

Windows on Arm

Product Lineup

Qualcomm
Snapdragon 835



Qualcomm
Snapdragon 850



Qualcomm
Snapdragon 8cx - 5G



ASUS NovaGo TP370QL



HP ENVY x2



Lenovo Miix 630



Huawei MateBook E 2019



Samsung Galaxy Book2



Lenovo Yoga C630



Lenovo Project Limitless
(not released yet)

Always Connected PC (ACPC)

Windows 10 on Arm

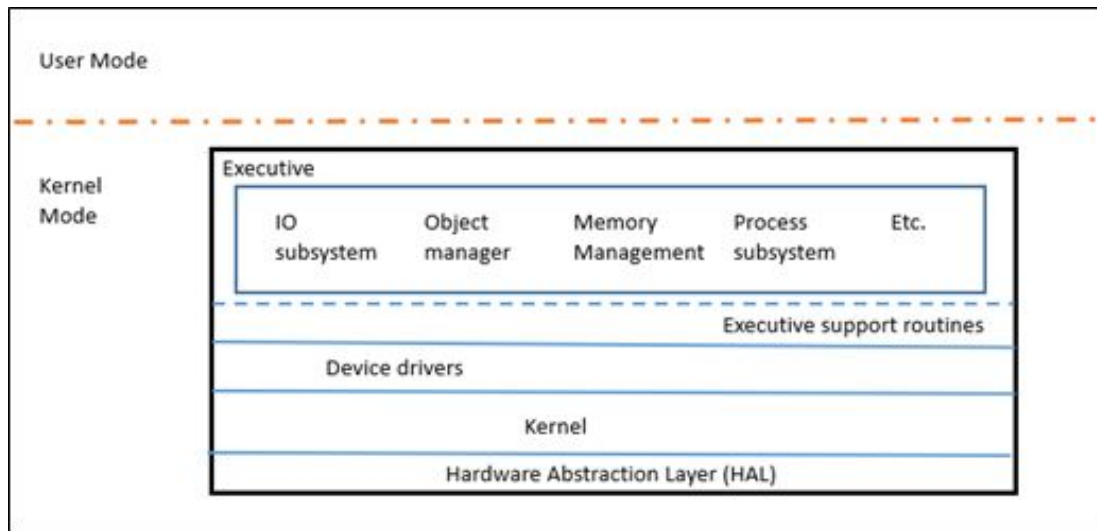
- All-day battery life
- LTE (and 5G) connectivity
- Instant On
- Great application compatibility
 - Native ARM64/ARM32 apps (built-in apps or UWP* apps from Microsoft Store)
 - x86 UWP apps (from Microsoft Store)
 - x86 Win32 apps unmodified (x64 Win32 apps not supported)

<https://docs.microsoft.com/en-us/windows/arm/>

(*) UWP: Universal Windows Platform

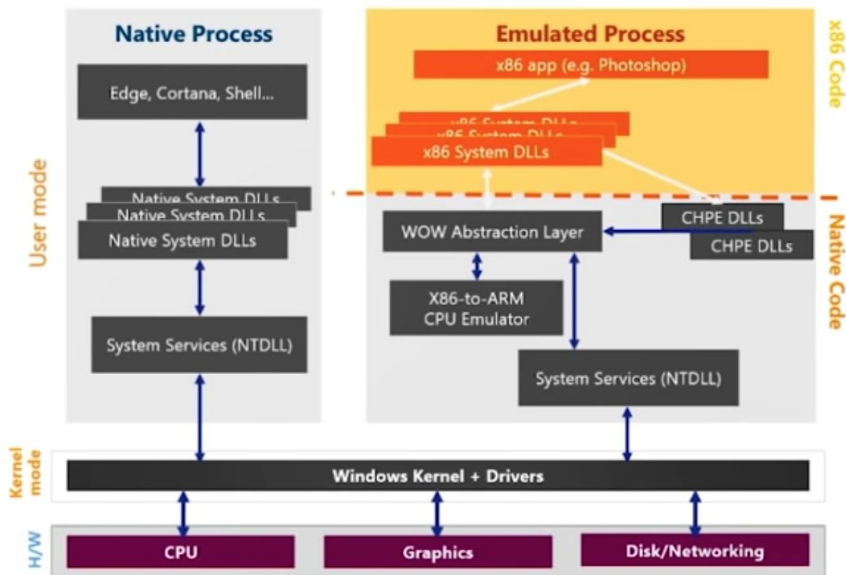
Windows Kernel & Drivers

- Heterogeneous kernel scheduling in the Windows kernel scheduler for ARM64 big.LITTLE architecture
- [Windows Driver Framework \(WDF\)](#)
 - Kernel Mode Driver Framework (KMDF)
 - User Mode Driver Framework (UMDF)



