

MICROSOFT WINDOWS 11 22H2

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

在这背后藏着很多的隐藏故事, 想解开这些, 你准备好开始尝试封装了吗?

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	像	第6页
A.	先决条件	件	第6页
	II IS	SO 工具	第6页
	III 要	要求	第6页
	1	1. 系统安装包	第6页
	2	2. 语言包	第7页
		2.1. 学习	第7页
		2.2. 语言包: 下载	第10页
		2.3. 语言包: 修复	第10页
	IV W	Vindows 安全中心	第11页
	V 命	命令行	第12页
В.		:提取	
	Ⅱ 语	吾言包: 准备	第12页
	III 语	吾言包: 提取方案	第12页
	IV 拔	丸行提取命令	第12页
C.	自定义部	部署映像	第 18 页
		自定义部署映像:Install.wim	
	1.		
	2.		
	3.		
	J.		
		3.1. 自定义部署映像:WinRE.wim	
		3.1.1. 查看 WinRE.wim 详细信息	
		3.1.2. 指定挂载路径:WinRE.wim	
		3.1.3. 开始挂载 WinRE.wim	
		3.1.4. 语言包	第19页

		3.1.4.1.	语言包:添加	第20页
		3.1.4.2.	脱机映像语言: 更改	第 21 页
			3.1.4.2.1. 更改默认语言、区域设置和其他国际设置	第21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22页
		3.1.4.4.	组件:映像中已安装的所有包	第24页
	3.1.5.	累积更新		第24页
		3.1.5.1.	添加	第24页
		3.1.5.2.	删除	第24页
		3.1.5.3.	固化更新	第 25 页
			3.1.5.3.1. 固化更新后清理组件	第 25 页
	3.1.6.	驱动		第 25 页
	3.1.7.	保存映像		第 25 页
	3.1.8.	卸载映像		第 25 页
	3.1.9.	重建 WinRE	.wim 后,可缩小文件大小	第 25 页
	3.1.10.	备份 WinRE	.wim	第26页
	3.1.11.	替换 Install.	wim 映像内的 WinRE.wim	第26页
语言包				第 26 页
4.1.	语言包: 沒	添加		第27页
4.2.	脱机映像语	語: 更改		第 29 页
	4.2.1.	更改默认语	言、区域设置和其他国际设置	第 29 页
	4.2.2.	查看可用的	语言设置	第29页
4.3.	语言包: 册	別除		第29页
4.4.	组件:映像	象中已安装的	所有包	第32页

4.

5.	InBox A	.pps	第32页
	5.1.	学习	第32页
	5.2.	InBox Apps:预安装应用程序	第32页
	5.3.	InBox Apps:已安装	第34页
	5.4.	删除已安装的所有预应用程序	第34页
	5.5.	区域标记:了解	第35页
	5.6.	区域标记:添加方式	第 35 页
	5.7.	InBox Apps:安装	第38页
	5.8.	区域标记: 删除	第48页
	5.9.	InBox Apps:优化	第 48 页
6.	累积更	新	第48页
	6.1.	初始版本	第49页
	6.2.	其它版本	第 50 页
	6.3.	固化更新	第50页
		6.3.1. 固化更新后清理组件	第50页
7.	驱动。		第51页
8.	部署引	擎:添加	第51页
9.	健康		第51页
10.	替换W	inRE.wim	第 51 页
11.	保存映像		
12.	卸载映	像	第 51 页
13.	重建 In	stall.wim 后可缩小文件大小	第 51 页
14.	如何批	量替换 Install.wim 里的所有索引号里的 WinRE.wim	第 52 页
	14.1.	获取 WimLib	第 52 页
	14.2.	如何在 Install.wim 里提取和更新 WinRE.wim	第 52 页
自定	义部署映	像: boot.wim	第53页

Ш

1.	查看 Boot.wim 详细信息		第53页
2.	指定挂载路径:Boot.wim 开始挂载 Boot.wim		
3.			
4.	语言包],	. 第54页
	4.1.	语言包:添加	第54页
	4.2.	脱机映像语言: 更改	第55页
		4.2.1. 更改默认语言、区域设置和其他国际设置	第55页
		4.2.2. 查看可用的语言设置	第55页
	4.3.	语言包: 删除	第55页
	4.4.	组件:映像中已安装的所有包	. 第58页
	4.5.	语言包: 修复	第58页
	4.6.	语言包:同步到 ISO 安装程序	. 第59页
	4.7.	重新生成 Lang.ini	第59页
		4.7.1. 重新生成已挂载目录 lang.ini	第59页
		4.7.2. 重新生成 lang.ini 后,同步到安装程序	. 第59页
5.	累积更	到新	第59页
	5.1.	添加	第59页
	5.2.	删除	第59页
	5.3.	固化更新	第59页
		5.3.1. 固化更新后清理组件	. 第60页
6.	驱动		第60页
7.	其它		第60页
		7.1. 绕过 TPM 安装时检查	. 第60页
8.	保存時	哈	第61页
9.	卸载的	u像	第 61 页

	IV 部署引擎	第61页
	1. 添加方式	第 61 页
	2. 部署引擎: 进阶	第64页
D.	ISO	笙 67 而
Б.		
	II 生成 ISO	第67页
	III 绕过 TPM 安装时检查	第67页
章节 2	报告	第68页
II	报告:不同版本	第68页
Ш	语言安装包适用于:Install.wim	第70页
IV	语言安装包适用于:WinRE.wim	第 71 页
V	语言安装包适用于:Boot.wim	第73页
章节 3	常见问题	第 74 页
II	清理所有挂载到	第 68 页
III	修复挂载出现异常的问题	第74页
IV	清理目录	第74页
章节 4	已知问题	第 74 页

章节1 部署映像

A. 先决条件

II ISO 工具

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

Ⅲ 要求

1. 系统安装包

关键词: 迭代、跨版本、大版本、累积更新、初始版本

1.1. 说明

- 1.1.1. 每版本更新时请重新制作镜像,例如从 21H1 跨越到 22H2 时,应避免出现其它兼容性问题请勿在旧镜像基础上制作;
- 1.1.2. 该条例已经在某些 OEM 厂商,通过各种形式向封装师明确传达了该法令,不允许直接从迭代版本里直接升级;
- 1.1.3. 制作中请使用"初始版本"、"开发者版"制作。微软官方文档里曾短暂的出现过在制作中必须使用初始版本,后来这句在官方文档里却被删除了;
- 1.1.4. 安装语言包后,必须重新添加累积更新(可同一版本号),不添加累积更新会出现"乱码"、"界面闪退"等问题。
- 1.1.5. 进化过程:Windows 11 22H2, Build 22261.382 + KB5027303 = OS Build 22621.1928

1.2. 准备下载初始版本或开发者版本

- **1.2.1.** en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08ce3.iso
- 1.2.2. en-us_windows_11_consumer_editions_version_22h2_x64_dvd_e630fafd.iso
- $\textbf{1.2.3.} \qquad \text{en-us_windows_11_iot_enterprise_version_22h2_arm64_dvd_f09f5d29.iso}$
- **1.2.4.** en-us_windows_11_iot_enterprise_version_22h2_x64_dvd_eb39bf70.iso
- 1.3. 示例下载 en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08ce3.iso 后,解压到: D:\enus_windows_11_business_editions_version_22h2_x64_dvd_17a08c
- 1.4. 解压完成后,将目录 en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08c 更改为 D:\OS_11
- 1.5. 所有脚本、所有路径,已默认设置为 D:\OS_11 为映像来源。
- 1.6. 安装配置
 - 1.6.1. 学习: Windows 安装版配置和产品 ID 文件 (El.cfg 和 PID.txt)

1.6.2. 已知问题

- 1.6.2.1. 没有 Ei.cfg 时,ISO 引导安装,选择某些版本时会报错,提示: Windows 找不到 Microsoft 软件许可条款。请确保安装源有效。然后重新启动安装。
- 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

1.7. 报告

查看映像包里已安装:语言包、已关联的语言包组件、预安装 InBox Apps 应用程序等详细信息,下载报告后,使用 Excel 软件打开 .xlsx。

1.7.1. 报告:总览

包含: ISO 系统安装包、映像版本、区域、区域关联、已关联的语言包组件等。

Report.Overview.xlsx

1.7.2. 报告:完整

包容: ISO 系统安装包、映像版本、区域、区域关联、已关联的语言包组件、已安装 InBox Apps 预安装应用程序等。

en-us、ar-sa、bg-bg、cs-cz、da-dk、de-de、el-gr、en-gb、es-es、es-mx、et-ee、fi-fi、fr-ca、fr-fr、he-il、hr-hr、hu-hu、it-it、ja-jp、ko-kr、lt-lt、lv-lv、nb-no、nl-nl、pl-pl、pt-br、pt-pt、ro-ro、ru-ru、sk-sk、sl-si、sr-latn-rs、sv-se、th-th、tr-tr、uk-ua、zh-cn、zh-tw

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 11 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-Package~31bf3856ad364e35~amd64~~.cab
- 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



2.1.3.3. 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~31bf3856ad364e35~amd64~~.cab

说明:对台湾日期格式设置要求的补充支持。将为位于台湾的客户提供包。

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

存在争议:

- 查看"报告: Windows 11 23H2"脱机映像语言列表,并未发现有此程序包;
- 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

 $https://software-static.download.prss.microsoft.com/dbazure/988969d5-f34g-4e03-ac9d-1f9786c66749/22621.1.220506-1250.ni_release_amd64fre_CLIENT_LOF_PACKAGES_OEM.iso$

- 2.3. 语言包: 修复
 - 2.3.1. 任选一个网站并打开:
 - 2.3.1.1. https://uupdump.net
 - 2.3.1.2. https://uup.ee
 - 2.3.1.3. https://osdump.com
 - 2.3.2. 打开后,搜索关键词:22621.382,在搜索结果选择:Windows 11, version 22H2 (22621.382) amd64
 - 2.3.3. 打开后,选择"全部文件";
 - 2.3.4. 在"全部文件"页面里依次搜索绿色部分并下载:
 - 2.3.4.1. 适用于: Install.wim (1项)
 - 2.3.4.1.1. MediaPlayer
 - 2.3.4.2. 适用于: WinRE.wim, 暂无

