

封装教程: MICROSOFT WINDOWS SERVER 2022

不同的系统版本，有着不同的封装方式，封装过程中包含：“语言包：添加、关联、删除”、“驱动：添加、删除”、“累积更新：添加、删除”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



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A. 先决条件

II ISO 工具

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

III 要求

学习“[附件 1：获取 Windows 安装包](#)”，查看“Windows Server 2022”项。

1. 系统安装包

- 1.1. 准备：[en-us_windows_server_2022_x64_dvd_620d7eac.iso](#)
- 1.2. 解压到：[D:\en-us_windows_server_2022_x64_dvd_620d7eac](#)
- 1.3. 解压完成后，将目录 [en-us_windows_11_business_editions_version_22h2_x64_dvd_17a08c](#) 更改为 [D:\OS_2022](#)
- 1.4. 所有脚本、所有路径，已默认设置为 [D:\OS_2022](#) 为映像来源。

2. 语言包

2.1. 学习

阅读时，请了解“蓝色”重要突出部分。

2.1.1. [将语言添加到 Windows 11 映像](#)

2.1.2. [语言和区域按需功能 \(FOD\)](#)

2.1.2.1. 字体

- 添加语言包时，触发了对应的区域时，需添加所需的字体功能，下载“[所有可用语言 FOD 的列表](#)”了解更多。
- 在“[语言包：提取](#)”时，已加入自动识别功能，可了解函数：[Function Match_Required_Fonts](#)

2.1.2.2. 区域关联

区域关联是什么？

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

- 可参阅微软官方原版：Windows 10、Windows 11 繁体版。

已知区域关联：

2.1.2.2.1. 区域：zh-TW，可选关联区域：zh-HK

2.2. 语言包：下载

[20348.1.210507-1500.fe_release_amd64fre_SERVER_LOF_PACKAGES_OEM.iso](#)

IV 命令行

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” ， 建议设置 PowerShell 执行策略：绕过， PS 命令行：

`Set-ExecutionPolicy -ExecutionPolicy Bypass -Force`
3. 在本文中， PS 命令行， 绿色部分， 请复制后， 粘贴到 “Terminal” 对话框， 按回车键（Enter）后开始运行；
4. 有 .ps1 时， 点击文件右键， 选择以 PowerShell 运行， 或复制路径， 粘贴到 Terminal 里运行。

B. 语言包：提取

II 语言包：准备

挂载 [20348.1.210507-1500.fe_release_amd64fre_SERVER_LOF_PACKAGES_OEM.iso](#) 或解压到任意位置；

III 语言包：提取方案

1. 添加

1.1. 语言名称：简体中文 - 中国， 区域：zh-CN， 适用范围：Install.Wim， Boot.Wim， WinRE.Wim
2. 删除

2.1. 语言名称：英语 - 美国， 区域：en-US， 适用范围：Install.Wim， Boot.Wim， WinRE.Wim

IV 执行提取命令

- Auto = 自动搜索本地所有磁盘， 默认；

- 自定义路径，例如指定为 E 盘：\$ISO = "E:\"

- Extract.ps1

- [\Expand\Extract.ps1](#)

- https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Extract.ps1

- 复制代码

```
$ISO = "Auto"

$SaveTo = "D:\OS_2022_Custom"

$Extract_language_Pack = @(

    @{ Tag = "zh-CN"; Act = "Add"; Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot" ) }

    @{ Tag = "en-US"; Act = "Del"; Scope = @( "Install\Install"; "Install\WinRE"; "Boot\Boot" ) }

)

Function Extract_Language

{

    param( $Act, $NewLang, $Expand )

    Function Match_Required_Fonts

    {

        param( $Lang )

        $Fonts = @(

            @{ Match = @("as", "ar-SA", "ar", "ar-AE", "ar-BH", "ar-DJ", "ar-DZ", "ar-EG", "ar-ER", "ar-IL", "ar-IQ", "ar-JO", "ar-KM", "ar-KW", "ar-LB", "ar-LY", "ar-MA", "ar-MR", "ar-OM", "ar-PS", "ar-QA", "ar-SD", "ar-SO", "ar-SS", "ar-SY", "ar-TD", "ar-TN", "ar-YE", "arz-Arab", "ckb-Arab", "fa", "fa-AF", "fa-IR", "glk-Arab", "ha-Arab", "ks-Arab", "ks-Arab-IN", "ku-Arab", "ku-Arab-IQ", "mzn-Arab", "pa-Arab", "pa-Arab-PK", "pnb-Arab", "prs", "prs-AF", "prs-Arab", "ps", "ps-AF", "sd-Arab", "sd-Arab-PK", "tk-Arab", "ug", "ug-Arab", "ug-CN", "ur", "ur-IN", "ur-PK", "uz-Arab", "uz-Arab-AF"); Name = "Arab"; }

            @{ Match = @("bn-IN", "as-IN", "bn", "bn-BD", "bpy-Beng"); Name = "Beng"; }

            @{ Match = @("da-dk", "iu-Cans", "iu-Cans-CA"); Name = "Cans"; }

            @{ Match = @("chr-Cher-US", "chr-Cher"); Name = "Cher"; }

            @{ Match = @("hi-IN", "bh-Deva", "brx", "brx-Deva", "brx-IN", "hi", "ks-Deva", "mai", "mr", "mr-IN", "ne", "ne-IN", "ne-NP", "new-Deva", "pi-Deva", "sa", "sa-Deva", "sa-IN"); Name = "Deva"; }

            @{ Match = @("am", "am-ET", "byn", "byn-ER", "byn-Ethi", "ti", "ti-ER", "ti-ET", "tig", "tig-ER", "tig-Ethi", "ve-Ethi", "wal", "wal-ET", "wal-Ethi"); Name = "Ethi"; }

            @{ Match = @("gu", "gu-IN"); Name = "Gujr"; }

            @{ Match = @("pa", "pa-IN", "pa-Guru"); Name = "Guru"; }

            @{ Match = @("zh-CN", "cmn-Hans", "gan-Hans", "hak-Hans", "wuu-Hans", "yue-Hans", "zh-gan-Hans", "zh-hak-Hans", "zh-Hans", "zh-SG", "zh-wuu-Hans", "zh-yue-Hans"); Name = "Hans"; }

            @{ Match = @("zh-TW", "cmn-Hant", "hak-Hant", "lzh-Hant", "zh-hak-Hant", "zh-Hant", "zh-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 )

    $NewSaveTo = "$($SaveTo)\$($NewSaveTo)\Language\$($Act)\$($NewLang)"

    New-Item -Path $NewSaveTo -ItemType Directory -ErrorAction SilentlyContinue | Out-Null

    if ($ISO -eq "Auto") {

        Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {

            ForEach ($item in $Package) {

                $TempFilePath = Join-Path -Path $_.Root -ChildPath $item -ErrorAction SilentlyContinue

                if (Test-Path $TempFilePath -PathType Leaf) {

                    Write-host "`n Find: " -NoNewLine; Write-host $TempFilePath -ForegroundColor Green

                    Write-host " Copy to: " -NoNewLine; Write-host $NewSaveTo

                    Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force

                }

            }

        }

    }

}

