# WINDOWS SERVER 2022

添加语言包、功能包后、累积更新及其它完成后,组件会有新的变化,例如过时的、待删除等状态。向不同的版本添加语言包、功能包后,每一个语言包、功能包有对应的。在 Windows 11、Windows 10 里并无多少变化,但是在 Windows Server 2022 Datacenter 和 Windows Server 2022 Datacenter (Desktop Experience) 版对比就有很大的变化,详见组件分析报告。

### 目录

#### 一、部署映像

- A. 先决条件
- B. 语言包: 提取
- C. 自定义部署映像
- D. 生成 ISO
- 二、已知问题
- 三、 组件: 未变更
- 四、 组件: 新增后变化

### 一、 部署映像

# . 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 获取相关包

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:\OS2022
- 1.4. 所有脚本、所有路径,已默认设置为 D:\OS2022 为映像来源。

Yi's Solutions, v1.0 第1页 共21页

### 2. 语言包:

下载: 20348.1.210507-1500.fe\_release\_amd64fre\_SERVER\_LOF\_PACKAGES\_OEM.iso

#### Ⅱ 运行 PS 命令行时:

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

#### **川 准备语言包**

挂载 20348.1.210507-1500.fe\_release\_amd64fre\_SERVER\_LOF\_PACKAGES\_OEM.iso 或解压到任意位置;

## III 执行提取命令

• 提取语言:简体中文-中国

• 语言标记: zh-CN

- 提取语言包适用于范围: Install.wim, Boot.wim, WinRE.wim
- Auto = 自动搜索本地所有磁盘,默认;
- 自定义路径,例如指定为 E 盘: \$ISO = "E:\"

复制代码或查看源文件: Extract.ps1(本地, Github)

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

Yi's Solutions, v1.0 第2页 共21页

```
if ($NewPath -eq "Auto") {
   Get-PSDrive -PSProvider FileSystem -ErrorAction SilentlyContinue | ForEach-Object {
     ForEach ($item in $Language) {
      $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 $SaveTo
        Copy-Item -Path $TempFilePath -Destination $SaveTo -Force
 } else {
   ForEach ($item in $Language) {
     $TempFilePath = Join-Path -Path $NewPath -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 $SaveTo
      Copy-Item -Path $TempFilePath -Destination $SaveTo -Force
     } else {
      Write-host " Not found"
 Write-host "`n Verify the language pack file"
 ForEach ($item in $Package) {
   $Path = "$($SaveTo)\$([IO.Path]::GetFileName($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
$Language = @(
 "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-Server-Language-Pack_x64_zh-CN.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Basic-zh-CN-Package~31bf3856ad364e35~amd64~~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~amd64~~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~amd64~~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~amd64~~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~amd64~~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab"
 "LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab"
```

Yi's Solutions, v1.0 第3页 共21页

```
"LanguagesAndOptionalFeatures\Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab"
Extract_Language -Package $Language -SaveTo "D:\OS2022_Custom\Install\Install\Language\zh-CN" -NewPath $ISO
$Language = @(
 "Windows Preinstallation Environment\x64\WinPE_OCs\WinPE-FontSupport-zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\lp.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-securestartup_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE OCs\zh-CN\winpe-atbroker zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-audiocore_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE OCs\zh-CN\winpe-audiodrivers zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-enhancedstorage_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-narrator_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-scripting_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-speech-tts_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-srh_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-srt_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-wds-tools_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE OCs\zh-CN\winpe-wmi zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-appxpackaging_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-storagewmi_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-wifi_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-rejuv_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-opcservices_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-hta_zh-CN.cab"
Extract_Language -Package $Language -SaveTo "D:\OS2022_Custom\Install\WinRE\Language\zh-CN" -NewPath $ISO
$Language = @(
 "Windows Preinstallation Environment\x64\WinPE_OCs\WinPE-FontSupport-zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\lp.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\WinPE-Setup_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\WINPE-SETUP-Server_zh-CN.CAB"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-securestartup_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-atbroker_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-audiocore_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-audiodrivers_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-enhancedstorage_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-narrator_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-scripting_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-speech-tts_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-srh_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-srt_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-wds-tools_zh-CN.cab"
 "Windows Preinstallation Environment\x64\WinPE_OCs\zh-CN\winpe-wmi_zh-CN.cab"
Extract_Language -Package $Language -SaveTo "D:\OS2022_Custom\Boot\Boot\Language\zh-CN" -NewPath $ISO
```

