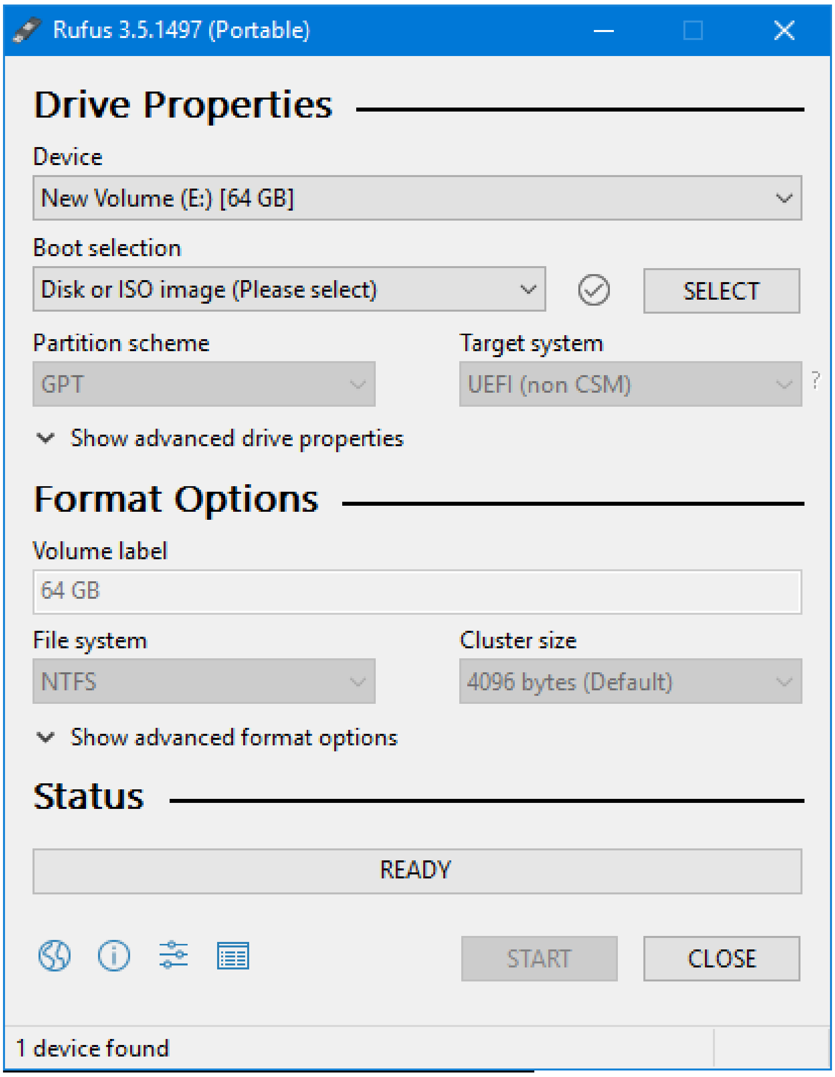
Rufus 创建 Windows Server 2019 UEFI 启动盘

程序下载地址：https://github.com/pbatard/rufus/releases/download/v3.5/rufus-3.5p.exe
Rufus 开源，免费使用，官网：http://rufus.ie/