```

```

    }

} else {

    ForEach ($item in $Package) {

        $TempFilePath = Join-Path -Path $ISO -ChildPath $item -ErrorAction SilentlyContinue

        Write-host "`n  Find: " -NoNewLine; Write-host $TempFilePath -ForegroundColor Green

        if (Test-Path $TempFilePath -PathType Leaf) {

            Write-host "    Copy to: " -NoNewLine; Write-host $NewSaveTo

            Copy-Item -Path $TempFilePath -Destination $NewSaveTo -Force

        } else {

            Write-host "    Not found"

        }

    }

}

Write-host "`n  Verify the 语言包 file"

ForEach ($item in $Package) {

    $Path = "($NewSaveTo)\${[IO.Path]::GetFileName($item)}"

    if (Test-Path $Path -PathType Leaf) {

        Write-host "    Discover: " -NoNewLine; Write-host $Path -ForegroundColor Green

    } else {

        Write-host "    Not found: " -NoNewLine; Write-host $Path -ForegroundColor Red

    }

}

}

$AdvLanguage = @(

    @(

        Path = "Install\Install"

        Rule = @(

            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Fonts-{DiyLang}-
Package~31bf3856ad364e35~amd64~~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-Server-Language-Pack_x64_{Lang}.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Basic-{Lang}-Package~31bf3856ad364e35~amd64~~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Handwriting-{Lang}-
Package~31bf3856ad364e35~amd64~~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-OCR-{Lang}-Package~31bf3856ad364e35~amd64~~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Speech-{Lang}-Package~31bf3856ad364e35~amd64~~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-TextToSpeech-{Lang}-
Package~31bf3856ad364e35~amd64~~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~{Lang}~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~{Lang}~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~{Lang}~.cab"

            "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"

```

```

"LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~{Lang}~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~{Lang}~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~{Lang}~.cab"

"LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~{Lang}~.cab"

)

}

@{

    Path = "Install\WinRE"

    Rule = @(

        "Windows Preinstallation Environment\x64\WinPE_OC\WinPE-FontSupport-{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\lp.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-securestartup_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-atbroker_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-audiocore_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-audiodrivers_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-enhancedstorage_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-narrator_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-scripting_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-speech-tts_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-srh_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-srt_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-wds-tools_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-wmi_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-appxpackaging_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-storagewmi_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-wifi_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-rejuv_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-opcservices_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-hta_{Lang}.cab"

    )

}

@{

    Path = "Boot\Boot"

    Rule = @(

        "Windows Preinstallation Environment\x64\WinPE_OC\WinPE-FontSupport-{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\lp.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\WinPE-Setup_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\WINPE-SETUP-Server_{Lang}.CAB"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-securestartup_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-atbroker_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-audiocore_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-audiodrivers_{Lang}.cab"

        "Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-enhancedstorage_{Lang}.cab"

```

```

"Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-narrator_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-scripting_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-speech-tts_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-srh_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-srt_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-wds-tools_{Lang}.cab"

"Windows Preinstallation Environment\x64\WinPE_OC\{Lang}\winpe-wmi_{Lang}.cab"

)

}

)

$NewFonts = Match_Required_Fonts -Lang $NewLang

$SpecificPackage = Match_Other_Region_Specific_Requirements -Lang $NewLang

Foreach ($item in $Expand) {

    $Language = @()

    Foreach ($itemList in $AdvLanguage) {

        if ($itemList.Path -eq $item) {

            Foreach ($PrintLang in $itemList.Rule) {

                $Language += "$($PrintLang)".Replace("{Lang}", $NewLang).Replace("{DiyLang}", $NewFonts).Replace("{Specific}",
$SpecificPackage)

            }

            Extract_Process -NewSaveTo $itemList.Path -Package $Language -Name $item

        }

    }

}

}

}

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

```

C. 自定义部署映像

II 自定义部署映像：Install.wim

1. 查看 Install.wim 详细信息

映像名称、映像描述、映像大小、架构、版本、索引号等；

```
$ViewFile = "D:\OS_2022\Sources\Install.wim"
```

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

循环操作区域，开始，

2. 指定挂载 Install.wim 路径

```
New-Item -Path "D:\OS_2022_Custom\Install\Install\Mount" -ItemType directory -ea SilentlyContinue
```

3. 开始挂载 Install.wim

默认索引号：1

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

处理 Install.wim 映像内的文件，可选项，开始，

- 自定义部署映像：WinRE.wim

注意：

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

3..1. 查看 WinRE.wim 详细信息

映像名称、映像描述、映像大小、架构、版本、索引号等；

```
$ViewFile = "D:\OS_2022_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"
```

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

3..2. 指定挂载 WinRE.wim 路径

```
New-Item -Path "D:\OS_2022_Custom\Install\WinRE\Mount" -ItemType directory -ea SilentlyContinue
```

3..3. 开始挂载 WinRE.wim

默认索引号：1

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

3..4. 语言包

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

3..4.1. 语言包：添加

- WinRE.Instl.lang.ps1
 - [\Expand\Install\WinRE\WinRE.Instl.lang.ps1](#)
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install/WinRE/WinRE.Instl.lang.ps1
- 复制代码

