MICROSOFT WINDOWS 10

不同的系统版本,有着不同的封装方式,封装过程中包含:"语言包:添加、关联、删除"、"驱动:添加、删除"、"累积更新:添加、删除"、"InBox Apps:添加、更新、标记"等。

在这背后藏着很多的隐藏故事,想解开这些,你准备好开始尝试封装了吗?

摘要

章节1 部署映像

章节2 报告

章节3 常见问题

章节4 已知问题



章节 1	部署	映像	. 第6页
A.	先决	条件	第6页
	II	ISO工具	第6页
	III	要求	第 6 页
		1. 系统安装包	第6页
		2. 语言包	第 7 页
		2.1. 学习	第 7 页
		2.2. 语言包: 下载	第 10 页
	IV	Windows 安全中心	第 10 页
	V	命令行	. 第11页
В.	语言	包:提取	第11页
	II	语言包: 准备	第11页
	III	语言包: 提取方案	第11页
	IV	执行提取命令	第12页
C.	自定	2义部署映像	第17页
	II	自定义部署映像:Install.wim	第17页
		1. 查看 Install.wim 详细信息	第18页
		2. 指定挂载路径: Install.wim	第18页
		3. 开始挂载 Install.wim	第18页
		3.1. 自定义部署映像:WinRE.wim	第18页
		3.1.1. 查看 WinRE.wim 详细信息	第18页
		3.1.2. 指定挂载路径: WinRE.wim	第18页
		3.1.3. 开始挂载 WinRE.wim	第18页
		3.1.4. 语言包	第19页
		3.1.4.1. 语言包:添加	第 19 页

			3.1.4.2.	脱机映像语言: 更改	第 20 页
				3.1.4.2.1. 更改默认语言、区域设置和其他国际设置	第 20 页
				3.1.4.2.2. 查看可用的语言设置	第 21 页
			3.1.4.3.	语言包: 删除	第 21 页
			3.1.4.4.	组件:映像中已安装的所有包	第 23 页
		3.1.5.	累积更新		第 23 页
			3.1.5.1.	添加	第 23 页
			3.1.5.2.	删除	第23页
			3.1.5.3.	固化更新	第24页
				3.1.5.3.1. 固化更新后清理组件	第 24 页
		3.1.6.	驱动		第 24 页
		3.1.7.	保存映像		第 24 页
		3.1.8.	卸载映像		第 24 页
		3.1.9.	重建 WinR	E.wim 后,可缩小文件大小	第 24 页
		3.1.10.	备份 WinRI	E.wim	第 25 页
		3.1.11.	替换 Instal	l.wim 映像内的 WinRE.wim	第 25 页
4.	语言包				第 26 页
	4.1.	语言包: 注	添加		第 26 页
	4.2.	脱机映像	语言: 更改		第 32 页
		4.2.1.	更改默认语	音言、区域设置和其他国际设置	第 32页
		4.2.2.	查看可用的	的语言设置	第 32 页
	4.3.	语言包: ;	删除		第 32 页
	4.4.	组件:映	像中已安装的	的所有包	第 34 页
5.	InBox A	.pps			第 35 页

	5.1.	InBox Apps:预安装应用程序	第35页		
	5.2.	InBox Apps: 已安装	第37页		
	5.3.	删除已安装的所有预应用程序	第37页		
	5.4.	区域标记: 了解	第37页		
	5.5.	区域标记:添加方式	第38页		
	5.6.	InBox Apps:安装	第 41 页		
	5.7.	区域标记: 删除	第 48 页		
	5.8.	InBox Apps: 优化	第 49 页		
6.	累积更	新	第49页		
	6.1.	功能启用包	第49页		
	6.2.	初始版本	第 49 页		
	6.3.	其它版本	第 51 页		
	6.4.	固化更新	第 52 页		
		6.4.1. 固化更新后清理组件	第 52 页		
7.	驱动。		第52页		
8.	部署引	擎:添加	第 52 页		
9.	健康				
10.	替换 WinRE.wim				
11.	保存映像				
12.	卸载映像				
13.	重建 Install.wim 后可缩小文件大小				
14.	如何批量替换 Install.wim 里的所有索引号里的 WinRE.wim				
	14.1.	获取 WimLib	第 54 页		
	14.2.	如何在 Install.wim 里提取和更新 WinRE.wim	第 54 页		
自定	自定义部署映像: boot.wim				
1.	查看 Bo	oot.wim 详细信息	第 55 页		

Ш

2.	指定挂	載路径:Boot.wim	第 55 页
3.	开始挂	载 Boot.wim	第 55 页
4.	语言包		第 55 页
	4.1.	语言包:添加	第55页
	4.2.	脱机映像语言: 更改	第57页
		4.2.1. 更改默认语言、区域设置和其他国际设置	第57页
		4.2.2. 查看可用的语言设置	第 57 页
	4.3.	语言包: 删除	第 57 页
	4.4.	组件:映像中已安装的所有包	第 60 页
	4.5.	语言包:同步到 ISO 安装程序	第 60 页
	4.6.	重新生成 Lang.ini	第 60 页
		4.6.1. 重新生成已挂载目录 lang.ini	第60页
		4.6.2. 重新生成 lang.ini 后,同步到安装程序	第60页
5.	累积更	新	第 60 页
	5.1.	添加	第 60 页
	5.2.	删除	第61页
	5.3.	固化更新	第 61 页
		5.3.1. 固化更新后清理组件	第61 页
6.	驱动。		第61 页
7.	保存映	象	第 61 页
8.	卸载映	象	第61 页
部署	引擎		第61页
1.	添加方	式	第 62 页
2.	部署引	擎: 进阶	第 65 页

IV

ISO	第 67 页
II 生成 ISO	第 67 页
报告	第 68 页
报告:不同版本	第 68 页
语言安装包适用于:Install.wim	第70页
语言安装包适用于:WinRE.wim	第 71 页
语言安装包适用于:Boot.wim	第72页
常见问题	第 73 页
清理所有挂载到	第 73 页
修复挂载出现异常的问题	第 73 页
清理目录	第 74 页
已知问题	第 74 正
	II 生成 ISO 报告 报告: 报告: 不同版本 语言安装包适用于: Install.wim 语言安装包适用于: WinRE.wim 常三安装包适用于: Boot.wim 常见问题 清理所有挂载到 修复挂载出现异常的问题 ***

章节1 部署映像

A. 先决条件

II ISO 工具

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

Ⅲ 要求

1. 系统安装包

关键词: 迭代、跨版本、大版本、累积更新、初始版本

1.1. 说明

- 1.1.1. 每版本更新时请重新制作镜像,例如从 21H1 跨越到 22H2 时,应避免出现其它兼容性问题请勿在旧镜像基础上制作;
- 1.1.2. 该条例已经在某些 OEM 厂商,通过各种形式向封装师明确传达了该法令,不允许直接从迭代版本里直接升级;
- 1.1.3. 制作中请使用"初始版本"、"开发者版"制作。微软官方文档里曾短暂的出现过在制作中必须使用初始版本,后来这句在官方文档里却被删除了;
- 1.1.4. 安装语言包后,必须重新添加累积更新(可同一版本号),不添加累积更新会出现"乱码"、"界面闪退"等问题。
- 1.1.5. 进化过程: Windows 10 22H2, Build 19045.2006 + KB5027215 = OS Build 19045.3086

1.2. 准备下载初始版本或开发者版本

- **1.2.1.** en-us_windows_10_business_editions_version_22h2_x64_dvd_8cf17b79.iso
- 1.2.2. en-us_windows_10_business_editions_version_22h2_x86_dvd_186a68c3.iso
- **1.2.3.** en-us_windows_10_consumer_editions_version_22h2_x64_dvd_8da72ab3.iso
- 1.2.4. en-us_windows_10_consumer_editions_version_22h2_x86_dvd_90883feb.iso
- **1.2.5.** en-us_windows_10_iot_enterprise_version_22h2_arm64_dvd_39566b6b.iso
- 1.2.6. en-us_windows_10_iot_enterprise_version_22h2_x64_dvd_51cc370f.iso
- 1.2.7. en-us_windows_10_business_editions_version_21h2_x64_dvd_ce067768.iso
- 1.2.8. en-us_windows_10_business_editions_version_21h2_x86_dvd_8aba314e.iso
- 1.2.9. en-us_windows_10_consumer_editions_version_21h2_x64_dvd_6cfdb144.iso
- 1.2.10. en-us_windows_10_consumer_editions_version_21h2_x86_dvd_31755f1b.iso
- $\textbf{1.2.11.} \qquad \text{en-us_windows_10_enterprise_ltsc_2021_x64_dvd_d289cf96.} iso$
- 1.2.12. en-us_windows_10_enterprise_ltsc_2021_x86_dvd_9f4aa95f.iso

- 1.3. 示例下载 en-us_windows_10_business_editions_version_22h2_x64_dvd_8cf17b79.iso 后,解压到: D:\en-us_windows_10_business_editions_version_22h2_x64_dvd_8cf17b79
- 1.4. 解压完成后,将目录 en-us_windows_10_business_editions_version_22h2_x64_dvd_8cf17b79 更改为 D:\OS_10
- 1.5. 所有脚本、所有路径,已默认设置为 D:\OS_10 为映像来源。
- 1.6. 安装配置
 - 1.6.1. 学习: Windows 安装版配置和产品 ID 文件 (El.cfg 和 PID.txt)
 - 1.6.2. 已知问题
 - 1.6.2.1. 没有 Ei.cfg 时,ISO 引导安装,选择某些版本时会报错,提示: Windows 找不到 Microsoft 软件许可条款。请确保安装源有效。然后重新启动安装。
 - 1.6.2.2. 如何解决,添加 ei.cfg 到 D:\OS_11\Sources 里,创建 ei.cfg:

@"

[Channel]

volume

[VL]

1

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

- 2. 语言包
 - 2.1. 学习

阅读时,请了解"蓝色"重要突出部分。

- 2.1.1. 语言概述
- 2.1.2. 将语言添加到 Windows 10 映像
- 2.1.3. 语言和区域按需功能 (FOD)
 - 2.1.3.1. 字体
 - 添加语言包时,触发了对应的区域时,需添加所需的字体功能,下载"所有可用语言 FOD 的列表"了解更多。
 - 在"语言包:提取"时,已加入自动识别功能,可了解函数:Function Match_Required_Fonts



2.1.3.2. 区域关联

区域关联是什么?

