

## **System Requirements for Remote Application Server**

- Parallels Remote Application Server 19.1
- Parallels Remote Application Server 18.3
- Parallels Remote Application Server 18.2
- Parallels Remote Application Server 18.0
- Parallels Remote Application Server 19.0
- Parallels Remote Application Server 18.1

# System Requirements for Remote Application Server

The server hardware requirements to install and configure Parallels Remote Application Server can vary according to end-user requirements.

Typically for an installation of 30 users or under, Parallels Remote Application Server can be installed on one high specification server and the resources published directly from it. For more than 30 users, multiple servers may be required.

The below should be considered during the planning stage of a Parallels Remote Application Server deployment:

- High specification servers should be used, consisting of multiple CPU cores, a high specification disk transfer rate and plenty of RAM
- Virtual machine hypervisors can be used as long as the resources required by the end-users are calculated accordingly.
- Terminal servers should not exceed 50 users per terminal server in usage.
- The Secure Gateway should not exceed 200 users per server for incoming connections.
- When planning VDI Hypervisor resource requirements, extra requirements such as RAM usage per virtual machine and disk space should be taken into account.

#### **Software Requirements**

RAS Connection Broker and RAS Secure Gateway (64-bit versions only) are supported on the following operating systems:

- Windows Server 2012 R2 up to Windows Server 2022
- On Windows Server 2016, 2019, and 2022 both Server Core and Desktop Experience installations are supported

RAS Web Administration Service Same OS requirements as for RAS Connection Broker

RAS RD Session Host Agent is supported on the following operating systems:

- Windows Server 2008 R2 up to Windows Server 2022
- Windows Server 2016 and newer must be installed using the "Desktop Experience" installation option.
- Windows Server 2012 R2 Server Core installation option is not supported

**RAS Provider Agent** 

• Windows Server 2012 R2 up to Windows Server 2022

### **RAS Guest Agent**

- Windows Server 2008 R2 up to Windows Server 2022
- Windows 7 up to Windows 11

Remote PC Agent

- Windows Server 2008 R2 up to Windows Server 2022
- Windows 7 up to Windows 11

Parallels RAS PowerShell

- Windows Server 2012 R2 up to Windows Server 2022
- Windows 7 up to Windows 11
- Windows Management Framework 3.0 and .NET Framework 4.5.2 must be installed

Parallels RAS Console

- Windows Server 2012 R2 up to Windows Server 2022
- Windows 7 up to Windows 11

**RAS Enrollment Server** 

• Windows Server 2012 R2 up to Windows Server 2022

Parallels Client is approved for the following operating systems (both 32-bit and 64-bit systems are supported, where applicable):

- Windows 7, 8.x, 10, 11
- Windows Server 2008 R2 up to Windows Server 2022
- macOS 10.13 High Sierra up to macOS 12 Monterey. Parallels Client runs natively on both Intel and Apple M1 Mac computers.
- iOS 13.x, 14, 15; iPadOS 13.x, 14, 15.
- Android 7 up to 12
- Chrome OS

Parallels Client for Linux supports the following Linux distributions (x64 versions only):

- Ubuntu 18.04 LTS, 20.04 LTS, 22.04 LTS
- Debian 10 (Buster), Debian 11 (Bullseye)
- Fedora 34, 35
- Linux Mint 19, 20
- ThinOS/ Dell Wyse Thin Clients.

Note that ThinOS 9 and above are not supported. For a list of supported thin clients and supported hardware from Technology Partners such as Igel, HP, 10Zig, and more, please see the following KB article: https://kb.parallels.com/124606.

### **Minimum Hardware Requirements**

Parallels Remote Application Server is extensively tested on both physical and virtual platforms. The minimum hardware requirements approved to run Parallels Remote Application Server are outlined below:

- Physical Machines Dual Core Processor and a minimum of 4GB RAM.
- Virtual Machines Two Virtual Processors and a minimum of 4GB of RAM.

Port requirements for each of the separate functions can be found here.

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