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

$Sources = "D:\OS_2022_Custom\Install\WinRE\Language\Add\zh-CN"

$Initl_install_Language_Component = @()

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

    $Initl_install_Language_Component += $_.PackageName

}

Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"

$Language_List = @(

    @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }

    @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }

    @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }

    @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }

    @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }

    @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }

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

    @{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }

    @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }

    @{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }

    @{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }

    @{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }

    @{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }

    @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_zh-CN.cab"; }

    @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_zh-CN.cab"; }

    @{ Match = "*WiFi*"; File = "winpe-wifi_zh-CN.cab"; }

    @{ Match = "*rejuv*"; File = "winpe-rejuv_zh-CN.cab"; }

    @{ Match = "*opcservices*"; File = "winpe-opcservices_zh-CN.cab"; }

    @{ Match = "*hta*"; File = "winpe-hta_zh-CN.cab"; }

)

ForEach ($Rule in $Language_List) {

    Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host " $($('-' * 80))"

    ForEach ($Component in $Initl_install_Language_Component) {

        if ($Component -like "$($Rule.Match)*") {

            Write-host " Component name: " -NoNewline

            Write-host $Component -ForegroundColor Green

            Write-host " 语言包 file: " -NoNewline

            Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green

        }

    }

}
```

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

try {

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

    Write-host "Finish" -ForegroundColor Green

} catch {

    Write-host "Failed" -ForegroundColor Red

}

break

}

}
```

3..4.2. 脱机映像语言：更改

3..4.2.1. 更改默认语言、区域设置和其他国际设置

区域：zh-CN

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

3..4.2.2. 查看可用的语言设置

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

3..4.3. 语言包：删除，可选

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

- 添加中文后，反向删除 “英语 - 美国” ， 区域：en-US，需提前提取语言包

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

- 复制代码

```
$Lang = "en-US"

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

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

$Initl_install_Language_Component = @()

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

    $Initl_install_Language_Component += $_.PackageName
```

```

}

$Language = @(

    @{ Match = "*windowsupdate*"; File = "winpe-windowsupdate_$(Lang).cab"; }

    @{ Match = "*appxdeployment*"; File = "winpe-appxdeployment_$(Lang).cab"; }

    @{ Match = "*hta*"; File = "winpe-hta_$(Lang).cab"; }

    @{ Match = "*opcservices*"; File = "winpe-opcservices_$(Lang).cab"; }

    @{ Match = "*rejuv*"; File = "winpe-rejuv_$(Lang).cab"; }

    @{ Match = "*WiFi*"; File = "winpe-wifi_$(Lang).cab"; }

    @{ Match = "*StorageWMI*"; File = "winpe-storagewmi_$(Lang).cab"; }

    @{ Match = "*WinPE-AppxPackaging*"; File = "winpe-appxpackaging_$(Lang).cab"; }

    @{ Match = "*-WMI-Package*"; File = "winpe-wmi_$(Lang).cab"; }

    @{ Match = "*wds-tools*"; File = "winpe-wds-tools_$(Lang).cab"; }

    @{ Match = "*srt*"; File = "winpe-srt_$(Lang).cab"; }

    @{ Match = "*srh*"; File = "winpe-srh_$(Lang).cab"; }

    @{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_$(Lang).cab"; }

    @{ Match = "*scripting*"; File = "winpe-scripting_$(Lang).cab"; }

    @{ Match = "*Narrator*"; File = "winpe-narrator_$(Lang).cab"; }

    @{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_$(Lang).cab"; }

    @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_$(Lang).cab"; }

    @{ Match = "*AudioCore*"; File = "winpe-audiocore_$(Lang).cab"; }

    @{ Match = "*ATBroker*"; File = "winpe-atbroker_$(Lang).cab"; }

    @{ Match = "*SecureStartup*"; File = "winpe-securestartup_$(Lang).cab"; }

    @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }

)

ForEach ($Rule in $Language) {

    Write-host "`n  Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "  $('-' * 80)"

    ForEach ($Component in $Initl_install_Language_Component) {

        if ($Component -like "*$(Rule.Match)*$(Lang)*") {

            Write-host "  Component name: " -NoNewline

            Write-host $Component -ForegroundColor Green

            Write-host "  语言包 file: " -NoNewline

            Write-host "$($Sources)\$(Rule.File)" -ForegroundColor Green

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

            try {

                Remove-WindowsPackage -Path $Mount -PackagePath "$($Sources)\$(Rule.File)" -

ErrorAction SilentlyContinue | Out-Null

                Write-host "Finish" -ForegroundColor Green

            } catch {

                Write-host "Failed" -ForegroundColor Red

                Write-host "  $_" -ForegroundColor Red

            }

            break

        }

    }

}

```



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

3..4.4. 组件：映像中已安装的所有包

3..4.4.1. 查看

```
Get-WindowsPackage -Path "D:\OS_2022_Custom\Install\WinRE\Mount" | Out-GridView
```

3..4.4.2. 导出到 Csv

```
$SaveTo = "D:\OS_2022_Custom\Install\WinRE\Report.$(Get-Date -Format  
"yyyyMMddHHmmss").csv"  
  
Get-WindowsPackage -Path "D:\OS_2022_Custom\Install\WinRE\Mount" | Export-CSV  
-NoType -Path $SaveTo  
  
Write-host $SaveTo -ForegroundColor Green
```

3..5. 累积更新，可选

准备可用的累积更新文件，请更改示例文件名： KB_WinRE.cab

3..5.1. 添加

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

```
Add-WindowsPackage -Path "D:\OS_2022_Custom\Install\WinRE\Mount" -PackagePath $KBPath
```

3..5.2. 删除

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

```
Remove-WindowsPackage -Path "D:\OS_2022_Custom\Install\WinRE\Mount" -PackagePath $KBPath
```