映像语言仅英文版时,添加 zh-HK 语言包后,映像语言不会新增,应先安装 zh-TW 后,再安装 zh-HK 即可获得对应的关联。

已知区域关联:

- 2.1.3.2.1. 区域: ar-sa, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.1.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.1.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.2. 区域: bg-bg, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.2.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.2.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.3. 区域: da-dk, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.3.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.3.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.4. 区域: el-gr, 可选关联区域: en-US, 关联安装包:
 - 2.1.3.2.4.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.4.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.5. 区域: fr-ca, 可选关联区域: en-US、fr-fr, 关联安装包:
 - 2.1.3.2.5.1. Microsoft-Windows-LanguageFeatures-Basic-es-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.5.2. Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.5.3. Microsoft-Windows-LanguageFeatures-Basic-fr-fr-Package~31bf3856ad364e35~amd64~~.cab
 - 2.1.3.2.5.4. Microsoft-Windows-LanguageFeatures-Handwriting-fi-fi-



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

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

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

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

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

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

2.1.3.2.9. 区域: uk-ua, 可选关联区域: en-US, 关联安装包:

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

2.1.3.2.10. 区域: zh-TW, 可选关联区域: zh-HK, 关联安装包:

- 2.1.3.2.10.1. Microsoft-Windows-LanguageFeatures-Basic-zh-hk-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.10.2. Microsoft-Windows-LanguageFeatures-Speech-zh-hk-Package~31bf3856ad364e35~amd64~~.cab
- 2.1.3.2.10.3. Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-hk-Package~31bf3856ad364e35~amd64~~.cab

2.1.3.3. 其它区域特定的要求

触发已知区域时,需添加特定的"程序包"。

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

 $Package \hbox{$\sim$} 31bf3856ad364e35 \hbox{\sim} amd64 \hbox{\sim}.cab$

说明:对台湾日期格式设置要求的补充支持。将为位于台湾的客户提供包。

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

存在争议:

在测试中发现,微软官方原版 Windows 10 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。

2.2. 语言包: 下载

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

2.3. 功能包: 下载

ARM64: https://software-static.download.prss.microsoft.com/pr/download/19041.1.191206-1406.vb_release_arm64fre_FOD-PACKAGES_OEM_PT1_arm64fre_MULTI.iso

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

X86: https://software-static.download.prss.microsoft.com/pr/download/19041.1.191206-1406.vb_release_x86fre_FOD-PACKAGES_OEM_PT1_x86fre_MULTI.iso

3. InBox Apps

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

IV Windows 安全中心

- 在处理封装任务时,将产生大量的临时文件,安装 InBox Apps 里的应用时会释放大量的安装文件;
- 开启 Windows 安全中心会扫描文件、会占用大量的 CPU。
- 测试中:未关闭前耗时 1 小时 22 分,关闭后耗时 20 分钟。

如何关闭:

绿色为命令行,按住 Windows 键并按 R 键启动 "运行"。

- 1. 打开 "Windows 安全中心" 或运行: windowsdefender:
- 2. 选择"病毒和威胁防护"或运行: windowsdefender://threat
- 3. 找到"病毒和威胁防护设置",点击"管理设置"或运行: windowsdefender://threatsettings,建议您关闭部分功能:
 - 3.1. 实时保护

- 3.2. 云提供的保护
- 3.3. 自动提交样本
- 3.4. 篡改防护
- 4. 未处于封装时,建议您开启 Windows 安全中心。

V 命令行

- 1. 可选"Terminal "或"PowerShell ISE",未安装"Terminal",请前往 https://github.com/microsoft/terminal/releases 后下载;
- 2. 以管理员身份打开"Terminal"或"PowerShell ISE",设置 PowerShell 执行策略:绕过,PS 命令行:

Set-ExecutionPolicy - ExecutionPolicy Bypass - Force

- 3. 在本文中,绿色部分属于 PS 命令行,请复制后,粘贴到"Terminal"对话框,按回车键(Enter)后开始运行;
- 4. 有 .ps1 时,点击文件右键,选择以 PowerShell 运行,或复制路径,粘贴到"Terminal"或"PowerShell ISE"里运行。
- B. 语言包: 提取
 - Ⅱ 语言包:准备
 - 1. 语言包: 挂载

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

2. 功能包: 挂载

请正确选择架构版本,提取错误的语言包,安装会报错误。

 $\textbf{ARM64:}\ 19041.1.191206-1406.vb_release_arm64 fre_FOD-PACKAGES_OEM_PT1_arm64 fre_MULTI.iso$

X64: 19041.1.191206-1406.vb_release_amd64fre_FOD-PACKAGES_OEM_PT1_amd64fre_MULTI.iso

 $\textbf{X86:}\ 19041.1.191206-1406.vb_release_x86 fre_FOD-PACKAGES_OEM_PT1_x86 fre_MULTI.iso$

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



IV 执行提取命令

- Auto = 自动搜索本地所有磁盘, 默认;
- 自定义路径,例如指定为 E 盘: \$ISO = "E:\"
- Extract.ps1
 - o \Expand\Extract.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Extract.ps1

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

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

return \$item.Name

```
return "Skip_specific_packages"
Function Extract_Process
    param($Package, $Name, $NewSaveTo)
     \ensuremath{$\text{NewSaveTo}}\ = "$($SaveTo)\$($NewSaveTo)\Language\$($Act)\$($NewLang)"
    New-Item -Path $NewSaveTo -ItemType Directory -ErrorAction SilentlyContinue | Out-Null
    if ($ISO -eq "Auto") {
         Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
              ForEach ($item in $Package) {
                   \verb| TempFilePath = Join-Path + Path + L. Root - ChildPath + Item - Error + ChildPath + Item - Item 
                   if (Test-Path $TempFilePath -PathType Leaf) {
                        Write-host "`n Find: "-NoNewLine; Write-host $TempFilePath -ForegroundColor Green
                        Write-host " Copy to: " -NoNewLine; Write-host $NewSaveTo
                        Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force
    } else {
         ForEach ($item in $Package) {
              $TempFilePath = Join-Path +Path $ISO - ChildPath $item - ErrorAction SilentlyContinue
              Write-host "`n Find: "-NoNewline; Write-host $TempFilePath -ForegroundColor Green
              if (Test-Path $TempFilePath -PathType Leaf) {
                   Write-host " Copy to: " -NoNewLine; Write-host $NewSaveTo
                   Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force
              } else {
                   Write-host " Not found"
        }
    Write-host "`n Verify the language pack file"
    ForEach ($item in $Package) {
```

```
$Path = "$($NewSaveTo)\$([IO.Path]::GetFileName($item))"
   if (Test-Path $Path -PathType Leaf) {
    Write-host " Discover: " -NoNewLine; Write-host $Path -ForegroundColor Green
   } else {
    Write-host " Not found: " -NoNewLine; Write-host $Path -ForegroundColor Red
$AdvLanguage = @(
 @{
   Path = "Install\Install"
   Rule = @(
    "Microsoft-Windows-LanguageFeatures-Fonts-{DiyLang}-Package~31bf3856ad364e35~AMD64~~.cab"
    "{ARCHC}\langpacks\Microsoft-Windows-Client-Language-Pack_x64_{Lang}.cab"
    "Microsoft-Windows-Language Features-Basic-\{Lang\}-Package \sim 31 bf 3856 ad 364 e 35 \sim AMD 64 \sim \cdot. cab"
    "Microsoft-Windows-LanguageFeatures-Handwriting-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
    "Microsoft-Windows-LanguageFeatures-OCR-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
    "Microsoft-Windows-LanguageFeatures-Speech-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
    "Microsoft-Windows-LanguageFeatures-TextToSpeech-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
    "Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
     "Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
    "Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~{ARCH}~{Lang}~.cab"
    "Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~{ARCH}~{Lang}~.cab"
    "Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
    "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
    "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
    "Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
     "Microsoft-Windows-Printing-WFS-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
     "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
     "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
     "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
     "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
    "Microsoft-Windows-InternationalFeatures-{Specific}-Package~31bf3856ad364e35~amd64~~.cab"
```

```
@{
 Path = "Install\WinRE"
 Rule = @(
  "Windows Preinstallation Environment\x64\WinPE_OCs\WinPE-FontSupport-{Lang}.cab"
  "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\lp.cab"
  "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"
  "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"
  "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"
  "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-enhancedstorage_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-narrator_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-scripting_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-speech-tts_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srh_{Lang}.cab"
  "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srt_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wds-tools_{Lang}.cab"
  "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wmi_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-appxpackaging_{Lang}.cab"
  "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-storagewmi_{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}\WinPE-Setup_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\WINPE-SETUP-CLIENT_{Lang}.CAB"
  "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"
```

```
"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"
              "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"
              "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab"
              "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-narrator_{Lang}.cab"
              "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-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"
   $NewFonts = Match_Required_Fonts -Lang $NewLang
   $SpecificPackage = Match_Other_Region_Specific_Requirements -Lang $NewLang
   $NewArchC = $NewArch.Replace("AMD64", "x64")
   Foreach ($item in $Expand) {
       $Language = @()
       Foreach ($itemList in $AdvLanguage) {
          if ($itemList.Path -eq $item) {
              Foreach ($PrintLang in $itemList.Rule) {
                  \ Language += "$($PrintLang)".Replace("{Lang}", $NewLang).Replace("{DiyLang}", $NewFonts).Replace("{Specific}", $NewFonts).Replac
$$pecificPackage).Replace("{ARCH}", $NewArch).Replace("{ARCHC}", $NewArchC)
              Extract_Process - NewSaveTo $itemList.Path - Package $Language - Name $item
For Each ($item in $Extract_language_Pack) { Extract_Language -Act $item.Act -NewLang $item.Tag -NewArch $item.Arch -Expand
$item.Scope }
```