# 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:\OS2022\Sources\Install.wim"

Yi's Solutions, v1.0 第4页 共21页

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

#### 2. 指定挂载 Install.wim 路径

 $New-Item\ -Path\ "D: \ OS2022\_Custom \ Install \ Mount"\ -Item Type\ directory\ -ea\ Silently Continue$ 

#### 循环操作区域,开始,

#### 3. 开始挂载 Install.wim

## 默认索引号: 1

\$Index = "1"

 $Mount-Windows Image - Image Path "D: \OS 2022 \setminus Sources \setminus Index \\ Sindex - Path "D: \OS 2022 \_ Custom \setminus Install \setminus Mount \\ Sindex - Path "D: \OS 2022 \_ Custom \setminus Install \setminus Mount \\ Sindex - Path "D: \OS 2022 \_ Custom \setminus Install \setminus Mount \\ Sindex - Path "D: \OS 2022 \_ Custom \setminus Install \setminus Mount \\ Sindex - Path "D: \OS 2022 \_ Custom \setminus Install \setminus Install \setminus Mount \\ Sindex - Path "D: \OS 2022 \_ Custom \setminus Install \setminus$ 

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;
```

```
$ViewFile = "D:\OS2022_Custom\Install\Install\Mount\Windows\System32\Recovery\WinRE.wim"
Get-WindowsImage -ImagePath $ViewFile | Foreach-Object {
   Get-WindowsImage -ImagePath $ViewFile -index $_.ImageIndex
}
```

### 3.1.2. 指定挂载 WinRE.wim 路径

New-Item -Path "D:\OS2022\_Custom\Install\WinRE\Mount" -ItemType directory -ea SilentlyContinue

# 3.1.3. 开始挂载 WinRE.wim

# 默认索引号: 1

\$Index = "1"

 $Mount-Windows Image - Image Path \$File Name - Index \$Index - Path "D: \OS 2022\_Custom \Install \WinRE \Mount" + Mount \Mount \$ 

Yi's Solutions, v1.0 第5页 共21页

自动安装语言包:按组件匹配,匹配成功后,再安装本地对应的语言包文件。

#### 3.1.4.1. 语言包:添加

```
复制代码或查看源文件: WinRE.Instl.lang.ps1 (本地, Github)
$Mount = "D:\OS2022_Custom\Install\WinRE\Mount"
$Sources = "D:\OS2022_Custom\Install\WinRE\Language\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 " Language pack file: " -NoNewline
     Write-host $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
```

Yi's Solutions, v1.0 第6页 共21页

```
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

Dism /Image:"D:\OS2022\_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:\OS2022\_Custom\Install\WinRE\Mount" /Get-Intl

#### 3.1.4.3. 组件

#### 3.1.4.3.1. 查看

 $Get-Windows Package - Path "D: \OS 2022\_Custom \Install \Win RE \Mount" \mid Out-Grid \View \Mount \M$ 

#### 3.1.4.3.2. 导出到 Csv

\$SaveTo = "D:\OS2022\_Custom\Install\WinRE\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS2022\_Custom\Install\WinRE\Mount" | Export-CSV - NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

- **3.1.5. 更新**,可选
- **3.1.6. 驱动**,可选
- 3.1.7. 保存映像

Save-WindowsImage -Path "D:\OS2022\_Custom\Install\WinRE\Mount"

# 3.1.8. 卸载映像

 $\label{thm:linear} Dismount-Windows Image - Path "D: \OS 2022\_Custom \Install \WinRE \Mount" - Discard$ 

### 3.1.9. 重建 WinRE.wim 后,可缩小文件大小

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

\$FileName = "D:\OS2022\_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

Yi's Solutions, v1.0 第7页 共21页

```
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 Install.wim

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

```
$WimLibPath = "D:\OS2022_Custom\Install\Install\Update\Winlib"