3..5.3. 固化更新，可选项

固化后不可卸载，固化时将清理恢复映像并重置任何被取代的组件的基础。

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

3..5.3.1. 固化更新后清理组件，可选项

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

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

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

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

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

    }

}
```

3..6. 驱动，可选

3..7. 保存映像

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

3..8. 卸载映像

关闭所有可能正在访问映像中文件的应用程序，包括文件资源管理器。

```
Dismount-WindowsImage -Path "D:\OS_2022_Custom\Install\WinRE\Mount" -Discard
```

3..9. 重建 WinRE.wim 后，可缩小文件大小

- WinRE.Rebuild.ps1
 - [\Expand\Install\WinRE\WinRE.Rebuild.ps1](#)
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install/WinRE/WinRE.Rebuild.ps1

- 复制代码

```
$FileName = "D:\OS_2022_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"

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

    Write-Host "  Image name: " -NoNewline

    Write-Host $_.ImageName -ForegroundColor Yellow

    Write-Host "  The index number: " -NoNewline

    Write-Host $_.ImageIndex -ForegroundColor Yellow

    Write-Host "`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..10. 备份 WinRE.wim

- WinRE.Backup.ps1
 - [\Expand\Install\WinRE\WinRE.Backup.ps1](#)
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install/WinRE/WinRE.Backup.ps1
- 复制代码

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

$FileName = "D:\OS_2022_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"

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

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

3..11. 替换 Install.wim 映像内的 WinRE.wim

- 每次挂载 Install.wim 后 “[替换 WinRE.wim](#)” ；
- 学习 “[获取 Install.wim 所有索引号后并替换旧的 WinRE.wim](#)” 。

[处理 Install.wim 映像内的文件，结束。](#)

4. 语言包

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

- 语言包：添加

- Install.Instl.lang.ps1
 - [\Expand\Install\Install.Instl.lang.ps1](#)
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install/Install.Instl.lang.ps1

- 复制代码

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

$Sources = "D:\OS_2022_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 = "*Server-LanguagePack-Package*"; File = "Microsoft-Windows-Server-Language-Pack_x64_zh-CN.cab"; }

    @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }

    @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }

    @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }

    @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }

    @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }

    @{ Match = "*MSPaint*amd64*"; File = "Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }

    @{ Match = "*MSPaint*wow64*"; File = "Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }

    @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }

    @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }

    @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~zh-CN~.cab"; }

    @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }

    @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
```

```
Package~31bf3856ad364e35~amd64~zh-CN~.cab"; }

    @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~wow64~zh-CN~.cab"; }

    @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }

    @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }

    @{ Match = "*Client*LanguagePack*zh-TW*"; File = "Microsoft-Windows-InternationalFeatures-Taiwan-
Package~31bf3856ad364e35~amd64~~.cab"; }

)

ForEach ($Rule in $Language_List) {

    Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "  $('-' * 80)"

    ForEach ($Component in $InitL_install_Language_Component) {

        if ($Component -like "*$($Rule.Match)*") {

            Write-host "  Component name: " -NoNewline

            Write-host $Component -ForegroundColor Green

            Write-host "  语言包 file: " -NoNewline

            Write-host "$($Sources)\ $($Rule.File)" -ForegroundColor Green

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

            try {

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

                Write-host "Finish" -ForegroundColor Green

                break

            } catch {

                Write-host "Failed" -ForegroundColor Red

            }

        }

    }

}

}
```

- 脱机映像语言：更改

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

4..1. 更改默认语言、区域设置和其他国际设置

区域：zh-CN

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

4..2. 查看可用的语言设置

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

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

```
$Lang = "en-US"

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

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

$Initl_install_Language_Component = @()

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

    $Initl_install_Language_Component += $_.PackageName

}

$Language = @(

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

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

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

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

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

    @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~$( $Lang)~.cab"; }

    @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~$( $Lang)~.cab"; }

    @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~$( $Lang)~.cab"; }

    @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~$( $Lang)~.cab"; }

    @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-$( $Lang).cab"; }

    @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-$( $Lang).cab"; }
```

```

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

        @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~$(Lang)~.cab"; }

        @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~$(Lang)~.cab"; }

        @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-$(Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }

        @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-$(Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }

        @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-$(Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }

        @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-$(Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }

        @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-$(Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }

        @{ Match = "*Client-LanguagePack-Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_$(Lang).cab"; }
    )

    ForEach ($Rule in $Language) {

        Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "  $('-' * 80)"

        ForEach ($Component in $Initl_install_Language_Component) {

            if ($Component -like "*$($Rule.Match)*$(Lang)*") {

                Write-host "  Component name: " -NoNewline

                Write-host $Component -ForegroundColor Green

                Write-host "  语言包 file: " -NoNewline

                Write-host "$($Sources)\$($Rule.File)" -ForegroundColor Green

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

                try {

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

                    Write-host "Finish" -ForegroundColor Green

                } catch {

                    Write-host "Failed" -ForegroundColor Red

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

                }

                break

            }

        }

    }

}

$InitlClearLanguagePackage = @()

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

    if ($_.PackageName -like "*$(Lang)*") {

        $InitlClearLanguagePackage += $_.PackageName

    }

}

}

```

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

- 组件：映像中已安装的所有包

4..1. 查看

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

4..2. 导出到 Csv

```
$SaveTo = "D:\OS_2022_Custom\Install\Install\Report.${(Get-Date -Format "yyyyMMddHHmmss")}.csv"  
  
Get-WindowsPackage -Path "D:\OS_2022_Custom\Install\Install\Mount" | Export-CSV -NoType -Path $SaveTo  
  
Write-host $SaveTo -ForegroundColor Green
```

5. 累积更新，可选项

- 下载

查阅 “[Windows Server 2022 更新历史](#)” ， 例如安装累积更新： [KB5030216](#)

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

[D:\OS_2022_Custom\Install\Install\Update\windows10.0-kb5030216-x64_cbe587155f9818548b75f65d5cd41d341ed2fc61.msu](#)

- 添加

```
$KBPath = "D:\OS_2022_Custom\Install\Install\Update\windows10.0-kb5030216-x64_cbe587155f9818548b75f65d5cd41d341ed2fc61.msu"  
  