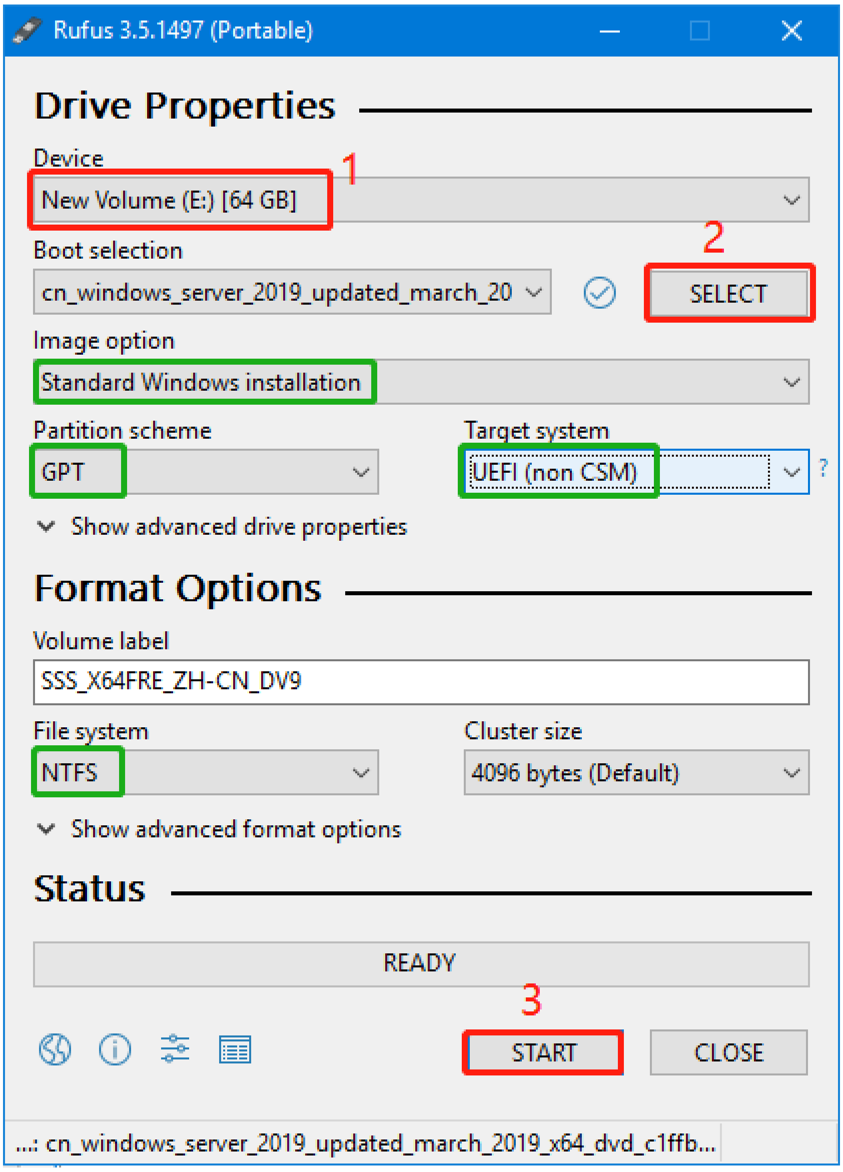
rufus-3.5p.zip

此方法可用于创建 ISO 文件大于 4GB 的启动盘如 Windows Server 2016/2019 等。
第一次运行 Rufus 将提示是否检查更新，点击“否”即可进入主界面。


Rufus 3.5.1497 (Portable)
Drive Properties
Show advanced drive properties
Format Options
Show advanced format options
Status
SELECT
START
CLOSE

Device: New Volume (E:) [64 GB]
Boot selection: Disk or ISO image (Please select)
Partition scheme: GPT
Target system: UEFI (non CSM)
Volume label: 64 GB
File system: NTFS
Cluster size: 4096 bytes (Default)
READY
1 device found

1. 选择所需要制作成启动盘的 U 盘；
2. 选择 Windows Server 2019 ISO 文件；
3. 绿框内的内容将全部自动生成，请确认是否一致；
4. 点“Start”


Rufus 3.5.1497 (Portable)
1
2
SELECT
3
START
CLOSE
Show advanced drive properties
Show advanced format options

Drive Properties

Device: New Volume (E:) [64 GB]

Boot selection: cn_windows_server_2019_updated_march_20

Image option: Standard Windows installation

Partition scheme: GPT

Target system: UEFI (non CSM)