$FileName = "D:\OS2022_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:按组件匹配,匹配成功后,再安装本地对应的语言包文件。

# 4.1. 语言包:添加

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

```
$Mount = "D:\OS2022_Custom\Install\Install\Mount"
$Sources = "D:\OS2022_Custom\Install\Install\Language\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-

Yi's Solutions, v1.0 第8页 共21页

```
$Language_List = @(
 @{ Match = "*Server-LanguagePack-Package*"; File = "Microsoft-Windows-Server-Language-Pack_x64_zh-CN.cab"; }
 @{ Match = "*LanguageFeatures-Basic*"; File = "Microsoft-Windows-LanguageFeatures-Basic-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*Handwriting*"; File = "Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*OCR*"; File = "Microsoft-Windows-LanguageFeatures-OCR-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*LanguageFeatures-Speech*"; File = "Microsoft-Windows-LanguageFeatures-Speech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*TextToSpeech*"; File = "Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-
Package~31bf3856ad364e35~amd64~~.cab"; }
 @{ Match = "*MSPaint*amd64*"; File = "Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
 @{ Match = "*MSPaint*wow64*"; File = "Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
 @{ Match = "*Notepad*amd64*"; File = "Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
 @{ Match = "*Notepad*wow64*"; File = "Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
 @{ Match = "*PowerShell*amd64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
 @{ Match = "*PowerShell*wow64*"; File = "Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-
 @{ Match = "*StepsRecorder*amd64*"; File = "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
 @{ Match = "*StepsRecorder*wow64*"; File = "Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
 @{ Match = "*WordPad*amd64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-
CN~.cab"; }
 @{ Match = "*WordPad*wow64*"; File = "Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-
CN~.cab"; }
ForEach ($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 $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
```

Yi's Solutions, v1.0 第9页 共21页

#### 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

Dism /Image: "D:\OS2022\_Custom\Install\Install\Mount" /Set-AllIntl:zh-CN

#### 4.2.2. 查看可用的语言设置

Dism /Image: "D:\OS2022\_Custom\Install\Install\Mount" /Get-Intl

#### 4.3. 组件

#### 4.3.1. 查看

 $Get-Windows Package - Path "D: \OS 2022\_Custom \Install \Install \Mount" | Out-Grid View \Address of the Windows \Address of$ 

### 4.3.2. 导出到 Csv

\$SaveTo = "D:\OS2022\_Custom\Install\Install\Report.\$(Get-Date -Format "yyyyMMddHHmmss").csv"

Get-WindowsPackage -Path "D:\OS2022\_Custom\Install\Install\Mount" | Export-CSV -NoType -Path \$SaveTo

Write-host \$SaveTo -ForegroundColor Green

# 5. 更新,可选项

### 5.1. 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:

### 5.2. 添加

 $$KBPath = "D:\OS2022\_Custom\Install\Update\windows10.0-kb5030216-x64\_cbe587155f9818548b75f65d5cd41d341ed2fc61.msu"$   $Add-WindowsPackage-Path "D:\OS2022\_Custom\Install\Install\Mount"-PackagePath $KBPath = "D:\OS2022\_Custom\Install\Nount"-PackagePath $KBPath = "D:\OS2022\_Custom\Install$ 

Yi's Solutions, v1.0 第10页 共21页

#### 5.3. **固化更新**,可选项

Dism /Image: "D:\OS2022\_Custom\Install\Install\Mount" /cleanup-image /StartComponentCleanup

#### 5.3.1. 固化更新后清理组件

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

```
$Mount = "D:\OS2022_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. 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:\OS2022\_Custom\Install\Install\Mount" -ScanHealth

#### 8. 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。

### 9. 保存映像

 $Save-Windows Image \ -Path \ "D: \ OS 2022\_Custom \ Install \ Mount"$ 

### 10. 卸载映像

Dismount-WindowsImage -Path "D:\OS2022\_Custom\Install\Install\Mount" -Discard

### 循环操作区域,结束。

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

# 11.1. 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

Yi's Solutions, v1.0 第11页 共21页

### 11.2. 如何在 Install.wim 里提取和更新 WinRE.wim

#### 11.2.1. 从 Install.wim 里提取 WinRE.wim 文件 Install.wim

```
$Arguments = @(
"extract",
"D:\OS2022\sources\install.wim", "1",
"\Windows\System32\Recovery\Winre.wim",
"--dest-dir=""D:\OS2022_Custom\Install\Install\Update\Winlib"""))
```

