WINDOWS 11 22H2

不同的系统版本,有着不同的封装方式,封装过程中包含:"语言包:添加、关联、删除"、"驱动:添加、删除"、"累积更新:添加、删除"、"InBox Appx: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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一、 部署映像

A. **先决条件**

Ⅱ ISO 工具

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

Ⅲ 获取相关包

学习"附件: OS", 查看"Windows 11"项,

1. 系统安装包

- 1.1. 准备: en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08ce3.iso
- 1.2. 解压到: D:\en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08c
- 1.3. 解压完成后,将目录 en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08c 更改为 D:\OS11
- 1.4. 所有脚本、所有路径,已默认设置为 D:\OS11 为映像来源。

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2. 语言包

2.1. 学习

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. 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:

2.1.2.1.1. 区域: zh-TW, 可选关联区域: zh-HK

2.1.2.2. 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

2.1.2.3. 其它区域特定的要求

2.1.2.3.1. 区域: zh-TW,程序包: Microsoft-Windows-InternationalFeatures-Taiwan-

Package~31bf3856ad364e35~amd64~~.cab

说明: 对台湾日期格式设置要求的补充支持。 将为位于台湾的客户提供包。

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

历的任何 API 调用失败。

触发已知区域时,需添加特定的"程序包"。

存在争议:

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

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2.2. 语言包: 下载

22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso

2.3. 语言包: 修复

任选一个网站并打开:

- https://uupdump.net
- https://uup.ee
- 2.3.1. 打开后,搜索关键词:22621.382,在搜索结果选择:Windows 11, version 22H2 (22621.382) amd64
- 2.3.2. 打开后,选择"全部文件";
- 2.3.3. 在"全部文件"页面里依次搜索绿色部分并下载:
 - 2.3.3.1. 适用于: Install.wim (1项)

2.3.3.1.1. Media

2.3.3.2. 适用于: WinRE.wim, 暂无

2.3.3.3. 适用于: Boot.wim, 暂无

- 2.3.4. 下载所有文件后,拉动到页面下方,下载并运行"生成重命名脚本 (Windows)";
- **2.4.** 使用 ISO 编辑软件,编辑 22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso,将下载的文件添加到 [ISO]:\LanguagesAndOptionalFeatures 目录里;

3. InBox Apps

- 3.1. 下载: 22621.1778.230511-2102.ni_release_svc_prod3_amd64fre_InboxApps.iso
- 3.2. 下载: 22621.1.220506-1250.ni_release_amd64fre_InboxApps.iso 后,提取以下文件后保存到桌面:
 - 3.2.1. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.appx
 - 3.2.2. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.xml
- 3.3. 使用 ISO 编辑工具,编辑 22621.1778.230511-2102.ni_release_svc_prod3_amd64fre_InboxApps.iso,将已提取文件添加到 [ISO]:\packages 目录里;

IV 运行 PS 命令行时:

- 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:

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- 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 准备语言包

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

Ⅲ 提取语言包方案

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

以 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:\"

复制代码或查看源文件: Extract.ps1(本地, Github)

```
$$aveTo = "D:\OS11_Custom"

$Extract_language_Pack = @(
    @{Tag = "zh-CN"; Act = "Add"; Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot") }
    @{Tag = "en-US"; Act = "Del"; Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot") }
}

Function Extract_Language
{
    param($Act, $NewLang, $Expand)

Function Match_Required_Fonts
    {
        param($Lang)

$Fonts = @(
        @{ Match = @("as", "ar-SA", "ar", "ar-AE", "ar-BH", "ar-DJ", "ar-DZ", "ar-EG", "ar-ER", "ar-IL", "ar-IQ", "ar-JO", "ar-KM", "ar-KW", "ar-LB", "ar-LY", "ar-MA", "ar-MR", "ar-OM", "ar-OM", "ar-PS", "ar-QA", "ar-SD", "ar-SO", "ar-SS", "ar-SY", "ar-TD", "ar-TN", "ar-YE", "ar-Arab", "okb-Arab", "fa-AF", "fa-IR", "glk-Arab", "ha-Arab", "ks-Arab-IN", "ku-Arab-IQ", "mzn-Arab", "pa-Arab-PK", "pnb-Arab-PK", "pnb-Arab", "prs", "prs-AF", "fa-IR", "glk-Arab", "ha-Arab", "ks-Arab-IN", "ku-Arab-IQ", "mzn-Arab", "pa-Arab-PK", "pnb-Arab-PK", "pnb-Arab", "prs", "prs-AF",
```

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```
"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-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-ERhi", "ve-Ethi", "wal-Ethi");
Name = "Ethi"; }
          @{ Match = @("gu", "gu-IN"); Name = "Gujr"; }
           @{ Match = @("pa", "pa-IN", "pa-Guru"); Name = "Guru"; }
           @{ Match = @("zh-CN", "cmn-Hans", "gan-Hans", "hak-Hans", "wuu-Hans", "yue-Hans", "zh-gan-Hans", "zh-hak-Hans", "zh-Hans", "zh-SG",
"zh-wuu-Hans", "zh-yue-Hans"); Name = "Hans"; }
          @{ Match = @("zh-TW", "cmn-Hant", "hak-Hant", "lzh-Hant", "zh-hak-Hant", "zh-Hant", "zh-
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)
       $Fonts = @(
           @{ Match = @("zh-TW"); Name = "Taiwan"; }
       ForEach ($item in $Fonts) {
          if (($item.Match) -Contains $Lang) {
              return $item.Name
       return "Skip_specific_packages"
   Function Extract_Process
```

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```
param( $Package, $Name, $NewSaveTo )
   \ensuremath{$\text{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 $NewSaveTo -Force
      } else {
        Write-host " Not found"
   Write-host "`n Verify the language pack file"
   ForEach ($item in $Package) {
     $Path = "$($NewSaveTo)\$([IO.Path]::GetFileName($item))"
     if (Test-Path $Path -PathType Leaf) {
      Write-host " Discover: " -NoNewLine; Write-host $Path -ForegroundColor Green
      Write-host " Not found: "-NoNewLine; Write-host $Path -ForegroundColor Red
 $AdvLanguage = @(
   @{
     Path = "Install\Install"
     Rule = @(
      "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Fonts-{DiyLang}-Package~31bf3856ad364e35~AMD64~~.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-Client-Language-Pack x64 {Lang}.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Basic-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Handwriting-{Lang}-
Package~31bf3856ad364e35~AMD64~~.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-OCR-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Speech-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-TextToSpeech-{Lang}-
Package~31bf3856ad364e35~AMD64~~.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-MediaPlayer-Package-AMD64-{Lang}.cab"
       "LanguagesAndOptionalFeatures\Microsoft-Windows-MediaPlayer-Package-wow64-{Lang}.cab"
```