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

3. InBox Apps

- 3.1. 下载: https://software-static.download.prss.microsoft.com/dbazure/888969d5-f34g-4e03-ac9d-1f9786c66749/22621.1778.230511-2102.ni_release_svc_prod3_amd64fre_InboxApps.iso
- 3.2. 下载: https://software-static.download.prss.microsoft.com/dbazure/988969d5-f34g-4e03-ac9d-1f9786c66749/22621.1.220506-1250.ni_release_amd64fre_InboxApps.iso 后,提取:
 - 3.2.1. Microsoft.HEVCVideoExtension
 - 3.2.1.1. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.arm64.appx
 - 3.2.1.2. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.arm64.xml
 - 3.2.1.3. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.appx
 - 3.2.1.4. Microsoft.HEVCVideoExtension_8wekyb3d8bbwe.x64.xml
- 3.3. 使用 ISO 编辑工具,编辑 22621.1778.230511-2102.ni_release_svc_prod3_amd64fre_InboxApps.iso,将已提取文件添加到 [ISO]:\packages 目录里;

IV Windows 安全中心

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

如何关闭:

绿色为命令行,按住 Windows 键并按 R 键启动 "运行"。

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

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

V 命令行

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

Set-ExecutionPolicy - ExecutionPolicy Bypass - Force

- 3. 在本文中,绿色部分属于 PS 命令行,请复制后,粘贴到"Terminal"对话框,按回车键(Enter)后开始运行;
- 4. 有 .ps1 时,点击文件右键,选择以 PowerShell 运行,或复制路径,粘贴到"Terminal "或"PowerShell ISE"里运行,带冒号的路径,在命令行添加 & 字符,示例:& "D:\Yi.Solutions_Encapsulation_SIP.ps1"

B. 语言包: 提取

Ⅱ 语言包:准备

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

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

IV 执行提取命令

- Auto = 自动搜索本地所有磁盘,默认;
- 自定义路径,例如指定为 E 盘: \$ISO = "E:\"
- Extract.ps1
 - o \Expand\Extract.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Extract.ps1

• 复制代码

```
$ISO = "Auto"
$SaveTo = "D:\OS_11_Custom"
$Extract_language_Pack = @(
     @{ Tag = "zh-CN"; Act = "Add"; Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot" ) }
     @{ Tag = "en-US"; Act = "Del"; Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot" ) }
Function Extract_Language
     param( $Act, $NewLang, $Expand )
     Function Match_Required_Fonts
          param($Lang)
          $Fonts = @(
               @{ Match = @("as", "ar-SA", "ar", "ar-AE", "ar-BH", "ar-DJ", "ar-DZ", "ar-EG", "ar-ER", "ar-IL", "ar-IQ", "ar-JO", "ar-KM", "ar-KW", "ar-LB", "ar-LB", "ar-DZ", "ar-EG", "ar-ER", "ar-IL", "ar-IQ", "ar-IQ", "ar-IQ", "ar-IQ", "ar-IQ", "ar-ID", "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-ER", "ti-ER", "tig-ER", "tig-ER", "tig-Ethi", "ve-Ethi", "wal", "wal-ET", "wal-ET", "wal-ET", "wal-ET", "tig-ER", "
Ethi"); Name = "Ethi"; }
               @{ Match = @("gu", "gu-IN"); Name = "Gujr"; }
               @{ Match = @("pa", "pa-IN", "pa-Guru"); Name = "Guru"; }
               @{ Match = @("zh-CN", "cmn-Hans", "gan-Hans", "hak-Hans", "wuu-Hans", "yue-Hans", "zh-gan-Hans", "zh-hak-Hans", "zh-Hans", "zh-
SG", "zh-wuu-Hans", "zh-yue-Hans"); Name = "Hans"; }
               @{ Match = @("zh-TW", "cmn-Hant", "hak-Hant", "lzh-Hant", "zh-hak-Hant", "zh-Hant", "zh-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 )
  New-Item -Path $NewSaveTo -ItemType Directory -ErrorAction SilentlyContinue | Out-Null
```

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

```
@{
    Path = "Install\Install"
    Rule = @(
      "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Fonts-{DiyLang}-
Package~31bf3856ad364e35~AMD64~~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-Client-Language-Pack_x64_{Lang}.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Basic-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Handwriting-{Lang}-
Package~31bf3856ad364e35~AMD64~~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-OCR-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Speech-{Lang}-Package~31bf3856ad364e35~AMD64~~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-TextToSpeech-{Lang}-
Package~31bf3856ad364e35~AMD64~~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-MediaPlayer-Package-AMD64-{Lang}.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-MediaPlayer-Package-wow64-{Lang}.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"
      "LanguagesAndOptionalFeatures\Microsoft-Windows-InternationalFeatures-{Specific}-Package~31bf3856ad364e35~amd64~~.cab"
   @{
    Path = "Install\WinRE"
    Rule = @(
      "Windows Preinstallation Environment\x64\WinPE_OCs\WinPE-FontSupport-{Lang}.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\lp.cab"
      "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"
```

```
"Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-enhancedstorage_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-narrator_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-scripting_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-speech-tts_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srh_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-srt_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wds-tools_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wmi_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-appxdeployment_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-appxpackaging_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-storagewmi_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-wifi_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-windowsupdate_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-rejuv_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-opcservices_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-hta_{Lang}.cab"
@{
 Path = "Boot\Boot"
 Rule = @(
   "Windows Preinstallation Environment\x64\WinPE_OCs\WinPE-FontSupport-{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\lp.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\WinPE-Setup_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\WINPE-SETUP-CLIENT_{Lang}.CAB"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-securestartup_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-atbroker_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiocore_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-audiodrivers_{Lang}.cab"
   "Windows Preinstallation Environment\x64\WinPE_OCs\{Lang}\winpe-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-wmi_{Lang}.cab"
     $NewFonts = Match_Required_Fonts -Lang $NewLang
     $SpecificPackage = Match_Other_Region_Specific_Requirements -Lang $NewLang
     Foreach ($item in $Expand) {
         $Language = @()
         Foreach ($itemList in $AdvLanguage) {
              if ($itemList.Path -eq $item) {
                   Foreach ($PrintLang in $itemList.Rule) {
                         \alpha + = "(\$PrintLang)".Replace("{Lang}", \$NewLang).Replace("{DiyLang}", \$NewFonts).Replace("{Specific}", \$NewFonts).Replace("{Specif
$SpecificPackage)
                   Extract_Process -NewSaveTo $itemList.Path -Package $Language -Name $item
```

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

C. 自定义部署映像

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

映像名称、映像描述、映像大小、架构、版本、索引号等;

```
$ViewFile = "D:\OS_11\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

3. 开始挂载 Install.wim

默认索引号: 1

Mount-WindowsImage -ImagePath "D:\OS_11\sources\install.wim" -Index "1" -Path "D:\OS_11_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;

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

3.1.2. 指定挂载 WinRE.wim 路径

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

3.1.3. 开始挂载 WinRE.wim

默认索引号: 1

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



• 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/_Learn/Attachment/OS.11/22H2/Expand/Install/WinRE/WinRE.Instl.lang.ps1

• 复制代码

```
$Mount = "D:\OS_11_Custom\Install\WinRE\Mount"
$Sources = "D:\OS_11_Custom\Install\WinRE\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"
$Language_List = @(
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
 @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }
 @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }
 @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }
 @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }
 @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }
 @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }
 @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_zh-CN.cab"; }
 @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_zh-CN.cab"; }
 @{ Match = "*WiFi*"; File = "winpe-wifi_zh-CN.cab"; }
```

```
@{ Match = "*rejuv*"; File = "winpe-rejuv_zh-CN.cab"; }
 @{ Match = "*opcservices*"; File = "winpe-opcservices_zh-CN.cab"; }
 @{ Match = "*hta*"; File = "winpe-hta_zh-CN.cab"; }
 @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_zh-CN.cab"; }
 @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_zh-CN.cab"; }
ForEach ($Rule in $Language_List) {
 Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "$('-' * 80)"
 ForEach ($Component in $Initl_install_Language_Component) {
   if ($Component -like "*$($Rule.Match)*") {
     Write-host " Component name: " -NoNewline
     Write-host $Component -ForegroundColor Green
     Write-host " Language pack file: " -NoNewline
     Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green
     Write-Host " Installing ".PadRight(22) -NoNewline
     try {
      Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$($Rule.File)" | Out-Null
      Write-host "Finish" -ForegroundColor Green
     } catch {
      Write-host "Failed" -ForegroundColor Red
     break
```

3.1.4.2. 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_11_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_11_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 \Expand\Install\WinRE\WinRE.Del.Specified.lang.Tag.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Install/WinRE/WinRE.Del.Specified.lang.Tag.ps1

• 复制代码

```
$Lang = "en-US"
$Mount = "D:\OS_11_Custom\Install\WinRE\Mount"
$Sources = "D:\OS_11_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 " \ \( \$(\$\text{item})\)" -ForegroundColor Green

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

try {

Remove-AppxProvisionedPackage -Path \$Mount -PackageName \$\text{item} -ErrorAction

SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

Write-host " \$(\$_\)" -ForegroundColor Red

}

}
```

3.1.4.4. 组件:映像中已安装的所有包

3.1.4.4.1. 查看

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

3.1.4.4.2. 导出到 Csv

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

Get-WindowsPackage -Path "D:\OS_11_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_11_Custom\Install\WinRE\Update\KB_WinRE.cab"$

Add-WindowsPackage -Path "D:\OS_11_Custom\Install\WinRE\Mount" -PackagePath \$KBPath

3.1.5.2. 删除

 $$KBPath = "D:\OS_11_Custom\Install\WinRE\Update\KB_WinRE.cab"$

Remove-WindowsPackage -Path "D:\OS_11_Custom\Install\WinRE\Mount" -PackagePath \$KBPath



3.1.5.3. 固化更新,可选项

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

Dism /image:"D:\OS_11_Custom\Install\WinRE\Mount" /cleanup-image /StartComponentCleanup /ResetBase

3.1.5.3.1. 固化更新后清理组件,可选项

```
$Mount = "D:\OS_11_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

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

3.1.8. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS_11_Custom\Install\WinRE\Mount" -Discard

3.1.9. 重建 WinRE.wim 后,可缩小文件大小

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

• 复制代码

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

 ${\tt Get-WindowsImage-ImagePath\ \$Filename-ErrorAction\ Silently Continue\ |\ For Each-Object\ \{ boundaries and boundaries and boundaries and boundaries are provided by the provided boundaries and boundaries are provided by the provided by the provided boundaries are provided by the provided boundaries and boundaries are provided by the provided by the provided by the provided by the provided boundaries are provided by the pro$