Format Options

Volume label: SSS_X64FRE_ZH-CN_DV9

File system: NTFS

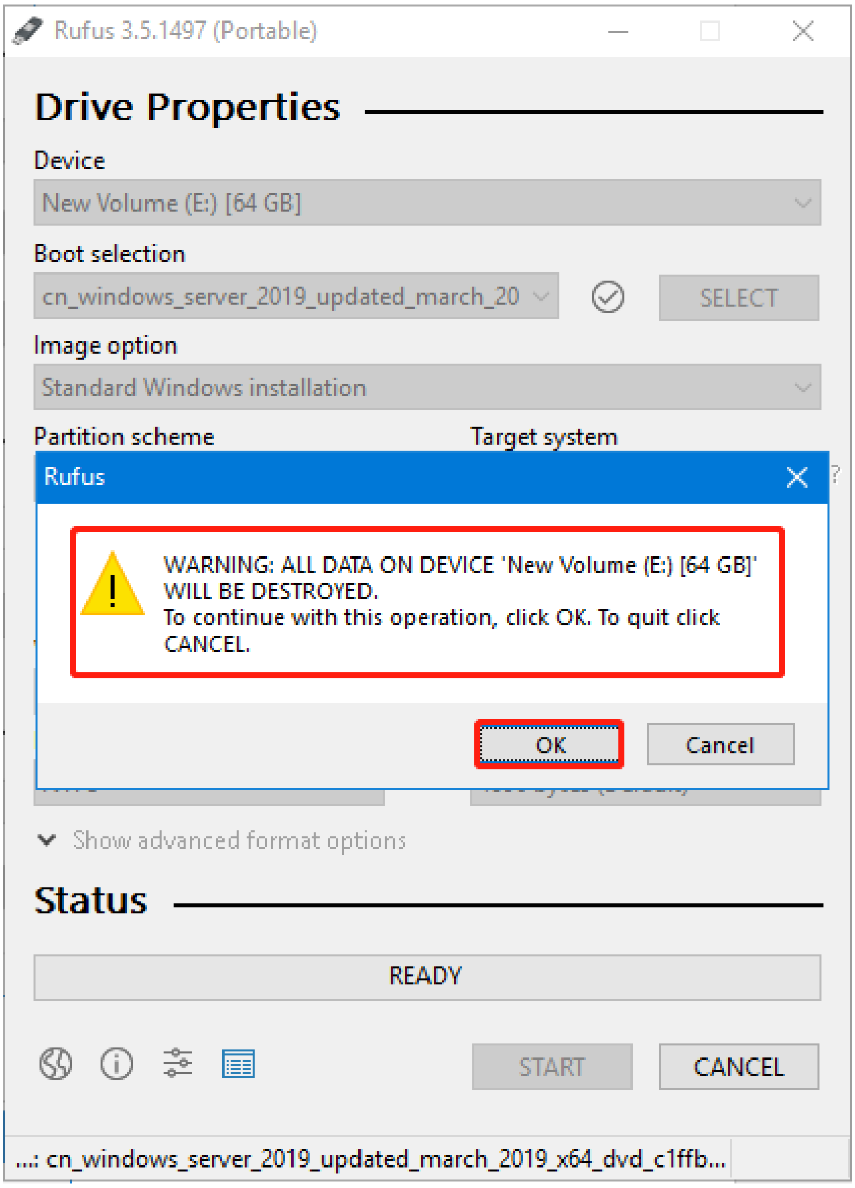
Cluster size: 4096 bytes (Default)

Status

READY

...: cn_windows_server_2019_updated_march_2019_x64_dvd_c1ffb...

提示 U 盘内所有数据都将被清除，请提前备份好 U 盘内数据。


Rufus 3.5.1497 (Portable)

Drive Properties

Device: New Volume (E:) [64 GB]

