映像

Save-WindowsImage -Path "D:\OS_2022_Custom\Install\Install\Mount"

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。

 $Dismount-Windows Image - Path "D: \OS_2022_Custom \Install \Install \Mount" - Discard$

循环操作区域,结束。

- 12. 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/_Documents/Attachment/OS.2022/Expand/Install/Install.Rebuild.wim.ps1
 - 复制代码

```
$InstallWim = "D:\OS_2022\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 Rebuild".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
```

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

- 如何在 Install.wim 里提取和更新 WinRE.wim
 - 13..1. 从 Install.wim 里提取 WinRE.wim 文件 Install.wim

- Install.WinRE.Extract.ps1
 - o \Expand\Install\Install.WinRE.Extract.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install/Instal
 l.WinRE.Extract.ps1

• 复制代码

```
$Arguments = @(
    "extract",
    "D:\OS_2022\sources\install.wim", "1",
    "\Windows\System32\Recovery\Winre.wim",
    "--dest-dir=""D:\OS_2022_Custom\Install\Install\Update\Winlib"""
)
New-Item -Path "D:\OS_2022_Custom\Install\Install\Update\Winlib" -ItemType Directory -ea SilentlyContinue
```

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

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

- Install.WinRE.Replace.wim.ps1
 - \Expand\Install\Install.WinRE.Replace.wim.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install/Instal
 l.WinRE.Replace.wim.ps1

• 复制代码

```
Get-WindowsImage -ImagePath "D:\OS_2022\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_2022\sources\install.wim", $_.ImageIndex,

"--command=""add 'D:\OS_2022_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_2022\Sources\Boot.wim"
```

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

2. 指定挂载 Boot.wim 路径

3. 开始挂载 Boot.wim

默认索引号: 2

Mount-WindowsImage -ImagePath "D:\OS_2022\sources\boot.wim" -Index "2" -Path "D:\OS_2022_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"。

4.1. 语言包:添加

- Boot.Instl.lang.ps1
 - o \Expand\Boot\Boot.Instl.lang.ps1
 - $o \qquad \text{https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Boot/Boot.Instl.lang.ps1} \\$

• 复制代码

```
$Mount = "D:\OS_2022_Custom\Boot\Boot\Mount"

$Sources = "D:\OS_2022_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*Server_zh*Package*"; File = "WINPE-SETUP-Server_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 $Component -ForegroundColor Green
    Write-host "语言包 file: "-NoNewline
    Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
    Write-Host " Installing ".PadRight(22) -NoNewline
    try {
      Write-host "Finish" -ForegroundColor Green
    } catch {
      Write-host "Failed" -ForegroundColor Red
    break
```

4.2. 脱机映像语言: 更改

4.2.1. 更改默认语言、区域设置和其他国际设置

区域: zh-CN

4.2.2. 查看可用的语言设置

Dism /Image:"D:\OS_2022_Custom\Boot\Boot\Mount" /Get-Intl

4.3. 语言包:删除,可选

- 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。删除语言时,请按与添加语言组件相反的顺序卸载语言组件。
- 添加中文后,反向删除"英语 美国",区域:en-US,需提前提取语言包
- Boot.Del.Specified.lang.Tag.ps1
 - o \Expand\Boot\Boot.Del.Specified.lang.Tag.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Boot/Boot/Boot/Boot.Del.Specified.lang.Tag.ps1

• 复制代码

```
$Lang = "en-US"
$Mount = "D:\OS_2022_Custom\Boot\Boot\Mount"
$Sources = "D:\OS_2022_Custom\Boot\Boot\Language\Del\en-US"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
$Language = @(
 @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab";}
 @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab";}
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab";}
 @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab";}
 @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-$($Lang).cab"; }
 @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-$($Lang).cab"; }
 @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
```

```
@{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Client-LanguagePack_Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_$($Lang).cab"; }
 @{ Match = "*Fonts-Hans*"; File = "Microsoft-Windows-LanguageFeatures-Fonts-Hans-
Package~31bf3856ad364e35~amd64~~.cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: "-NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host "语言包 file: "-NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
       Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -ErrorAction SilentlyContinue | Out-
Null
       Write-host "Finish" -ForegroundColor Green
     } catch {
      Write-host "Failed" -ForegroundColor Red
       Write-host " $($_)" -ForegroundColor Red
     break
$InitlClearLanguagePackage = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 if ($_.PackageName -like "*$($Lang)*") {
   $InitlClearLanguagePackage += $_.PackageName
if ($InitlClearLanguagePackage.count -gt 0) {
 ForEach ($item in $InitlClearLanguagePackage) {
   Write-Host "`n $($item)" -ForegroundColor Green
```