Write-Host " Image name: " -NoNewline

Write-Host \$_.ImageName -ForegroundColor Yellow



```
Write-Host " The index number: "-NoNewline

Write-Host $_.ImageIndex -ForegroundColor Yellow

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

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

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

Write-Host "Finish` n" -ForegroundColor Green

}

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

Remove-Item -Path $Filename

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

Write-Host "Finish" -ForegroundColor Green

} else {

Write-host "Failed" -ForegroundColor Red
```

3.1.10. 备份 WinRE.wim

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

• 复制代码

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

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

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

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

3.1.11. 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
 - \Expand\Install\Install.Instl.lang.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Install.Instl.lang.ps

• 复制代码

```
$Mount = "D:\OS_11_Custom\Install\Install\Mount"
$Sources = "D:\OS_11_Custom\Install\Install\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
   $Initl_install_Language_Component += $_.PackageName
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\Microsoft-Windows-LanguageFeatures-Fonts-Hans-
Package~31bf3856ad364e35~amd64~~.cab"
$Language_List = @(
   @{ Match = "*Client-LanguagePack-Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab"; }
   @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
   @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
   @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
   @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
   @\{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-CN-windows-LanguageFeatures-TextToSpeech-zh-windows-LanguageFeatures-TextToSpeech-zh-windows-LanguageFeatures-TextToSpeech-zh-windows-LanguageFeatures-TextToSpeech-zh-windows-LanguageFeatures-TextToSpeech-zh-windows-LanguageFeatures-TextToSpeech-zh-windows-LanguageFeatures-TextToSpeech-zh-windows-LanguageFeatures-TextToSpeech-zh-windows-LanguageFeatures-TextToSpeech-zh-windows-LanguageFeatures-TextToSpeech-zh-windows-TextToSpeech-zh-windows-TextToSpeech-zh-windows-TextToSpeech-zh-windows-TextToSpeech-zh-windows-TextToSpeech-zh-windows-TextToS
Package~31bf3856ad364e35~amd64~~.cab"; }
   @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }
   @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~zh-CN~.cab"; }
   @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }
   @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab"; }
```

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

4.2. 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_11_Custom\Install\Mount" /Set-AllIntl: "zh-CN"

4.2.2. 查看可用的语言设置

Dism /Image: "D:\OS_11_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
 - $o \verb| \Expand Install.Del.Specified.lang.Tag.ps1| \\$
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Install/Install.Del.S pecified.lang.Tag.ps1

• 复制代码

\$Language = @(

```
$Lang = "en-US"

$Mount = "D:\OS_11_Custom\Install\Install\Mount"

$Sources = "D:\OS_11_Custom\Install\Install\Language\Del\en-US"

$Initl_install_Language_Component = @()

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

$Initl_install_Language_Component += $_.PackageName
}
```

Yi's Solutions

```
@{ 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_11_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

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

Write-host \$SaveTo -ForegroundColor Green

5. InBox Apps

5.1. 学习

5.1.1. DISM 应用包 (.appx 或 .appxbundle) 服务命令行选项

5.2. InBox Apps: 预安装应用程序

编组缩写

- 群组 A: 教育版, 专业版, 专业教育版, 专业版工作站, 企业版, IoT企业版, 适用于虚拟桌面的 Windows 10企业版
- 群组 B:企业版 N,企业版 GN,企业版 SN,专业版 N,教育版 N,专业版工作站 N,专业教育版 N
- 群组 C: 家庭版, 家庭版 N, 家庭单语版

	名称	产品 ID	编组
1.	Microsoft.HEIFImageExtension	9PMMSR1CGPWG	A, C
2.	Microsoft.HEVCVideoExtension	9NMZLZ57R3T7	A, C
3.	Microsoft.VP9VideoExtensions	9N4D0MSMP0PT	A, C
4.	Microsoft.WebpImageExtension	9PG2DK419DRG	A, C
5.	Microsoft.GamingApp	9MV0B5HZVK9Z	A, C
6.	Microsoft.ZuneMusic	9WZDNCRFJ3PT	A, C
7.	MicrosoftCorporationII.MicrosoftFamily	9PDJDJS743XF	С
8.	Microsoft.WebMediaExtensions	9N5TDP8VCMHS	A, C
9.	Microsoft.WindowsSoundRecorder	9WZDNCRFHWKN	A, C
10.	Microsoft.Xbox.TCUI	9NKNC0LD5NN6	A, C
11.	Microsoft.ZuneVideo	9WZDNCRFJ3P2	A, C
12.	Microsoft.XboxGamingOverlay	9NZKPSTSNW4P	A, C
13.	Microsoft.RawImageExtension	9NCTDW2W1BH8	A, C 第32页

14.	Microsoft.UI.Xaml.2.3		A, B, C
15.	Microsoft.UI.Xaml.2.4		A, B, C
16.	Microsoft.UI.Xaml.2.7		A, B, C
17.	Microsoft.NET.Native.Framework.2.2		A, B, C
18.	Microsoft.NET.Native.Runtime.2.2		A, B, C
19.	Microsoft.VCLibs.140.00		A, B, C
20.	Microsoft.VCLibs.140.00.UWPDesktop		A, B, C
21.	Microsoft.SecHealthUI	9NK0JLZT7JD0	A, B, C
22.	Microsoft.WindowsStore	9WZDNCRFJBMP	A, B, C
23.	Microsoft.Sticky.Notes	9NBLGGH4QGHW	A, B, C
24.	Microsoft.Paint	9PCFS5B6T72H	A, B, C
25.	Microsoft.PowerAutomateDesktop	9NFTCH6J7FHV	A, B, C
26.	Microsoft.ScreenSketch	9MZ95KL8MR0L	A, B, C
27.	Microsoft.WindowsNotepad	9MSMLRH6LZF3	A, B, C
28.	Microsoft.WindowsTerminal	9N0DX20HK701	A, B, C
29.	Clipchamp.Clipchamp	9P1J8S7CCWWT	A, B, C
30.	Microsoft.Solitaire.Collection	9WZDNCRFHWD2	A, B, C
31.	Microsoft.WindowsAlarms	9WZDNCRFJ3PR	A, B, C
32.	Microsoft.WindowsFeedbackHub	9NBLGGH4R32N	A, B, C
33.	Microsoft.WindowsMaps	9WZDNCRDTBVB	A, B, C
34.	Microsoft.BingNews	9WZDNCRFHVFW	A, B, C
35.	Microsoft.DesktopAppInstaller	9NBLGGH4NNS1	A, B, C
36.	Microsoft.WindowsCamera	9WZDNCRFJBBG	A, B, C
37.	Microsoft.Getstarted	9WZDNCRDTBJJ	A, B, C
38.	Microsoft.Cortana	9NFFX4SZZ23L	A, B, C
39.	Microsoft.BingWeather	9WZDNCRFJ3Q2	A, B, C
40.	Microsoft.GetHelp	9PKDZBMV1H3T	A, B, C
41.	Microsoft.MicrosoftOfficeHub	9WZDNCRD29V9	A, B, C
42.	Microsoft.People	9NBLGGH10PG8	A, B, C
43.	Microsoft.StorePurchaseApp	9NBLGGH4LS1F	A, B, C
44.	Microsoft.Todos	9NBLGGH5R558	A, B, C
45.	Microsoft.Windows.Photos	9WZDNCRFJBH4	A, B, C
46.	Microsoft.WindowsCalculator	9WZDNCRFHVN5	A, B, C
47.	Microsoft.Windows.CommunicationsApps	9WZDNCRFHVQM	A, B, C

48.	Microsoft.XboxGameOverlay	9NBLGGH537C2	A, B, C
49.	Microsoft.XboxIdentityProvider	9WZDNCRD1HKW	A, B, C
50.	Microsoft.XboxSpeechToTextOverlay	9P086NHDNB9W	A, B, C
51.	Microsoft.YourPhone	9NMPJ99VJBWV	A, B, C
52.	MicrosoftCorporationII.QuickAssist	9P7BP5VNWKX5	A, B, C
53.	MicrosoftWindows.Client.WebExperience	9MSSGKG348SP	A, B, C

5.3. InBox Apps:已安装

5.3.1. 查看

5.3.2. 导出到 Csv

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

Get-AppXProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

5.4. 删除已安装的所有预应用程序

- Install.InBox.Appx.Clear.all.ps1
 - $o \quad \verb|\Expand Install.InBox.Appx.Clear.all.ps1| \\$
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Install.InBox.Appx. Clear.all.ps1

• 复制代码

```
Get-AppXProvisionedPackage -path "D:\OS_11_Custom\Install\Install\Mount" -ErrorAction SilentlyContinue | ForEach-Object {

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

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

try {

Remove-AppxProvisionedPackage -Path "D:\OS_11_Custom\Install\Install\Mount" -PackageName $_.PackageName -

ErrorAction SilentlyContinue | Out-Null

Write-host "Finish" -ForegroundColor Green

} catch {

Write-host "Failed" -ForegroundColor Red

}
```

Yi's Solutions

5.5. 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_11_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。

5.6. 区域标记:添加方式

5.6.1. 执行"语言包:添加"

5.6.2. 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:

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

了解: https://github.com/ilikeyi/LXPs

下载后保存到: D:\OS_11_Custom\Install\Install\InBox.Appx, 文件格式:

Language Experience Pack. zh-CN. Neutral. Appx

5.6.2.2. 手动下载

5.6.2.2.1. 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 第35页 共75页

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

VT Q55
Q55
FW
LR4
VLT
39R
_5S
12BQ
ZPT
QD17
1Z7
NB0

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

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

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

5.6.2.2.2.1. 搜索关键词:

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

5.6.2.2.2.2. 网页内搜索 22621 内容,搜索结果:

Microsoft.LanguageExperiencePackzh-CN_22621.*. neutral_8wekyb3d8bbwe.appx

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

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

5.6.2.3. 执行安装命令安装本地语言体验包 (LXPs)

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

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

5.6.2.4. InBox Apps: 已安装的应用程序包

5.6.2.4.1. 查看

 ${\tt Get-AppXProvisionedPackage-Path~"D:\OS_11_Custom\Install\Install\Mount"~|~Out-Package~"} \\$

5.6.2.4.2. 导到出 Csv

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

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

Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

5.7. InBox Apps:安装

5.7.1. 挂载或解压 InBox Apps 安装文件

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

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

- Auto = 自动搜索本地所有磁盘,默认;
- 自定义路径,例如指定为 F 盘: \$ISO = "F:\packages"
- 架构: x64
- Install.Inst.InBox.Appx.ps1
 - $\verb|o| \end{linstall.} Inst. In Box. Appx.ps1 \\$
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Install/Install.I

复制代码

return