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```
"LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
   "LanguagesAndOptionalFeatures\Microsoft-Windows-InternationalFeatures-{Specific}-Package~31bf3856ad364e35~amd64~~.cab"
@{
 Path = "Install\WinRE"
 Rule = @(
   "Windows Preinstallation Environment\x64\WinPE_OCs\WinPE-FontSupport-{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\lp.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-enhancedstorage_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-narrator_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-scripting_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-speech-tts_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srh_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srt_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wds-tools_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wmi_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-appxdeployment_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-appxpackaging_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wifi_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-windowsupdate_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-rejuv_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-opcservices_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-hta_{Lang}.cab"
@{
 Path = "Boot\Boot"
 Rule = @(
   "Windows Preinstallation Environment\x64\WinPE_OCs\WinPE-FontSupport-{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\lp.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\WinPE-Setup_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\WINPE-SETUP-CLIENT_{Lang}.CAB"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE OCs\{Lang}\winpe-audiocore {Lang},cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-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"
```

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C. **自定义部署映像**

□ 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:\OS11\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

 $New-Item\ -Path\ "D: \ OS11_Custom \ Install \ Mount"\ -Item Type\ directory\ -ea\ Silently Continue$

3. 开始挂载 Install.wim

默认索引号: 1

Mount-WindowsImage -ImagePath "D:\OS11\sources\install.wim" -Index "1" -Path "D:\OS11_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;

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

3.1.1. **查看 WinRE.wim 详细信息**

```
映像名称、映像描述、映像大小、架构、版本、索引号等;
```

```
$ViewFile = "D:\OS11_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"
Get-WindowsImage -ImagePath $ViewFile | Foreach-Object {
    Get-WindowsImage -ImagePath $ViewFile -index $_.ImageIndex
}
```

3.1.2. **指定挂载 WinRE.wim 路径**

New-Item -Path "D:\OS11_Custom\Install\WinRE\Mount" -ItemType directory -ea SilentlyContinue

3.1.3. 开始挂载 WinRE.wim

默认索引号: 1

 $\label{lem:linear_loss} Mount-Windows Image - Image$

3.1.4. 语言包

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

3.1.4.1. **语言包:添加**

```
复制代码或查看源文件: WinRE.Instl.lang.ps1 (本地, Github)

$Mount = "D:\OS11_Custom\Install\WinRE\Mount"
$Sources = "D:\OS11_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-audiocore_zh-CN.cab"; }
    @{ Match = "*AudioCore*"; File = "winpe-audiodrivers_zh-CN.cab"; }
    @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
    @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
```

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@{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }

```
@{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
 @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_zh-CN.cab"; }
 @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_zh-CN.cab"; }
 @{ Match = "*WiFi*"; File = "winpe-wifi_zh-CN.cab"; }
 @{ Match = "*rejuv*"; File = "winpe-rejuv_zh-CN.cab"; }
 @{ Match = "*opcservices*"; File = "winpe-opcservices_zh-CN.cab"; }
 @{ Match = "*hta*"; File = "winpe-hta_zh-CN.cab"; }
 @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_zh-CN.cab"; }
 @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_zh-CN.cab"; }
ForEach ($Rule in $Language_List) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*") {
     Write-host " Component name: " -NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host "Language pack file: "-NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Installing ".PadRight(22) -NoNewline
     try {
       Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" | Out-Null
       Write-host "Finish" -ForegroundColor Green
     } catch {
       Write-host "Failed" -ForegroundColor Red
     break
```

3.1.4.2. **脱机映像语言: 更改**

3.1.4.2.1. 更改默认语言、区域设置和其他国际设置

区域: zh-CN

Dism /Image:"D:\OS11_Custom\Install\WinRE\Mount" /Set-AllIntl:zh-CN

3.1.4.2.2. **查看可用的语言设置**

Dism /Image:"D:\OS11_Custom\Install\WinRE\Mount" /Get-Intl

3.1.4.3. **语言包: 删除, 可选**

• 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。 删除语言时,请按与添加语言组件相反的顺序卸载语言组件。

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复制代码或查看源文件: WinRE.Del.Specified.lang.Tag.ps1 (本地, Github)

```
$Lang = "en-US"
$Mount = "D:\OS11_Custom\Install\WinRE\Mount"
$Sources = "D:\OS11_Custom\Install\WinRE\Language\Del\en-US"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
$Language = @(
 @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_$($Lang).cab"; }
 @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_$($Lang).cab"; }
 @{ Match = "*hta*"; File = "winpe-hta_$($Lang).cab"; }
 @{ Match = "*opcservices*"; File = "winpe-opcservices_$($Lang).cab"; }
 @{ Match = "*rejuv*"; File = "winpe-rejuv_$($Lang).cab"; }
 @{ Match = "*WiFi*"; File = "winpe-wifi_$($Lang).cab"; }
 @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_$($Lang).cab"; }
 @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_$($Lang).cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_$($Lang).cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_$($Lang).cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_$($Lang).cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_$($Lang).cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_$($Lang).cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_$($Lang).cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_$($Lang).cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_$($Lang).cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_$($Lang).cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_$($Lang).cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_$($Lang).cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_$($Lang).cab"; }
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: " -NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host "Language pack file: "-NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
       Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -ErrorAction
SilentlyContinue | Out-Null
       Write-host "Finish" -ForegroundColor Green
     } catch {
       Write-host "Failed" -ForegroundColor Red
       Write-host " $($_)" -ForegroundColor Red
```

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```
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
```

3.1.4.4. 组件:映像中已安装的所有包

3.1.4.4.1. 查看

 $Get-Windows Package - Path "D: \OS11_Custom \Install \WinRE \Mount" | Out-Grid View \Mount \Mount$

3.1.4.4.2. **导出到 Csv**

\$SaveTo = "D:\OS11_Custom\Install\WinRE\Report.\$(Get-Date -Format
"yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS11_Custom\Install\WinRE\Mount" | Export-CSV NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

3.1.5. **累积更新,可选**

准备可用的累积更新文件,请更改示例文件名: KB_WinRE.cab

3.1.5.1. 添加

 $$KBPath = "D:\OS11_Custom\Install\WinRE\Update\KB_WinRE.cab"$$Add-WindowsPackage -Path "D:\OS11_Custom\Install\WinRE\Mount" -Package\Path $KBPath $$Add-WindowsPackage -Path $$Add-Wi$

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3.1.5.2. 删除

\$KBPath = "D:\OS11_Custom\Install\WinRE\Update\KB_WinRE.cab"

Remove-WindowsPackage -Path "D:\OS11_Custom\Install\WinRE\Mount" -PackagePath \$KBPath

3.1.5.3. **固化更新,可选项**

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

Dism /image: "D:\OS11_Custom\Install\WinRE\Mount" /cleanup-image /StartComponentCleanup /ResetBase