Add-WindowsPackage -Path "D:\OS_2022_Custom\Install\Install\Mount" -PackagePath $KBPath
```


- 固化更新，可选项

固化后不可卸载，固化时将清理恢复映像并重置任何被取代的组件的基础。

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

5..1. 固化更新后清理组件，可选项

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

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

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

        Write-Host "  ${_.PackageName}" -ForegroundColor Green

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

    }

}
```

6. 驱动，可选

7. 添加部署引擎，可选

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

8. 健康

保存前应检查是否损坏，健康状态异常时，中止保存

```
Repair-WindowsImage -Path "D:\OS_2022_Custom\Install\Install\Mount" -ScanHealth
```

9. 替换 WinRE.wim

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

```
$WinRE = "D:\OS_2022_Custom\Install\Install\Update\Winlib\WinRE.wim"
```

```
$CopyTo = "D:\OS_2022_Custom\Install\Install\Mount\Windows\System32\Recovery"
```

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

10. 保存映像

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

11. 卸载映像

关闭所有可能正在访问映像中文件的应用程序，包括文件资源管理器。

```
Dismount-WindowsImage -Path "D:\OS_2022_Custom\Install\Install\Mount" -Discard
```

循环操作区域，结束。

12. 重建 Install.wim 后可缩小文件大小

- Install.Rebuild.wim.ps1
 - [\Expand\Install\Install.Rebuild.wim.ps1](#)
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install/Install.Rebuild.wim.ps1

- 复制代码

```
$InstallWim = "D:\OS_2022\sources\install.wim"

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

    Write-Host "  Image name: " -NoNewline

    Write-Host $_.ImageName -ForegroundColor Yellow

    Write-Host "  The index number: " -NoNewline

    Write-Host $_.ImageIndex -ForegroundColor Yellow

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

    Export-WindowsImage -SourceImagePath $InstallWim -SourceIndex $_.ImageIndex -DestinationImagePath "$($InstallWim).New" -
    CompressionType max | Out-Null

    Write-Host "Finish`n" -ForegroundColor Green

}

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

    Remove-Item -Path $InstallWim

    Move-Item -Path "$($InstallWim).New" -Destination $InstallWim

    Write-Host "Finish" -ForegroundColor Green

} else {

    Write-host "Failed" -ForegroundColor Red

}
```

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

- 获取 WimLib

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

- 如何在 Install.wim 里提取和更新 WinRE.wim

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

- Install.WinRE.Extract.ps1
 - [\Expand\Install\Install.WinRE.Extract.ps1](#)
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install/Install.WinRE.Extract.ps1

- 复制代码

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

New-Item -Path "D:\OS_2022_Custom\Install\Install\Update\Winlib" -ItemType Directory -ea SilentlyContinue

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

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

- Install.WinRE.Replace.wim.ps1
 - [\Expand\Install\Install.WinRE.Replace.wim.ps1](#)
 - [https://github.com/ilikeyi/sources/blob/main/_Documents/Attachment/OS.2022/Expand/Install/Install.WinRE.Replace.wim.ps1](https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Install/Install.WinRE.Replace.wim.ps1)

- 复制代码

```
Get-WindowsImage -ImagePath "D:\OS_2022\sources\install.wim" -ErrorAction SilentlyContinue | ForEach-Object {
    Write-Host "  Image name: " -NoNewline; Write-Host $_.ImageName -ForegroundColor Yellow

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

    Write-Host "`n  Replacement "

    $Arguments = @(
        "update",
        "D:\OS_2022\sources\install.wim", $_.ImageIndex,
        "--command=""add 'D:\OS_2022_Custom\Install\Install\Update\Winlib\WinRE.wim'
        '\Windows\System32\Recovery\WinRe.wim'""
    )

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

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

III 自定义部署映像：boot.wim

1. 查看 Boot.wim 文件信息

映像名称、映像描述、映像大小、架构、版本、索引号等；

```
$ViewFile = "D:\OS_2022\Sources\Boot.wim"
```

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

2. 指定挂载 Boot.wim 路径

```
New-Item -Path "D:\OS_2022_Custom\Boot\Boot\Mount" -ItemType directory -ea SilentlyContinue
```

3. 开始挂载 Boot.wim

默认索引号：2

```
Mount-WindowsImage -ImagePath "D:\OS_2022\sources\boot.wim" -Index "2" -Path "D:\OS_2022_Custom\Boot\Boot\Mount"
```

4. 语言包

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

4.1. 语言包：添加

- Boot.Instl.lang.ps1
 - [\Expand\Boot\Boot.Instl.lang.ps1](#)
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Boot/Boot.Instl.lang.ps1

- 复制代码

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

$Sources = "D:\OS_2022_Custom\Boot\Boot\Language\Add\zh-CN"

$Initl_install_Language_Component = @()

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

    $Initl_install_Language_Component += $_.PackageName

}

Add-WindowsPackage -Path $Mount -PackagePath "$($Sources)\WinPE-FontSupport-zh-CN.cab"

$Language = @(

    @{ Match = "*WinPE*Setup*Server_zh*Package*"; File = "WINPE-SETUP-Server_zh-CN.CAB"; }

    @{ Match = "*WinPE*Setup*Package*"; File = "WinPE-Setup_zh-CN.cab"; }

    @{ Match = "*WinPE-LanguagePack-Package*"; File = "lp.cab"; }

    @{ Match = "*SecureStartup*"; File = "winpe-securestartup_zh-CN.cab"; }

    @{ Match = "*ATBroker*"; File = "winpe-atbroker_zh-CN.cab"; }

    @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }

    @{ Match = "*AudioDrivers*"; File = "winpe-audiodrivers_zh-CN.cab"; }
```

```

@{ Match = "*EnhancedStorage*"; File = "winpe-enhancedstorage_zh-CN.cab"; }

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

@{ Match = "*scripting*"; File = "winpe-scripting_zh-CN.cab"; }

@{ Match = "*Speech-TTS*"; File = "winpe-speech-tts_zh-CN.cab"; }

@{ Match = "*srh*"; File = "winpe-srh_zh-CN.cab"; }

@{ Match = "*srt*"; File = "winpe-srt_zh-CN.cab"; }

@{ Match = "*wds-tools*"; File = "winpe-wds-tools_zh-CN.cab"; }

@{ Match = "*-WMI-Package*"; File = "winpe-wmi_zh-CN.cab"; }

)

ForEach ($Rule in $Language) {

    Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "  $('-' * 80)"

    ForEach ($Component in $Initl_install_Language_Component) {

        if ($Component -like "*$($Rule.Match)*") {

            Write-host "  Component name: " -NoNewline

            Write-host $Component -ForegroundColor Green

            Write-host "  语言包 file: " -NoNewline

            Write-host "$($Sources)\ $($Rule.File)" -ForegroundColor Green

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

            try {

                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：zh-CN