C. 自定义部署映像

II 自定义部署映像: Install.wim

1. 查看 Install.wim 详细信息

映像名称、映像描述、映像大小、架构、版本、索引号等;

\$ViewFile = "D:\OS_10\Sources\Install.wim"

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

循环操作区域,开始,

2. 指定挂载 Install 路径

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

3. 开始挂载 Install.wim

默认索引号: 1

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

处理 Install.wim 映像内的文件,可选项,开始,

3.1. 自定义部署映像: WinRE.wim

注意:

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

3.1.1. 查看 WinRE.wim 详细信息

映像名称、映像描述、映像大小、架构、版本、索引号等;

 $\label{lem:continuous_loss} Get-WindowsImage-ImagePath $ViewFile \mid Foreach-Object \{ Get-WindowsImage-ImagePath $ViewFile \mid Foreach-Object \{ Get-WindowsImage-ImagePath $ViewFile \mid Foreach-Object \{ Get-WindowsImage-ImagePath $ViewFile \mid Foreach-Object \} $$$

3.1.2. 指定挂载 WinRE.wim 路径

3.1.3. 开始挂载 WinRE.wim

默认索引号: 1

 $"D: \OS_10_Custom \Install \Mount \Windows \System 32 \Recovery \WinRE. wim" - Index "1" - Path \Additional Path \Addition$

"D:\OS_10_Custom\Install\WinRE\Mount"

3.1.4. 语言包

- 自动安装语言包:获取"组件:映像中已安装的所有包"后进行匹配,匹配到对应的名称后,再安装本地对应的语言包文件,查看报告"语言安装包适用于WinRE.wim"。
- 添加语言时,须对应不同的架构版本,未对应时,添加过程中报错等提示。

3.1.4.1. 语言包:添加

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

```
$Mount = "D:\OS_10_Custom\Install\WinRE\Mount"
$Sources = "D:\OS_10_Custom\Install\WinRE\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"
$Language = @(
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
```

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

3.1.4.2. 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:\OS_10_Custom\Install\WinRE\Mount" /Set-AllIntl:zh-CN

3.1.4.2.2. 查看可用的语言设置

Dism /Image:"D:\OS_10_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。
- 添加中文后,反向删除"英语-美国",区域: en-US,需提前提取语言包
- WinRE.Del.Specified.lang.Tag.ps1
 - $o \verb| \ensuremath{ \begin{tabular}{l} \ensuremath{ \begin{tab$
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Ex
 pand/Install/WinRE/WinRE.Del.Specified.lang.Tag.ps1

```
$Lang = "en-US"
$Mount = "D:\OS_10_Custom\Install\WinRE\Mount"
$Sources = "D:\OS_10_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
     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-WindowsPackage -Path "D:\OS_10_Custom\Install\WinRE\Mount" | Out-GridView

3.1.4.4.2. 导出到 Csv

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

 $\label{lem:condition} Get-WindowsPackage - Path "D: \OS_10_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:\OS_10_Custom\Install\WinRE\Update\KB_WinRE.cab"

 ${\tt Add-WindowsPackage-Path~"D:\OS_10_Custom\Install\WinRE\Mount"-PackagePath~\$KBPath}$

3.1.5.2. 删除



Remove-WindowsPackage -Path "D:\OS_10_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。

 $\label{lem:limit} \begin{tabular}{ll} $$ Dism/image:"D:\OS_10_Custom\Install\WinRE\Mount"/cleanup-image/StartComponentCleanup/ResetBase \end{tabular} $$ ResetBase $$ $$ All $$$

3.1.5.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS_10_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

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。

 $\label{lem:linear_loss} Dismount-WindowsImage - Path "D: \OS_10_Custom \Install \WinRE \Mount" - Discard$

3.1.9. 重建 WinRE.wim 后,可缩小文件大小

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

• 复制代码

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

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



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

Write-Host * .ImageName -ForegroundColor Yellow

Write-Host * The index number: "-NoNewline

Write-Host * .ImageIndex -ForegroundColor Yellow

Write-Host * .ImageIndex -ForegroundColor Yellow

Write-Host * .ImageIndex -ForegroundColor Yellow

Export-WindowsImage -SourceImagePath * .ImageIndex -DestinationImagePath

* ($FileName).New" -CompressionType max

Write-Host * .ImageIndex -DestinationImagePath

* ($FileName).New" -ForegroundColor Green

}

if (Test-Path * .ImageIndex -ForegroundColor Green

Move-Item -Path * .ImageIndex -PoregroundColor Green

} else {

Write-host * .ImageIndex -ForegroundColor Red

}
```

3.1.10. 备份 WinRE.wim

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

• 复制代码

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

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

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

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

3.1.11. 替换 Install.wim 映像内的 WinRE.wim

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

处理 Install.wim 映像内的文件,结束。



4. 语言包

- 自动安装语言包:获取"组件:映像中已安装的所有包"后进行匹配,匹配到对应的名称后,再安装本地对应的语言包文件,查看报告"语言安装包适用于Install.wim"。
- 添加语言时,须对应不同的架构版本,未对应时,添加过程中报错等提示。

4.1. 语言包:添加

- Install.Instl.lang.ps1
 - o \Expand\Install.Instl.lang.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install.Instl.la
 ng.ps1