3.1.5.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS11_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
   }
}
```

3.1.6. 驱动,可选

3.1.7. 保存映像

3.1.8. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS11_Custom\Install\WinRE\Mount" -Discard

3.1.9. **重建 WinRE.wim 后,可缩小文件大小**

Remove-Item -Path \$Filename

```
复制代码或查看源文件: WinRE.Rebuild.ps1(本地, Github)
```

```
$FileName = "D:\OS11_Custom\Install\Inotall\Mount\Windows\System32\Recovery\WinRE.wim"

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

Write-Host " Image name: " -NoNewline

Write-Host $_.ImageName -ForegroundColor Yellow

Write-Host " The index number: " -NoNewline

Write-Host $_.ImageIndex -ForegroundColor Yellow

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

Export-WindowsImage -SourceImagePath $Filename -SourceIndex $_.ImageIndex -DestinationImagePath

"$($FileName).New" -CompressionType max

Write-Host "Finish`n" -ForegroundColor Green

}

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

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```
Move-Item -Path "$($FileName).New" -Destination $Filename
Write-Host "Finish" -ForegroundColor Green
} else {
Write-host "Failed" -ForegroundColor Red
}
```

3.1.10. **备份 WinRE.wim**

```
复制代码或查看源文件: WinRE.Backup.ps1(本地, Github)
```

```
$WimLibPath = "D:\OS11_Custom\Install\Install\Update\Winlib"

$FileName = "D:\OS11_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"

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

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

3.1.11. 替换 Install.wim 映像内的 WinRE.wim

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

处理 Install.wim 映像内的文件,结束。

4. 语言包

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

4.1. 语言包:添加

```
复制代码或查看源文件: Install.Instl.lang.ps1(本地, Github)
```

```
$Mount = "D:\OS11_Custom\Install\Install\Mount"
$Sources = "D:\OS11_Custom\Install\Install\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\Microsoft-Windows-LanguageFeatures-Fonts-Hans-
Package~31bf3856ad364e35~amd64~~.cab"
$Language_List = @(
 @{ Match = "*Client-LanguagePack-Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech-"; File = "Microsoft-Windows-LanguageFeatures-Speech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
```

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```
@{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }
   @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~zh-
CN~.cab"; }
   @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
   @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab"; }
   @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab"; }
   @\{ Match = ""PowerShell" amd 64""; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64~zh-like amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64~zh-like amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64~zh-like amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64~zh-like amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64~zh-like amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64~zh-like amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64~zh-like amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64~zh-like amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 3856 ad 364e 35~amd 64"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31bf 386e 36"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package ~31
CN~.cab"; }
   @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
   @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }
   @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
   @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
   @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~zh-
CN~.cab"; }
   @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
   @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
   @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-
   @{ Match = "*Client*LanguagePack*zh-TW*"; File = "Microsoft-Windows-InternationalFeatures-Taiwan-
Package~31bf3856ad364e35~amd64~~.cab"; }
ForEach ($Rule in $Language_List) {
   Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
   ForEach ($Component in $Initl_install_Language_Component) {
      if ($Component -like "*$($Rule.Match)*") {
         Write-host " Component name: " -NoNewline
         Write-host $Component -ForegroundColor Green
         Write-host " Language pack file: "-NoNewline
         Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
         Write-Host " Installing ".PadRight(22) -NoNewline
            Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" | Out-Null
           Write-host "Finish" -ForegroundColor Green
         } catch {
            Write-host "Failed" -ForegroundColor Red
         break
  }
```

4.2. 脱机映像语言: 更改

• 从 Windows 11 开始,DISM 设置的默认系统 UI 语言在所有版本中保持不变(家庭版除外)。对于所有商业版,在开箱即用体验 (OOBE) 期间选择的语言会设置为系统首选 UI 语言,Windows 将以此语言显示;对于家庭版,在 OOBE 期间选择的语言将继续用作默认系统 UI 语言。

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从 Windows 10 版本 2004 开始,如果将基于 .appx 的语言体验包 (LXP) 支持的语言作为参数传递,则该语言将设置为
 系统首选 UI 语言,其父语言将设置为默认系统 UI 语言。在以前的版本中,仅支持基于 .cab 的语言包。

4.2.1. 更改默认语言、区域设置和其他国际设置

区域: zh-CN

Dism /Image:"D:\OS11_Custom\Install\Install\Mount" /Set-AllIntl:"zh-CN"

4.2.2. 查看可用的语言设置

Dism /Image: "D:\OS11_Custom\Install\Install\Mount" /Get-Intl

4.3. 语言包: 删除, 可选

- 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。删除语言时,请按与添加语言组件相反的顺序卸载语言组件。
- 添加中文后,反向删除"英语-美国",区域: en-US, 需提前提取语言包

复制代码或查看源文件: Install.Del.Specified.lang.Tag.ps1(本地, Github)

```
$Lang = "en-US"
$Mount = "D:\OS11_Custom\Install\Install\Mount"
$Sources = "D:\OS11_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-
```

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```
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Client-LanguagePack_Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_$($Lang).cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: "-NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host "Language pack file: "-NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
       Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -ErrorAction SilentlyContinue | Out-
Null
       Write-host "Finish" -ForegroundColor Green
     } catch {
       Write-host "Failed" -ForegroundColor Red
      Write-host " $($_)" -ForegroundColor Red
     break
$InitlClearLanguagePackage = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 if ($_.PackageName -like "*$($Lang)*") {
   $InitlClearLanguagePackage += $_.PackageName
if ($InitlClearLanguagePackage.count -gt 0) {
 ForEach ($item in $InitlClearLanguagePackage) {
   Write-Host "`n $($item)" -ForegroundColor Green
   Write-Host " Deleting ".PadRight(22) -NoNewline
   try {
     Remove-AppxProvisionedPackage -Path $Mount -PackageName $item -ErrorAction SilentlyContinue | Out-Null
     Write-host "Finish" -ForegroundColor Green
   } catch {
     Write-host "Failed" -ForegroundColor Red
     Write-host " $($_)" -ForegroundColor Red
```

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4.4. 组件:映像中已安装的所有包

4.4.1. 查看

4.4.2. **导出到 Csv**

\$SaveTo = "D:\OS11_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS11_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

5. InBox Apps

5.1. **学习"附件: inBox Apps"**

了解不同的操作系统预安装应用,应用商店连接。

5.2. InBox Apps: 已安装

5.2.1. 查看

Get-AppXProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" | Out-GridView

5.2.2. **导出到 Csv**

\$SaveTo = "D:\OS11_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-AppXProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

5.3. 删除已安装的所有预应用程序

复制代码或查看源文件: Install.InBox.Appx.Clear.all.ps1(本地, Github)

```
Get-AppXProvisionedPackage -path "D:\OS11_Custom\Install\Mount" -ErrorAction SilentlyContinue | ForEach-Object {
    Write-host "`n $($_.DisplayName)"

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

    try {
        Remove-AppxProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" -PackageName $_.PackageName -

    ErrorAction SilentlyContinue | Out-Null

        Write-host "Finish" -ForegroundColor Green
    } catch {
        Write-host "Failed" -ForegroundColor Red
    }
}
```