```
Dism /Image:"D:\OS_2022_Custom\Boot\Boot\Mount" /Set-AllIntl:zh-CN
```

4.2.2. 查看可用的语言设置

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

4.3. 语言包：删除，可选

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

- Boot.Del.Specified.lang.Tag.ps1
 - \Expand\Boot\Boot.Del.Specified.lang.Tag.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/Boot/Boot/Boot.Del.Specified.lang.Tag.ps1

- 复制代码

```
$Lang = "en-US"

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

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

$Initl_install_Language_Component = @()

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

    $Initl_install_Language_Component += $_.PackageName

}

$Language = @(

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

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

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

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

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

    @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-
Package~31bf3856ad364e35~amd64~$( $Lang)~.cab"; }

    @{ Match = "*Printing*PMCPPC*amd64*"; File = "Microsoft-Windows-Printing-PMCPPC-FoD-
Package~31bf3856ad364e35~AMD64~$( $Lang)~.cab"; }

    @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~wow64~$( $Lang)~.cab"; }

    @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-
Package~31bf3856ad364e35~amd64~$( $Lang)~.cab"; }

    @{ Match = "*MediaPlayer*wow64*"; File = "Microsoft-Windows-MediaPlayer-Package-wow64-$( $Lang).cab"; }

    @{ Match = "*MediaPlayer*amd64*"; File = "Microsoft-Windows-MediaPlayer-Package-AMD64-$( $Lang).cab"; }

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

    @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-System-FoD-
Package~31bf3856ad364e35~AMD64~$( $Lang)~.cab"; }

    @{ Match = "*InternetExplorer*"; File = "Microsoft-Windows-InternetExplorer-Optional-
Package~31bf3856ad364e35~AMD64~$( $Lang)~.cab"; }
```

```

        @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-$(Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }

        @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-$(Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }

        @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-$(Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }

        @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-$(Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }

        @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-$(Lang)-
Package~31bf3856ad364e35~amd64~~.cab"; }

        @{ Match = "*Client-LanguagePack-Package*"; File = "Microsoft-Windows-Client-Language-Pack_x64_$(Lang).cab"; }

        @{ Match = "*Fonts-Hans*"; File = "Microsoft-Windows-LanguageFeatures-Fonts-Hans-
Package~31bf3856ad364e35~amd64~~.cab"; }

    )

    ForEach ($Rule in $Language) {

        Write-host "`n Rule name: $($Rule.Match)" -ForegroundColor Yellow; Write-host "  $('-' * 80)"

        ForEach ($Component in $Initl_install_Language_Component) {

            if ($Component -like "*$(Rule.Match)*$(Lang)*") {

                Write-host "  Component name: " -NoNewline

                Write-host $Component -ForegroundColor Green

                Write-host "  语言包 file: " -NoNewline

                Write-host "$($Sources)\$(Rule.File)" -ForegroundColor Green

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

                try {

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

                    Write-host "Finish" -ForegroundColor Green

                } catch {

                    Write-host "Failed" -ForegroundColor Red

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

                }

                break

            }

        }

    }

    $InitlClearLanguagePackage = @()

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

        if ($_.PackageName -like "*$(Lang)*") {

            $InitlClearLanguagePackage += $_.PackageName

        }

    }

    if ($InitlClearLanguagePackage.count -gt 0) {

        ForEach ($item in $InitlClearLanguagePackage) {

            Write-Host "`n  $($item)" -ForegroundColor Green

```

```

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

try {

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

    Write-host "Finish" -ForegroundColor Green

} catch {

    Write-host "Failed" -ForegroundColor Red

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

}

}

}

```

4.4. 组件：映像中已安装的所有包

4.4.1. 查看

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

4.4.2. 导出到 Csv

```

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

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

Write-host $SaveTo -ForegroundColor Green

```

4.5. 语言包：同步到 ISO 安装程序

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

4.6. 重新生成 Lang.ini

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

4.6.1. 重新生成已挂载目录 lang.ini

重新生成的 Lang.ini 文件位置：[D:\OS_2022_Custom\Boot\Boot\Mount\Sources\lang.ini](#)

```

Dism /image:"D:\OS_2022_Custom\Boot\Boot\Mount" /gen-langini
/distribution:"D:\OS_2022_Custom\Boot\Boot\Mount"

```

4.6.2. 重新生成 lang.ini 后，同步到安装程序

重新生成的 Lang.ini 文件位置：[D:\OS_2022\Sources\lang.ini](#)

```
Dism /image:"D:\OS_2022_Custom\Boot\Boot\Mount" /gen-langini /distribution:"D:\OS_2022"
```


5. 累积更新，可选项

准备可用的累积更新文件，请更改示例文件名：KB_Boot.cab

5.1. 添加

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

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

5.2. 删除

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

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

5.3. 固化更新

固化后不可卸载，固化时将清理恢复映像并重置任何被取代的组件的基础。

```
Dism /image:"D:\OS_2022_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_2022_Custom\Boot\Boot\Mount"

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

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

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

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

    }

}
```

6. 驱动，可选项

7. 保存映像

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

8. 卸载映像

关闭所有可能正在访问映像中文件的应用程序，包括文件资源管理器。