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

```
return
}else{
 Write-Host "Path does not exist: $($Sources)\$($Lang)"
  return
}
$Script:Init_Folder_All_File_Match_Done = @()
$Script:Init_Folder_All_File_Exclude = @()
$Script:Search_File_Order = @(
  @{
   Name = "Fonts"
    Description = "Fonts"
    Rule = @(
     @{ Match_Name = "*Fonts*"; IsMatch = "No"; Capability = ""; }
  @{
   Name = "Basic"
    Description = "Basic"
    Rule = @(
     @{Match_Name = "*LanguageFeatures-Basic*"; IsMatch = "Yes"; Capability = "Language.Basic~~~$($Lang)~0.0.1.0"; }
     @{Match\_Name = "*Client*Language*Pack*"; IsMatch = "Yes"; Capability = "Language.Basic~~~$($Lang)~0.0.1.0"; }
  @{
   Name = "OCR"
    Description = "Optical character recognition"
    Rule = @(
     @{Match_Name = "*LanguageFeatures-OCR*"; IsMatch = "Yes"; Capability = "Language.OCR~~~$($Lang)~0.0.1.0"; }}
   )
  @{
   Name = "Handwriting"
    Description = "Handwriting recognition"
```

```
Rule = @(
      @{ Match_Name = "*LanguageFeatures-Handwriting*"; IsMatch = "Yes"; Capability =
"Language.Handwriting~~~$($Lang)~0.0.1.0";}
   @{
     Name = "TextToSpeech"
     Description = "Text-to-speech"
     Rule = @(
       @{ Match_Name = "*LanguageFeatures-TextToSpeech*"; IsMatch = "Yes"; Capability =
"Language.TextToSpeech~~~$($Lang)~0.0.1.0";}
   @{
     Name = "Speech"
     Description = "Speech recognition"
     Rule = @(
      @{ Match_Name = "*LanguageFeatures-Speech*"; IsMatch = "Yes"; Capability =
"Language.Speech~~~$($Lang)~0.0.1.0"; }
   @{
     Name = "RegionSpecific"
     Description = "Other region-specific requirements"
     Rule = @(
      @{ Match_Name = "*InternationalFeatures*"; IsMatch = "No"; Capability = ""; }
   @{
     Name = "Retail"
     Description = "Retail demo experience"
     Rule = @(
      @{ Match_Name = "*RetailDemo*"; IsMatch = "Yes"; Capability = ""; }
   @{
```

```
Name = "Features_On_Demand"
     Description = "Features on demand"
     Rule = @(
       @{ Match_Name = "*InternetExplorer*"; IsMatch = "Yes"; Capability = ""; }
       @{ Match_Name = "*MSPaint*amd64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.MSPaint~~~0.0.1.0"; }
       @{ Match_Name = "*MSPaint*wow64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.MSPaint~~~~0.0.1.0"; }
       @{ Match_Name = "*Notepad*amd64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.Notepad~~~~0.0.1.0"; }
       @{ Match_Name = "*Notepad*wow64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.Notepad~~~~0.0.1.0"; }
       @{ Match_Name = "*MediaPlayer*amd64*"; IsMatch = "Yes"; Capability =
"Media.WindowsMediaPlayer~~~0.0.12.0"; }
       @{ Match_Name = "*MediaPlayer*wow64*"; IsMatch = "Yes"; Capability =
"Media.WindowsMediaPlayer~~~0.0.12.0"; }
       @{ Match_Name = "*PowerShell-ISE-FOD-Package*amd64*"; IsMatch = "Yes"; Capability =
"Microsoft.Windows.PowerShell.ISE~~~0.0.1.0"; }
       @{ Match_Name = "*PowerShell-ISE-FOD-Package*wow64*"; IsMatch = "Yes"; Capability =
"Microsoft.Windows.PowerShell.ISE~~~0.0.1.0"; }
       @{ Match_Name = "*Printing*PMCPPC*amd64*"; IsMatch = "Yes"; Capability =
"Print.Management.Console~~~0.0.1.0"; }
       @{ Match_Name = "*Printing*WFS*amd64*"; IsMatch = "Yes"; Capability = "Print.Management.Console~~~~0.0.1.0"; }
       @{ Match_Name = "*StepsRecorder*amd64*"; IsMatch = "Yes"; Capability = "App.StepsRecorder~~~0.0.1.0"; }
       @{ Match_Name = "*StepsRecorder*wow64*"; IsMatch = "Yes"; Capability = "App.StepsRecorder~~~0.0.1.0"; }
       @{ Match_Name = "*WordPad*amd64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.WordPad~~~0.0.1.0"; }
       @{ Match_Name = "*WordPad*wow64*"; IsMatch = "Yes"; Capability = "Microsoft.Windows.WordPad~~~~0.0.1.0"; }
       @{ Match_Name = "*WMIC*FoD*Package*amd64*"; IsMatch = "Yes"; Capability = "WMIC~~~"; }
       @{ Match_Name = "*WMIC*FoD*Package*wow64*"; IsMatch = "Yes"; Capability = "WMIC~~~"; }
 ForEach ($item in $Script:Search_File_Order) { New-Variable -Name "Init_File_Type_$($item.Name)" -Value @() -Force }
 ForEach ($WildCard in $Script:Init_Folder_All_File) {
   ForEach ($item in $Script:Search_File_Order) {
     ForEach ($NewRule in $item.Rule) {
      if ($WildCard -like "*$($NewRule.Match_Name)*") {
        Write-host "`n Fuzzy matching: "-NoNewline; Write-host $NewRule.Match_Name -ForegroundColor Green
        Write-host " Language pack file: " -NoNewline; Write-host $WildCard -ForegroundColor Green
        $OSDefaultUser = (Get-Variable -Name "Init_File_Type_$($item.Name)" -ErrorAction SilentlyContinue).Value
```

```
$TempSave = @{ Match_Name = $NewRule.Match_Name; Capability = $NewRule.Capability; FileName =
$WildCard }
                     $new = $OSDefaultUser + $TempSave
                     if ($NewRule.IsMatch -eq "Yes") {
                          ForEach ($Component in $Initl_install_Language_Component) {
                               if ($Component -like "*$($NewRule.Match_Name)*") {
                                   Write-host " Component name: " -NoNewline; Write-host $Component -ForegroundColor Green
                                   New-Variable -Name "Init_File_Type_$($item.Name)" -Value $new -Force
                                   $Script:Init_Folder_All_File_Match_Done += $WildCard
                                   break
                     } else {
                          Write-host " Do not match, install directly" -ForegroundColor Yellow
                          New-Variable -Name "Init_File_Type_$($item.Name)" -Value $new -Force
                          $Script:Init_Folder_All_File_Match_Done += $WildCard
    Write-host "`n Grouping is complete, pending installation" -ForegroundColor Yellow
    Write-host " $('-' * 80)"
    ForEach ($WildCard in $Script:Search_File_Order) {
         OSDefaultUser = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable - Name "Init_File_Type_$($WildCard.Name)" - ErrorAction SilentlyContinue).
        Write-host "`n $($WildCard.Description) ($($OSDefaultUser.Count) item)"
         if ($OSDefaultUser.Count -gt 0) {
             ForEach ($item in $OSDefaultUser) {
                 Write-host " $($item.FileName)" -ForegroundColor Green
            }
       } else {
            Write-host " Not available "-Foreground Color Red
       }
    Write-host "`n Not matched, no longer installed" -ForegroundColor Yellow
```

```
Write-host " $('-' * 80)"
     ForEach ($item in $Script:Init_Folder_All_File) {
          if ($Script:Init_Folder_All_File_Match_Done -notcontains $item) {
               $Script:Init_Folder_All_File_Exclude += $item
              Write-host " $($item)" -ForegroundColor Red
     Write-host "`n Install" -ForegroundColor Yellow
     Write-host " $('-' * 80)"
     ForEach ($WildCard in $Script:Search_File_Order) {
          \verb§OSDefaultUser = (Get-Variable -Name "Init\_File\_Type\_\$ (\$WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$ WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$ WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$ WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$ WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$ WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$ WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$ WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$ WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$ WildCard.Name)" - ErrorAction SilentlyContinue). Value = (Get-Variable -Name "Init\_File\_Type\_\$ (\$ WildCard.Name "Init\_File\_Type\_\$ (\$ WildCard.Name "Init\_File\_Type\_\$ (\$ WildCard.Name "Init\_File\_Type\_\$ (\$ WildCard.Name "Init\_File\_Typ
          Write-host "`n $($WildCard.Description) ($($OSDefaultUser.Count) item)"; Write-host "$('-' * 80)"
          if ($OSDefaultUser.Count -gt 0) {
               ForEach ($item in $OSDefaultUser) {
                   Write-host " Language pack file: " -NoNewline; Write-host $item.FileName -ForegroundColor Green
                   Write-Host " Installing ".PadRight(22) -NoNewline
                   if (Test-Path $item.FileName -PathType Leaf) {
                        try {
                             Add-WindowsPackage -Path $Mount -PackagePath $item.FileName | Out-Null
                             Write-host "Finish`n" -ForegroundColor Green
                        } catch {
                             Write-host "Failed" -ForegroundColor Red
                             Write-host " $($_)" -ForegroundColor Red
                   } else {
                        Write-host "Does not exist`n"
         } else {
              Write-host " Not available `n" -ForegroundColor Red
         }
}
Language\_Install - Mount "D: \OS\_10\_Custom \Install \Mount" - Sources
```

 $"D:\OS_10_Custom\Install\Install\Language\Add" - Lang "zh-CN"$

4.2. 脱机映像语言: 更改

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

4.2.1. 更改默认语言、区域设置和其他国际设置

区域: zh-CN

Dism /Image: "D:\OS_10_Custom\Install\Mount" /Set-AllIntl: "zh-CN"

4.2.2. 查看可用的语言设置

Dism /Image: "D:\OS_10_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
- Install.Del.Specified.lang.Tag.ps1
 - o \Expand\Install\Install.Del.Specified.lang.Tag.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/Install. Del.Specified.lang.Tag.ps1

```
$Lang = "en-US"

$Mount = "D:\OS_10_Custom\Install\Install\Mount"

$Sources = "D:\OS_10_Custom\Install\Install\Language\Del\en-US"

$Initl_install_Language_Component = @()

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

$Initl_install_Language_Component += $_.PackageName
}

$Language = @(

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