5.4. 区域标记: 了解

了解区域标记前,先了解 ZuneMusic 应用程序可用的语言列表: en-us, en-gb, as-in, az-latn-az, bs-latn-ba, bn-in, cs-cz, cy-gb, ar-sa, de-de, af-za, am-et, da-dk, el-gr, es-es, es-mx, ca-es, ca-es-valencia, eu-es, fi-fi, bg-bg, ga-ie, et-ee, gl-es, gu-in, gd-gb, fil-

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ph, fr-ca, fr-fr, hy-am, fa-ir, hu-hu, id-id, it-it, ja-jp, hr-hr, ka-ge, is-is, he-il, hi-in, kk-kz, lo-la, km-kh, lt-lt, kn-in, kok-in, ko-kr, mk-mk, lv-lv, ms-my, mi-nz, mr-in, mt-mt, ne-np, nl-nl, nb-no, ml-in, nn-no, lb-lu, or-in, ro-ro, sk-sk, ru-ru, pl-pl, quz-pe, pt-br, pt-pt, sq-al, ta-in, th-th, sv-se, pa-in, sr-cyrl-ba, sr-cyrl-rs, sr-latn-rs, ur-pk, ug-cn, tr-tr, uk-ua, tt-ru, zh-cn, vi-vn, uz-latn-uz, sl-si, zh-tw, te-in

查看脱机映像已安装的语言

Dism /Image: "D:\OS11_Custom\Install\Install\Mount" /Get-Intl

查看结果已安装的语言: en-US、zh-CN,在安装 ZuneMusic 应用时,安装程序会匹配"已安装的语言",自动过滤未安装的语言列表,这就是区域标记。

5.5. 区域标记:添加方式

- 5.5.1. 执行"语言包:添加"
- 5.5.2. 安装"本地语言体验包 (LXPs)"

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

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

了解: https://github.com/ilikeyi/LXPs

下载后保存到: D:\OS11_Custom\Install\InBox.Appx, 文件格式: LanguageExperiencePack.zh-CN.Neutral.Appx

5.5.2.2. 手动下载

5.5.2.2.1. **查看"附件: LXPs**"

等待下载"简体中文 - 中国"的本地语言体验包(LXPs),区域: zh-CN,应用程序ID: 9NRMNT6GMZ70,商店连接:

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

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

5.5.2.2.2.1. 搜索关键词:

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

5.5.2.2.2.2. 网页内搜索 22621 内容,搜索结果:

Microsoft.LanguageExperiencePackzh-CN_22621.*. neutral_8wekyb3d8bbwe.appx

5.5.2.2.2.3. 下载后保存到 D:\OS11_Custom\Install\Install\InBox.Appx 目录里, 重命

名: LanguageExperiencePack.zh-cn.Neutral.Appx

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5.5.2.3. 执行安装命令安装本地语言体验包 (LXPs)

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

Add-AppxProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" -PackagePath "D:\OS11_Custom\Install\Install\InBox.appx\LanguageExperiencePack.zh-cn.Neutral.appx" - SkipLicense

5.5.2.4. **InBox Apps: 已安装的应用程序包**

5.5.2.4.1. 查看

Get-AppXProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" | Out-GridView

5.5.2.4.2. 导到出 Csv

```
$SaveTo = "D:\OS11_Custom\Install\Install\Report.$(Get-Date -Format
"yyyyMMddHHmmss").csv"

Get-AppXProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" | Export-CSV -
NoType -Path $SaveTo

Write-host $SaveTo -ForegroundColor Green
```

5.6. InBox Apps:安装

5.6.1. **挂载或解压 InBox Apps 安装文件**

挂载 22621.1.220506-1250.ni_release_amd64fre_InboxApps.iso 或解压到任意位置;

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

- Auto = 自动搜索本地所有磁盘,默认;
- 自定义路径,例如指定为 F 盘: \$ISO = "F:\packages"

复制代码或查看源文件: Install.Inst.InBox.Appx.ps1 (本地, Github)

```
$ISO = "Auto"

$Mount = "D:\OS11_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 = @(
```

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@{

```
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";
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"ServerRdsh";
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     "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 = @(
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"ProfessionalEducationN"; "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";
```

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"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 = ""; }
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 @{ 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 =
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 @{ 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"; }
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 @{ Name = "Microsoft.WebpImageExtension"; File = "Microsoft.WebpImageExtension_8wekyb3d8bbwe.x64.appx";
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License = "Microsoft.WindowsTerminal_8wekyb3d8bbwe.xml"; }
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"Microsoft.ZuneMusic_8wekyb3d8bbwe.xml"; }
 @{ Name = "MicrosoftCorporationII.MicrosoftFamily"; File =
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"MicrosoftCorporationII.MicrosoftFamily_8wekyb3d8bbwe.xml"; }
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 @{ Name = "Microsoft.People"; File = "Microsoft.People_8wekyb3d8bbwe.appxbundle"; License =
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 @{ Name = "Microsoft.Windows.CommunicationsApps"; File =
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"Microsoft.WindowsCommunicationsApps 8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.WindowsSoundRecorder"; File =
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 @{ Name = "Microsoft.XboxGameOverlay"; File = "Microsoft.XboxGameOverlay_8wekyb3d8bbwe.appxbundle";
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License = "Microsoft.XboxGamingOverlay_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.XboxIdentityProvider"; File = "Microsoft.XboxIdentityProvider_8wekyb3d8bbwe.appxbundle";
License = "Microsoft.XboxIdentityProvider_8wekyb3d8bbwe.xml"; }
 @{ Name = "Microsoft.XboxSpeechToTextOverlay"; File =
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"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 - Foreground Color Green
     Write-host " Installing".PadRight(22) -NoNewline
     try {
      Add-AppxProvisionedPackage -Path $Mount -PackagePath $File -LicensePath $License -ErrorAction
SilentlyContinue | Out-Null
      Write-Host "Done" -ForegroundColor Green
     } catch {
       Write-Host "Failed" -ForegroundColor Red
       Write-Host " $($_)" -ForegroundColor Yellow
     }
   } else {
     Write-host "No License".PadRight(22) -NoNewline -ForegroundColor Red
     Write-host " Installing".PadRight(22) -NoNewline
     try {
       Add-AppxProvisionedPackage -Path $Mount -PackagePath $File -SkipLicense -ErrorAction SilentlyContinue |
```

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```
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 {
       $AppPath = Join-Path -Path $_.Root -ChildPath "packages\$($Rule.File)" -ErrorAction SilentlyContinue
       $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
 }
```

5.7. 区域标记:删除

完成安装 InBox Apps 应用后,区域标记已不再重要,可删除或不删除,删除"本地语言体验包(LXPs),简体中文 - 中国)",区域标记:zh-CN,可更改为其它区域标记。