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

New-Item -Path "D:\OS2022\_Custom\Install\Install\Update\Winlib" -ItemType Directory -ea SilentlyContinue Start-Process -FilePath "d:\wimlib\wimlib-imagex.exe" -ArgumentList \$Arguments -wait -nonewwindow

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

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

```
Get-WindowsImage -ImagePath "D:\OS2022\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:\OS2022\sources\install.wim", $_.ImageIndex,
    "--command=""add 'D:\OS2022_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
```

### 12. 重建 Install.wim 后可缩小文件大小

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

```
$InstallWim = "D:\OS2022\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) {
```

Yi's Solutions, v1.0 第12页 共21页

```
Remove-Item -Path $InstallWim

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

Write-Host "Finish" -ForegroundColor Green

} else {

Write-host "Failed" -ForegroundColor Red

}
```

#### III 自定义部署映像: boot.wim

### 1. 查看 Boot.wim 文件信息

```
映像名称、映像描述、映像大小、架构、版本、索引号等;

$ViewFile = "D:\OS2022\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:\OS2022\_Custom\Boot\Boot\Mount" -ItemType directory -ea SilentlyContinue

#### 3. 开始挂载 Boot.wim

#### 默认索引号: 2

\$Index = "2"

 $Mount-Windows Image - Image Path "D: \OS 2022 \setminus Sources \setminus Boot \setminus Boot$ 

### 4. 语言包

自动安装语言包:按组件匹配,匹配成功后,再安装本地对应的语言包文件。

### 4.1. 语言包:添加

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

$Mount = "D:\OS2022_Custom\Boot\Boot\Boot\Language\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-audiocore_zh-CN.cab"; }
    @{ Match = "*AudioCore*"; File = "winpe-audiocore_zh-CN.cab"; }
```

Yi's Solutions, v1.0 第13页 共21页

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

### 4.2. 脱机映像语言: 更改

# 4.2.1. 更改默认语言、区域设置和其他国际设置

Dism /Image:"D:\OS2022\_Custom\Boot\Boot\Mount" /Set-AllIntl:zh-CN

### 4.2.2. 查看可用的语言设置

Dism /Image: "D:\OS2022\_Custom\Boot\Boot\Mount" /Get-Intl

### 4.3. 组件

### 4.3.1. 查看

 $Get-WindowsPackage - Path "D: \OS2022\_Custom \Boot \Boot \Mount" \mid Out-Grid View$ 

### 4.3.2. 导出到 Csv

Yi's Solutions, v1.0 第14页 共21页

### 4.4. 语言包: 同步到 ISO 安装程序

#### 4.5. **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。

## 4.5.1. 重新生成已挂载目录 lang.ini

重新生成的 Lang.ini 文件位置: D:\OS2022\_Custom\Boot\Boot\Mount\Sources\lang.ini

Dism /image:"D:\OS2022\_Custom\Boot\Boot\Mount" /gen-langini /distribution:"D:\OS2022\_Custom\Boot\Boot\Mount"

### 4.5.2. 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:\OS2022\Sources\lang.ini

Dism /image: "D:\OS2022\_Custom\Boot\Boot\Mount" /gen-langini /distribution: "D:\OS2022"

- 5. **更新**,可选项
- 6. **驱动**,可选项

# 7. 保存映像

Save-WindowsImage -Path "D:\OS2022\_Custom\Boot\Boot\Mount"

# 8. 卸载映像

Dismount-WindowsImage -Path "D:\OS2022\_Custom\Boot\Boot\Mount" -Discard

### 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

复制代码或查看源文件: ISO.ps1 (本地, Github)

 $$ISO = "D:\Win2022"$  \$Volume = "Win2022"  $$SaveTo = "D:\Win2022.iso"$   $$Arguments = @("-m", "-o", "-u2", "-udfver102", "-l""$($Volume)""", "-bootdata:2#p0,e,b""$($ISO)\boot\effsboot.com""#pEF,e,b""$($ISO)\eff\microsoft\boot\effsys.bin""", $ISO, $FileName)$ 