Boot selection: cn_windows_server_2019_updated_march_20

Image option: Standard Windows installation

Partition scheme

Target system

Rufus

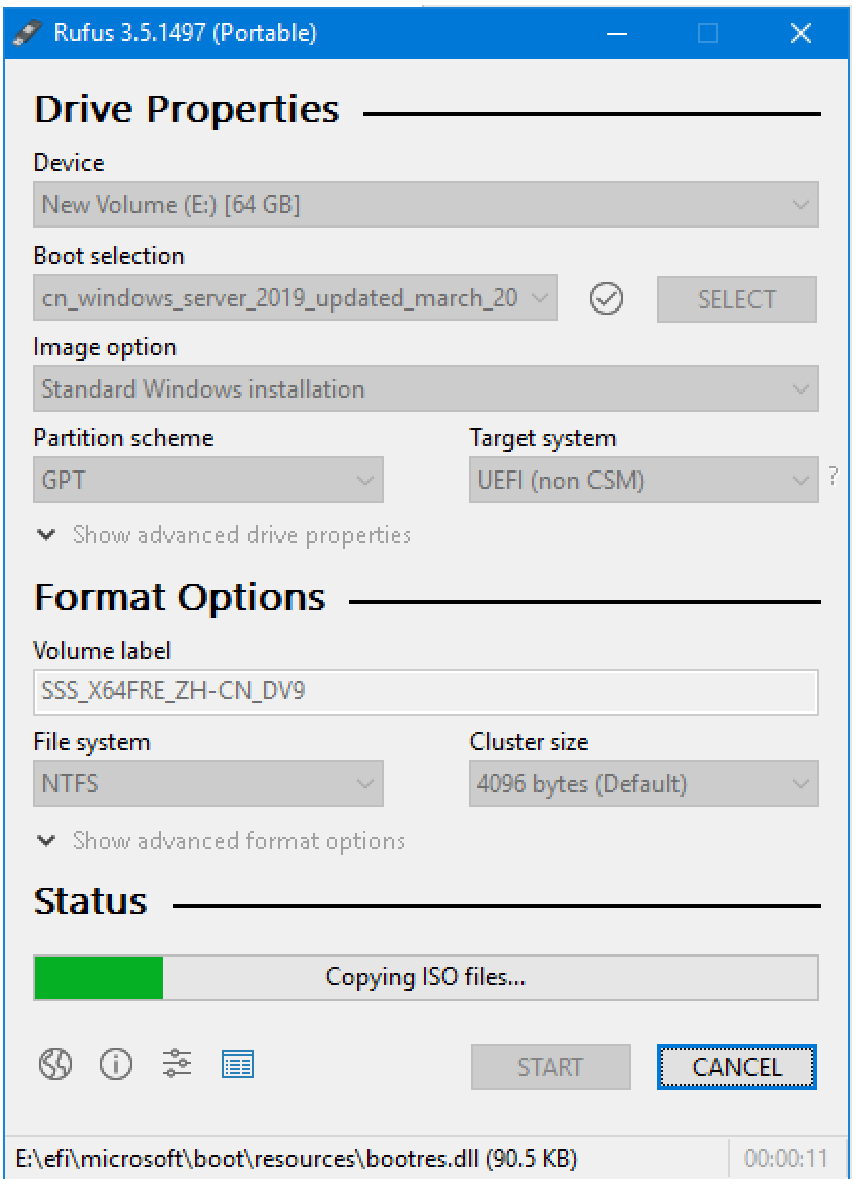
WARNING: ALL DATA ON DEVICE 'New Volume (E:) [64 GB]' WILL BE DESTROYED.
To continue with this operation, click OK. To quit click CANCEL.

Status: READY

...: cn_windows_server_2019_updated_march_2019_x64_dvd_c1ffb...

SELECT
OK
Cancel
Show advanced format options
START
CANCEL

等待 ISO 写入



Drive Properties

Device: New Volume (E:) [64 GB]

Boot selection: cn_windows_server_2019_updated_march_20

Image option: Standard Windows installation

Partition scheme: GPT

Target system: UEFI (non CSM)

Show advanced drive properties

Format Options

Volume label: SSS_X64FRE_ZH-CN_DV9

File system: NTFS

Cluster size: 4096 bytes (Default)