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复制代码或查看源文件: Install.Clear.Flag.ps1(本地, Github)

```
$Lang = "zh-CN"

Get-AppXProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" | Foreach-object {
    if ($_.DisplayName -Like "*LanguageExperiencePack*$($Lang)*") {
        Write-host " $($_.DisplayName)"
        Write-Host " Deleting ".PadRight(22) -NoNewline
        try {
            Remove-AppxProvisionedPackage -Path "D:\OS11_Custom\Install\Install\Mount" -PackageName $_.PackageName -

ErrorAction SilentlyContinue | Out-Null
            Write-host "Finish" -ForegroundColor Green
        } catch {
            Write-host "Failed" -ForegroundColor Red
        }
    }
}
```

5.8. InBox Apps: 优化

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

 $\label{lem:limited} \begin{tabular}{ll} Dism/Image: "D: \OS11_Custom \Install \Mount"/Optimize-Provisioned Appx Packages \end{tabular}$

6. 累积更新

推荐你下载最新版,提供初始版本的累积更新,解决同一版本号重新安装后刷新"组件:映像中已安装的所有包"状态。

6.1. 初始版本

6.1.1. 如何下载

累积更新 KB5016632 已无法从 https://www.catalog.update.microsoft.com/Search.aspx?q=KB5016632 里搜索到,其它下载方法,任选一个网站并打开:

- https://uupdump.net
- https://uup.ee
- 6.1.1.1. 打开后,搜索关键词:22621.382,在搜索结果选择:Windows 11, version 22H2 (22621.382) amd64
- 6.1.1.2. 打开后,选择"全部文件";
- 6.1.1.3. 在 "全部文件" 页面里搜索: KB5016632, 下载:
 - Windows11.0-KB5016632-x64.cab
 - Windows11.0-KB5016632-x64.psf

6.1.1.4. 合并累积更新

- 6.1.1.4.1. 前往 https://github.com/abbodi1406/WHD/tree/master/scripts 后下载 PSFX_Repack_6.zip
- 6.1.1.4.2. 下载后解压到: D:\PSFX_Repack_6

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```
6.1.1.4.3. 复制 Windows11.0-KB5016632-x64.cab、Windows11.0-KB5016632-x64.psf 到: D:\PSFX_Repack_6
```

6.1.1.4.4. 运行: psfx2cab_GUI.cmd 后,将得到一个新的文件:

Windows11.0-KB5016632-x64-full_psfx.cab

6.1.1.4.5. 将 Windows11.0-KB5016632-x64-full_psfx.cab 保存到:

 $D: \label{lem:loss} D: \label{loss} D: \label{loss} D: \label{loss} OS11_Custom \label{loss} Install \label{loss} D: \label{loss} OS11_Custom \label{loss} Install \label{loss} OS11_Custom \label$

6.1.2. 添加

 $$KBPath = "D:\OS11_Custom\Install\Update\Windows11.0-KB5016632-x64-full_psfx.cab"$$Add-WindowsPackage -Path "D:\OS11_Custom\Install\Install\Mount" -PackagePath $KBPath$$$KBPath$$$

6.2. 其它版本

6.2.1. 如何下载

查阅"Windows 11 版本信息",例如下载累积更新: KB5030219,前往下载页面:

https://www.catalog.update.microsoft.com/Search.aspx?q=KB5030219 或 "直连下载",保存到:

 $\label{lem:loss} D: \OS11_Custom\Install\Install\Update\windoOS11.0-kb5030219-x64_659d407821da654d564a3108bf493594bd143ab1.msu$

6.2.2. 添加

```
$KBPath = "D:\OS11\_Custom\Install\Install\Update\windoOS11.0-kb5030219-x64\_659d407821da654d564a3108bf493594bd143ab1.msu" Add-WindowsPackage - Path "D:\OS11\_Custom\Install\Install\Install\Mount" - PackagePath $KBPath = "D:\OS11\_Custom\Install\Install\Mount" - PackagePath $KBPath = "D:\OS11\_Custom\Install\Install\Mount" - PackagePath $KBPath = "D:\OS11\_Custom\Install\Nount" - PackagePath $KB
```

6.3. **固化更新,可选项**

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

 $\label{lem:limit} Dism/Image: "D: \OS11_Custom \Install \Mount"/cleanup-image/StartComponentCleanup/ResetBase$

6.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS11_Custom\Install\Install\Mount"

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

7. 驱动,可选

8. 添加部署引擎,可选

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

9. 健康

保存前应检查是否损坏,健康状态异常时,中止保存

 $Repair-Windows Image - Path "D: \OS11_Custom \Install \Install \Mount" - Scan Health \Install \Additional \Addit$

10. 替换 WinRE.wim

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

```
$WinRE = "D:\OS11_Custom\Install\Install\Update\Winlib\WinRE.wim"

$CopyTo = "D:\OS11_Custom\Install\Install\Mount\Windows\System32\Recovery"

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

11. 保存映像

Save-WindowsImage -Path "D:\OS11_Custom\Install\Install\Mount"

12. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS11_Custom\Install\Install\Mount" -Discard

循环操作区域,结束。

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

13.1. **获取 WimLib**

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

13.2. 如何在 Install.wim 里提取和更新 WinRE.wim

13.2.1. 从 Install.wim 里提取 WinRE.wim 文件 Install.wim

复制代码或查看源文件: Install.WinRE.Replace.wim.ps1(本地, Github)

```
$Arguments = @(
   "extract",
   "D:\OS11\sources\install.wim", "1",
   "\Windows\System32\Recovery\Winre.wim",
   "--dest-dir=""D:\OS11_Custom\Install\Install\Update\Winlib"""
)
```

New-Item -Path "D:\OS11_Custom\Install\Install\Update\Winlib" -ItemType Directory -ea SilentlyContinue

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

复制代码或查看源文件: Install.WinRE.Replace.wim.ps1(本地, Github)

```
Get-WindowsImage -ImagePath "D:\OS11\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:\OS11\sources\install.wim", $_.ImageIndex,
        "--command=""add 'D:\OS11_Custom\Install\Install\Update\Winlib\WinRE.wim'

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

)
    Start-Process -FilePath "d:\wimlib\wimlib-imagex.exe" -ArgumentList $Arguments -wait -nonewwindow
    Write-Host " Finish`n" -ForegroundColor Green
}
```

14. 重建 Install.wim 后可缩小文件大小

复制代码或查看源文件: Install.Rebuild.wim.ps1(本地, Github)

```
$InstallWim = "D:\OS11\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 $InstallWim -SourceIndex $_.ImageIndex -DestinationImagePath "$($InstallWim).New" -
CompressionType max | Out-Null
 Write-Host "Finish`n" -ForegroundColor Green
if (Test-Path "$($InstallWim).New" -PathType Leaf) {
 Remove-Item -Path $InstallWim
 Move-Item -Path "$($InstallWim).New" -Destination $InstallWim
 Write-Host "Finish" -ForegroundColor Green
} else {
 Write-host "Failed" -ForegroundColor Red
```