WOW64 - Windows on Windows

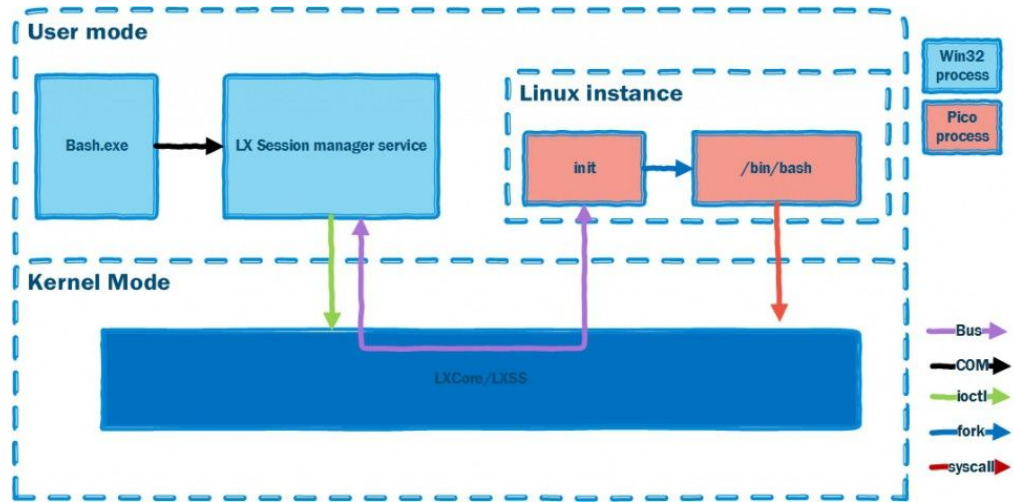
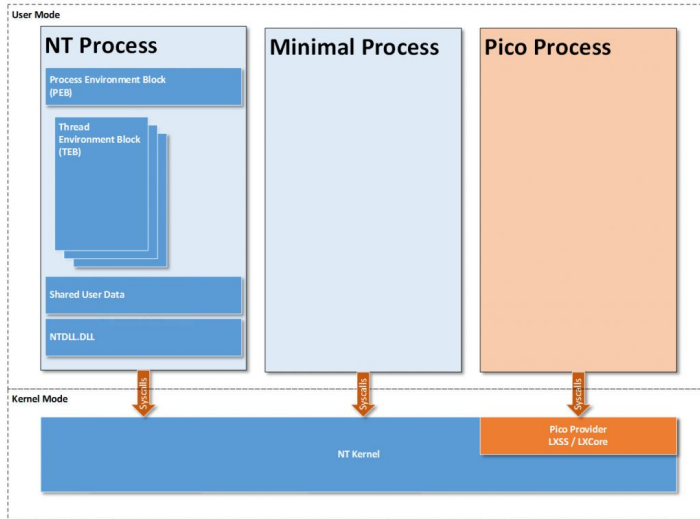
- WOW64 is an emulator layer that allows 32-bit Windows applications to run on 64-bit Windows seamlessly
 - 32-bit (x86) Windows applications on 64-bit (x64) Windows
 - 32-bit (x86) and 32-bit (ARM32) Windows applications on 64-bit (ARM64) Windows



CHPE: Compiled Hybrid Portable Executable

WSL - Windows Subsystem for Linux

Based on Pico Process



Follow <http://aka.ms/wslinstall> to install Linux distros with WSL

Linux Distro in Microsoft Store



在 Windows 上运行 Linux

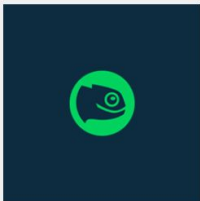
安装 Linux 发行版并在适用于 Linux 的 Windows 子系统 (WSL) 上并排运行它们。