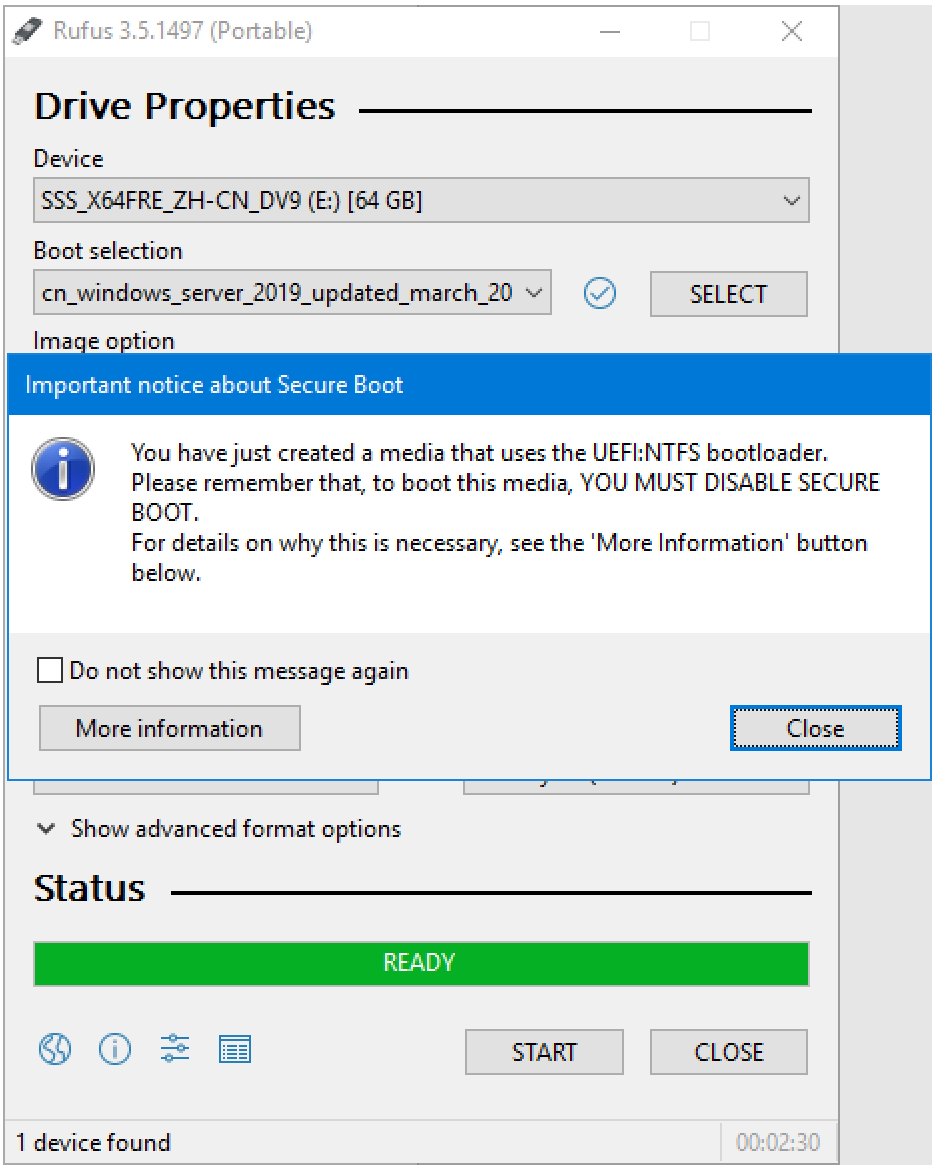
Show advanced format options

Status

Copying ISO files...

E:\efi\microsoft\boot\resources\bootres.dll (90.5 KB)   00:00:11

启动盘制作完毕后提示，该启动盘在 UEFI 模式下需要在 BIOS 中禁用 Secure Boot 才能启动。


Rufus 3.5.1497 (Portable)
Drive Properties
Image option
Show advanced format options
Status
SELECT
More information
Close
START
CLOSE

Device: SSS_X64FRE_ZH-CN_DV9 (E:) [64 GB]

Boot selection: cn_windows_server_2019_updated_march_20

Important notice about Secure Boot

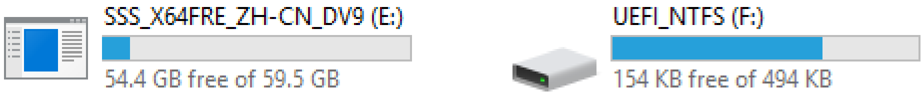
You have just created a media that uses the UEFI:NTFS bootloader. Please remember that, to boot this media, YOU MUST DISABLE SECURE BOOT.
For details on why this is necessary, see the 'More Information' button below.