```
@{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-$($Lang).cab"; }
 @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-$($Lang).cab"; }
 @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-$($Lang)-}
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Client-LanguagePack-Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_$($Lang).cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 ForEach ($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
   }
```

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

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

Write-host \$SaveTo -ForegroundColor Green

5. InBox Apps

5.1. InBox Apps: 预安装应用程序

编组缩写

- 群组 A: Windows 10 Education, Windows 10 Enterprise, Windows 10 Pro, Windows 10 Pro Education, Windows 10 Pro for Workstations, Windows 10 Home, Windows 10 Home Single Language, Windows 10 IoT Enterprise
- 群组 B: Windows 10 Education N, Windows 10 Enterprise N, Windows 10 Pro N, Windows 10 Pro Education N, Windows 10 Pro N for Workstations, Windows 10 Home N

	名称	产品 ID	编组
1.	Microsoft.HEIFImageExtension	9PMMSR1CGPWG	Α
2.	Microsoft.MixedReality.Portal	9NG1H8B3ZC7M	Α
3.	Microsoft.SkypeApp	9WZDNCRFJ364	Α
4.	Microsoft.VP9VideoExtensions	9N4D0MSMP0PT	Α
5.	Microsoft.WebMediaExtensions	9N5TDP8VCMHS	Α
6.	Microsoft.WebpImageExtension	9PG2DK419DRG	Α
7.	Microsoft.WindowsSoundRecorder	9WZDNCRFHWKN	Α
8.	Microsoft.Xbox.TCUI	9NKNC0LD5NN6	Α
9.	Microsoft.XboxGamingOverlay	9NZKPSTSNW4P	Α
10.	Microsoft.ZuneMusic	9WZDNCRFJ3PT	Α
11.	Microsoft.ZuneVideo	9WZDNCRFJ3P2	Α
12.	Microsoft.UI.Xaml.2.0		A, B
13.	Microsoft.UI.Xaml.2.1		A, B
14.	Microsoft.UI.Xaml.2.3		A, B
15.	Microsoft.Advertising.Xaml		A, B
16.	Microsoft.NET.Native.Framework.1.7		A, B
17.	Microsoft.NET.Native.Framework.2.2		A, B

18.	Microsoft.NET.Native.Runtime.1.7		A, B
19.	Microsoft.NET.Native.Runtime.2.2		A, B
20.	Microsoft.VCLibs.140.00		A, B
21.	Microsoft.VCLibs.140.00.UWPDesktop		A, B
22.	Services.Store.Engagement		A, B
23.	Microsoft.Cortana	9NFFX4SZZ23L	A, B
24.	Microsoft.BingWeather	9WZDNCRFJ3Q2	A, B
25.	Microsoft.DesktopAppInstaller	9NBLGGH4NNS1	A, B
26.	Microsoft.GetHelp	9PKDZBMV1H3T	A, B
27.	Microsoft.Getstarted	9WZDNCRDTBJJ	A, B
28.	Microsoft.Microsoft3DViewer	9NBLGGH42THS	A, B
29.	Microsoft.MicrosoftOfficeHub	9WZDNCRD29V9	A, B
30.	Microsoft.MicrosoftSolitaireCollection	9WZDNCRFHWD2	A, B
31.	Microsoft.MicrosoftStickyNotes	9NBLGGH4QGHW	A, B
32.	Microsoft.MSPaint	9NBLGGH4QGHW	A, B
33.	Microsoft.Office.OneNote	XPFFZHVGQWWLHB	A, B
34.	Microsoft.People	9NBLGGH10PG8	A, B
35.	Microsoft.ScreenSketch	9MZ95KL8MR0L	A, B
36.	Microsoft.Wallet	9NBLGGH52CKV	A, B
37.	Microsoft.StorePurchaseApp	9NBLGGH4LS1F	A, B
38.	Microsoft.Windows.Photos	9WZDNCRFJBH4	A, B
39.	Microsoft.WindowsAlarms	9WZDNCRFJ3PR	A, B
40.	Microsoft.WindowsCalculator	9WZDNCRFHVN5	A, B
41.	Microsoft.WindowsCamera	9WZDNCRFJBBG	A, B
42.	Microsoft.Windows.CommunicationsApps	9WZDNCRFHVQM	A, B
43.	Microsoft.WindowsFeedbackHub	9NBLGGH4R32N	A, B
44.	Microsoft.WindowsMaps	9WZDNCRDTBVB	A, B
45.	Microsoft.WindowsStore	9WZDNCRFJBMP	A, B
46.	Microsoft.XboxApp	9MV0B5HZVK9Z	A, B
47.	Microsoft.XboxGameOverlay	9NBLGGH537C2	A, B
48.	Microsoft.XboxIdentityProvider	9WZDNCRD1HKW	A, B
49.	Microsoft.XboxSpeechToTextOverlay	9P086NHDNB9W	A, B
50.	Microsoft.YourPhone	9NMPJ99VJBWV	A, B

5.2. InBox Apps:已安装

5.2.1. 查看

 $Get-AppXProvisionedPackage - Path "D: \OS_10_Custom \Install \Mount" | Out-Grid View \Additional Custom \A$

5.2.2. 导出到 Csv

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

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

Write-host \$SaveTo -ForegroundColor Green

5.3. 删除已安装的所有预应用程序

- Install.InBox.Appx.Clear.all.ps1
 - \Expand\Install\Install.InBox.Appx.Clear.all.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install.InBox.
 Appx.Clear.all.ps1

• 复制代码

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

{

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

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

try {

Remove-AppxProvisionedPackage -Path "D:\OS_10_Custom\Install\Install\Mount" -PackageName $_.PackageName -

ErrorAction SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}
```

5.4. 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-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:\OS_10_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,想获取:

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:\OS_10_Custom\Install\Install\InBox.Appx, 文件格式:

Language Experience Pack. zh-CN. Neutral. Appx

5.5.2.2. 手动下载

5.5.2.2.1. 区域

区域	产品ID	区域	产品ID
en-US	C9PDSCC711RVF	af-za	9PDW16B5HMXR
am-et	9NGL4R61W3PL	ar-sa	9N4S78P86PKX
as-in	9NTJLXMXX35J	az-latn-az	9P5TFKZHQ5K8
be-by	9MXPBGNNDW3L	bg-bg	9MX54588434F
bn-bd	9PH7TKVXGGM8	bn-in	9P1M44L7W84T
bs-latn-ba	9MVFKLJ10MFL	ca-es	9P6JMKJQZ9S7
ca-es-valencia	9P9K3WMFSW90	chr-cher-us	9MX15485N3RK
CS-CZ	9P3WXZ1KTM7C	cy-gb	9NKJ9TBML4HB
da-dk	9NDMT2VKSNL1	de-de	9P6CT0SLW589
el-gr	9N586B13PBLD	en-gb	9NT52VQ39BVN
es-es	9NWVGWLHPB1Z	es-mx	9N8MCM1X3928
et-ee	9NFBHFMCR30L	eu-es	9NMCHQHZ37HZ
fa-ir	9NGS7DD4QS21	fi-fi	9MW3PQ7SD3QK
fil-ph	9NWM2KGTDSSS	fr-ca	9MTP2VP0VL92

fr-fr	9NHMG4BJKMDG	ga-ie	9P0L5Q848KXT
gd-gb	9P1DBPF36BF3	gl-es	9NXRNBRNJN9B
gu-in	9P2HMSWDJDQ1	ha-latn-ng	9N1L95DBGRG3
he-il	9NB6ZFND5HCQ	hi-in	9NZC3GRX8LD3
hr-hr	9NW01VND4LTW	hu-hu	9MWN3C58HL87
hy-am	9NKM28TM6P67	id-id	9P4X3N4SDK8P
ig-ng	9PG4ZFJ48JSX	is-is	9NTHJR7TQXX1
it-it	9P8PQWNS6VJX	ja-jp	9N1W692FV4S1
ka-ge	9P60JZL05WGH	kk-kz	9PHV179R97LV
km-kh	9PGKTS4JS531	kn-in	9NC6DB7N95F9
kok-in	9MV3P55CMZ6P	ko-kr	9N4TXPCVRNGF
ku-arab-iq	9P1C18QL3D7H	ky-kg	9P7D3JJGZM48
lb-lu	9N0ST1WBZ9D9	lo-la	9N8X352G5NZV
lt-lt	9NWWD891H6HN	lv-lv	9N5CQDPH6SQT
mi-nz	9P2GDFB3JPSX	mk-mk	9P1X6XB1K3RN
ml-in	9NWDTV8FFV7L	mn-mn	9PG1DHC4VTZW
mr-in	9MWXCKHJVR1J	ms-my	9NPXL8ZSDDQ7
mt-mt	9PDG96SQ6BN8	nb-no	9N6J0M5DHCK0
ne-np	9P7CHPLWDQVN	nl-nl	9PF1C9NB5PRV
nn-no	9PK7KM3Z06KH	nso-za	9NS49QLX5CDV
or-in	9NTHCXCXSJDH	pa-arab-pk	9NJRL03WH6FM
pa-in	9NSNC0ZJX69B	pl-pl	9NC5HW94R0LD
prs-af	9P3NGC6X5ZQC	pt-br	9P8LBDM4FW35
pt-pt	9P7X8QJ7FL0X	quc-latn-gt	9P2V6MNNQZ0B
quz-pe	9NHTX8NVQ04K	ro-ro	9MWXGPJ5PJ3H
ru-ru	9NMJCX77QKPX	rw-rw	9NFW0M20H9WG
sd-arab-pk	9NB9JSCXW9X5	si-lk	9NVF9QSLGTL0
sk-sk	9N7LSNN099WB	sl-si	9NV27L34J4ST
sq-al	9MWLRGNMDGK7	sr-cyrl-ba	9MXGN7V65C7B
sr-cyrl-rs	9PPD6CCK9K5H	sr-latn-rs	9NBZ0SJDPPVT
sv-se	9P0HSNX08177	sw-ke	9NFF2M19DQ55
ta-in	9PDZB1WT1B34	te-in	9PMQJJGF63FW
tg-cyrl-tj	9MZHLBPPT2HC	th-th	9MSTWFRL0LR4
ti-et	9NC8C9RDNK2S	tk-tm	9NKHQ4GL6VLT

tn-za	9NFSXM123DHT	tr-tr	9NL1D3T5HG9R
tt-ru	9NV90Q1X1ZR2	ug-cn	9P52C5D7VL5S
uk-ua	9PPPMZRSGHR8	ur-pk	9NDWFTFW12BQ
uz-latn-uz	9P5P2T5P5L9S	vi-vn	9P0W68X0XZPT
wo-sn	9NH3SW1CR90F	xh-za	9NW3QWSLQD17
yo-ng	9NGM3VPPZS5V	zh-cn	9NRMNT6GMZ7
zh-tw	9PCJ4DHCQ1JQ	zu-za	9NNRM7KT5NB0