```
Dismount-WindowsImage -Path "D:\OS_2022_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。
- 前往 <https://github.com/ilikeyi/Multilingual/releases> 下载页面， 选择可用版本： `1.1.0.4`， 选择下载源代码格式： `zip`， 下载完成后得到 `Multilingual-1.1.0.4.zip` 压缩包文件；
- 将已下载的 `main.zip` 或 `Multilingual-1.1.0.4.zip`， 解压到： `D:\Multilingual-1.1.0.4`， 重命名： `D:\Multilingual`
- 学习 “无人值守 Windows 安装参考” ， 通过无人值守来干预安装过程。

1. 添加方式

1.1. 添加到 ISO 安装介质

1.1.1. 无人值守

1.1.1.1. 添加到： `[ISO]:\Autounattend.xml`

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

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

```
Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination "D:\OS_2022\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_2022\Sources\Unattend.xml`

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

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

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

1.1.1.3.1. 创建 `OEM` 路径

```
New-Item -Path "D:\OS_2022\sources\`$OEM$\`$$\Panther" -ItemType Directory
```

1.1.1.3.2. 复制

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

D:\OS_2022\Sources\\${OEM\$\Panther\Unattend.xml

Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination
"D:\OS_2022\sources\` \${OEM\$\` \$\$\Panther\Unattend.xml" -Force

1.1.2. 部署引擎：添加

添加 “自动添加 Windows 系统已安装的语言” 到 D:\OS_2022\sources\\${OEM\$\\$1\Yi\Engine 目录里。

1.1.2.1. 部署引擎：复制

复制 D:\Multilingual\Engine 到 D:\OS_2022\Sources\\${OEM\$\\$1\Yi\Engine

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

1.1.2.2. 部署引擎：自定义部署标记

```
$Flag = @(
    "Is_Mark_Sync" # 允许全盘搜索并同步部署标记

    # 先决部署

    # "Auto_Update" # 允许自动更新

    # "Use_UTF8" # Beta 版：使用 Unicode UTF-8 提供全球语言支持

    "Disable_Network_Location_Wizard" # 网络位置向导

    "Disable_Cleanup_Appx_Tasks" # Appx 清理维护任务

    "Disable_Cleanup_On_Demand_Language" # 阻止清理未使用的按需功能语言包

    "Disable_Cleanup_Unsed_Language" # 阻止清理未使用的语言包

    "Prerequisites_Reboot" # 重新启动计算机

    # 完成首次部署

    # "Popup_Engine" # 允许首次弹出部署引擎主界面

    # "Allow_First_Pre_Experience" # 允许首次预体验，按计划

    "Reset_Execution_Policy" # 恢复 PowerShell 执行策略：受限

    "Clear_Solutions" # 删除整个解决方案

    "Clear_Engine" # 删除部署引擎，保留其它

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

ForEach ($Item in $Flag) {

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

    New-Item -Path "D:\OS_2022\sources\` ${OEM$\` $1\Yi\Engine\Deploy\Allow" -ItemType Directory -  
ErrorAction SilentlyContinue | Out-Null
```

```
Out-File -FilePath "D:\OS_2022\sources\`$OEM$\`$1\Yi\Engine\Deploy\Allow\$( $item)" -Encoding utf8
-ErrorAction SilentlyContinue
}
```

1.2. 添加到已挂载

通过 “自定义部署映像：Install.wim” ， 执行 “开始挂载 Install.wim” ， 挂载到： [D:\OS_2022_Custom\Install\Install\Mount](#)

1.2.1. 无人值守

复制 [D:\Multilingual\Unattend\Mul.Unattend.xml](#) 到

[D:\OS_2022_Custom\Install\Install\Mount\Panther\Unattend.xml](#)

```
Copy-Item "D:\Multilingual\Unattend\Mul.Unattend.xml" -Destination
"D:\OS_2022_Custom\Install\Install\Mount\Panther" -Force
```

1.2.2. 部署引擎

添加 “自动添加 Windows 系统已安装的语言” 到 [D:\OS_2022_Custom\Install\Install\Mount\Yi\Engine](#) 目录里。

1.2.2.1. 部署引擎：复制

复制 [D:\Multilingual\Engine](#) 到 [D:\OS_2022_Custom\Install\Install\Mount\Yi\Engine](#)

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

1.2.2.2. 部署引擎：自定义部署标记

```
$Flag = @(

    "Is_Mark_Sync" # 允许全盘搜索并同步部署标记

    # 先决部署

    # "Auto_Update" # 允许自动更新

    # "Use_UTF8" # Beta 版：使用 Unicode UTF-8 提供全球语言支持

    "Disable_Network_Location_Wizard" # 网络位置向导

    "Disable_Cleanup_Appx_Tasks" # Appx 清理维护任务

    "Disable_Cleanup_On_Demand_Language" # 阻止清理未使用的按需功能语言包

    "Disable_Cleanup_Unsed_Language" # 阻止清理未使用的语言包

    "Prerequisites_Reboot" # 重新启动计算机

    # 完成首次部署

    # "Popup_Engine" # 允许首次弹出部署引擎主界面

    # "Allow_First_Pre_Experience" # 允许首次预体验，按计划
```

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

"Clear_Solutions" # 删除整个解决方案

"Clear_Engine" # 删除部署引擎，保留其它

# "First_Experience_Reboot" # 重新启动计算机

)

ForEach ($item in $Flag) {

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

    New-Item -Path "D:\OS_2022_Custom\Install\Install\Mount\Yi\Engine\Deploy\Allow" -ItemType
Directory -ErrorAction SilentlyContinue | Out-Null

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

}
```

2. 部署引擎：进阶

2.1. 部署引擎：添加过程中

在复制部署引擎后，可添加部署标记来干预安装过程。

2.2. 无人值守方案

自定义无人值守时，以下文件存在时请同步修改：

- [D:\OS_2022\Autounattend.xml](#)
- [D:\OS_2022\Sources\Unattend.xml](#)
- [D:\OS_2022\sources\OEM\\$\\\$\\$\Panther\unattend.xml](#)
- [D:\OS_2022_Custom\Install\Install\Mount\Panther\Unattend.xml](#)