```
$ISO = "Auto"

$Mount = "D:\OS_11_Custom\Install\Install\Mount"

$Arch = "x64"

try {

Write-host "`n Offline image version: " -NoNewline

$Current_Edition_Version = (Get-WindowsEdition -Path $Mount).Edition

Write-Host $Current_Edition_Version -ForegroundColor Green

} catch {

Write-Host "Error" -ForegroundColor Red

Write-Host " $($_)" -ForegroundColor Yellow
```

```
$Pre_Config_Rules = @{
 Edition = @(
   @{
     Name = @( "CloudEdition"; )
     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.Services.Store.Engagement";
"Microsoft.VP9VideoExtensions"; "Clipchamp.Clipchamp"; "Microsoft.BingNews"; "Microsoft.BingWeather";
"Microsoft.DesktopAppInstaller"; "Microsoft.GetHelp"; "Microsoft.Getstarted"; "Microsoft.HEIFImageExtension";
"Microsoft.HEVCVideoExtension"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.MicrosoftStickyNotes";
"Microsoft.MinecraftEducationEdition"; "Microsoft.Paint"; "Microsoft.RawImageExtension";
"Microsoft.ScreenSketch"; "Microsoft.SecHealthUI"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos";
"Microsoft.WebMediaExtensions"; "Microsoft.WebpImageExtension"; "Microsoft.Whiteboard";
"Microsoft.Windows.Photos"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsCalculator";
"Microsoft.WindowsCamera"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps";
"Microsoft.WindowsNotepad"; "Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI";
"Microsoft.XboxIdentityProvider"; "Microsoft.XboxSpeechToTextOverlay"; "Microsoft.ZuneMusic";
"Microsoft.ZuneVideo"; "MicrosoftCorporationII.QuickAssist";
   @{
     Name = @( "CloudEditionN"; )
     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.Services.Store.Engagement";
"Microsoft.XboxSpeechToTextOverlay"; "Clipchamp.Clipchamp"; "Microsoft.BingNews"; "Microsoft.BingWeather";
"Microsoft.DesktopAppInstaller"; "Microsoft.GetHelp"; "Microsoft.Getstarted"; "Microsoft.MicrosoftOfficeHub";
"Microsoft.MicrosoftStickyNotes"; "Microsoft.MinecraftEducationEdition"; "Microsoft.Paint";
"Microsoft.ScreenSketch"; "Microsoft.SecHealthUI"; "Microsoft.StorePurchaseApp"; "Microsoft.Whiteboard";
"Microsoft.Windows.Photos"; "Microsoft.WindowsAlarms"; "Microsoft.WindowsCalculator"; \\
"Microsoft.WindowsCamera"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps";
"Microsoft.WindowsNotepad"; "Microsoft.XboxIdentityProvider"; "MicrosoftCorporationII.QuickAssist";
   }
   @{
     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.MicrosoftStickyNotes"; "Microsoft.Paint";
"Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad";
"Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.MicrosoftSolitaireCollection";
"Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps";
"Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.BingWeather"; "Microsoft.DesktopAppInstaller";
"Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.GetHelp";
"Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos";
"Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.windowscommunicationsapps"; "Microsoft.WindowsSoundRecorder"; "Microsoft.Xbox.TCUI";
"Microsoft.XboxGameOverlay"; "Microsoft.XboxGamingOverlay"; "Microsoft.XboxIdentityProvider";
"Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "Microsoft.ZuneVideo";
"MicrosoftCorporationII.QuickAssist"; "MicrosoftWindows.Client.WebExperience";
"Microsoft.RawImageExtension"; "MicrosoftCorporationII.MicrosoftFamily";
   @{
     Name = @(
      "Education"; "Professional"; "ProfessionalEducation"; "ProfessionalWorkstation"; "Enterprise";
"IoTEnterprise"; "ServerRdsh";
     Apps = @(
      "Microsoft.UI.Xaml.2.3"; "Microsoft.UI.Xaml.2.4"; "Microsoft.UI.Xaml.2.7";
"Microsoft.NET.Native.Framework.2.2"; "Microsoft.NET.Native.Runtime.2.2"; "Microsoft.VCLibs.140.00";
"Microsoft.VCLibs.140.00.UWPDesktop"; "Microsoft.HEIFImageExtension"; "Microsoft.HEVCVideoExtension";
"Microsoft.SecHealthUI"; "Microsoft.VP9VideoExtensions"; "Microsoft.WebpImageExtension";
"Microsoft.WindowsStore"; "Microsoft.GamingApp"; "Microsoft.MicrosoftStickyNotes"; "Microsoft.Paint";
"Microsoft.PowerAutomateDesktop"; "Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad";
"Microsoft.WindowsTerminal"; "Clipchamp.Clipchamp"; "Microsoft.MicrosoftSolitaireCollection";
"Microsoft.WindowsAlarms"; "Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps";
"Microsoft.ZuneMusic"; "Microsoft.BingNews"; "Microsoft.BingWeather"; "Microsoft.DesktopAppInstaller";
"Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana"; "Microsoft.GetHelp";
"Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp"; "Microsoft.Todos";
"Microsoft.WebMediaExtensions"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.windowscommunicationsapps"; "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"; "EnterpriseGN"; "EnterpriseSN"; "ProfessionalN"; "EducationN";
```

"ProfessionalWorkstationN"; "ProfessionalEducationN"; "CloudN"; "CloudEN"; "CloudEditionLN"; "StarterN";

Yi's Solutions

```
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.MicrosoftStickyNotes"; "Microsoft.Paint"; "Microsoft.PowerAutomateDesktop";
"Microsoft.ScreenSketch"; "Microsoft.WindowsNotepad"; "Microsoft.WindowsTerminal";
"Clipchamp.Clipchamp"; "Microsoft.MicrosoftSolitaireCollection"; "Microsoft.WindowsAlarms";
"Microsoft.WindowsFeedbackHub"; "Microsoft.WindowsMaps"; "Microsoft.BingNews"; "Microsoft.BingWeather";
"Microsoft.DesktopAppInstaller"; "Microsoft.WindowsCamera"; "Microsoft.Getstarted"; "Microsoft.Cortana";
"Microsoft.GetHelp"; "Microsoft.MicrosoftOfficeHub"; "Microsoft.People"; "Microsoft.StorePurchaseApp";
"Microsoft.Todos"; "Microsoft.Windows.Photos"; "Microsoft.WindowsCalculator";
"Microsoft.windowscommunications apps"; "Microsoft.XboxGameOverlay"; "Microsoft.XboxIdentityProvider"; \\
"Microsoft.XboxSpeechToTextOverlay"; "Microsoft.YourPhone"; "MicrosoftCorporationII.QuickAssist";
"MicrosoftWindows.Client.WebExperience";
 Rule = @(
   @{ Name="Microsoft.UI.Xaml.2.3"; Match="UI.Xaml*{ARCHTag}*2.3"; License="UI.Xaml*{ARCHTag}*2.3";
Dependencies=@(); }
   @{ Name="Microsoft.UI.Xaml.2.4"; Match="UI.Xaml*{ARCHTag}*2.4"; License="UI.Xaml*{ARCHTag}*2.4";
Dependencies=@(); }
   @{ Name="Microsoft.UI.Xaml.2.7"; Match="UI.Xaml*{ARCHTag}*2.7"; License="UI.Xaml*{ARCHTag}*2.7";
Dependencies=@(); }
   @{ Name="Microsoft.NET.Native.Framework.2.2";
Match="Native.Framework*{ARCHTag}*2.2";License="Native.Framework*{ARCHTag}*2.2";Dependencies=@();}
   @{ Name="Microsoft.NET.Native.Runtime.2.2";
Match="Native.Runtime*{ARCHTag}*2.2";License="Native.Runtime*{ARCHTag}*2.2"; Dependencies=@();}
   @{ Name="Microsoft.VCLibs.140.00"; Match="VCLibs*{ARCHTag}"; License="VCLibs*{ARCHTag}";
Dependencies=@(); }
   @{ Name="Microsoft.VCLibs.140.00.UWPDesktop";
Match="VCLibs*{ARCHTag}*Desktop";License="VCLibs*{ARCHTag}*Desktop"; Dependencies=@(); }
   @{ Name="Microsoft.HEIFImageExtension"; Match="HEIFImageExtension"; License="HEIFImageExtension*";
Dependencies=@("Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.HEVCVideoExtension";
Match="HEVCVideoExtension*{ARCHC}";License="HEVCVideoExtension*{ARCHC}*xml";
Dependencies=@("Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.SecHealthUI"; Match="SecHealthUI*{ARCHC}";License="SecHealthUI*{ARCHC}";
Dependencies=@("Microsoft.UI.Xaml.2.4", "Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.VP9VideoExtensions";
Match="VP9VideoExtensions*{ARCHC}";License="VP9VideoExtensions*{ARCHC}";
Dependencies=@("Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.WebpImageExtension";
Match="WebpImageExtension*{ARCHC}";License="WebpImageExtension*{ARCHC}";
```