Ⅲ **自定义部署映像**: boot.wim

1. 查看 Boot.wim 文件信息

映像名称、映像描述、映像大小、架构、版本、索引号等;

```
$ViewFile = "D:\OS11\Sources\Boot.wim"

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

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2. **指定挂载 Boot.wim 路径**

New-Item -Path "D:\OS11_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:\OS11\sources\boot.wim" -Index "2" -Path "D:\OS11_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。

4.1. 语言包:添加

```
复制代码或查看源文件: Boot.Instl.lang.ps1(本地, Github)
$Mount = "D:\OS11_Custom\Boot\Boot\Mount"
$Sources = "D:\OS11_Custom\Boot\Boot\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"
$Language_List = @(
 @{ Match = "*WinPE*Setup*Client*Package*"; File = "WINPE-SETUP-CLIENT_zh-CN.CAB"; }
 @{ Match = "*WinPE*Setup*Package*"; File = "WinPE-Setup_zh-CN.cab"; }
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
ForEach ($Rule in $Language_List) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*") {
     Write-host " Component name: " -NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host "Language pack file: "-NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
```

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

try {

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

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

Write-host "Failed" -ForegroundColor Red
}

break
}
```

4.2. 脱机映像语言: 更改

4.2.1. 更改默认语言、区域设置和其他国际设置

区域标记: zh-CN

Dism /Image: "D:\OS11_Custom\Boot\Boot\Mount" /Set-AllIntl:zh-CN

4.2.2. 查看可用的语言设置

Dism /Image: "D:\OS11_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

复制代码或查看源文件: Boot.Del.Specified.lang.Tag.ps1(本地, Github)

```
$Lang = "en-US"

$Mount = "D:\OS11_Custom\Boot\Boot\Boot\Language\Del\en-US"

$InitL_instalL_Language_Component = @()

Get-WindowsPackage -Path $Mount | ForEach-Object {
    $InitL_instalL_Language_Component += $_.PackageName
}

$Language = @(
    @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
    @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
    @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
    @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
    @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
```

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```
@{ 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_x64_$($Lang).cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: "-NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host " Language pack file: " -NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
       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
```

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```
}

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:\OS11_Custom\Boot\Boot\Mount" | Out-GridView

4.4.2. **导出到 Csv**

\$SaveTo = "D:\OS11_Custom\Boot\Boot\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS11_Custom\Boot\Boot\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

4.5. 语言包: 修复

4.5.1. **提取**

打开: D:\OS11_Custom\Install\Install\Language\Add\zh-CN\Microsoft-Windows-Client-Language-Pack_x64_zh-

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

4.5.1.1. arunres.dll.mui

4.5.1.2. spwizres.dll.mui

4.5.1.3. w32uires.dll.mui

4.5.2. **复制**

将提取的文件复制到: D:\OS11_Custom\Boot\Boot\Mount\sources\zh-CN

4.6. **语言包: 同步到 ISO 安装程序**

 $Copy-Item\ -Path\ "D: \ OS11_Custom \ Boot \ Mount \ sources \ zh-CN"\ -Destination\ "D: \ OS11 \ sources \ zh-CN"\ -Recurse\ -Force$

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4.7. **重新生成 Lang.ini**

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

4.7.1. **重新生成已挂载目录** lang.ini

重新生成的 Lang.ini 文件位置: D:\en-

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

Dism /image: "D:\OS11_Custom\Boot\Boot\Mount" /gen-langini /distribution: "D:\OS11_Custom\Boot\Boot\Mount"

4.7.2. 重新生成 lang.ini 后,同步到安装程序

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

 $\label{lem:limit} Dism/image: "D: \OS11_Custom \Boot \Boot \Mount"/gen-langini/distribution: "D: \OS11" \Boot \B$

5. 累积更新,可选

准备可用的累积更新文件,请更改示例文件名: KB_Boot.cab

5.1. 添加

```
$KBPath = "D:\OS11_Custom\Boot\Doot\Update\KB_Boot.cab"

Add-WindowsPackage -Path "D:\OS11_Custom\Boot\Boot\Mount" -PackagePath $KBPath
```

5.2. 删除

```
$KBPath = "D:\OS11_Custom\Boot\Boot\Update\KB_Boot.cab"

Remove-WindowsPackage -Path "D:\OS11_Custom\Boot\Boot\Mount" -PackagePath $KBPath
```

5.3. **固化更新,可选项**

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

 $\label{lem:limit} Dism\/image: "D:\OS11_Custom\/Boot\/Boot\/Mount"\/cleanup-image\/StartComponentCleanup\/ResetBase$

5.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS11_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
   }
}
```

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6. 驱动,可选

7. 其它

7.1. **绕过 TPM**

复制代码或查看源文件: Boot.Bypass.TPM.ps1(本地, Github)

\$RegSystem = "D:\OS11_Custom\Boot\Boot\Mount\Windows\System32\Config\SYSTEM"

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

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

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

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

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

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

 $New-Item Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property Type Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Literal Path "HKLM: \space{config}" - Name "Bypass Storage Check" - Value 1 - Property - Name "Bypass Storage Check" - Value 1 - Property - Name "Bypass Storage Check" - Value 1 - Property - Name "Bypass Storage Check" - Value 1 - Property - Val$

DWord -Force -ea SilentlyContinue | Out-Null

DWord -Force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\\$(\$RandomGuid)\Setup\LabConfig" -Name "BypassTPMCheck" -Value 1 -PropertyType

DWord -Force -ea SilentlyContinue | Out-Null

New-ItemProperty -LiteralPath "HKLM:\\$(\$RandomGuid)\Setup\LabConfig" -Name "BypassSecureBootCheck" -Value 1 -

PropertyType DWord -Force -ea SilentlyContinue | Out-Null

[gc]::collect()

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

8. 保存映像

Save-WindowsImage -Path "D:\OS11_Custom\Boot\Boot\Mount"

9. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

 $\label{lem:lemont} Dismount-WindowsImage - Path "D: \OS11_Custom \Boot \Boot$

Ⅳ 部署引擎

- 了解"自动添加 Windows 系统已安装的语言",学习:https://github.com/ilikeyi/Multilingual,如何下载:
 - 进入网站后,点击 "代码", "下载压缩包",下载完成后得到 main.zip 压缩包文件。
 - 前往 https://github.com/ilikeyi/Multilingual/releases 下载页面,选择可用版本: 1.1.0.4,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。

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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:\OS11\Autounattend.xml

 $\label{lem:copy-ltem:def} \begin{tabular}{ll} Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS11\Autounattend.xml" -Force \end{tabular}$