Yi's Solutions, v1.0 第15页 共21页

# 二、 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。

Yi's Solutions, v1.0 第16页 共21页

# 三、 组件: 未变更

系统安装包: en-us\_windows\_server\_2022\_x64\_dvd\_620d7eac.iso,不同版本,组件列表:

序号	类型	Windows Server 2022 Standard (Desktop Experience), Windows Server 2022 Datacenter (Desktop Experience)	WINDOWS SERVER 2022 STANDARD CORE, WINDOWS SERVER 2022 DATACENTER CORE
1		Downlevel-NLS-Sorting-Versions-Server-FoD-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Downlevel-NLS-Sorting-Versions-Server-FoD-Package~31bf3856ad364e35~amd64~~10.0.20348.1
2		Downlevel-NLS-Sorting-Versions-Server-FoD-Package~31bf3856ad364e35~wow64~~10.0.20348.1	Downlevel-NLS-Sorting-Versions-Server-FoD-Package~31bf3856ad364e35~wow64~~10.0.20348.1
3		Microsoft-OneCore-DirectX-Database-FOD-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-OneCore-DirectX-Database-FOD-Package~31bf3856ad364e35~amd64~~10.0.20348.1
4		Microsoft-OneCore-RasSstp-Api-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-OneCore-RasSstp-Api-Package~31bf3856ad364e35~amd64~~10.0.20348.1
5		Microsoft-Windows-FodMetadata-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-FodMetadata-Package~31bf3856ad364e35~amd64~~10.0.20348.1
6		Microsoft-Windows-Foundation-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-Foundation-Package~31bf3856ad364e35~amd64~~10.0.20348.1
7		Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.20348.1	
8		Microsoft-Windows-InternetExplorer-Optional-Package~31bf3856ad364e35~amd64~~11.0.20348.75	
9		Microsoft-Windows-LanguageFeatures-Basic-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-LanguageFeatures-Basic-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1
10		Microsoft-Windows-LanguageFeatures-Handwriting-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
11		Microsoft-Windows-LanguageFeatures-OCR-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
12		Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-LanguageFeatures-Speech-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1
13		Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-LanguageFeatures-TextToSpeech-en-us-Package~31bf3856ad364e35~amd64~~10.0.20348.1
14		Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
15		Microsoft-Windows-MediaPlayer-Package~31bf3856ad364e35~amd64~~10.0.20348.169	
16		Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1

Yi's Solutions, v1.0 第17页 共21页

序号	类型	WINDOWS SERVER 2022 STANDARD (DESKTOP EXPERIENCE), WINDOWS SERVER 2022 DATACENTER (DESKTOP EXPERIENCE)	Windows Server 2022 Standard Core, Windows Server 2022 Datacenter Core
17		Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
18		Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1
19		Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~~10.0.20348.1	
20		Microsoft-Windows-Networking-RemoteAccess-PowerShell-Base-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1	Microsoft-Windows-Networking-RemoteAccess-PowerShell-Base-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1
21		Microsoft-Windows-Networking-RemoteAccess-PowerShell-Base-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-Networking-RemoteAccess-PowerShell-Base-Package~31bf3856ad364e35~amd64~~10.0.20348.1
22		Microsoft-Windows-Networking-RemoteAccess-PowerShell-Base-Package~31bf3856ad364e35~amd64~~10.0.20348.143	Microsoft-Windows-Networking-RemoteAccess-PowerShell-Base-Package~31bf3856ad364e35~amd64~~10.0.20348.143
23		Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
24		Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1
25		Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~~10.0.20348.1	
26		Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1
27		Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1	
28		Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
29		Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1	
30		Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~~10.0.20348.1	
31		Microsoft-Windows-Server-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1	Microsoft-Windows-Server-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1
32		Microsoft-Windows-Server-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.169	Microsoft-Windows-Server-LanguagePack-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.169
33		Microsoft-Windows-ServerCore-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-ServerCore-Package~31bf3856ad364e35~amd64~~10.0.20348.1
34		Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1	