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

try {

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

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

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

}

}
```

4.4. 组件:映像中已安装的所有包

4.4.1. 查看

Get-WindowsPackage -Path "D:\OS_2022_Custom\Boot\Boot\Mount" | Out-GridView

4.4.2. 导出到 Csv

\$SaveTo = "D:\OS_2022_Custom\Boot\Boot\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS_2022_Custom\Boot\Boot\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

4.5. 语言包:同步到ISO安装程序

Copy-Item -Path "D:\OS_2022_Custom\Boot\Boot\Mount\sources\zh-CN" -Destination "D:\OS_2022\sources\zh-CN" -Recurse -Force

4.6. 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。

4.6.1. 重新生成已挂载目录 lang.ini

重新生成的 Lang.ini 文件位置: D:\OS_2022_Custom\Boot\Boot\Mount\Sources\lang.ini

4.6.2. 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_2022\Sources\lang.ini

 $\label{lem:limit} Dism/image: "D: \OS_2022_Custom \Boot \B$

5. 累积更新,可选项

准备可用的累积更新文件,请更改示例文件名: KB_Boot.cab

5.1. 添加

```
$KBPath = "D:\OS_2022_Custom\Boot\Update\KB_Boot.cab"
```

Add-WindowsPackage -Path "D:\OS_2022_Custom\Boot\Boot\Mount" -PackagePath \$KBPath

5.2. 删除

```
$KBPath = "D:\OS_2022_Custom\Boot\Boot\Update\KB_Boot.cab"
```

Remove-WindowsPackage -Path "D:\OS_2022_Custom\Boot\Boot\Mount" -PackagePath \$KBPath

5.3. 固化更新

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

 $\label{lem:limit} \begin{center} Dism/image:"D:\OS_2022_Custom\Boot\Boot\Mount"/cleanup-image/StartComponentCleanup/ResetBase \end{center} \begin{center} \begin{center}$

5.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS_2022_Custom\Boot\Boot\Mount"

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

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

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

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

6. 驱动,可选项

7. 保存映像

Save-WindowsImage -Path "D:\OS_2022_Custom\Boot\Boot\Mount"

8. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

 $\label{lem:lemont} Dismount-WindowsImage - Path "D: \OS_2022_Custom \Boot \B$

Ⅳ 部署引擎



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

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

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS_2022\Autounattend.xml

 $\label{lem:copy-lem:def} \begin{tabular}{ll} Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" - Destination "D:\OS_2022\Autounattend.xml" - Force \end{tabular}$

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_2022\Sources\Unattend.xml

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_2022\Sources\Unattend.xml" -Force

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_2022\sources\` \$OEM\$\` \$\$\Panther" -ItemType Directory

1.1.1.3.2. 复制

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

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_2022\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_2022\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_2022\Sources\\$OEM\$\\$1\Yi\Engine

Copy-Item "D:\Multilingual\Engine" -Destination "D:\OS_2022\sources\` \$OEM\$\` \$1\Yi\Engine" -Recurse - Force

1.1.2.2. 部署引擎: 自定义部署标记

