



Parallels Desktop 14 for Mac updates summary

- Parallels Desktop for Mac Standard Edition
 - Parallels Desktop for Mac Pro Edition
 - Parallels Desktop for Mac Business Edition
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Parallels strongly recommends to keep your copy of Parallels Desktop up-to-date. To check your current version or pending updates go to **Parallels Desktop** menu > **About Parallels Desktop** or **Check for Updates** correspondingly.

Note: Business Edition users may receive automatic update later than global release date.

To download update installation image manually, click [here](#).

The latest version 14.1.3 (45485)

This update for Parallels Desktop 14 for Mac 14.1.3 (45485) addresses overall stability and performance issues.

Version 14.1.2 (45479)

This update for Parallels Desktop 14 for Mac 14.1.2 (45479) addresses overall stability and performance issues.

Version 14.1.1 (45476)

This update for Parallels Desktop 14 for Mac 14.1.1 (45476) addresses overall stability and performance issues, and includes the following fixes and improvements:

Windows

- Resolves an issue with Windows not switching to Coherence on an external monitor.
- Resolves an issue with Windows OneDrive disks not mounting to the Finder.
- Resolves an issue with installing a wrong edition of Windows Server during Express Installation.
- Resolves an issue with Windows 10 encrypted by McAfee Drive Encryption and showing a fatal error on startup.
- Resolves an issue with a USB dongle not recognized by the Comarch ERP application after suspending and resuming Windows.
- Resolves an issue with the ClickOnce bootstrapper not starting from the macOS Desktop when Windows is running in Coherence.

Linux

- Resolves an issue with Desktop icons overlapping active Linux applications.
- Resolves an issue with Parallels Tools not installing in Red Hat 5.8.

- Resolves an issue with the keyboard and mouse not working in a CentOS (x64) virtual machine configured to boot in EFI mode.
- Resolves an issue with Linux files becoming corrupted during compilation in the shared directory if mmap is used.
- Resolves an issue with 4 mouse cursors on Yandex maps in Linux.

macOS

- Resolves an issue with the mouse cursor sometimes getting stuck in macOS virtual machines.
- Resolves an issue with too sensitive scrolling using Trackpad in a macOS virtual machine.

Integration

- Install and use Windows Server 2019 side by side with macOS.
- Resolves an issue with the virtual machine window sometimes disappearing after exiting the Full Screen view mode.
- The “Open in Internet Explorer” plugin allowing users to open links from Safari in Internet Explorer is now available only for the latest versions of the Safari web browser.

Graphics

- Resolves an issue with AutoSPRINK 2018 not working in a Windows virtual machine.
- Resolves an issue with Rhino 6 crashing after switching between points of view.
- Resolves an issue with models becoming black after changing the point of view settings in Rhino 6.

Linux support

- Resolves an issue with Ubuntu 18.10 not working in Coherence.
- Resolves an issue with RHEL 7.6 crashing sometimes after Parallels Tools are installed.

For Parallels Desktop for Mac Business Edition only

- Ability to change the macOS virtual machine’s Boot ROM and MLB using system flags.
- Shared networking can now handle DNS queries over TCP.

Version 14.1.0 (45387)

This update for Parallels Desktop 14 for Mac 14.1.0 (45387) addresses overall stability and performance issues, and includes the following fixes and improvements:

- Resolves an issue with Vasco Da Gama 11.
- Resolves an issue with SketchUp LayOut 2018.
- Resolves an issue with SketchUp Style Builder 2018.
- Resolves an issue with graphics artifacts in SketchUp Pro 2018.
- Resolves an issue with not being able to activate FusionPro VDP Creator 9.
- Resolves an issue with not being able to activate MATLAB.
- Resolves an issue with the Apple DEP (Device Enrollment Program) not working in a macOS virtual machine.
- Resolves an issue with GUI problems in Ableton Live.
- Resolves an issue with Counter-Strike: Global Offensive.
- Resolves an issue with the Shadows: Awakening game showing a purple screen instead of the main menu.
- Resolves an issue with the blurry icon in Microsoft Teams.

General enhancements

- We have simplified the way of sharing the Mac's camera with Windows. Now you can do this either on the Sound & Camera tab of the virtual machine configuration, in the title bar of the virtual machine window, or from the Devices menu in the macOS menu bar.
- Easier way to get help from Parallels - click Help > Support Center to access the webpage where you can find the most popular knowledgeable articles, links to the Parallels forums, social media and technical documentation, get personalized support and much more.