☐ Do not show this message again

READY

1 device found 00:02:30

创建完毕后，U 盘会被分成 2 个分区，一个用于 EFI 启动 NTFS 分区，一个用于存放安装文件，请勿删除任何文件和分区，避免无法从 UEFI 模式中启动安装盘。

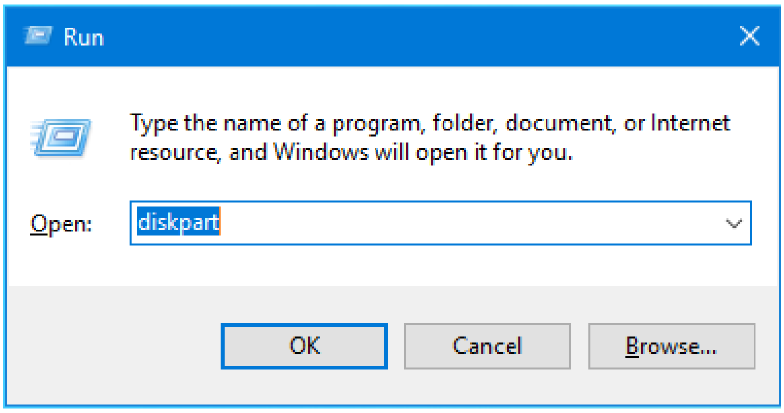


SSS_X64FRE_ZH-CN_DV9 (E:)
54.4 GB free of 59.5 GB

UEFI_NTFS (F:)
154 KB free of 494 KB

至此改 U 盘即可用于 UEFI 启动模式安装 Windows Server 2019.