```
Dependencies=@("Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.WindowsStore"; Match="WindowsStore"; License="WindowsStore";
Dependencies=@("Microsoft.UI.Xaml.2.3","Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime
.2.2","Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.GamingApp"; Match="GamingApp"; License="GamingApp";
Dependencies=@("Microsoft.UI.Xaml.2.3","Microsoft.VCLibs.140.00","Microsoft.VCLibs.140.00.UWPDesktop"); }
   @{ Name="Microsoft.MicrosoftStickyNotes";
Match="Microsoft.Sticky.Notes";License="MicrosoftStickyNotes";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.
140.00"); }
   @{ Name="Microsoft.Paint"; Match="Paint"; License="Paint";
Dependencies=@("Microsoft.VCLibs.140.00","Microsoft.VCLibs.140.00.UWPDesktop","Microsoft.UI.Xaml.2.7"); }
   @{ Name="Microsoft.PowerAutomateDesktop";
Match="PowerAutomateDesktop";License="PowerAutomateDesktop";
Dependencies=@("Microsoft.VCLibs.140.00.UWPDesktop"); }
   @{ Name="Microsoft.ScreenSketch"; Match="ScreenSketch"; License="ScreenSketch";
Dependencies=@("Microsoft.UI.Xaml.2.7", "Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.WindowsNotepad"; Match="WindowsNotepad"; License="WindowsNotepad";
Dependencies=@("Microsoft.VCLibs.140.00","Microsoft.VCLibs.140.00.UWPDesktop","Microsoft.UI.Xaml.2.7"); }
   @{ Name="Microsoft.WindowsTerminal"; Match="WindowsTerminal"; License="WindowsTerminal";
Dependencies=@("Microsoft.UI.Xaml.2.7","Microsoft.VCLibs.140.00.UWPDesktop"); }
   @{ Name="Clipchamp.Clipchamp"; Match="Clipchamp.Clipchamp.Clipchamp.";License="Clipchamp.Clipchamp";
Dependencies=@(); }
   @{ Name="Microsoft.MicrosoftSolitaireCollection";
Match="MicrosoftSolitaireCollection";License="MicrosoftSolitaireCollection";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.
140.00"); }
   @{ Name="Microsoft.WindowsAlarms"; Match="WindowsAlarms"; License="WindowsAlarms";
Dependencies=@("Microsoft.UI.Xaml.2.7", "Microsoft.NET.Native.Framework.2.2", "Microsoft.NET.Native.Runtime
.2.2", "Microsoft. VCLibs. 140.00"); }
   @{ Name="Microsoft.WindowsFeedbackHub";
Match="WindowsFeedbackHub";License="WindowsFeedbackHub";
Dependencies=@("Microsoft.UI.Xaml.2.7", "Microsoft.NET.Native.Framework.2.2", "Microsoft.NET.Native.Runtime
.2.2","Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.WindowsMaps"; Match="WindowsMaps";License="WindowsMaps";
Dependencies=@("Microsoft.UI.Xaml.2.7","Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime
.2.2","Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.ZuneMusic"; Match="ZuneMusic"; License="ZuneMusic";
Dependencies=@("Microsoft.UI.Xaml.2.7", "Microsoft.VCLibs.140.00"); }
   @{ Name="MicrosoftCorporationII.MicrosoftFamily"; Match="MicrosoftFamily"; License="MicrosoftFamily";
Dependencies=@(); }
   @{ Name="Microsoft.BingNews"; Match="BingNews"; License="BingNews";
Dependencies=@("Microsoft.UI.Xaml.2.7","Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime
.2.2", "Microsoft. VCLibs. 140.00"); }
```

@{ Name="Microsoft.BingWeather"; Match="BingWeather"; License="BingWeather";

```
Dependencies=@("Microsoft.UI.Xaml.2.7", "Microsoft.NET.Native.Framework.2.2", "Microsoft.NET.Native.Runtime
.2.2", "Microsoft. VCLibs. 140.00"); }
   @{ Name="Microsoft.DesktopAppInstaller"; Match="DesktopAppInstaller"; License="DesktopAppInstaller";
Dependencies=@("Microsoft.UI.Xaml.2.7", "Microsoft.VCLibs.140.00.UWPDesktop"); }
   @{ Name="Microsoft.WindowsCamera"; Match="WindowsCamera"; License="WindowsCamera";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.
140.00"); }
   @{ Name="Microsoft.Getstarted"; Match="Getstarted"; License="Getstarted";
Dependencies=@("Microsoft.UI.Xaml.2.7","Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime
.2.2", "Microsoft. VCLibs. 140.00"); }
   @{ Name="Microsoft.Cortana"; Match="Cortana"; License="Cortana";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.
140.00", "Microsoft. VCLibs. 140.00. UWPDesktop"); }
   @{ Name="Microsoft.GetHelp"; Match="GetHelp"; License="GetHelp";
Dependencies=@("Microsoft.UI.Xaml.2.7","Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime
.2.2","Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.MicrosoftOfficeHub"; Match="MicrosoftOfficeHub"; License="MicrosoftOfficeHub";
Dependencies=@("Microsoft.VCLibs.140.00","Microsoft.VCLibs.140.00.UWPDesktop"); }
   @{ Name="Microsoft.People"; Match="People"; License="People";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.
140.00"); }
   @{ Name="Microsoft.StorePurchaseApp"; Match="StorePurchaseApp"; License="StorePurchaseApp";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.
140.00"); }
   @{ Name="Microsoft.Todos"; Match="Todos"; License="Todos";
Dependencies = @("Microsoft.UI.Xaml.2.4", "Microsoft.NET.Native.Framework.2.2", "Microsoft.NET.Native.Runtime") \\
.2.2","Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.WebMediaExtensions"; Match="WebMediaExtensions"; License="WebMediaExtensions";
Dependencies=@("Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.Windows.Photos"; Match="Windows.Photos"; License="Windows.Photos";
Dependencies=@("Microsoft.UI.Xaml.2.4","Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime
.2.2", "Microsoft. VCLibs. 140.00"); }
   @{ Name="Microsoft.WindowsCalculator"; Match="WindowsCalculator"; License="WindowsCalculator";
Dependencies=@("Microsoft.UI.Xaml.2.4", "Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.windowscommunicationsapps";
Match="WindowsCommunicationsApps";License="WindowsCommunicationsApps";
Dependencies=@("Microsoft.UI.Xaml.2.7", "Microsoft.VCLibs.140.00"); }
   @{ Name="Microsoft.WindowsSoundRecorder";
Match="WindowsSoundRecorder":License="WindowsSoundRecorder":
Dependencies=@("Microsoft.UI.Xaml.2.3", "Microsoft.VCLibs.140.00"); }
```

@{ Name="Microsoft.Xbox.TCUI"; Match="Xbox.TCUI"; License="Xbox.TCUI";

140.00"); }

Dependencies=@("Microsoft.VCLibs.140.00"); }

Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.

@{ Name="Microsoft.XboxGameOverlay"; Match="XboxGameOverlay"; License="XboxGameOverlay";

Yi's Solutions

```
@{ Name="Microsoft.XboxGamingOverlay"; Match="XboxGamingOverlay"; License="XboxGamingOverlay";
Dependencies=@("Microsoft.VCLibs.140.00"); }
       @{ Name="Microsoft.XboxIdentityProvider"; Match="XboxIdentityProvider";License="XboxIdentityProvider";
Dependencies = @("Microsoft.NET.Native.Framework.2.2", "Microsoft.NET.Native.Runtime.2.2", "Microsoft.VCLibs.") \\
140.00"); }
       @{ Name="Microsoft.XboxSpeechToTextOverlay";
Match="XboxSpeechToTextOverlay";License="XboxSpeechToTextOverlay";
Dependencies=@("Microsoft.VCLibs.140.00"); }
       @{ Name="Microsoft.YourPhone"; Match="YourPhone"; License="YourPhone";
Dependencies=@("Microsoft.NET.Native.Framework.2.2","Microsoft.NET.Native.Runtime.2.2","Microsoft.VCLibs.
 140.00", "Microsoft. VCLibs. 140.00. UWPDesktop"); }
       @{ Name="Microsoft.ZuneVideo"; Match="ZuneVideo"; License="ZuneVideo";
Dependencies=@("Microsoft.UI.Xaml.2.7", "Microsoft.VCLibs.140.00"); }
       @{ Name="MicrosoftCorporationII.QuickAssist"; Match="QuickAssist"; License="QuickAssist";
Dependencies=@(); }
       @{ Name="MicrosoftWindows.Client.WebExperience"; Match="WebExperience"; License="WebExperience";
Dependencies=@("Microsoft.VCLibs.140.00"); }
       @{ Name="Microsoft.MinecraftEducationEdition";
Match="MinecraftEducationEdition";License="MinecraftEducationEdition";
Dependencies=@("Microsoft.VCLibs.140.00.UWPDesktop"); }
       @{ Name="Microsoft.Whiteboard"; Match="Whiteboard"; License="Whiteboard";
Dependencies = @ ("Microsoft.NET.Native.Framework.2.2", "Microsoft.NET.Native.Runtime.2.2", "Microsoft.VCLibs.") and the proposed of the pro
140.00"); }
       @{ Name="Microsoft.RawImageExtension"; Match="RawImageExtension"; License="RawImageExtension";
Dependencies=@(); }
$Allow_Install_App = @()
ForEach ($item in $Pre_Config_Rules.Edition) {
    if ($item.Name -contains $Current_Edition_Version) {
       Write-host "`n Match to: "-NoNewline; Write-host $Current_Edition_Version -ForegroundColor Green
       $Allow_Install_App = $item.Apps
       break
Write-host "`n The app to install ( $($Allow_Install_App.Count) item )" -ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($item in $Allow_Install_App) {
   Write-host " $($item)" -ForegroundColor Green
}
```

```
Function Match_InBox_Apps_Install_Pack
  param ($NewPath)
  $NewArch = $Arch
  $NewArchC = $Arch.Replace("AMD64", "x64")
  $NewArchCTag = $Arch.Replace("AMD64", "x64")
  if ($Arch -eq "arm64") { $NewArchCTag = "arm" }
  if ($Pre_Config_Rules.Rule.Count -gt 0) {
    ForEach ($itemInBoxApps in $Pre_Config_Rules.Rule){
      $InstallPacker = ""
      $InstallPackerCert = ""
      $SearchNewStructure = $itemInBoxApps.Match.Replace("{ARCH}", $NewArch).Replace("{ARCHC}",
$NewArchC).Replace("{ARCHTag}", $NewArchCTag)
      \ensuremath{\mbox{SearchNewLicense}} = \ensuremath{\mbox{EmInBoxApps.License.Replace}(\ensuremath{\mbox{Replace}}(\ensuremath{\mbox{HCHC}}), \ensuremath{\mbox{NewArch}}). \ensuremath{\mbox{Replace}}(\ensuremath{\mbox{HCHC}}), \ensuremath{\mbox{Replace}}(\ensuremath{\mbox{HCHC}}), \ensuremath{\mbox{Replace}})
$NewArchC).Replace("{ARCHTag}", $NewArchCTag)
      Get-ChildItem -Path $NewPath -Filter "*$($SearchNewStructure)*" -Include "*.appx", "*.appxbundle",
"*.msixbundle" -Recurse -Force -ErrorAction SilentlyContinue | ForEach-Object {
        if (Test-Path -Path $_.FullName -PathType Leaf) {
          $InstallPacker = $_.FullName
          Get-ChildItem -Path $NewPath -Filter "*$($SearchNewLicense)*" -Include *.xml -Recurse -Force -
ErrorAction SilentlyContinue | ForEach-Object {
            $InstallPackerCert = $_.FullName
          $Script:InBoxAppx += @{
            Name
                         = $itemInBoxApps.Name;
            Depend
                          = $itemInBoxApps.Dependencies;
            Search
                         = $SearchNewStructure;
            InstallPacker = $InstallPacker;
            Certificate = $InstallPackerCert
            CertificateRule = $SearchNewLicense
          return
```