Integration

- Resolves an issue with not being able to start a Boot Camp virtual machine if the Mac's hard disk is larger than 2 TB.
- Resolves an issue with links redirection after installing a Windows 10 update - links set to open in Mac started opening in Windows.
- Resolves a seldom issue with not being able to start Parallels Desktop restored from a Time Machine backup.
- Resolves an issue with Parallels Desktop not appearing in the macOS 10.14 Mojave Privacy settings to get access to the camera and microphone.
- Resolves an issue with the mouse cursor remaining Windows-like after switching to macOS from Windows running in game mode.

Devices

- Resolves an issue with not being able to transfer data to the two-way radio USB dongle.
- Resolves an issue with the Lodestar X2 USB camera not detected by the PhD2 application.
- Resolves an issue with a virtual machine freezing on shutdown or resume if the virtual machine configuration contains 2 or more SATA disks.
- Resolves an issue with the HP LaserJet P2035 printer printing to a wrong tray.

Linux support

- Resolves an issue with Parallels Tools not installing in openSUSE Leap 15.
- Resolves an issue with Parallels Tools not working in Linux virtual machines with X Server 1.20.
- Resolves an issue with Parallels Tools not installing in the Ubuntu Linux virtual appliance.
- Resolves an issue with Ubuntu 18.04 virtual machines not responding to mouse clicks after waking from sleep in Coherence view mode.
- Resolves an issue with Ubuntu 18.04 virtual machines periodically crashing or locking up.
- Resolves an issue with incorrect screen resolution of Ubuntu 18.04 virtual machines running in Coherence in a multi-monitor configuration.
- Resolves an issue with not being able to mount the same shared folder twice in a Linux virtual machine.

For Parallels Desktop for Mac Business Edition only

- Resolves an issue with the Parallels auto-deploy package not working to install or upgrade to Parallels Desktop 14 using Casper Suite v.9.101.
- Resolves an issue with Parallels Desktop freezing on start if the Active Directory responses are slow.

Other improvements

- Resolves an issue with two identical Recovery Partitions available in the Free Systems section of the Installation Assistant.
- Resolves an issue when a Mac has two Recovery Partitions with different versions of macOS, a user chooses to install macOS from one partition but Parallels Desktop installs it from the other.
- Resolves an issue when two GUI messages are displayed at a time and the top message doesn't respond to mouse clicks.

- Resolves an issue with Parallels Desktop not starting after reinstallation if the previous copy was corrupted and didn't work.
- Resolves a seldom issue with Parallels Desktop periodically asking a user to re- enter the user's credentials.
- Resolves an issue with Parallels Desktop trying to reinstall when the user's home directory is located in any place other than /Users.
- Resolves an issue with Parallels Tools for Mac not installing in a virtual machine using the command-line interface.
- Resolves an issue with Parallels Transporter Agent crashing periodically on a remote computer because of conflicts with OpenGL.
- Resolves an issue with the Japanese characters hardly visible on the Download Windows screen.

Version 14.0.1 (45154)

This update for Parallels Desktop 14 for Mac 14.0.1 (45154) addresses overall stability and performance issues, and includes the following fixes and improvements:

General enhancements

- Resolves an issue with the camera connected to Mac, shared with a virtual machine and showing a black screen.
- Resolves an issue with sound (in Bluetooth headphones) playing in Windows 10 and becoming poor after Windows 10 is resumed.
- Resolves an issue with drag-n-drop not working between 2 windows opened in Coherence view mode.

Issues reported by Parallels Desktop customers

- Resolves an issue with graphics artifacts while showing an animated presentation in Microsoft PowerPoint.
- Resolves an issue with graphics artifacts in ParaView running in Ubuntu.
- Resolves an issue with graphics artifacts in Allplan 2018.
- Resolves an issue with the DesignBuilder app showing a black screen in Windows 10 after installing Windows updates.
- Resolves an issue with the SketchUP Viewer app not working in a Parallels virtual machine.
- Resolves an issue with some Windows virtual machines freezing when they are resumed or shut down.
- Resolves an issue with swipe gestures not working in Windows 10.
- Resolves an issue with the Mac's scanner and other USB devices not connecting from the virtual machine's Dock icon to a virtual machine running in Coherence.
- Resolves an issue with not being able to access the files in the shared Home folder from a virtual machine.

Support for macOS 10.14 Mojave

- Resolves an issue with enabling the Parallels extension for Safari that allows you to open the current web page in Internet Explorer.
- Resolves an issue with Parallels Desktop Help opening in 2 separate windows.
- Resolves an issue with dragging and dropping files between macOS and a virtual machine.
- Resolves an issue with search not working in Parallels Desktop Help.