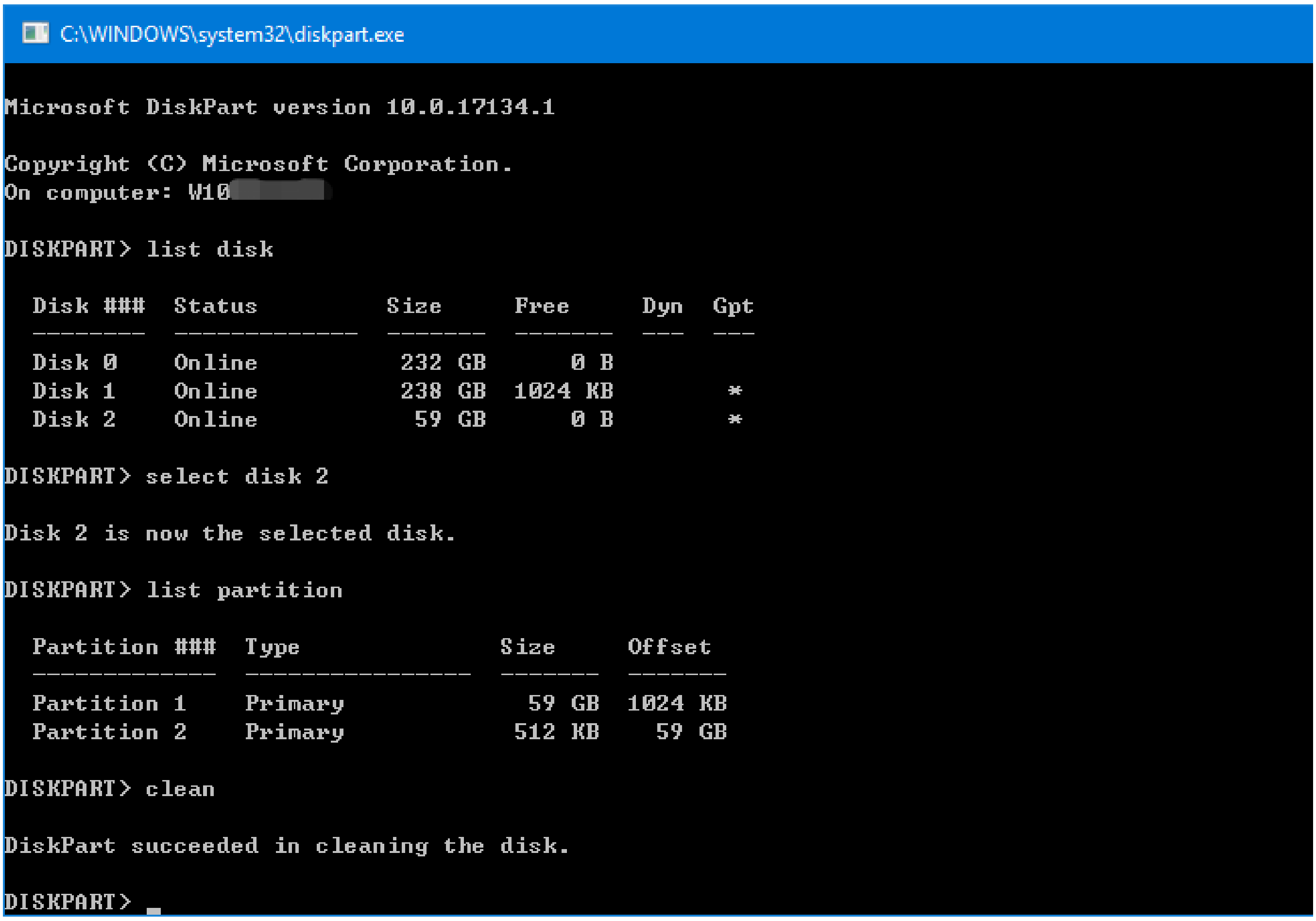
使用 diskpart 将 U 盘恢复至正常状态（将清空所有数据）
Win+R 输入 diskpart



Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.