```
}
Write-host "`n InBox Apps: Installation packages, automatic search for full disk or specified paths" -
ForegroundColor Yellow
Write-host " $('-' * 80)"
$Script:InBoxAppx = @()
if ($ISO -eq "Auto") {
  Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
   $AppPath = Join-Path -Path $_.Root -ChildPath "packages" -ErrorAction SilentlyContinue
   Match_InBox_Apps_Install_Pack -NewPath $AppPath
} else {
  Match_InBox_Apps_Install_Pack -NewPath $ISO
Write-host "Search Complete" -ForegroundColor Green
Write-host "`n InBox Apps: Installer Match Results" -ForegroundColor Yellow
Write-host " $('-' * 80)"
if ($Script:InBoxAppx.Count -gt 0) {
  Write-host " Match successful" -ForegroundColor Green
} else {
  Write-host "Failed match" -ForegroundColor Red
  return
Write-host "`n InBox Apps: Details of the application to be installed ( $($Script:InBoxAppx.Count) item )" -
ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($Rule in $Script:InBoxAppx) {
  Write-host " Apps name: " -NoNewline; Write-host $Rule.Name -ForegroundColor Yellow
  Write-host Apps installer: "-NoNewline; Write-host Rule.InstallPacker -ForegroundColor Yellow
  Write-host "License: "-NoNewline; Write-host $Rule.Certificate -ForegroundColor Yellow
  Write-host ""
Write-host "`n InBox Apps: Installation" -ForegroundColor Yellow
Write-host " $('-' * 80)"
ForEach ($Rule in $Script:InBoxAppx) {
  Write-host "Name: "-NoNewline; Write-host $Rule.Name -ForegroundColor Yellow
```

```
Write-host " $('-' * 80)"
 if($Allow_Install_App -contains $Rule.Name) {
   Write-host "Search for apps: "-NoNewline; Write-host $Rule.InstallPacker -ForegroundColor Yellow
   Write-host "Search for License: "-NoNewline; Write-host $Rule.Certificate -ForegroundColor Yellow
   if (Test-Path -Path $Rule.InstallPacker -PathType Leaf) {
     if (Test-Path -Path $Rule.Certificate -PathType Leaf) {
       Write-host "License: "-NoNewline
       Write-host $Rule.Certificate -ForegroundColor Yellow
       Write-host " With License".PadRight(22) -NoNewline -ForegroundColor Green
       Write-host " Installing".PadRight(22) -NoNewline
       try {
        Add-AppxProvisionedPackage -Path $Mount -PackagePath $Rule.InstallPacker -LicensePath
$Rule.Certificate -ErrorAction SilentlyContinue | Out-Null
        Write-Host "Done`n" -ForegroundColor Green
       } catch {
         Write-Host "Failed" -ForegroundColor Red
         Write-Host " $($_)`n" -ForegroundColor Red
     } else {
       Write-host "No License".PadRight(22) -NoNewline -ForegroundColor Red
       Write-host " Installing".PadRight(22) -NoNewline
       try {
         {\tt Add-AppxProvisionedPackage-Path\ \$Mount-PackagePath\ \$Rule.} In stall {\tt Packer-SkipLicense-ErrorAction}
SilentlyContinue | Out-Null
         Write-Host "Done`n" -ForegroundColor Green
       } catch {
         Write-Host "Failed" -ForegroundColor Red
         Write-Host " $($_)`n" -ForegroundColor Red
   } else {
     Write-host " The installation package does not exist" -ForegroundColor Red
   }
 } else {
   Write-host "Skip the installation`n" -ForegroundColor Red
```

```
}
```

5.8. 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
 - https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Install/Install.Clear.Flag.p
 s1

• 复制代码

```
$Lang = "zh-CN"

Get-AppXProvisionedPackage -Path "D:\OS_11_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_11_Custom\Install\\Install\\Mount" -PackageName $_.PackageName -

ErrorAction SilentlyContinue | Out-Null

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

Write-host "Failed" -ForegroundColor Red
}

}
```

5.9. 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。

 $\label{lem:limit} Dism/Image: "D:\OS_11_Custom\Install\Install\Mount"/Optimize-Provisioned Appx Packages$

6. 累积更新

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

• 为保持最新,推荐您下载最新版。

6.1. 初始版本

6.1.1. 如何下载

累积更新 KB5016632 已无法从 https://www.catalog.update.microsoft.com/Search.aspx?q=KB5016632 里搜索到。

- 6.1.1.1. 任选一个网站并打开:
 - 6.1.1.1.1. https://uupdump.net
 - 6.1.1.1.2. https://uup.ee
 - 6.1.1.1.3. https://osdump.com
- 6.1.1.2. 打开后,搜索关键词: 22621.382, 在搜索结果选择: Windows 11, version 22H2 (22621.382) amd64 或 Windows 11, version 22H2 (22621.382) arm64
- 6.1.1.3. 打开后,选择"全部文件";
- 6.1.1.4. 在"全部文件"页面里搜索: KB5016632, 下载:
 - Windows11.0-KB5016632-x64.cab
 - Windows11.0-KB5016632-x64.psf
- 6.1.1.5. 累积更新: 合并
 - 6.1.1.5.1. 前往 https://github.com/abbodi1406/WHD/tree/master/scripts 后下载
 PSFX_Repack_6.zip
 - 6.1.1.5.2. 下载后解压到: D:\PSFX_Repack_6
 - **6.1.1.5.3.** 复制 Windows11.0-KB5016632-x64.cab、Windows11.0-KB5016632-x64.psf 到: D:\PSFX_Repack_6
 - 6.1.1.5.4. 运行: psfx2cab_GUI.cmd 后,将得到一个新的文件:

Windows11.0-KB5016632-x64-full_psfx.cab

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

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

6.1.2. 添加

 $$KBPath = "D:\OS_11_Custom\Install\Update\Windows11.0-KB5016632-x64-full_psfx.cab" | The continuous of the continuous$

 ${\tt Add-WindowsPackage-Path~"D:\OS_11_Custom\Install\Install\Mount"-PackagePath~\$KBPath)} \\$



6.2. 其它版本

查阅"Windows 11版本信息",例如下载累积更新: KB5032288,版本号: 22631.2792,前往下载页面:

https://www.catalog.update.microsoft.com/Search.aspx?q=KB5032288, 下载后保存到:

D:\OS_11_Custom\Install\Install\Update,或通过直连下载,根据架构选择下载:

6.2.1. x64, 默认

• 直连下载

https://catalog.sf.dl.delivery.mp.microsoft.com/filestreamingservice/files/d44c2ec3-2179-4305-9f27-fe303f81a9b6/public/windows11.0-kb5032288-x64_04212175664d85ed0f439f8f1f883e9f383b84cf.msu

• 添加

```
$KBPath = "D:\OS_11_Custom\Install\Update\windows11.0-kb5032288-x64_04212175664d85ed0f439f8f1f883e9f383b84cf.msu"
```

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

6.2.2. Arm64

• 直连下载

https://catalog.sf.dl.delivery.mp.microsoft.com/filestreamingservice/files/896c22e8-0e75-46b9-88aa-e2964a650705/public/windows11.0-kb5032288-arm64_384c85d652f32362fbee964d349fa220288d7140.msu

添加

```
$KBPath = "D:\OS_11_Custom\Install\Update\windows11.0-kb5032288-arm64_384c85d652f32362fbee964d349fa220288d7140.msu"
```

 $Add-Windows Package - Path "D: \OS_11_Custom \Install \Mount" - Package Path $KBP ath \Add-Windows \Add-Win$

6.3. 固化更新,可选项

固化后不可卸载,固化时将清理恢复映像并重置任何被取代的组件的基础。

 $\label{lem:limit} Dism/Image: "D: \OS_11_Custom \Install \Mount" / cleanup-image / Start Component Cleanup / Reset Base / Start \Component \Cleanup / Reset \Base / Start \Component \Cleanup / Reset \Component \Cleanup / Reset \Component \Cleanup / Reset \Component \Compone$

6.3.1. 固化更新后清理组件,可选项

```
\label{loss_mount} $\mathsf{Mount} = \mathsf{"D:\OS\_11\_Custom\Install\Install\Mount"}$
```

 ${\tt Get-WindowsPackage - Path \$ Mount - Error Action Silently Continue \mid For Each-Object \{ for Each-Object \} and the property of the property$

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

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



}

- 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_11_Custom\Install\Install\Mount" -ScanHealth

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{loss} $CopyTo = "D:\OS_11_Custom\Install\Install\Mount\Windows\System32\Recovery"$

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

11. 保存映像

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

12. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS_11_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
 - $o \qquad \text{https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Install.Rebuild.wim.ps1}\\$
 - 复制代码



```
$InstallWim = "D:\OS_11\sources\install.wim"
 Get-WindowsImage - ImagePath $InstallWim - 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 Under reconstruction".PadRight(28) -NoNewline
      Export-Windows Image - Source Image Path $Install Wim - Source Index $\_. Image Index - Destination Image Path $$(\$Install Wim). New $-... $$ in the property of the property
 CompressionType max | Out-Null
     Write-Host "Finish`n" -ForegroundColor Green
 if (Test-Path "$($InstallWim).New" -PathType Leaf) {
      Remove-Item -Path $InstallWim
     Move-Item -Path "$($InstallWim).New" -Destination $InstallWim
     Write-Host "Finish" -ForegroundColor Green
} else {
     Write-host "Failed" -ForegroundColor Red
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
```

- 如何在 Install.wim 里提取和更新 WinRE.wim 14.2.
 - 从 Install.wim 里提取 WinRE.wim 文件 Install.wim 14.2.1.
 - Install.WinRE.Replace.wim.ps1
 - \Expand\Install\Install.WinRE.Replace.wim.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Install. WinRE.Replace.wim.ps1
 - 复制代码

```
$Arguments = @(
 "extract",
 "D:\OS_11\sources\install.wim", "1",
```

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

"--dest-dir=""D:\OS_11_Custom\Install\Install\Update\Winlib"""

)

New-Item -Path "D:\OS_11_Custom\Install\Install\Update\Winlib" -ItemType Directory -ea SilentlyContinue

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

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/_Learn/Attachment/OS.11/22H2/Expand/Install/Install. WinRE.Replace.wim.ps1

• 复制代码