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:\OS11\Sources\Unattend.xml

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS11\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**

1.1.1.3.2. 复制

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

D:\OS11\Sources\\$OEM\$\Panther\Unattend.xml

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS11\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:\OS11\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:\OS11\Sources\\$OEM\$\\$1\Yi\Engine

Copy-Item "D:\Multilingual\Engine" -Destination "D:\OS11\sources\` \$OEM\$\` \$1\Yi\Engine" -Recurse - Force

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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:\OS11\sources\` $OEM$\` $1\Yi\Engine\Deploy\Allow" -ItemType Directory -
ErrorAction SilentlyContinue | Out-Null
 Out-File -FilePath "D:\OS11\sources\`$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:\OS11_Custom\Install\Install\Mount

1.2.1. 无人值守

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS11_Custom\Install\Install\Mount\Panther\Unattend.xml

 $\label{lem:copy-lem:def} $$ Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination $$ "D:\OS11_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:\OS11_Custom\Install\Install\Mount\Yi\Engine 目录里。

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1.2.2.1. 部署引擎: 复制

复制 D:\Multilingual\Engine 到 D:\OS11_Custom\Install\Install\Mount\Yi\Engine

 $\label{lem:copy-ltem:cop$

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
```

 $New-Item\ -Path\ "D: \ OS11_Custom \ Install \ Mount \ Yi \ Engine \ Deploy \ Allow "-Item Type\ Directory-Item Type\ Directory-Item$

 $Out-File - File Path "D: \OS11_Custom \Install \Mount \Yi \Engine \Deploy \Allow \$ (\$item) "- Encoding \Allow \$

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。

ForEach (\$item in \$Flag) {

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

ErrorAction SilentlyContinue | Out-Null

utf8 -ErrorAction SilentlyContinue

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:

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- D:\OS11\Autounattend.xml
- D:\OS11\Sources\Unattend.xml
- D:\OS11\sources\\$OEM\$\\$\$\Panther\unattend.xml
- D:\OS11_Custom\Install\Install\Mount\Panther\Unattend.xml

2.2.1. 多语言或单语

多语言时, 单语时, 可互相切换, 替换时, 请替换文件里所有相同的。

2.2.1.1. 多语言

- <UILanguage>%OSDUILanguage%</UILanguage>
- <InputLocale>%OSDInputLocale%</inputLocale>
- <SystemLocale>%OSDSystemLocale%</SystemLocale>
- UILanguage>%OSDUILanguage%</UILanguage>
- <UILanguageFallback>%OSDUILanguageFallback%</UILanguageFallback>
- <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>

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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 后,保存到:C:\Windows\System32 目录里,保存在其它路径,或请输入 OScdimg.exe 绝对位置;
- 2. 使用 oscdimg 命令行生成一个 ISO 文件,保存到: D:\Win11.iso

复制代码或查看源文件: ISO.ps1(本地, Github)