```
$Flag = @(
```

"Is_Mark_Sync" # 允许全盘搜索并同步部署标记

先决部署

- # "Auto_Update" # 允许自动更新
- # "Use_UTF8" # Beta 版:使用 Unicode UTF-8 提供全球语言支持
- "Disable_Network_Location_Wizard" # 网络位置向导
- "Disable_Cleanup_Appx_Tasks" # Appx 清理维护任务
- "Disable_Cleanup_On_Demand_Language" # 阻止清理未使用的按需功能语言包
- "Disable_Cleanup_Unsed_Language" # 阻止清理未使用的语言包
- "Prerequisites_Reboot"#重新启动计算机

#完成首次部署

- # "Popup_Engine" # 允许首次弹出部署引擎主界面
- # "Allow_First_Pre_Experience" # 允许首次预体验,按计划
- "Reset_Execution_Policy" # 恢复 PowerShell 执行策略: 受限
- "Clear_Solutions"#删除整个解决方案
- "Clear_Engine"#删除部署引擎,保留其它
- # "First_Experience_Reboot" # 重新启动计算机

)

ForEach (\$item in \$Flag) {

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

 $New-Item\ -Path\ "D:\OS_2022\sources\` \$OEM\$\` \$1\Yi\Engine\Deploy\Allow"\ -ItemType\ Directory\ -Error\Action\ Silently\Continue\ |\ Out-Null\ -Path\ |\ Out-Null\$

 $Out-File - File Path "D: \OS_2022 \sources \` \$OEM\$ \` \$1 \Yi \Engine \Deploy \Allow \$ (\$item) "- Encoding utf8-Error Action Silently Continue$

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_2022_Custom\Install\Install\Mount

1.2.1. 无人值守

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

 $\label{lem:linstallem} D: \label{linstallem} D: \label{linstallem} OS_2022_Custom \label{linstallem} Install \label{linstallem} Installem \label{linstallem} A constraint \label{linstallem} D: \label{linstallem} OS_2022_Custom \label{linstallem} A constraint \label{linstallem} D: \label{linstallem} OS_2022_Custom \label{linstallem} A constraint \label{linstallem} D: \label{linstallem} OS_2022_Custom \label{linstallem} D: \label{linstallem} OS_2022_Custom \label{linstallem} A constraint \label{linstallem} A constraint \label{linstallem} D: \label{linstallem} OS_2022_Custom \label{linstallem} A constraint \label{linstallem} OS_2022_Custom \label{linstallem} A constraint \label{linstallem} A constraint \label{linstallem} A constraint \label{linstallem} OS_2022_Custom \label{linstallem} A constraint \label{linstallem} D: \label{linstallem} OS_2022_Custom \label{linstallem} A constraint \label{linstallem} A constraint \label{linstallem} A constraint \label{linstallem} A constraint \label{linstallem} OS_2022_Custom \label{linstallem} A constraint \label{linstallem} A constra$

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_2022_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_2022_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_2022_Custom\Install\Install\Mount\Yi\Engine

Copy-Item "D:\Multilingual\Engine" -Destination "D:\OS_2022_Custom\Install\Install\Mount\Yi\Engine" - Recurse -Force

1.2.2.2. 部署引擎: 自定义部署标记

\$Flag = @(

"Is_Mark_Sync" # 允许全盘搜索并同步部署标记

先决部署

- # "Auto_Update" # 允许自动更新
- # "Use_UTF8" # Beta 版:使用 Unicode UTF-8 提供全球语言支持
- "Disable_Network_Location_Wizard" # 网络位置向导
- "Disable_Cleanup_Appx_Tasks" # Appx 清理维护任务
- "Disable_Cleanup_On_Demand_Language" # 阻止清理未使用的按需功能语言包
- "Disable_Cleanup_Unsed_Language"#阻止清理未使用的语言包
- "Prerequisites_Reboot"#重新启动计算机
- #完成首次部署
- # "Popup_Engine" # 允许首次弹出部署引擎主界面
- # "Allow_First_Pre_Experience" # 允许首次预体验, 按计划

```
"Reset_Execution_Policy" # 恢复 PowerShell 执行策略: 受限

"Clear_Solutions" # 删除整个解决方案

"Clear_Engine" # 删除部署引擎,保留其它

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

ForEach ($item in $Flag) {

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

New-Item -Path "D:\OS_2022_Custom\Install\Install\Mount\Yi\Engine\Deploy\Allow" -ItemType

Directory -ErrorAction SilentlyContinue | Out-Null

Out-File -FilePath "D:\OS_2022_Custom\Install\Install\Mount\Yi\Engine\Deploy\Allow\$($item)" -Encoding utf8 -ErrorAction SilentlyContinue
}
```

2. 部署引擎:进阶

2.1. 部署引擎:添加过程中

在复制部署引擎后,可添加部署标记来干预安装过程。

2.2. 无人值守方案

自定义无人值守时,以下文件存在时请同步修改:

- D:\OS_2022\Autounattend.xml
- D:\OS_2022\Sources\Unattend.xml
- D:\OS_2022\sources\\$OEM\$\\$\$\Panther\unattend.xml
- D:\OS_2022_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

- $<\!\!\mathsf{UILanguage}\!\!>\!\!\mathsf{MOSDUILanguage}\!\!\times\!\!<\!\!\mathsf{UILanguage}\!\!>$
- <InputLocale>%OSDInputLocale%</inputLocale>
- <SystemLocale>%OSDSystemLocale%</SystemLocale>
- <UILanguage>%OSDUILanguage%</UILanguage>
- $<\!\!\mathsf{UILanguageFallback}\!\!>\!\!\mathsf{MOSDUILanguageFallback}\!\!>\!\!\mathsf{MOS$
- <UserLocale>%OSDUserLocale%</UserLocale>

2.2.1.2. 单语

单语需指定区域,例如指定区域: zh-CN



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

2.2.2. 用户方案

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

2.2.2.1. 自建用户 Administrator

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