```
Get-WindowsImage -ImagePath "D:\OS_11\sources\install.wim" -ErrorAction SilentlyContinue | ForEach-Object {

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

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

Write-Host " `n Replacement "

$Arguments = @(

"update",

"D:\OS_11\sources\install.wim", $_.ImageIndex,

"--command=""add 'D:\OS_11_Custom\Install\lpdate\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_11\Sources\Boot.wim"

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

2. 指定挂载 Boot.wim 路径

Yi's Solutions

3. 开始挂载 Boot.wim

默认索引号: 2

Mount-WindowsImage -ImagePath "D:\OS_11\sources\boot.wim" -Index "2" -Path "D:\OS_11_Custom\Boot\Boot\Mount"

4. 语言包

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

4.1. 语言包:添加

- Boot.Instl.lang.ps1
 - o \Expand\Boot\Boot.Instl.lang.ps1
 - o https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Boot/Boot.Instl.lang.ps1

• 复制代码

```
$Mount = "D:\OS_11_Custom\Boot\Boot\Mount"
$Sources = "D:\OS_11_Custom\Boot\Boot\Language\Add\zh-CN"
$Initl_install_Language_Component = @()
Get-WindowsPackage -Path $Mount | ForEach-Object {
 $Initl_install_Language_Component += $_.PackageName
Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"
$Language_List = @(
 @{ Match = "*WinPE*Setup*Client*Package*"; File = "WINPE-SETUP-CLIENT_zh-CN.CAB"; }
 @{ Match = "*WinPE*Setup*Package*"; File = "WinPE-Setup_zh-CN.cab"; }
 @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }
 @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }
 @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }
 @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
 @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
 @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }
 @{ Match = "*Narrator*"; File = "winpe-narrator_zh-CN.cab"; }
```

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

4.2. 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

4.2.2. 查看可用的语言设置

Dism /Image:"D:\OS_11_Custom\Boot\Boot\Mount" /Get-Intl

4.3. 语言包:删除,可选

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

• 复制代码

```
$Lang = "en-US"
$Mount = "D:\OS_11_Custom\Boot\Boot\Mount"
$Sources = "D:\OS_11_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 " $('-' * 80)"
 ForEach ($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)*"){
    $InittClearLanguagePackage += $_.PackageName
}

}

if ($InittClearLanguagePackage.count -gt 0) {
    ForEach ($item in $InittClearLanguagePackage) {
        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

 ${\tt Get-WindowsPackage -Path "D: \OS_11_Custom \Boot \Boot \Mount" \mid Out-Grid View}$

4.4.2. 导出到 Csv

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

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

Write-host \$SaveTo -ForegroundColor Green

4.5. 语言包: 修复

4.5.1. 提取

打开: D:\OS_11_Custom\Install\Install\Language\Add\zh-CN\Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab, 进入目录: Setup\sources\zh-cn\cli, 复制以下文件到桌面:

- 4.5.1.1. arunres.dll.mui
- 4.5.1.2. spwizres.dll.mui
- 4.5.1.3. w32uires.dll.mui

4.5.2. 复制

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

4.6. 语言包:同步到ISO安装程序

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

4.7. 重新生成 Lang.ini

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

4.7.1. 重新生成已挂载目录 lang.ini

重新生成的 Lang.ini 文件位置: D:\en-

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

Dism /image:"D:\OS_11_Custom\Boot\Boot\Mount" /gen-langini /distribution:"D:\OS_11_Custom\Boot\Boot\Mount"

4.7.2. 重新生成 lang.ini 后,同步到安装程序

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

Dism /image:"D:\OS_11_Custom\Boot\Boot\Mount" /gen-langini /distribution:"D:\OS_11"

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_11_Custom\Boot\Boot\Update\KB_Boot.cab"$

Add-WindowsPackage -Path "D:\OS_11_Custom\Boot\Boot\Mount" -PackagePath \$KBPath

5.2. 删除

 $KBPath = D:\OS_11_Custom\Boot\Boot\Update\KB_Boot.cab$

Remove-WindowsPackage -Path "D:\OS_11_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。

Dism /image:"D:\OS_11_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_11_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. 其它

7.1. 绕过 TPM 安装时检查

- Boot.Bypass.TPM.ps1
 - o \Expand\Boot\Boot.Bypass.TPM.ps1
 - $o \qquad https://github.com/ilikeyi/solutions/blob/main/_Learn/Attachment/OS.11/22H2/Expand/Boot/Boot.Bypass.TPM.ps1\\$

复制代码

 $RegSystem = "D:\OS_11_Custom\Boot\Boot\Mount\Windows\System32\Config\SYSTEM"$

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

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

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

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

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

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

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

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

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

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

[gc]::collect()

 $Start-Process\ reg\ -Argument List\ "unload\ ""HKLM\\\ (\$RandomGuid)"""\ -Wait\ -WindowStyle\ Hidden\ -ErrorAction\ Silently Continue\ -ErrorAction\ -ErrorAction\$



8. 保存映像

Save-WindowsImage -Path "D:\OS_11_Custom\Boot\Boot\Mount"

9. 卸载映像

关闭所有可能正在访问映像中文件的应用程序,包括文件资源管理器。

Dismount-WindowsImage -Path "D:\OS_11_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:
 - 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_11\Autounattend.xml

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_11\Autounattend.xml" - Force

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

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

复制 D:\Multilingual\Unattend\Mul.Unattend.xml 到 D:\OS_11\Sources\Unattend.xml

 $\label{lem:copy-ltem:def} \begin{tabular}{ll} Copy-ltem "D:\OS_11\Sources\Unattend.xml" - Destination "D:\OS_11\$

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

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

1.1.1.3.1. 创建 \$OEM\$ 路径

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

1.1.1.3.2. 复制

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

D:\OS_11\Sources\\$OEM\$\Panther\Unattend.xml

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_11\sources\` \$OEM\$\` \$\$\Panther\Unattend.xml" -Force

1.1.2. 部署引擎:添加

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

1.1.2.1. 部署引擎: 复制

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

 $\label{lem:copy-lem$

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

New-Item -Path "D:\OS_11\sources\`$OEM$\`$1\Yi\Engine\Deploy\Allow\"-ItemType Directory -

ErrorAction SilentlyContinue | Out-Null

Out-File -FilePath "D:\OS_11\sources\`$OEM$\`$1\Yi\Engine\Deploy\Allow\$($item)" -Encoding utf8 -
```

1.2. 添加到已挂载

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

1.2.1. 无人值守

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

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_11_Custom\Install\Install\Mount\Panther" -Force

ErrorAction SilentlyContinue

1.2.2. 部署引擎

添加"自动添加 Windows 系统已安装的语言"到 D:\OS_11_Custom\Install\Install\Mount\Yi\Engine 目录里。

1.2.2.1. 部署引擎: 复制

复制 D:\Multilingual\Engine 到 D:\OS_11_Custom\Install\Install\Mount\Yi\Engine

1.2.2.2. 部署引擎: 自定义部署标记

\$Flag = @(



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

 $New-Item-Path "D: \OS_11_Custom \Install \Install \Mount \Yi \Engine \Deploy \Allow "-Item Type Directory-Item Type Director$ ErrorAction SilentlyContinue | Out-Null

 $Out-File - File Path "D: \OS_11_Custom \Install \Mount \Yi \Engine \Deploy \Allow \$ (\$item) "- Encoding \Allow \Allow$ utf8 -ErrorAction SilentlyContinue

部署引擎: 进阶

部署引擎:添加过程中 2.1.

在复制部署引擎后,可添加部署标记来干预安装过程。

2.2. 无人值守方案

自定义无人值守时,以下文件存在时请同步修改:



- D:\OS_11\Autounattend.xml
- D:\OS_11\Sources\Unattend.xml
- D:\OS_11\sources\\$OEM\$\\$\$\Panther\unattend.xml
- D:\OS_11_Custom\Install\Install\Mount\Panther\Unattend.xml

2.2.1. 多语言或单语

多语言时,单语时,可互相切换,替换时,请替换文件里所有相同的。

2.2.1.1. 多语言

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

2.2.1.2. 单语

单语需指定区域,例如指定区域: zh-CN

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

2.2.2. 用户方案

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

2.2.2.1. 自建用户 Administrator

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

<UserAccounts>

<LocalAccounts>

<LocalAccount wcm:action="add">



```
<Password>
      <Value></Value>
      <PlainText>true</PlainText>
     </Password>
    <Description>Administrator/Description>
     <DisplayName>Administrator</DisplayName>
     <Group>Administrators</Group>
     <Name>Administrator</Name>
   </LocalAccount>
 </LocalAccounts>
</UserAccounts>
<AutoLogon>
 <Password>
   <Value></Value>
   <PlainText>true</PlainText>
 </Password>
 <Enabled>true</Enabled>
 <us>Username>Administrator</username>
</AutoLogon>
```

2.2.2.2. 自定义用户

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

2.2.2.2.1. 删除

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

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

2.2.2.2.2. 替换

从开始处 <OOBE> 到 </OOBE>

<OOBE>

<ProtectYourPC>3</ProtectYourPC>

<HideEULAPage>true</HideEULAPage>

<HideWirelessSetupInOOBE>true</HideWirelessSetupInOOBE>

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/_Learn/Attachment/OS.11/22H2/Expand/ISO.ps1
 - 复制代码

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

$ISO = "D:\OS_11"

$Volume = "OS_11"