```
$ISO = "D:\OS11"$ $Volume = "OS11"$ $SaveTo = "D:\OS11.iso"$ $Arguments = @("-m", "-o", "-u2", "-udfver102", "-l""$($Volume)""", "-bootdata:2#p0,e,b""$($ISO)\boot\etfsboot.com""#pEF,e,b""$($ISO)\efi\microsoft\boot\efisys.bin""", $ISO, $SaveTo)$ $Start-Process -FilePath "OSCdimg.exe" -ArgumentList $Arguments -wait -nonewwindow
```

Ⅲ 绕过 TPM 安装检查,可选

1. 了解 https://github.com/AveYo/MediaCreationTool.bat/tree/main/bypass11 并下载: Quick_11_iso_esd_wim_TPM_toggle.bat

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2. 将 D:\OS11.iso 文件托到 Quick_11_iso_esd_wim_TPM_toggle.bat 里,反序"添加"或"删除"TPM 安装时检查功能。

二、常见问题

II 清理所有挂载到

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

 $\label{lem:linear_loss} Dismount-Windows Image - Path "D: \OS11_Custom \Install \WinRE \Mount" - Discard$

Dismount-WindowsImage -Path "D:\OS11_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。

 ${\bf Clear\text{-}WindowsCorruptMountPoint}$

Dism/cleanup-wim

Ⅳ 清理目录

Remove-Item "D:\OS11_Custom" -Force -Recurse

Remove-Item "D:\OS11\Sources\` \$OEM\$" -Force -Recurse

Remove-Item -Path "D:\OS11\Autounattend.xml" -Force

Remove-Item -Path "D:\OS11\Sources\Unattend.xml" -Force

三、 已知问题

暂无

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四、 组件:映像中已安装的所有包,对比

安装新的语言包后变化,组件列表:

序号	类型	组件: 原始	组件:安装"简体中文-中国"语言包后变化
1	OnDemandPack	Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.317	Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.317
2	OnDemandPack	Microsoft-OneCore-DirectX-Database-FOD- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-OneCore-DirectX-Database-FOD- Package~31bf3856ad364e35~amd64~~10.0.22621.1
3	LanguagePack	Microsoft-Windows-Client-LanguagePack- Package~31bf3856ad364e35~amd64~en- US~10.0.22621.382	Microsoft-Windows-Client-LanguagePack- Package~31bf3856ad364e35~amd64~en- US~10.0.22621.382
4	LanguagePack		Microsoft-Windows-Client-LanguagePack- Package~31bf3856ad364e35~amd64~zh- CN~10.0.22621.382
5	OnDemandPack	Microsoft-Windows-Ethernet-Client-Intel-E1i68x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Ethernet-Client-Intel-E1i68x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
6	OnDemandPack	Microsoft-Windows-Ethernet-Client-Intel-E2f68-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Ethernet-Client-Intel-E2f68-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
7	OnDemandPack	Microsoft-Windows-Ethernet-Client-Realtek-Rtcx21x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Ethernet-Client-Realtek-Rtcx21x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
8	OnDemandPack	Microsoft-Windows-Ethernet-Client-Vmware-Vmxnet3-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Ethernet-Client-Vmware-Vmxnet3-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
9	FeaturePack	Microsoft-Windows-FodMetadata- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-FodMetadata- Package~31bf3856ad364e35~amd64~~10.0.22621.1
10	Foundation	Microsoft-Windows-Foundation- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Foundation- Package~31bf3856ad364e35~amd64~~10.0.22621.1
11	OnDemandPack	Microsoft-Windows-Hello-Face- Package~31bf3856ad364e35~amd64~~10.0.22621.317	Microsoft-Windows-Hello-Face- Package~31bf3856ad364e35~amd64~~10.0.22621.317
12	OnDemandPack	Microsoft-Windows-InternetExplorer-Optional- Package~31bf3856ad364e35~amd64~en-US~11.0.22621.1	Microsoft-Windows-InternetExplorer-Optional- Package~31bf3856ad364e35~amd64~en-US~11.0.22621.1
13	OnDemandPack		Microsoft-Windows-InternetExplorer-Optional- Package~31bf3856ad364e35~amd64~zh-CN~11.0.22621.1
14	OnDemandPack	Microsoft-Windows-InternetExplorer-Optional- Package~31bf3856ad364e35~amd64~~11.0.22621.1	Microsoft-Windows-InternetExplorer-Optional- Package~31bf3856ad364e35~amd64~~11.0.22621.1
15	OnDemandPack	Microsoft-Windows-Kernel-LA57-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.382	Microsoft-Windows-Kernel-LA57-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.382
16	OnDemandPack	Microsoft-Windows-LanguageFeatures-Basic-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-LanguageFeatures-Basic-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1
17	OnDemandPack		Microsoft-Windows-LanguageFeatures-Basic-zh-cn- Package~31bf3856ad364e35~amd64~~10.0.22621.1
18	OnDemandPack		Microsoft-Windows-LanguageFeatures-Fonts-Hans- Package~31bf3856ad364e35~amd64~~10.0.22621.1
19	OnDemandPack	Microsoft-Windows-LanguageFeatures-Handwriting-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-LanguageFeatures-Handwriting-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1
20	OnDemandPack		Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.317
21	OnDemandPack	Microsoft-Windows-LanguageFeatures-OCR-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-LanguageFeatures-OCR-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1
22	OnDemandPack		Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1
23	OnDemandPack	Microsoft-Windows-LanguageFeatures-Speech-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-LanguageFeatures-Speech-en-us- Package~31bf3856ad364e35~amd64~~10.0.22621.1
24	OnDemandPack		Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1
25	OnDemandPack	Microsoft-Windows-LanguageFeatures-TextToSpeech-en-	Microsoft-Windows-LanguageFeatures-TextToSpeech-en-

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序号	类型	组件: 原始	组件:安装"简体中文-中国"语言包后变化
		us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	us-Package~31bf3856ad364e35~amd64~~10.0.22621.1
26	OnDemandPack		Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1
27	OnDemandPack	Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~amd64~en- US~10.0.22621.317	Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~amd64~en- US~10.0.22621.317
28	OnDemandPack		Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~amd64~zh- CN~10.0.22621.317
29	OnDemandPack	Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~amd64~~10.0.22621.382	Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~amd64~~10.0.22621.382
30	OnDemandPack	Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1
31	OnDemandPack		Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
32	OnDemandPack	Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-MediaPlayer- Package~31bf3856ad364e35~wow64~~10.0.22621.1
33	OnDemandPack	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
34	OnDemandPack		Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
35	OnDemandPack	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.1
36	OnDemandPack	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1
37	OnDemandPack		Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
38	OnDemandPack	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-Notepad-System-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1
39	OnDemandPack	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
40	OnDemandPack		Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
41	OnDemandPack	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~amd64~~10.0.22621.1
42	OnDemandPack	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1
43	OnDemandPack		Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
44	OnDemandPack	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-PowerShell-ISE-FOD- Package~31bf3856ad364e35~wow64~~10.0.22621.1
45	OnDemandPack	Microsoft-Windows-Printing-PMCPPC-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-Printing-PMCPPC-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
46	OnDemandPack		Microsoft-Windows-Printing-PMCPPC-FoD- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
47	OnDemandPack	Microsoft-Windows-Printing-PMCPPC-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Printing-PMCPPC-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.1
48	OnDemandPack	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
49	OnDemandPack		Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
50	OnDemandPack	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~amd64~~10.0.22621.1
51	OnDemandPack	Microsoft-Windows-StepsRecorder-	Microsoft-Windows-StepsRecorder-

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序号	类型	组件: 原始	组件:安装"简体中文-中国"语言包后变化
		Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1
52	OnDemandPack		Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
53	OnDemandPack	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-StepsRecorder- Package~31bf3856ad364e35~wow64~~10.0.22621.1
54	OnDemandPack	Microsoft-Windows-TabletPCMath- Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-TabletPCMath- Package~31bf3856ad364e35~amd64~~10.0.22621.1
55	OnDemandPack	Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
56	OnDemandPack	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
57	OnDemandPack	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
58	OnDemandPack	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
59	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
60	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
61	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
62	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
63	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwns64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwns64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
64	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
65	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
66	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
67	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwtw06-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwtw06-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
68	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwtw08-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwtw08-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
69	OnDemandPack	Microsoft-Windows-Wifi-Client-Intel-Netwtw10-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Intel-Netwtw10-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
70	OnDemandPack	Microsoft-Windows-Wifi-Client-Marvel-Mrvlpcie8897-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Marvel-Mrvlpcie8897-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
71	OnDemandPack	Microsoft-Windows-Wifi-Client-Qualcomm-Athw8x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Qualcomm-Athw8x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
72	OnDemandPack	Microsoft-Windows-Wifi-Client-Qualcomm-Athwnx-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Qualcomm-Athwnx-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
73	OnDemandPack	Microsoft-Windows-Wifi-Client-Qualcomm-Qcamain10x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Qualcomm-Qcamain10x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
74	OnDemandPack	Microsoft-Windows-Wifi-Client-Ralink-Netr28x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Ralink-Netr28x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
75	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtl8187se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtl8187se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
76	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtl8192se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtl8192se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
77	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtl819xp-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtl819xp-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1

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序号	类型	组件: 原始	组件:安装"简体中文-中国"语言包后变化
78	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtl85n64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtl85n64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
79	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
80	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
81	OnDemandPack	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane13-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane13-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1
82	OnDemandPack	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
83	OnDemandPack		Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
84	OnDemandPack	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.382	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.382
85	OnDemandPack	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1
86	OnDemandPack		Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
87	OnDemandPack	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-WMIC-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1
88	OnDemandPack	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1
89	OnDemandPack		Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1
90	OnDemandPack	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.317	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~amd64~~10.0.22621.317
91	OnDemandPack	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1
92	OnDemandPack		Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1
93	OnDemandPack	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1	Microsoft-Windows-WordPad-FoD- Package~31bf3856ad364e35~wow64~~10.0.22621.1
94	OnDemandPack	OpenSSH-Client- Package~31bf3856ad364e35~amd64~~10.0.22621.1	OpenSSH-Client- Package~31bf3856ad364e35~amd64~~10.0.22621.1
95	Update	Package_for_DotNetRollup_481~31bf3856ad364e35~amd6 4~~10.0.9065.6	Package_for_DotNetRollup_481~31bf3856ad364e35~amd64~~10.0.9065.6
96	SecurityUpdate	Package_for_RollupFix~31bf3856ad364e35~amd64~~2262 1.382.1.13	Package_for_RollupFix~31bf3856ad364e35~amd64~~2262 1.382.1.13
97	SecurityUpdate	Package_for_ServicingStack_378~31bf3856ad364e35~amd 64~~22621.378.1.0	Package_for_ServicingStack_378~31bf3856ad364e35~amd 64~~22621.378.1.0

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