```
<UserAccounts>
 <LocalAccounts>
   <LocalAccount wcm:action="add">
     <Password>
      <Value></Value>
      <PlainText>true</PlainText>
     </Password>
     <Description>Administrator/Description>
     <DisplayName>Administrator</DisplayName>
     <Group>Administrators</Group>
     <Name>Administrator</Name>
   </LocalAccount>
 </LocalAccounts>
</UserAccounts>
<AutoLogon>
 <Password>
   <Value></Value>
   <PlainText>true</PlainText>
 </Password>
 <Enabled>true</Enabled>
 <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. 生成 ISO

- II 下载 oscdimg 后,保存到:C:\Windows\System32 目录里,保存在其它路径,或请输入 OScdimg.exe 绝对位置;
- III 使用 oscdimg 命令行生成一个 ISO 文件,保存到:D:\WS2022.iso
 - ISO.ps1
 - o \Expand\ISO.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/ISO.ps1
 - 复制代码

```
$ISO = "D:\Win2022"
```

\$Volume = "Win2022"

\$SaveTo = "D:\Win2022.iso"

\$Arguments = @("-m", "-o", "-u2", "-udfver102", "-l""\$(\$Volume)""", "-

 $bootdata:2\#p0,e,b""\$(\$ISO)\boot\effsboot.com""\#pEF,e,b""\$(\$ISO)\efi\microsoft\boot\effsys.bin""",\$ISO,\$FileName)$

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

章节2 常见问题

|| 清理所有挂载到

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

 $\label{lem:linear_lin$

Dismount-WindowsImage -Path "D:\OS_2022_Custom\Boot\Boot\Mount" -Discard

III 修复挂载出现异常的问题

1. 查看已挂载

Get-WindowsImage - Mounted

2. 删除保存在注册表里的 DISM 挂载记录

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

3. 删除与已损坏的已装载映像关联的所有资源。

Clear-WindowsCorruptMountPoint

Dism /cleanup-wim

Ⅳ 清理目录

Remove-Item "D:\OS_2022_Custom" -Force -Recurse

 $Remove-Item "D:\OS_2022\\Sources\\\` \$OEM\$" - Force - Recurse$

Remove-Item -Path "D:\OS_2022\Sources\Unattend.xml" -Force

章节3 已知问题

1. 添加 Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~.cab 到 Windows Server 2022 Standard Core, Windows Server 2022 Datacenter Core 后会新增 Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1,执行删除会报错,暂时不建议操作。

章节4 报告

- 编组缩写:
 - 群组 A: Windows Server 2022 Standard (Desktop Experience), Windows Server 2022 Datacenter (Desktop Experience)
 - 群组 B: WINDOWS SERVER 2022 STANDARD CORE, WINDOWS SERVER 2022 DATACENTER CORE
- 标注绿色,已安装;未标注绿色:未安装。

II 报告:不同版本

序号	名称	А	В
1	Downlevel-NLS-Sorting-Versions-Server-FoD-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
2	Downlevel-NLS-Sorting-Versions-Server-FoD-Package~31bf3856ad364e35~wow64~~10.0.20348.1		
3	Microsoft-OneCore-DirectX-Database-FOD-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
4	Microsoft-OneCore-RasSstp-Api-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
5	Microsoft-Windows-FodMetadata-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
6	Microsoft-Windows-Foundation-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
7	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.20348.1		
8	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.20348.75		
9	Microsoft-Windows-LanguageFeatures-Basic-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
10	Microsoft-Windows-LanguageFeatures-Handwriting-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
11	Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
12	Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
13	Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
14	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
15	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.20348.169		
16	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
10	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1		
17	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~~10.0.20348.1		
	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1		
18	Microsoft-Windows-Networking-RemoteAccess-PowerShell-Base-Package~31bf3856ad364e35~amd64~~10.0.20348.1		
	Microsoft-Windows-Networking-RemoteAccess-PowerShell-Base-Package~31bf3856ad364e35~amd64~~10.0.20348.143		