$SaveTo = "D:\OS_11.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)
```

III 绕过 TPM 安装检查,可选

- 1. 了解 https://github.com/AveYo/MediaCreationTool.bat/tree/main/bypass11 并下载: Quick_11_iso_esd_wim_TPM_toggle.bat
- 2. 将 D:\OS_11.iso 文件托到 Quick_11_iso_esd_wim_TPM_toggle.bat 里,反序"添加"或"删除"TPM 安装时检查功能。

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

章节2 报告

编组缩写:

- 群组 A: Windows 11 教育版、Windows 11 企业版、Windows 11 专业版、Windows 11 专业教育版、Windows 11 专业版工作站、Windows 11 loT 企业版
- 群组 B:Windows 11 教育版 N、Windows 11 企业版 N、Windows 11 专业版 N、Windows 11 专业教育版 N、Windows 11 专业版工作站 N
- 群组 C: Windows 11 家庭版、Windows 11 家庭单语版
- 群组 D: Windows 11 家庭版 N

II 不同版本

1.	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.22621.382	A, C
	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.317	
2.	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, C
	Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	
3.	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B
4.	Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	
5.	Microsoft-OneCore-ApplicationModel-Sync-Desktop-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.317	A, B, C, D
6.	Microsoft-OneCore-DirectX-Database-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
7.	Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.382	A, B, C, D
8.	Microsoft-Windows-Ethernet-Client-Intel-E1i68x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
9.	Microsoft-Windows-Ethernet-Client-Intel-E2f68-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
10.	Microsoft-Windows-Ethernet-Client-Realtek-Rtcx21x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
11.	Microsoft-Windows-Ethernet-Client-Vmware-Vmxnet3-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
12.	Microsoft-Windows-FodMetadata-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
13.	Microsoft-Windows-Foundation-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
14.	Microsoft-Windows-Hello-Face-Package~31bf3856ad364e35~amd64~~10.0.22621.317	A, B, C, D
15.	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.22621.1	A, B, C, D
	Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~en-US~11.0.22621.1	A, B, C, D
16.	Microsoft-Windows-Kernel-LA57-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382	A, B, C, D
17.	Microsoft-Windows-LanguageFeatures-Basic-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
18.	Microsoft-Windows-LanguageFeatures-Handwriting-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
19.	Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
20.	Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
21.	Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D

22.	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
23.	Microsoft-Windows -Notepad-System-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
24.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
25.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
26.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
27.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
28.	Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
29.	Microsoft-Windows-Wallpaper-Content-Extended-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
30.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmpciedhd63-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
31.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63a-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
32.	Microsoft-Windows-Wifi-Client-Broadcom-Bcmwl63al-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
33.	Microsoft-Windows-Wifi-Client-Intel-Netwbw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
34.	Microsoft-Windows-Wifi-Client-Intel-Netwew00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
35.	Microsoft-Windows-Wifi-Client-Intel-Netwew01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
36.	Microsoft-Windows-Wifi-Client-Intel-Netwlv64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
37.	Microsoft-Windows-Wifi-Client-Intel-Netwns64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
38.	Microsoft-Windows-Wifi-Client-Intel-Netwsw00-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
39.	Microsoft-Windows-Wifi-Client-Intel-Netwtw02-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
40.	Microsoft-Windows-Wifi-Client-Intel-Netwtw04-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
41.	Microsoft-Windows-Wifi-Client-Intel-Netwtw06-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
42.	Microsoft-Windows-Wifi-Client-Intel-Netwtw08-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
43.	Microsoft-Windows-Wifi-Client-Intel-Netwtw10-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
44.	Microsoft-Windows-Wifi-Client-Marvel-Mrvlpcie8897-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
45.	Microsoft-Windows-Wifi-Client-Qualcomm-Athw8x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
46.	Microsoft-Windows-Wifi-Client-Qualcomm-Athwnx-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
47.	Microsoft-Windows-Wifi-Client-Qualcomm-Qcamain10x64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
48.	Microsoft-Windows-Wifi-Client-Ralink-Netr28x-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
49.	Microsoft-Windows-Wifi-Client-Realtek-Rtl8187se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D

50.	Microsoft-Windows-Wifi-Client-Realtek-Rtl8192se-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
51.	Microsoft-Windows-Wifi-Client-Realtek-Rtl819xp-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
52.	Microsoft-Windows-Wifi-Client-Realtek-Rtl85n64-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
53.	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
54.	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane01-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
55.	Microsoft-Windows-Wifi-Client-Realtek-Rtwlane13-FOD-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
56.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.382	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621	A, B, C, D
57.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
58.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~~10.0.22621.317	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.22621.1	A, B, C, D
59.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~~10.0.22621.1	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.22621.1	A, B, C, D
60.	OpenSSH-Client-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, B, C, D
61.	Package_for_DotNetRollup_481~31bf3856ad364e35~amd64~~10.0.9065.6	A, B, C, D
62.	Package_for_RollupFix~31bf3856ad364e35~amd64~~22621.382.1.13	A, B, C, D
63.	Package_for_ServicingStack_378~31bf3856ad364e35~amd64~~22621.378.1.0	A, B, C, D
63.	Package_for_ServicingStack_378~31bf3856ad364e35~amd64~~22621.378.1.0	A, B, C, D
	Package_for_ServicingStack_378~31bf3856ad364e35~amd64~~22621.378.1.0 安装包适用于:Install.wim	A, B, C, D
		A, B, C, D
语言	安装包适用于:Install.wim	
语言	安装包适用于:Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab	
语言	安装包适用于:Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	A, C
语言	安装包适用于: Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab	A, C
语言 1. 2.	安装包适用于: Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	A, C
语言 1. 2.	安装包适用于: Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, C
语言 1. 2.	安装包适用于: Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	A, C A, C
语言 1. 2.	安装包适用于: Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~AMD64~~.cab	A, C A, C
语言 1. 2.	安装包适用于: Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~cab Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.22621.1	A, C A, B A, B, C, D
语言 1. 2.	安装包适用于: Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~cab Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab	A, C A, B A, B, C, D
语言 1. 2. 4.	安装包适用于: Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package-31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~cab Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.22621.1 Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab	A, C A, C A, B A, B, C, D
语言 1. 2. 4.	安装包适用于: Install.wim Microsoft-Windows-MediaPlayer-Package-AMD64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package-31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-MediaPlayer-Package-wow64-zh-CN.cab Microsoft-Windows-MediaPlayer-Package-31bf3856ad364e35~wow64~zh-CN~10.0.22621.1 Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab Microsoft-Windows-Printing-PMCPPC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~cab Microsoft-Windows-Client-Language-Pack_x64_zh-CN.cab Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1 Microsoft-Windows-Client-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	A, C A, C A, B A, B, C, D

Ш

8.	Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
9.	Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
10.	Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
11.	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B, C, D
	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.22621.1	
12.	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
13.	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-Notepad-System-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
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~10.0.22621.1	
15.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
16.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
17.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
18.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
19.	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WMIC-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	
20.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~AMD64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1	
21.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B, C, D
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.22621.1	

IV 语言安装包适用于: WinRE.wim

1. WinPE-FontSupport-zh-CN.cab

 $Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim \sim 10.0.22621.1$

2. lp.cab

 $Microsoft-Windows-WinPE-Language Pack-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

3. winpe-appxdeployment_zh-CN.cab

WinPE-AppxDeployment-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

4. winpe-appxpackaging_zh-CN.cab

WinPE-AppxPackaging-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

5. winpe-atbroker_zh-CN.cab

WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

6. winpe-audiocore_zh-CN.cab

WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

7. winpe-audiodrivers_zh-CN.cab

WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

8. winpe-enhancedstorage_zh-CN.cab

WinPE-EnhancedStorage-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

9. winpe-hta_zh-CN.cab

WinPE-HTA-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

10. winpe-narrator_zh-CN.cab

WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

11. winpe-opcservices_zh-CN.cab

WinPE-OpcServices-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

12. winpe-rejuv_zh-CN.cab

 $Win PE-Rejuv-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

13. winpe-scripting_zh-CN.cab

 $Win PE-Scripting-Package \sim 31bf3856ad364e35 \sim amd64 \sim zh-CN \sim 10.0.22621.1$

14. winpe-securestartup_zh-CN.cab

 $Win PE-Secure Startup-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

15. winpe-speech-tts_zh-CN.cab

 $Win PE-Speech-TTS-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

16. winpe-srh_zh-CN.cab

 $Win PE-SRH-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

17. winpe-srt_zh-CN.cab

 $Win PE-SRT-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

18. winpe-storagewmi_zh-CN.cab

 $Win PE-Storage WMI-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

19. winpe-wds-tools_zh-CN.cab

 $Win PE-WDS-Tools-Package {\footnotesize \sim} 31 bf 3856 ad 364 e 35 {\footnotesize \sim} amd 64 {\footnotesize \sim} zh-CN {\footnotesize \sim} 10.0.22621.1$

20. winpe-wifi_zh-CN.cab

WinPE-WiFi-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

21. winpe-windowsupdate_zh-CN.cab

 $Win PE-Windows Update-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

22. winpe-wmi_zh-CN.cab

WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

V 语言安装包适用于: Boot.wim

1. WinPE-FontSupport-zh-CN.cab

 $Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package \sim 31 bf 3856 ad 364 e 35 \sim amd 64 \sim \sim 10.0.22621.1$

2. lp.cab

Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

3. winpe-atbroker_zh-CN.cab

WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

4. winpe-audiocore_zh-CN.cab

WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

5. winpe-audiodrivers_zh-CN.cab

WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

6. winpe-enhancedstorage_zh-CN.cab

 $Win PE-Enhanced Storage-Package \sim 31bf 3856 ad 364e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

7. winpe-narrator_zh-CN.cab

 $Win PE-Narrator-Package \sim 31bf 3856 ad 364 e 35 \sim amd 64 \sim zh-CN \sim 10.0.22621.1$

8. winpe-scripting_zh-CN.cab

WinPE-Scripting-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

9. winpe-securestartup_zh-CN.cab

WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

10. WINPE-SETUP-CLIENT_zh-CN.CAB

11. WinPE-Setup_zh-CN.cab

WinPE-Setup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

12. winpe-speech-tts_zh-CN.cab

WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

13. winpe-srh_zh-CN.cab

WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

14. winpe-srt_zh-CN.cab

WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

15. winpe-wds-tools_zh-CN.cab

WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

16. winpe-wmi_zh-CN.cab

WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.22621.1

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。

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

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

Dismount-WindowsImage -Path "D:\OS_11_Custom\Boot\Boot\Mount" -Discard

III 修复挂载出现异常的问题

1. 查看已挂载

Get-WindowsImage -Mounted

2. 删除保存在注册表里的 DISM 挂载记录

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

3. 删除与已损坏的已装载映像关联的所有资源。

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

Dism /cleanup-wim

Ⅳ 清理目录

Remove-Item "D:\OS_11_Custom" -Force -Recurse

 $Remove-Item "D:\OS_11\Sources\`\SOEM\$" - Force - Recurse$

 $Remove-Item\ -Path\ "D:\OS_11\Sources\Unattend.xml"\ -Force$

章节4 已知问题

暂无



作者: Yi

网站: https://fengyi.tel

邮箱: 775159955@qq.com, ilikeyi@outlook.com

文档版本: 1.0

文档模型: 完整版

更新日期: 2024 - 4

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