Ubuntu

★★★★★ 209

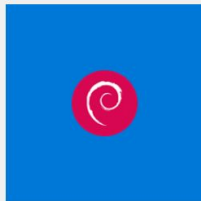
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SUSE Linux
Enterprise Server 12

★★★★★ 14

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Debian

★★★★★ 113

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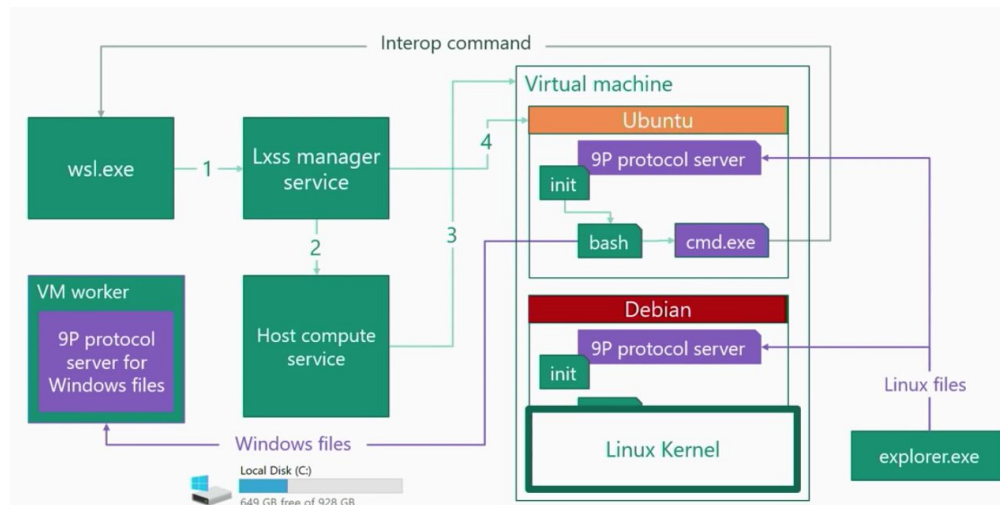
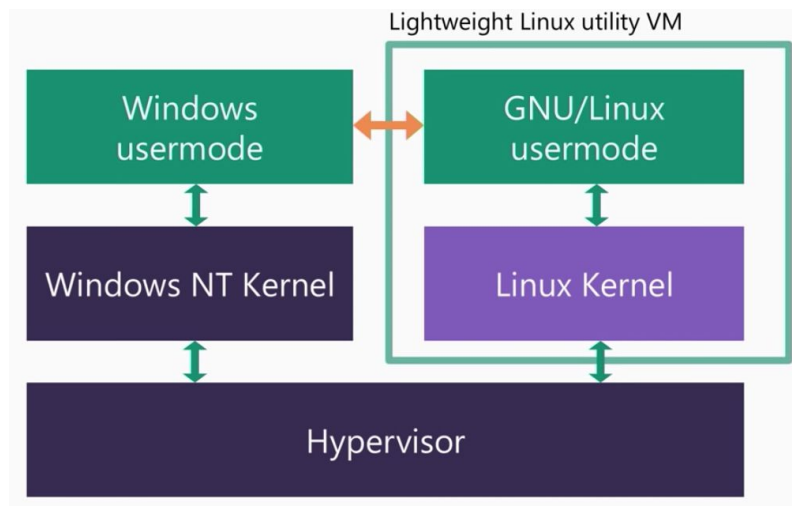
Kali Linux

★★★★★ 139

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WSL 2

Use Hyper-V based virtualization solution



A complete Linux Kernel is integrated for WSL 2 support, initially the LTS v4.19 will be used as the base.

Available starting from Windows build 18917, and follow [the guide](#) for installation.

Applications

- ARM64 build

- Microsoft Edge
- Microsoft Cortana
- Mozilla Firefox (Beta)
- OpenVPN
- VLC Media Player
- Ubuntu WSL
- Unity (2019.1),

- Development

- Microsoft Visual Studio (15.9+)
- Microsoft WinDbg
- Microsoft Store

- x86 build (run with emulation)

- Microsoft Office
- Google Chrome
- Adobe Photoshop Elements
- Adobe Acrobat Reader
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- Issues

- No x64 support
- No OpenGL support
- ExpressVPN (x86) failed to complete installation