Linux

- Download and use a pre-configured virtual machine with Debian GNU/Linux 9.
- Download and use a pre-configured virtual machine with CentOS 7.

Version 14.0.0 (45124)

What's New in Parallels Desktop 14

Performance

When developing Parallels Desktop 14, we paid much attention to performance:

- Up to 200 percent performance improvement on the iMac Pro® (audio and video encoding, AI, 3D modelling, cryptography and other complex math calculations workloads) thanks to AVX512 processor instructions set support.
- Up to 80 percent faster application launch.
- Up to 10 percent faster boot time.
- Up to 30 percent faster suspend operation on APFS partition.
- Up to 130 percent more frames per second in Shared Camera.
- Up to 17 percent more frames per second in Coherence view mode.
- The Mac's camera shared with Windows consumes up to 3x less CPU resources.

Graphics

A lot of efforts were focused on graphics improvements - how a virtual machine is displayed on multiple monitors, how it switches between view modes, how much graphics memory is consumed, and much more:

The new “Auto” mode for graphics allows Windows 8 and later to use more than 2 GB of Mac system memory for graphics, while allowing Windows applications to use it when possible. To use this feature, you must update Parallels Tools first.

- Not all amount of assigned graphics memory is locked by the virtual machine - the amount which is not used is returned to Mac.
- Parallels Desktop 14 now features improved OpenGL support for enhanced graphics, with notable improvements in SketchUp 2017/2018, CTVox, DIALux 8 and OriginLab.
- Improved the way a virtual machine is displayed on 4K+ monitors:
 - ◆ reduced the system and graphics memory consumption;
 - ◆ reduced the response time;
 - ◆ increased the speed of resizing the virtual machine window;
 - ◆ increased performance when 3D acceleration is turned off.
- Improved the way Windows is displayed on an external non-Retina monitor when the “Best for external displays” option is selected.
- Improved the way a virtual machine is displayed in Coherence on a Retina monitor.
- Improved the way a virtual machine is displayed in Coherence:
 - ◆ reduced system memory consumption;
 - ◆ reduced power consumption;
 - ◆ increased performance;
 - ◆ improved response time - app windows appear faster and move more smoothly.
- Reduced the number of graphical artifacts when switching a virtual machine between view modes.
- Improved the way a virtual machine is displayed on multiple monitors when the macOS “Displays have separate Spaces” option is turned off. Instead of the black screen on one of the monitors, now the virtual machine is displayed on all screens.
- To avoid black screen and slow functioning, Parallels Desktop doesn't allow a virtual machine to switch to Coherence or Full Screen if there's not enough graphics memory. Instead, there appears a message prompting how to increase the virtual machine graphics memory.
- Resolved an issue with virtual machine windows flashing black during resize when the 3D acceleration is turned off.

Getting ready for macOS 10.14 Mojave

- Parallels Desktop 14 supports Dark Mode. Support for additional Mojave features, which are currently in development, will be tested, finalised and introduced around the forthcoming public release of Mojave.
- Use the macOS Continuity Camera feature in Windows (insert pictures from your iPhone or iPad into Windows applications).
- Quick Look in Windows got the same quick actions as in macOS.
- When you take a screenshot from the Edit menu, Parallels Desktop uses the Mojave technology to take screenshots.

Integration with Mac

The border between your Mac and virtual machine becomes thinner:

- Use the camera (connected to Mac) that supports up to 4K resolutions in a virtual machine
- Use the Touch Bar to work with more Windows applications: OneNote, Microsoft Visio, Microsoft Visual Studio, AutoCAD, Autodesk Revit, Quicken, Quickbooks Desktop, SketchUp.
- Support for pressure sensitivity in Windows. You can draw in Windows apps like Microsoft PowerPoint, Leonardo or Photoshop depending on the pressure you apply to the trackpad or using a Wacom tablet connected to Mac or using apps like Astropad.
- The size of the virtual machine hard disk (.hdd file) is optimized automatically in the background by means of native Windows defragmentation. This feature works in Windows 8 or later.
- A paused virtual machine resumes automatically when you drag a file to its window.
- You get notified when a USB device you're trying to connect is being used by some macOS application or process.
- Improved the dialogs appearing when you connect a new USB device or external monitor - you can remember your choice and see where to change it later.
- The Start menu closes automatically when you start a Windows application from the Touch Bar.
- Improved the way virtual machine files are associated with Mac's applications.

Security

To avoid data loss, please don't forget to back up your virtual machine:

- Backing up a virtual machine with Time Machine has been simplified. Now if you want to add a virtual machine to the backup list or exclude it from this list, just do what you need in the Time Machine preferences.
- Backing up a virtual machine with Acronis True Image has been improved.
- Some virtual machine controls are greyed out when Parallels Tools are being updated. This is done to prevent Windows from damage.

