



Hardware requirements for Parallels Remote Application Server 19

- Parallels Remote Application Server 19.1
- Parallels Remote Application Server 18.3

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

The minimum hardware requirements approved to run Parallels RAS 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.

Typically for an installation of 30 users or under, Parallels RAS 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 RAS deployment:

- High specification servers should be used, consisting of multiple CPU cores, a high specification disk transfer rate and plenty of RAM.
- A hypervisor-based virtual machine can be used as long as the resources needed to serve end-users are calculated accordingly.
- It is recommended that RAS Secure Client Gateway does not exceed 1200 users per server for incoming connections using the Gateway SSL mode.
- HALB usage should not exceed 2000 user sessions per HALB appliance. See <https://kb.parallels.com/125229>
- When planning VDI Hypervisor resource requirements, extra requirements such as RAM usage per virtual machine and disk space should be taken into account

When configuring RD Session Hosts, VDI, or Azure Virtual Desktop, please keep in mind that different types of workloads require different session host configurations. For the best possible experience, scale your deployment depending on your users' needs. The following table gives you an idea of how different workload types affect session host configurations.

Workload	Example users	Example apps	Max users per vCPU	Minimum
Light	Basic data entry tasks	Database entry applications, command-line interfaces	6	2 vCPUs 8 GB RAM 16 GB storage
Medium	Consultants and market researchers	Database entry applications, command-line interfaces, Microsoft Word, static web pages	4	4 vCPUs 16 GB RAM 32 GB storage
Heavy	Software engineers, content creators	Database entry applications, command-line interfaces, Microsoft Word, static web pages, Microsoft Outlook,	2	4 vCPUs 16 GB

		Microsoft PowerPoint, dynamic web pages		RAM 32 GB storage
Power	Graphic designers, 3D model makers, machine learning researches	Database entry applications, command-line interfaces, Microsoft Word, static web pages, Microsoft Outlook, Microsoft PowerPoint, dynamic web pages, Adobe Photoshop, Adobe Illustrator, CAD, CAM	1	6 vCPUs 56 GB RAM 340 GB storage

Note: Sizing guidelines are based on Microsoft recommendations on RDS or Azure Virtual Desktop multi-session hosts.

Parallels RAS Software Requirements: <https://kb.parallels.com/124910>

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