2.2.1. 多语言或单语

多语言时，单语时，可互相切换，替换时，请替换文件里所有相同的。

2.2.1.1. 多语言

```
<UILanguage>%OSDUILanguage%</UILanguage>

<InputLocale>%OSDInputLocale%</InputLocale>

<SystemLocale>%OSDSysLocale%</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>

  <Username>Administrator</Username>

</AutoLogon>
```

2.2.2.2. 自定义用户

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

2.2.2.2.1. 删除

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

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

2.2.2.2.2. 替换

从开始处 <OOBE> 到 </OOBE>

```
<OOBE>

<ProtectYourPC>3</ProtectYourPC>

<HideEULAPage>true</HideEULAPage>

<HideWirelessSetupInOOBE>true</HideWirelessSetupInOOBE>

</OOBE>
```

D. 生成 ISO

II 下载 oscdimg 后，保存到：C:\Windows\System32 目录里，保存在其它路径，或请输入 OScdimg.exe 绝对位置；

III 使用 oscdimg 命令行生成一个 ISO 文件，保存到：D:\WS2022.iso

- ISO.ps1
 - \Expand\ISO.ps1
 - https://github.com/ilikeyi/solutions/blob/main/_Documents/Attachment/OS.2022/Expand/ISO.ps1
- 复制代码

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

$Volume = "Win2022"

$SaveTo = "D:\Win2022.iso"

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

Start-Process -FilePath "OScdimg.exe" -ArgumentList $Arguments -wait -nonewwindow
```

章节 2 报告

- 编组缩写：
 - 群组 A：WINDOWS SERVER 2022 STANDARD (DESKTOP EXPERIENCE), WINDOWS SERVER 2022 DATACENTER (DESKTOP EXPERIENCE)
 - 群组 B：WINDOWS SERVER 2022 STANDARD CORE, WINDOWS SERVER 2022 DATACENTER CORE

II 不同版本

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

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

III 语言安装包适用于：Install.wim

1.	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~AMD64~~.cab	A, B
	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
2.	Microsoft-Windows-Server-Language-Pack_x64_zh-CN.cab	A, B
	Microsoft-Windows-Server-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	
3.	Microsoft-Windows-LanguageFeatures-Basic-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B

	Microsoft-Windows-LanguageFeatures-Basic-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
4.	Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A
	Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
5.	Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A
	Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
6.	Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B
	Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
7.	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	A, B
	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
8.	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab	A, B
	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	
9.	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B
	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1	
10.	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab	A, B
	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	
11.	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B
	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1	
12.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~.cab	A
	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	
13.	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A
	Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1	
14.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~.cab	A
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	
15.	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A
	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1	
16.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab	A, B
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	
17.	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	A, B
	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1	

IV 语言安装包适用于：WinRE.wim

1.

WinPE-FontSupport-zh-CN.cab

Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.20348.1
2.

lp.cab

Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
3.

winpe-appxpackaging_zh-CN.cab

Microsoft-Windows-WinPE-AppxPackaging-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
4.

winpe-atbroker_zh-CN.cab

WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
5.

winpe-audiocore_zh-CN.cab

WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
6.

winpe-audiodrivers_zh-CN.cab

WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
7.

winpe-enhancedstorage_zh-CN.cab

WinPE-EnhancedStorage-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
8.

winpe-hta_zh-CN.cab

WinPE-HTA-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
9.

winpe-narrator_zh-CN.cab

WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
10.

winpe-opcservices_zh-CN.cab

WinPE-OpcServices-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
11.

winpe-rejuv_zh-CN.cab

WinPE-Rejuv-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
12.

winpe-scripting_zh-CN.cab

WinPE-Scripting-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
13.

winpe-securestartup_zh-CN.cab

WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
14.

winpe-speech-tts_zh-CN.cab

WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
15.

winpe-srh_zh-CN.cab

- WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
16. winpe-srt_zh-CN.cab
- WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
17. winpe-storagewmi_zh-CN.cab
- WinPE-StorageWMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
18. winpe-wds-tools_zh-CN.cab
- WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
19. winpe-wifi_zh-CN.cab
- WinPE-WiFi-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
20. winpe-wmi_zh-CN.cab
- WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

V 语言安装包适用于：Boot.wim

1. WinPE-FontSupport-zh-CN.cab
- Microsoft-Windows-WinPE-FontSupport-ZH-CN-Package~31bf3856ad364e35~amd64~~10.0.20348.1
2. lp.cab
- Microsoft-Windows-WinPE-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
3. winpe-atbroker_zh-CN.cab
- WinPE-ATBroker-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
4. winpe-audiocore_zh-CN.cab
- WinPE-AudioCore-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
5. winpe-audiodrivers_zh-CN.cab
- WinPE-AudioDrivers-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
6. winpe-enhancedstorage_zh-CN.cab
- WinPE-EnhancedStorage-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
7. winpe-narrator_zh-CN.cab
- WinPE-Narrator-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
8. winpe-scripting_zh-CN.cab
- WinPE-Scripting-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
9. winpe-securestartup_zh-CN.cab

WinPE-SecureStartup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

10. WINPE-SETUP-Server_zh-CN.CAB

WinPE-Setup-Server-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

11. WinPE-Setup_zh-CN.cab

WinPE-Setup-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

12. winpe-speech-tts_zh-CN.cab

WinPE-Speech-TTS-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

13. winpe-srh_zh-CN.cab

WinPE-SRH-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

14. winpe-srt_zh-CN.cab

WinPE-SRT-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

15. winpe-wds-tools_zh-CN.cab

WinPE-WDS-Tools-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

16. winpe-wmi_zh-CN.cab

WinPE-WMI-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1

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。

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

Dismount-WindowsImage -Path "D:\OS_2022_Custom\Install\WinRE\Mount" -Discard

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

III 修复挂载出现异常的问题

1. 查看已挂载

Get-WindowsImage -Mounted

2. 删除保存在注册表里的 DISM 挂载记录

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

3. 删除与已损坏的已装载映像关联的所有资源。

Clear-WindowsCorruptMountPoint

Dism /cleanup-wim

IV 清理目录

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

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

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

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

章节 4 已知问题

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

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



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