Usability

We continue working to make Parallels Desktop more easy-to use, more understandable and more user-friendly. Thanks a lot for your feedback!

- The "Free Up Disk Space" dialog has been redesigned and simplified. Now you can use it to reduce the amount of disk space occupied by all your virtual machines.
- Parallels Desktop offers to increase the virtual disk size when Windows is running out of disk space.
- Parallels Desktop prompts you to save disk space by importing the Boot Camp partition (i.e. creating a Boot Camp virtual machine) and then deleting the partition. All its contents will remain in a virtual machine and Parallels Desktop will optimize the amount of disk space being used.
- Many minor improvements in the graphical user interface. For example:
 - ◆ Many UI messages and warnings have been rephrased. In order not to bother users with the term "virtual machine", we've decided to use the virtual machine name instead.

- ◆ As most of Windows customers have switched from Windows 8 to Windows 10, the “Enable swipe from edges” option is disabled by default in order not to confuse users.
- Windows Maintenance feature has been improved:
 - ◆ users are notified in 5 minutes before the maintenance starts;
 - ◆ users are notified if Windows didn’t perform maintenance for 30 days;
 - ◆ users can start maintenance manually.
- Parallels Desktop Help is no longer stored on your Mac. Instead, it’s displayed from the web. This allowed us to make Parallels Desktop occupy up to 200 MB less disk space and update the user’s guide in real time.
- For new virtual machines, the SmartGuard backup functionality now keeps 3 snapshots by default (not to occupy additional disk space).
- The Resource Monitor has been redesigned. Use it to check how much CPU and memory is consumed by your Mac and all virtual machines.
- Monitor the virtual machine CPU usage in the virtual machine status bar.
- Optimized the “Productivity” and “Games only” virtual machine profiles.
- Use the “Show and hide spaces on all displays simultaneously” option to switch to the virtual machine or non-virtual machine Spaces on all displays simultaneously.
- When inactive, Windows doesn’t pause automatically for some time after start. This prevents Windows from being paused when the boot process hasn’t finished yet.
- Increased the size of the progress bar on Dock icons for users to comfortably see how the progress is going on.
- New splash screens inform the user when a virtual machine is starting, shutting down, switching to Coherence or Full Screen, etc.
- A notification informs the user when archiving or unarchiving a virtual machine is finished.
- When you click a macOS notification that a technical data report has been sent, the report ID is automatically copied to the clipboard.
- The “Sign In” screen has been redesigned and simplified.
- The “Special characters” menu item in the virtual machine’s “Edit” menu has been renamed to “Emoji & Symbols” for consistency with Mac.

Linux support

- Install Ubuntu 18.04, Fedora 28, and Linux Mint 19 in virtual machines right from Parallels Desktop.
- Support for mmap() in Linux Shared Folders.

Support for keyboard layouts

To make your experience of working with Parallels Desktop more comfortable, we have:

- Improved support for the German keyboard layout.
- Improved support for the Japanese keyboard layout.
- Added support for the Brazilian Portuguese keyboard layout.

Games

- Auto-detect keyboard for games. When you start a game, the Mac’s keyboard activates Game Mode.
- When a game is launched in Full Screen, a notification informs that you should press Control + Option to access the macOS menu bar.

For Parallels Desktop for Mac Business Edition only

- Adapted the Mass Deployment package to Parallels Desktop 14.
- Use your Mac’s smart card readers in Windows.

Present for Parallels Desktop users

- Simplify your everyday tasks with more tools using Parallels Toolbox® for Mac and for Windows. (Both versions are completely free for Parallels Desktop customers.)

Additional information

- OS X Yosemite 10.10 is no longer supported as a host operating system (Parallels Desktop cannot be installed in it).

System Requirements

- Any Mac computer with an Intel Core 2 Duo, Core i3, Core i5, Core i7, Core i9, Intel Core M or Xeon processor.
- Mac's operating system: macOS Mojave 10.14*, macOS High Sierra 10.13.6 or later, macOS Sierra 10.12.6 or later, OS X® El Capitan 10.11.6 or later.
- 4 GB of memory (8 GB recommended).
- 600 MB of disk space on the boot volume (Macintosh HD) for Parallels Desktop installation.
- Additional disk space for virtual machines (SSD drives recommended for better performance). For example, for Windows 10 you need at least 16 GB of disk space.
- Internet connection (for product activation, some features, etc.).

* Once macOS Mojave 10.14 is officially released, you may need to update Parallels Desktop.

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