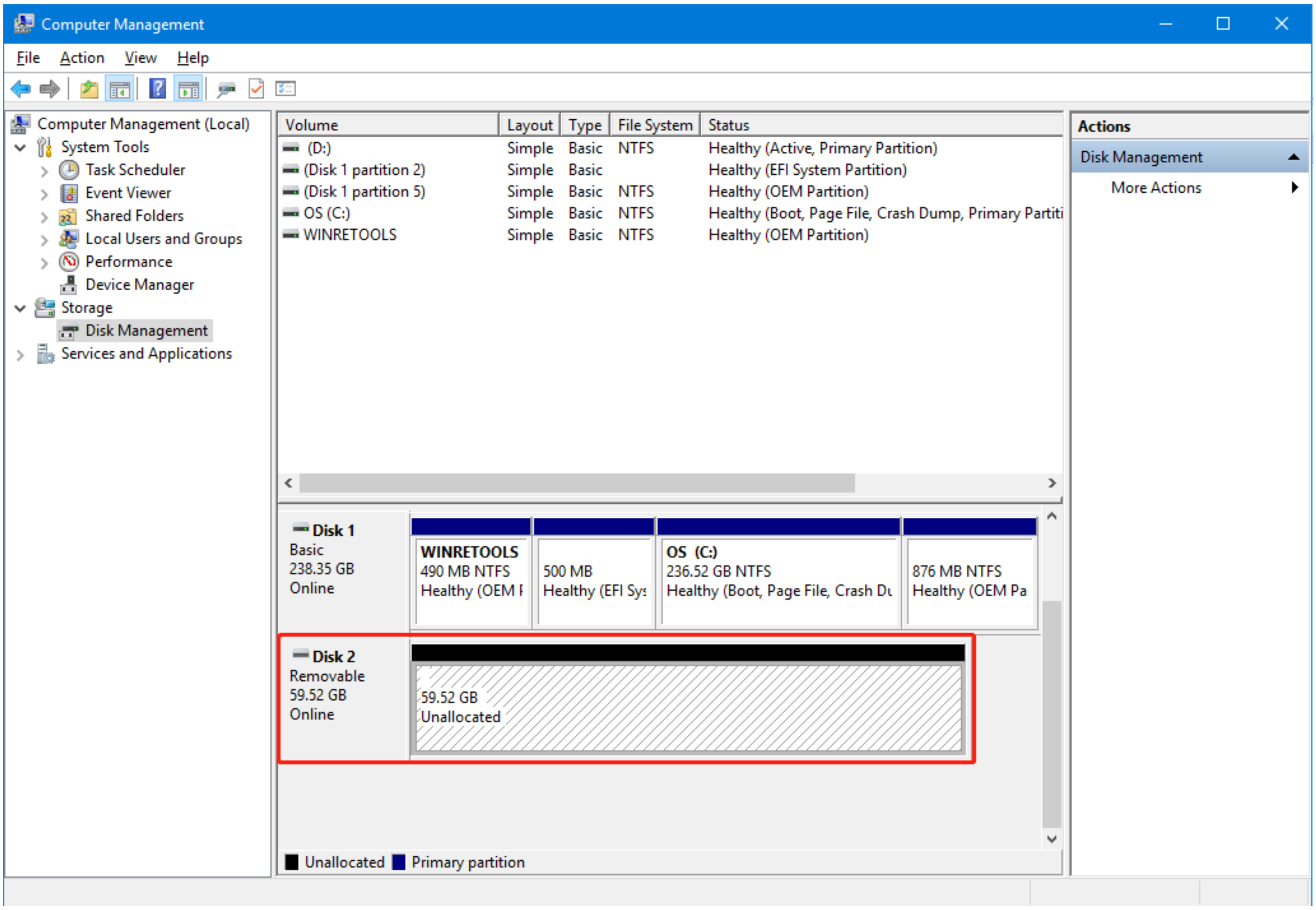
Open: diskpart

打开 diskpart 后如下命令



```
Microsoft DiskPart version 10.0.17134.1

Copyright (C) Microsoft Corporation.
On computer: W10[redacted]

DISKPART> list disk

  Disk ###  Status         Size     Free     Dyn  Gpt
  --------  -------------  -------  -------  ---  ---
  Disk 0    Online          232 GB      0 B
  Disk 1    Online          238 GB  1024 KB        *
  Disk 2    Online           59 GB      0 B        *

DISKPART> select disk 2

Disk 2 is now the selected disk.

DISKPART> list partition

  Partition ###  Type              Size     Offset
  -------------  ----------------  -------  -------
  Partition 1    Primary             59 GB  1024 KB
  Partition 2    Primary            512 KB    59 GB

DISKPART> clean

DiskPart succeeded in cleaning the disk.

DISKPART> _
```

清空所有分区后，再从磁盘管理中找到 U 盘，右键创建新卷根据创建向导创建和格式化后即可。


Computer Management
File
Action
View
Help
Computer Management (Local)
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Performance
Device Manager
Storage
Disk Management
Services and Applications
Actions
Disk Management
More Actions

Volume	Layout	Type	File System	Status
(D:)	Simple	Basic	NTFS	Healthy (Active, Primary Partition)
(Disk 1 partition 2)	Simple	Basic		Healthy (EFI System Partition)
(Disk 1 partition 5)	Simple	Basic	NTFS	Healthy (OEM Partition)
OS (C:)	Simple	Basic	NTFS	Healthy (Boot, Page File, Crash Dump, Primary Partiti
WINRETOOLS	Simple	Basic	NTFS	Healthy (OEM Partition)

Disk 1
Basic
238.35 GB
Online

WINRETOOLS
490 MB NTFS
Healthy (OEM F

500 MB
Healthy (EFI Sys

OS (C:)
236.52 GB NTFS
Healthy (Boot, Page File, Crash Du

876 MB NTFS
Healthy (OEM Pa

Disk 2
Removable
59.52 GB
Online

59.52 GB
Unallocated

■ Unallocated ■ Primary partition