Yi's Solutions, v1.0

序号	类型	Windows Server 2022 Standard (Desktop Experience), Windows Server 2022 Datacenter (Desktop Experience)	Windows Server 2022 Standard Core, Windows Server 2022 Datacenter Core
35		Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
36		Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1	
37		Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~~10.0.20348.1	
38		Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
39		Microsoft-Windows-TabletPCMath-Package~31bf3856ad364e35~amd64~~10.0.20348.143	
40		Microsoft-Windows-UserExperience-Desktop-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
41		Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~en-US~10.0.20348.1
42		Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~~10.0.20348.1
43		Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~en-US~10.0.20348.1
44		Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~~10.0.20348.1	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~~10.0.20348.1
45		Microsoft-Windows-Xps-Xps-Viewer-Opt-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
46		OpenSSH-Client-Package~31bf3856ad364e35~amd64~~10.0.20348.1	OpenSSH-Client-Package~31bf3856ad364e35~amd64~~10.0.20348.1
47		Package_for_DotNetRollup~31bf3856ad364e35~amd64~~10.0.4400.	Package_for_DotNetRollup~31bf3856ad364e35~amd64~~10.0.4400.1
48		Package_for_RollupFix~31bf3856ad364e35~amd64~~20348.169.1.7	Package_for_RollupFix~31bf3856ad364e35~amd64~~20348.169.1.7
49		Package_for_ServicingStack~31bf3856ad364e35~amd64~~20348.169.1.1	Package_for_ServicingStack~31bf3856ad364e35~amd64~~20348.169.1.1

Yi's Solutions, v1.0 第19页 共21页

# 四、 组件: 新增后变化

序号	类型	Windows Server 2022 Standard (Desktop Experience), Windows Server 2022 Datacenter (Desktop Experience)	Windows Server 2022 Standard Core, Windows Server 2022 Datacenter Core
1	Fonts	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~AMD64~~.cab	
		Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-LanguageFeatures-Fonts-Hans-Package~31bf3856ad364e35~amd64~~10.0.20348.1
2	Language pack	Microsoft-Windows-Server-Language-Pack_x64_zh-CN.cab	
		Microsoft-Windows-Server-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	Microsoft-Windows-Server-LanguagePack-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
3	Basic	Microsoft-Windows-LanguageFeatures-Basic-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	
		Microsoft-Windows-LanguageFeatures-Basic-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-LanguageFeatures-Basic-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1
Δ	Handwritin	Microsoft-Windows-LanguageFeatures-Handwriting-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	
-	g	Microsoft-Windows-LanguageFeatures-Handwriting-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
5	OCR	Microsoft-Windows-LanguageFeatures-OCR-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	
		Microsoft-Windows-LanguageFeatures-OCR-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1	
6	语音	Microsoft-Windows-LanguageFeatures-Speech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	
		Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-LanguageFeatures-Speech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1
7	文本和语音	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-CN-Package~31bf3856ad364e35~AMD64~~.cab	
		Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1	Microsoft-Windows-LanguageFeatures-TextToSpeech-zh-cn-Package~31bf3856ad364e35~amd64~~10.0.20348.1
8	功能包	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab	
		Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
9	功能包	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	
		Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1	Microsoft-Windows-MSPaint-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1

Yi's Solutions, v1.0 第 20 页 共 21 页

序号	类型	Windows Server 2022 Standard (Desktop Experience), Windows Server 2022 Datacenter (Desktop Experience)	WINDOWS SERVER 2022 STANDARD CORE, WINDOWS SERVER 2022 DATACENTER CORE
10	功能包	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab	
10		Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
11	功能包	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	
		Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1	Microsoft-Windows-Notepad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1
12	功能包	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~.cab	
12		Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	
13	功能包	Microsoft-Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	
13		Windows-PowerShell-ISE-FOD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1	
14	按需包	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~.cab	
		Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	
15	按需包	Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~.cab	
15		Microsoft-Windows-StepsRecorder-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1	
16	功能包	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~.cab	
10		Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~amd64~zh-CN~10.0.20348.1
17	功能包	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~.cab	
		Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1	Microsoft-Windows-WordPad-FoD-Package~31bf3856ad364e35~wow64~zh-CN~10.0.20348.1

Yi's Solutions, v1.0 第 21 页