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

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

5.5.2.2.2. 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:\OS_10_Custom\Install\Install\InBox.Appx 目录里,

重命名: LanguageExperiencePack.zh-cn.Neutral.Appx

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:\OS_10_Custom\Install\Install\Mount" -PackagePath "D:\OS_10_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

 $\label{lem:condition} Get-AppXProvisionedPackage - Path "D: \OS_10_Custom \Install \Install \Mount" | Out-GridView$

5.5.2.4.2. 导到出 Csv

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

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

5.6. InBox Apps:安装

5.6.1. 挂载或解压 InBox Apps 安装文件

挂载 19041.3031.230508-1728.vb_release_svc_prod3_amd64fre_InboxApps.iso 或解压到任意位置;

5.6.2. 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"
- Install.Inst.InBox.Appx.ps1
 - o \Expand\Install\Inst.InBox.Appx.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/Install.Inst.InBox.Appx.ps1

• 复制代码

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

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

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

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

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

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

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

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

}
Install_Appx -File $AppPath -License $LicensePath
return

}
}else {
Install_Appx -File "$($ISO)\$($Rule.File)" -License "$($ISO)\$($Rule.License)"
}
else {
Write-host " Skip the installation" -ForegroundColor Red
}
```

5.7. 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。
- Install.Clear.Flag.ps1
 - o \Expand\Install\Install.Clear.Flag.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/Install.Clear. Flag.ps1

• 复制代码

```
$Lang = "zh-CN"

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

if ($_.DisplayName -Like "*LanguageExperiencePack*$($Lang)*") {

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

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

try {

Remove-AppxProvisionedPackage -Path "D:\OS_10_Custom\Install\Install\Mount" -PackageName $_.PackageName -

ErrorAction SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}
```

1

}

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。

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

6. 累积更新

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

6.1. 功能启用包

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

6.1.1. x64, 默认

• 直连下载

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

• 安装

\$KBPath = "D:\OS_10_Custom\Install\Install\Update\windows10.0-kb5015684-x64_523c039b86ca98f2d818c4e6706e2cc94b634c4a.msu"

 ${\tt Add-WindowsPackage-Path~"D:\NOS_10_Custom\Install\Install\Mount"-PackagePath~\$KBPath)} \\$

6.1.2. x86

• 直连下载

 $https://catalog.s.download.windowsupdate.com/c/upgr/2022/07/windows10.0-kb5015684-x86_556015f4260dd75ca30b3e84484ea5b3ec97fa08.msu$

安装



 $$KBPath = "D:\OS_10_Custom\Install\Update\windows10.0-kb5015684-x86_556015f4260dd75ca30b3e84484ea5b3ec97fa08.msu"$

Add-WindowsPackage -Path "D:\OS_10_Custom\Install\Install\Mount" -PackagePath \$KBPath

6.1.3. Arm64

• 直连下载

https://catalog.s.download.windowsupdate.com/c/upgr/2022/07/windows10.0-kb5015684-arm64_a4cc6e95084da14adb972e1d67cf573a244ed7a3.msu

• 安装

 $$KBPath = "D:\OS_10_Custom\Install\Update\windows10.0-kb5015684-arm64_a4cc6e95084da14adb972e1d67cf573a244ed7a3.msu"$

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

6.2. 初始版本

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

6.2.1. x64,默认

• 直连下载

https://catalog.s.download.windowsupdate.com/c/msdownload/update/software/secu/2022/09/windows1 0.0-kb5017308-x64_2027053968a06948b45d139d95475ab4feee5654.msu

安装

\$KBPath = "D:\OS_10_Custom\Install\Install\Update\windows10.0-kb5017308-x64_2027053968a06948b45d139d95475ab4feee5654.msu"

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

6.2.2. x86

• 直连下载

https://catalog.s.download.windowsupdate.com/d/msdownload/update/software/secu/2022/09/windows10.0-kb5017308-x86_ec788348202c33b871c8af028d045debd273576c.msu

• 安装

 $$KBPath = "D:\OS_10_Custom\Install\Update\windows10.0-kb5017308-x86_ec788348202c33b871c8af028d045debd273576c.msu"$

Add-WindowsPackage -Path "D:\OS_10_Custom\Install\Install\Mount" -PackagePath \$KBPath



6.2.3. Arm64

• 直连下载

https://catalog.s.download.windowsupdate.com/d/msdownload/update/software/secu/2022/09/windows10.0-kb5017308-arm64_1ca51a0b3abdab7ee891bd1e1e6d3f03bc15e324.msu

• 安装

 $$KBPath = "D:\OS_10_Custom\Install\Update\windows10.0-kb5017308-arm64_1ca51a0b3abdab7ee891bd1e1e6d3f03bc15e324.msu"$

Add-WindowsPackage -Path "D:\OS_10_Custom\Install\Install\Mount" -PackagePath \$KBPath

6.3. 其它版本

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

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

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

6.3.1. x64, 默认

• 直连下载

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

• 添加

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

 ${\tt Add-WindowsPackage-Path~"D:\OS_10_Custom\Install\Install\Mount"-PackagePath~\$KBPath)}$

6.3.2. x86

• 直连下载

https://catalog.s.download.windowsupdate.com/d/msdownload/update/software/updt/2023/11/windows10. 0-kb5032278-x86_21e1e1c12d0f763d7c6e3ac6c3d7f8c6461e0004.msu

添加

\$KBPath = "D:\OS_10_Custom\Install\Install\Update\windows10.0-kb5032278-x86_21e1e1c12d0f763d7c6e3ac6c3d7f8c6461e0004.msu"

 $Add-Windows Package-Path~"D: \OS_10_Custom \Install \Mount"-Package-Path~SKBPath~"D: \OS_10_Custom \Add-Windows \Add-Win$

6.3.3. Arm64



• 直连下载

https://catalog.s.download.windowsupdate.com/c/msdownload/update/software/updt/2023/11/windows10. 0-kb5032278-arm64_54422d085c9d2c64ca0ff6e88ace3ec9f8860b6a.msu

• 添加

```
$KBPath = "D:\OS_10_Custom\Install\Update\windows10.0-kb5032278-arm64\_54422d085c9d2c64ca0ff6e88ace3ec9f8860b6a.msu"
```

Add-WindowsPackage -Path "D:\OS_10_Custom\Install\Install\Mount" -PackagePath \$KBPath

6.4. 固化更新,可选项

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

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

6.4.1. 固化更新后清理组件,可选项

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

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

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

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

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

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

保存前应检查是否损坏,健康状态异常时,中止保存

 $Repair-WindowsImage - Path "D: \OS_10_Custom \Install \Install \Mount" - Scan Health \Mount \Mount$

10. 替换 WinRE.wim

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



```
\label{lem:winRE} $$ WinRE = "D:\OS_10_Custom\Install\Install\Update\Winlib\WinRE.wim" $$
```

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

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

11. 保存映像

Save-WindowsImage -Path "D:\OS_10_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。

 $Dismount-Windows Image - Path "D: \OS_10_Custom \Install \Install \Mount" - Discard$

循环操作区域,结束。

13. 重建 Install.wim 后可缩小文件大小

- Install.Rebuild.wim.ps1
 - o \Expand\Install\Install.Rebuild.wim.ps1

Write-Host "Finish" -ForegroundColor Green

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

• 复制代码

```
$InstallWim = "D:\OS_10\sources\install.wim"

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

Write-Host " Image name: "-NoNewline

Write-Host $_ImageName -ForegroundColor Yellow

Write-Host $_ImageIndex -ForegroundColor Yellow

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
```

```
} else {
    Write-host "Failed" -ForegroundColor Red
```

- 14. 如何批量替换 Install.wim 里的所有索引号里的 WinRE.wim
 - 14.1. 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

- 14.2. 如何在 Install.wim 里提取和更新 WinRE.wim
 - 14.2.1. 从 Install.wim 里提取 WinRE.wim 文件 Install.wim
 - Install.WinRE.Replace.wim.ps1
 - o \Expand\Install\Install.WinRE.Replace.wim.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/Install.WinRE.Replace.wim.ps1

• 复制代码

```
$Arguments = @(

"extract",

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

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

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

)

New-Item -Path "D:\OS_10_Custom\Install\Install\Update\Winlib" -ItemType Directory -ea SilentlyContinue
```

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

- 14.2.2. 获取 Install.wim 所有索引号后并替换旧的 WinRE.wim
 - Install.WinRE.Replace.wim.ps1
 - o \Expand\Install\Install.WinRE.Replace.wim.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Install/Install.WinRE.Replace.wim.ps1

• 复制代码

 $\label{lem:continue} Get-WindowsImage-ImagePath~"D:\OS_10\sources\sinstall.wim"-ErrorAction~SilentlyContinue~|~ForEach-Object~\{$

Write-Host " Image name: " -NoNewline; Write-Host \$_.ImageName -ForegroundColor Yellow



```
Write-Host " The index number: " -NoNewline; Write-Host $_.ImageIndex -ForegroundColor Yellow

Write-Host "`n Replacement "

$Arguments = @(

"update",

"D:\OS_10\sources\install.wim", $_.ImageIndex,

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

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

)

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

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

III 自定义部署映像: boot.wim

1. 查看 Boot.wim 文件信息

映像名称、映像描述、映像大小、架构、版本、索引号等;

\$ViewFile = "D:\OS_10\Sources\Boot.wim"