序号	名称 A							
	Microsoft-Windows-Networking-RemoteAccess-PowerShell-Base-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1							
19	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~~10.0.20348.1							
	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1							
20	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~~10.0.20348.1							
	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1							
21	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~~10.0.20348.1							
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1							
22	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~~10.0.20348.1							
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1							
23	Microsoft-Windows-Server-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1							
24	Microsoft-Windows-Server-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.169							
25	Microsoft-Windows-ServerCore-Package~31bf3856ad364e35~amd64~~10.0.20348.1							
26	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~~10.0.20348.1							
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1							
27	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~~10.0.20348.1 Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1							
28	Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.20348.1							
29	Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.20348.143							
30	Microsoft-Windows-UserExperience-Desktop-Package~31bf3856ad364e35~amd64~~10.0.20348.1							
31	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~~10.0.20348.1 Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1							
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~~10.0.20348.1							
32	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1							
33	Microsoft-Windows-Xps-Xps-Viewer-Opt-Package~31bf3856ad364e35~amd64~~10.0.20348.1							
34	OpenSSH-Client-Package~31bf3856ad364e35~amd64~~10.0.20348.1							
35	Package_for_DotNetRollup~31bf3856ad364e35~amd64~~10.0.4400.							
36	Package_for_RollupFix~31bf3856ad364e35~amd64~~20348.169.1.7							
37	Package_for_ServicingStack~31bf3856ad364e35~amd64~~20348.169.1.1							

III 报告:语言安装包适用于Install.wim

序号	语言包安装文件、对应程序包名	A	В				
1	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~AMD64~~.cab Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.20348.1						
2	Microsoft-Windows-Server-Language-Pack_x64_zh-CN.cab Microsoft-Windows-Server-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1						
3	Microsoft-Windows-LanguageFeatures-Basic-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab Microsoft-Windows-LanguageFeatures-Basic-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1						
4	Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1						
5	Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1						
6	Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1						
7	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1						
8	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1						
9	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1						
10	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1						
11	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1						
12	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~.cab Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1						
13	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~.cab Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1						
14	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~.cab Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1						
15	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1						
16	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1						

序号	语言包安装文件、对应程序包名	А	В
17	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab		
17	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1		

IV 报告:语言安装包适用于WinRE.wim

序号	类型	语言包安装文件、对应程序包名
1	字体	WinPE-FontSupport-zh-CN.cab Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.20348.1
2	语言包	lp.cab Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
3	功能包	winpe-appxpackaging_zh-CN.cab Microsoft-Windows-WinPE-AppxPackaging-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
4	功能包	winpe-atbroker_zh-CN.cab WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
5	功能包	winpe-audiocore_zh-CN.cab WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
6	功能包	winpe-audiodrivers_zh-CN.cab WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
7	功能包	winpe-enhancedstorage_zh-CN.cab WinPE-EnhancedStorage-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
8	功能包	winpe-hta_zh-CN.cab WinPE-HTA-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
9	功能包	winpe-narrator_zh-CN.cab WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
10	功能包	winpe-opcservices_zh-CN.cab WinPE-OpcServices-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
11	功能包	winpe-rejuv_zh-CN.cab WinPE-Rejuv-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
12	功能包	winpe-scripting_zh-CN.cab WinPE-Scripting-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
13	功能包	winpe-securestartup_zh-CN.cab WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
14	功能包	winpe-speech-tts_zh-CN.cab WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

序号	类型	语言包安装文件、对应程序包名
15	功能包	winpe-srh_zh-CN.cab
		WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
16	功能包	winpe-srt_zh-CN.cab
		WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
17	功能包	winpe-storagewmi_zh-CN.cab
17	为此合	WinPE-StorageWMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
		winpe-wds-tools_zh-CN.cab
18	功能包	WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
10	功能包	winpe-wifi_zh-CN.cab
19	初配色	WinPE-WiFi-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
20	功能包	winpe-wmi_zh-CN.cab
20	りませ	WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

V 报告:语言安装包适用于 Boot.wim

序号	类型	语言包安装文件、对应程序包名
1	Fonts	WinPE-FontSupport-zh-CN.cab Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.20348.1
2	语言包	lp.cab Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
3	功能包	winpe-atbroker_zh-CN.cab WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
4	功能包	winpe-audiocore_zh-CN.cab WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
5	功能包	winpe-audiodrivers_zh-CN.cab WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
6	功能包	winpe-enhancedstorage_zh-CN.cab WinPE-EnhancedStorage-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
7	功能包	winpe-narrator_zh-CN.cab WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
8	功能包	winpe-scripting_zh-CN.cab WinPE-Scripting-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
9	功能包	winpe-securestartup_zh-CN.cab WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

序号	类型	语言包安装文件、对应程序包名
10	功能包	WINPE-SETUP-Server_zh-CN.CAB WinPE-Setup-Server-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
11	功能包	WinPE-Setup_zh-CN.cab WinPE-Setup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
12	功能包	winpe-speech-tts_zh-CN.cab WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
13	功能包	winpe-srh_zh-CN.cab WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
14	功能包	winpe-srt_zh-CN.cab WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
15	功能包	winpe-wds-tools_zh-CN.cab WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
16	功能包	winpe-wmi_zh-CN.cab WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

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