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

2. 指定挂载 Boot.wim 路径

3. 开始挂载 Boot.wim

默认索引号: 2

 $Mount-Windows Image - Image Path "D: \OS_10 \setminus Sources \setminus Sources$

4. 语言包

- 自动安装语言包: 获取"组件: 映像中已安装的所有包"后进行匹配, 匹配到对应的名称后, 再安装本地对应的语言包文件, 查看报告 "语言安装包适用于 Boot.wim"。
- 添加语言时,须对应不同的架构版本,未对应时,添加过程中报错等提示。
- 4.1. 语言包:添加
 - Boot.Instl.lang.ps1
 - o \Expand\Boot\Boot.Instl.lang.ps1



• 复制代码

```
$Mount = "D:\OS_10_Custom\Boot\Boot\Mount"
$Sources = "D:\OS_10_Custom\Boot\Boot\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"
$Language = @(
 @{ Match = "*WinPE*Setup*Client*Package*"; File = "WINPE-SETUP-CLIENT_zh-CN.CAB"; }
 @{ Match = "*WinPE*Setup*Package*"; File = "WinPE-Setup_zh-CN.cab"; }
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*") {
     Write-host " Component name: " -NoNewline; Write-host $Component -ForegroundColor Green
     Write-host Language pack file: "-NoNewline; Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Installing ".PadRight(22) -NoNewline
```

```
try {

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

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

Write-host " $($_)" -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:\OS_10_Custom\Boot\Boot\Mount" /Set-AllIntl:zh-CN

4.2.2. 查看可用的语言设置

Dism /Image:"D:\OS_10_Custom\Boot\Boot\Mount" /Get-Intl

4.3. 语言包: 删除, 可选

- 添加语言后,如果要部署到非英语区域,可通过删除英语语言组件来节省空间。删除语言时,请按与添加语言组件相反的顺序卸载语言组件。
- 添加中文后,反向删除"英语 美国",区域: en-US,需提前提取语言包
- Boot.Del.Specified.lang.Tag.ps1
 - o \Expand\Boot\Boot.Del.Specified.lang.Tag.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/Boot/Boot/Boot.Del.S pecified.lang.Tag.ps1

• 复制代码

```
$Lang = "en-US"

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

$Sources = "D:\OS_10_Custom\Boot\Boot\Language\Del\en-US"

$Initl_install_Language_Component = @()
```

```
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
$Language = @(
 @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab";}
 @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*wow64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*WMIC*FoD*Package*amd64*"; File = "Microsoft-Windows-WMIC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab";}
 @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*wow64*": File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab"; }
 @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~$($Lang)~.cab"; }
 @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-$($Lang).cab"; }
 @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-$($Lang).cab"; }
 @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~wow64~$($Lang)~.cab";}
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~$($Lang)~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-$($Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Client-LanguagePack_Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_$($Lang).cab"; }
```

```
ForEach ($Rule in $Language) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 For Each ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*$($Lang)*") {
     Write-host " Component name: " -NoNewline; Write-host $Component -ForegroundColor Green
     Write-host Language pack file: NoNewline; Write-host $($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Deleting ".PadRight(22) -NoNewline
     try {
       Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" -ErrorAction SilentlyContinue | Out-
Null
       Write-host "Finish" -ForegroundColor Green
     } catch {
       Write-host "Failed" -ForegroundColor Red
       Write-host " $($_)" -ForegroundColor Red
     break
$InitlClearLanguagePackage = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 if ($_.PackageName -like "*$($Lang)*") {
   $InitlClearLanguagePackage += $_.PackageName
if ($InitlClearLanguagePackage.count -gt 0) {
 For Each ($item in $InitlClearLanguagePackage) {
   Write-Host "`n $($item)" -ForegroundColor Green
   Write-Host " Deleting ".PadRight(22) -NoNewline
   try {
     Remove-AppxProvisionedPackage -Path $Mount -PackageName $item -ErrorAction SilentlyContinue | Out-Null
     Write-host "Finish" -ForegroundColor Green
   } catch {
     Write-host "Failed" -ForegroundColor Red
```

```
Write-host " $($_)" -ForegroundColor Red
}
```

4.4. 组件:映像中已安装的所有包

4.4.1. 查看

Get-WindowsPackage -Path "D:\OS_10_Custom\Boot\Boot\Mount" | Out-GridView

4.4.2. 导出到 Csv

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

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

4.5. 语言包:同步到ISO安装程序

4.6. 重新生成 Lang.ini

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

4.6.1. 重新生成已挂载目录 lang.ini

重新生成的 Lang.ini 文件位置: D:\en-

Write-host \$SaveTo -ForegroundColor Green

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

4.6.2. 重新生成 lang.ini 后,同步到安装程序

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

 $\label{lem:limit} Dism / image: "D: \OS_10_Custom \Boot \B$

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:\OS_10_Custom\Boot\Boot\Update\KB_Boot.cab"
```

Add-WindowsPackage -Path "D:\OS_10_Custom\Boot\Boot\Mount" -PackagePath \$KBPath

5.2. 删除

```
$KBPath = "D:\OS_10_Custom\Boot\Boot\Update\KB_Boot.cab"
```

Remove-WindowsPackage -Path "D:\OS_10_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。

 $\label{lem:limit} Dism\/image: "D:\OS_10_Custom\Boot\Boot\Mount"\/cleanup-image\//StartComponentCleanup\//ResetBase$

5.3.1. 固化更新后清理组件,可选项

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

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

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

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

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

- 6. 驱动,可选
- 7. 保存映像

Save-WindowsImage -Path "D:\OS_10_Custom\Boot\Boot\Mount"

8. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS_10_Custom\Boot\Boot\Mount" -Discard

IV 部署引擎

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

- 将已下载的 main.zip 或 Multilingual-1.1.0.4.zip,解压到:D:\Multilingual-1.1.0.4,重命名:D:\Multilingual
- 学习"无人值守 Windows 安装参考",通过无人值守来干预安装过程。

1. 添加方式

1.1. 添加到 ISO 安装介质

1.1.1. 无人值守

1.1.1.1. 添加到: [ISO]:\Autounattend.xml

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

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

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

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

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

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

 $\label{lem:copy-lem:def} $$\operatorname{D:\Multilingual\Unattend\Mul.Unattend.xml"-Destination "D:\OS_10\Sources\Unattend.xml"-Destination "D:\OS_10\Sources\Unatte$

1.1.1.3. 添加到: [ISO]:\sources\\$OEM\$\\$\$\Panther\unattend.xml

安装过程中复制到系统盘里,复制到:{系统盘}:\Windows\Panther\unattend.xml

1.1.1.3.1. 创建 \$OEM\$ 路径

1.1.1.3.2. 复制

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

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

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_10\sources\`\$OEM\$\`\$\$\Panther\Unattend.xml" -Force

1.1.2. 部署引擎:添加

添加"自动添加 Windows 系统已安装的语言"到 D:\OS_10\sources\\$OEM\$\\$1\Yi\Engine 目录里。



1.1.2.1. 部署引擎: 复制

复制 D:\Multilingual\Engine 到 D:\OS_10\Sources\\$OEM\$\\$1\Yi\Engine

 $\label{lem:copy-lem$

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
 ErrorAction SilentlyContinue | Out-Null
 ErrorAction SilentlyContinue
```

1.2. 添加到已挂载

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

1.2.1. 无人值守

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

 $\label{lem:copy-lem$

1.2.2. 部署引擎

添加"自动添加 Windows 系统已安装的语言"到 D:\OS_10_Custom\Install\Install\Mount\Yi\Engine 目录里。

1.2.2.1. 部署引擎: 复制

复制 D:\Multilingual\Engine 到 D:\OS_10_Custom\Install\Install\Mount\Yi\Engine

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

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_Engine" # 删除整个解决方案

"Clear_Engine" # 删除部署引擎,保留其它

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

ForEach ($item in $Flag) {

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

New-Item -Path "D:\OS_10_Custom\Install\Install\Mount\Yi\Engine\Deploy\Allow" -ItemType Directory -

ErrorAction SilentlyContinue | Out-Null

Out-File -FilePath "D:\OS_10_Custom\Install\Install\Mount\Yi\Engine\Deploy\Allow\$($item)" -Encoding utf8 -ErrorAction SilentlyContinue
```

2. 部署引擎:进阶

2.1. 部署引擎:添加过程中

在复制部署引擎后,可添加部署标记来干预安装过程。

2.2. 无人值守方案

自定义无人值守时,以下文件存在时请同步修改:

- D:\OS_10\Autounattend.xml
- D:\OS_10\Sources\Unattend.xml
- D:\OS_10\sources\\$OEM\$\\$\$\Panther\unattend.xml
- D:\OS_10_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

</Password>

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
     <Group>Administrators</Group>
    <Name>Administrator</Name>
   </LocalAccount>
 </LocalAccounts>
</UserAccounts>
<AutoLogon>
 <Password>
   <Value></Value>
   <PlainText>true</PlainText>
```

<Enabled>true</Enabled>

<use><Username>Administrator</username></username>

</AutoLogon>

2.2.2.2. 自定义用户

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

2.2.2.2.1. 删除

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

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

2.2.2.2.2. 替换

从开始处 <OOBE> 到 </OOBE>

<OOBE>

<ProtectYourPC>3</ProtectYourPC>

<HideEULAPage>true</HideEULAPage>

<HideWirelessSetupInOOBE>true</HideWirelessSetupInOOBE>

</OOBE>

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

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

1.1. x64

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

1.2. x86

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

1.3. arm64

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

- 2. 使用 oscdimg 命令行生成一个 ISO 文件,保存到: D:\Win11.iso
 - ISO.ps1
 - o \Expand\ISO.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.10/22H2/Expand/ISO.ps1

• 复制代码

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

$ISO = "D:\OS_10"

$Volume = "OS_10"

$SaveTo = "D:\OS_10.iso"

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

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

章节2 报告

编组缩写:

- 群组 A: Windows 10 Education, Windows 10 Enterprise, Windows 10 Pro Education, Windows 10 Pro for Workstations, Windows 10 IoT Enterprise
- 群组 B: Windows 10 Education N, Windows 10 Enterprise N, Windows 10 Pro, Windows 10 Pro N, Windows 10 Pro Education N, Windows 10 Pro N for Workstations
- 群组 C: Windows 10 Home, Windows 10 Home Single Language
- 群组 D: Windows 10 家庭版 N

II 不同版本

1.	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.19041.2006	A, C
2.	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~~10.0.19041.1806	А, В
	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.19041.1	
3.	Microsoft-Windows-Printing-WFS-FoD-Package~31bf3856ad364e35~amd64~~10.0.19041.2006	A, B, C, D
	Microsoft-Windows-Printing-WFS-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.19041.906	
4.	Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.19041.1949	A, B, C, D
5.	Microsoft-OneCore-DirectX-Database-FOD-Package~31bf3856ad364e35~amd64~~10.0.19041.1	A, B, C, D
6.	Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.19041.2006	A, B, C, D
7.	Microsoft-Windows-FodMetadata-Package~31bf3856ad364e35~amd64~~10.0.19041.1	A, B, C, D
8.	Microsoft-Windows-Foundation-Package~31bf3856ad364e35~amd64~~10.0.19041.1	A, B, C, D

9.	Microsoft-Windows-Hello-Face-Migration-Package~31bf3856ad364e35~amd64~~10.0.19041.1889	A, B, C, D
10.	Microsoft-Windows-Hello-Face-Package~31bf3856ad364e35~amd64~~10.0.19041.1889	A, B, C, D
11.	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.19041.1566	A, B, C, D
12.	Microsoft-Windows-LanguageFeatures-Basic-en-us-Package~31bf3856ad364e35~amd64~~10.0.19041.1	A, B, C, D
13.	Microsoft-Windows-LanguageFeatures-Handwriting-en-us-Package~31bf3856ad364e35~amd64~~10.0.19041.1	A, B, C, D
14.	Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.19041.1	A, B, C, D
15.	Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.19041.1	A, B, C, D
16.	Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.19041.1	A, B, C, D
17.	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~~10.0.19041.746	A, B, C, D
	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.19041.1	A, B, C, D
18.	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~~10.0.19041.1	A, B, C, D
	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.19041.1	A, B, C, D
19.	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~~10.0.19041.1865	A, B, C, D
	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.19041.488	A, B, C, D
20.	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~~10.0.19041.1	A, B, C, D
	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.19041.1	A, B, C, D
21.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~~10.0.19041.1	A, B, C, D
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~en-US~10.0.19041.1	A, B, C, D
22.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~~10.0.19041.1	A, B, C, D
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~en-US~10.0.19041.1	A, B, C, D
23.	Microsoft-Windows-QuickAssist-Package~31bf3856ad364e35~amd64~~10.0.19041.1949	A, B, C, D
24.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~~10.0.19041.746	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~en-US~10.0.19041.1	A, B, C, D
25.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~~10.0.19041.1	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~en-US~10.0.19041.1	A, B, C, D
26.	Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.19041.1865	A, B, C, D
27.	Microsoft-Windows-UserExperience-Desktop-Package~31bf3856ad364e35~amd64~~10.0.19041.1741	A, B, C, D
28.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~~10.0.19041.1682	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.19041.1	A, B, C, D
29.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~~10.0.19041.1	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.19041.1	A, B, C, D
30.	OpenSSH-Client-Package~31bf3856ad364e35~amd64~~10.0.19041.964	A, B, C, D
31.	Package_for_DotNetRollup~31bf3856ad364e35~amd64~~10.0.4556.3	A, B, C, D
32.	Package_for_KB5015684~31bf3856ad364e35~amd64~~19041.1799.1.2	A, B, C, D

33.	Package_for_RollupFix~31bf3856ad364e35~amd64~~19041.2006.1.7	A, B, C, D
34.	Package_for_ServicingStack_1704~31bf3856ad364e35~amd64~~19041.1704.1.4	A, B, C, D
35.	Package_for_ServicingStack_1940~31bf3856ad364e35~amd64~~19041.1940.1.0	A, B, C, D
语言	安装包适用于:Install.wim	
1.	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	А, В
	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1	
2.	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.19041.1	
3.	Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab	A, B, C, D
	Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1	
4.	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~zh-CN~11.0.19041.1	
5.	Microsoft-Windows-LanguageFeatures-Basic-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Basic-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.19041.1	
6.	Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.19041.1	
7.	Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.19041.1	
8.	Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.19041.1	
9.	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.19041.1	
10.	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1	
11.	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.19041.1	
12.	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1	
13.	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.19041.1	
14.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1	
15.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D

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16.	Microsoft-Windows-Printing-WFS-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	

A, B, C, D

Microsoft-Windows-Printing-WFS-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

17. Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~zh-CN~.cab

A, B, C, D

 $Microsoft-Windows-Steps Recorder-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11$

18. Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab

A, B, C, D

Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~10.0.19041.1

19. Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab

A, B, C, D

Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

20. Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab

A, B, C, D

Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.19041.1

IV 语言安装包适用于: WinRE.wim

1. WinPE-FontSupport-zh-CN.cab

Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.19041.1

2. lp.cab

Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

3. winpe-appxpackaging_zh-CN.cab

Microsoft-Windows-WinPE-AppxPackaging-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

4. winpe-atbroker_zh-CN.cab

WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

5. winpe-audiocore_zh-CN.cab

WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

6. winpe-audiodrivers_zh-CN.cab

WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

7. winpe-enhancedstorage_zh-CN.cab

 $Win PE-Enhanced Storage-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.11 + 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim amd 64 \sim$

8. winpe-hta_zh-CN.cab

 $Win PE-HTA-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.1$

9. winpe-narrator_zh-CN.cab

WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

10. winpe-opcservices_zh-CN.cab

WinPE-OpcServices-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

11. winpe-rejuv_zh-CN.cab

12. winpe-scripting_zh-CN.cab

WinPE-Scripting-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

13. winpe-securestartup_zh-CN.cab

 $Win PE-Secure Startup-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.1$

14. winpe-speech-tts_zh-CN.cab

WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

15. winpe-srh_zh-CN.cab

WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

16. winpe-srt_zh-CN.cab

WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

17. winpe-storagewmi_zh-CN.cab

WinPE-StorageWMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

18. winpe-wds-tools_zh-CN.cab

WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

19. winpe-wifi_zh-CN.cab

WinPE-WiFi-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

20. winpe-wmi_zh-CN.cab

WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

V 语言安装包适用于: Boot.wim

1. WinPE-FontSupport-zh-CN.cab

Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.19041.1

2. lp.cab

Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

3. winpe-atbroker_zh-CN.cab

WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

4. winpe-audiocore_zh-CN.cab

 $Win PE-Audio Core-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.1$

5. winpe-audiodrivers_zh-CN.cab

WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

6. winpe-enhancedstorage_zh-CN.cab

WinPE-EnhancedStorage-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

7. winpe-narrator_zh-CN.cab

WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

8. winpe-scripting_zh-CN.cab

 $Win PE-Scripting-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.19041.1$

9. winpe-securestartup_zh-CN.cab

WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

10. WINPE-SETUP-CLIENT_zh-CN.CAB

WinPE-Setup-Client-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

11. WinPE-Setup_zh-CN.cab

WinPE-Setup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

12. winpe-speech-tts_zh-CN.cab

WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

13. winpe-srh_zh-CN.cab

WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

14. winpe-srt_zh-CN.cab

WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

15. winpe-wds-tools_zh-CN.cab

WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

16. winpe-wmi_zh-CN.cab

WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.19041.1

章节3 常见问题

II 清理所有挂载到

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

 $\label{lem:linear_loss} Dismount-WindowsImage - Path "D: \OS_10_Custom \Install \Install \Mount" - Discard$

 $\label{lem:linear_prop_linear} Dismount-WindowsImage - Path "D: \OS_10_Custom \Install \WinRE \Mount" - Discard$

Dismount-WindowsImage -Path "D:\OS_10_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

 $Remove-Item\ -Path\ "HKLM: \ SOFTWARE \ Microsoft \ WIMMount \ Mounted\ Images \ "-Force\ -Recurse\ -Error \ Action\ Silently \ Continue\ |\ Out-Null\ -Path\ |\ |\ Out$



3. 删除与已损坏的已装载映像关联的所有资源。

Clear-WindowsCorruptMountPoint

Dism /cleanup-wim

Ⅳ 清理目录

Remove-Item "D:\OS_10_Custom" -Force -Recurse

Remove-Item "D:\OS_10\Sources\`\$OEM\$" -Force -Recurse

Remove-Item -Path "D:\OS_10\Sources\Unattend.xml" -Force

章节4 已知问题

暂无

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

