

# Parallels RAS Application Delivery and VDI Solution

Parallels® Remote Application Server (RAS) is an **all-in-one virtual desktop infrastructure (VDI)** solution that delivers applications and virtual desktops to **any device, anytime, anywhere.**



## Why Parallels RAS?

### Outstanding user experience

Parallels RAS enables users to productively work on applications and virtual desktops from any operating system (OS) with Parallels Clients for Windows, macOS, Linux, iOS/iPadOS, Android, Chrome OS and HTML5 browser. Ultra-fast login, accelerated file retrieval and fast application response, in addition to effortless multitasking, hassle-free printing, and full RemoteFX support, contribute to streamlining processes and increasing productivity.

### Enhanced data security

Deploying Parallels RAS reduces the risk of data loss and malicious activity by using policies that limit access based on user, group permissions, locations and devices. In addition, Parallels RAS supports FIPS 140-2 encryption and multifactor authentication (MFA).

### Easy to deploy, manage, and maintain

Parallels RAS streamlines the deployment and maintenance of IT infrastructures. A unified and intuitive management console, including FSLogix Profile Container integration, automated image optimization, configuration wizards and a customizable set of tools to configure Microsoft Remote Desktop Session Host (RDSH) and VDI helps reduce IT workhours. Moreover, auto-provisioning and auto-scaling are available out of the box.

### IT agility and business readiness

Parallels RAS allows organizations' IT to quickly address business demands, including integration with Windows Virtual Desktop, supporting heterogeneous Windows Servers OS environments (2008, 2008 R2, 2012, 2012 R2 2016, 2019, 2022), and virtualization platforms (VMware ESXi/vCenter, Microsoft Hyper-V, Nutanix Acropolis, Scale Computing HC3 and Microsoft Azure).

### Reduce total cost of ownership (TCO)

Parallels RAS is an all-in-one solution, saving resources, reducing the hardware footprint and lowering overhead costs. A single licensing model incorporates all the product's comprehensive features, and the learning curve for admins is fast due to free training.

---

For further information or to purchase Parallels products, contact us at +1 (425) 282 6400 (outside the Americas, +356 27 781 907), [sales.ras@parallels.com](mailto:sales.ras@parallels.com) or visit [parallels.com/ras](https://parallels.com/ras)



## Outstanding User Experience

### Any device, anywhere, anytime

Parallels RAS provides seamless access to virtual desktops and applications from practically any device— PCs, Mac, thin clients, Linux workstations, Chromebook, iPad, iPhone, Android devices and any HTML5 browser.

### Accelerated file retrieval

Quickly retrieve and enumerate local files and folders when using drive redirection. Achieve an over 90% increase in speed and stability over poor networks compared with standard RDP.

### Universal printing and scanning

Flexible printer and scanning redirection provide users with the ability to print and scan locally from their mobile device or web browser.

### Fast screen performance and GPU

By supporting RemoteFX, Parallels RAS provides users with a smooth, detailed and responsive graphical experience, regardless of video format or application, while also facilitating the use of a broader range of USB devices.

### AI-based session pre-launch

Parallels artificial intelligence engine (AI) analyzes user login habits to pre-launch sessions, significantly reducing login time while distributing the back-end workload to prevent log-on storms during peak hours.

### White-labeling

The Parallels Clients for HTML5 browsers and Windows devices include white-labeling capabilities, allowing organizations to provide a personalized look and feel of the user interface with their branding and color scheme.

### Quick keypad

Define custom key combinations to simplify repetitive key-stroke sequences. Custom keys can be tapped just like any other key on iOS/iPadOS and Android virtual keyboards.

### Native gestures

Use native touch gestures—such as swipe, drag, tap to click and zoom-in—with any Windows application on mobile devices to provide a local, workspace-like experience.

### Multitasking

Easily switch between multiple open files and applications. Use apps simultaneously with iPad multitasking features such as Slide Over and Split View on the Parallels RAS iOS/iPadOS Client.

### Extended drag-and-drop functionality

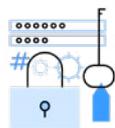
Users can drag and drop files from the server to the client and vice versa. Drag files from published resources, applications and desktops to local Windows and macOS® workstations.

### Bi-directional audio

IT administrators can enable redirection of sound input and output from the local device to the remote application and enable use of a local headset, even for server-based applications.

### Bluetooth mouse and trackpad support

From iPadOS 13.4 it's possible to use a Bluetooth mouse or trackpad with iPads providing greater precision. Parallels Client for iOS supports this capability, increasing end-user productivity.



## Enhanced Data Security

### Multifactor authentication

Provide high-level data protection for corporate assets by integrating RADIUS, Deepnet, Gemalto (formerly SafeNet), smartcard authentication, Google Authenticator and other Time-based One-time Password (TOTP) authenticators.

### Security Assertion Markup Language (SAML) single sign-on (SSO)

Streamline the management of user identities from different organizations while providing SSO capabilities. Enable users to effortlessly switch between hosted Windows, web and Software as a Service (SaaS) applications without being prompted to re-enter credentials.

### Client policy

Reinforce data security by defining sets of rules for managing, controlling and restricting the setting options available to users.

### Advanced filtering

Create an additional layer of data protection and restrict access by defining filtering rules based on users/groups, IP address, MAC address and devices.

### Client management

Limit end-user accessibility by locking down Windows PCs and transforming them into Kiosk-Mode (thin client-like) devices.

### Encryption protocols

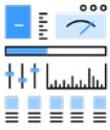
Parallels RAS Secure Client Gateway encrypts end-user connections with SSL/TLS and FIPS 140-2-compliant encryption. Ensure adherence to data compliance policies.

### Monitoring and reporting

Identify suspicious activity with detailed reports that provide useful insight into server health, application usage, connected devices and user/user group activities.

### SSL certificate manager

Centrally manage and monitor all Secure Sockets Layer (SSL) certificates from a dedicated screen in the Parallels RAS Console.



## Easy to Deploy, Configure and Maintain

### Parallels RAS Console & Management Portal

Perform available tasks through a single pane of glass. Deploy servers, publish applications, monitor resources, manage devices, offer helpdesk assistance and define security policies—all from one console. The web-based Management Portal enhances mobility, allowing administrators to work on the go.

### Wizard-based deployment

Effortlessly publish and manage a wide range of applications and desktops with an intuitive publishing wizard. Automatically generate and deploy configurable Parallels RAS templates for VDI and RDSH.

### FSLogix Profile Container integration

Easily deploy, configure and manage FSLogix Profile Containers centrally from the Parallels RAS Console or Management Portal, as the preferred integrated user profile management solution.

### Admin granular permissions

Configure custom roles for administrators and delegate control of any Parallels RAS object.

### Multi-tenant architecture

Parallels RAS provides multi-tenancy support, enabling different tenants to share access layers such as Secure Client Gateways and High Availability Load Balancers (HALBs) while keeping data segregated and reducing operational costs.

### High Availability Load Balancing (HALB)

Out-of-the-box load balancing distributes data traffic among remote desktop servers and gateways with resource-based distribution (user sessions, memory and CPU). Third-party load balancers, such as AWS Elastic Load Balancer (ELB) and Azure Load Balancers, are also supported.

### Server Console tools

For easier VM management, apply a set of utilities to access and perform specific tasks and applications on your virtual machines directly through the Parallels RAS Console.

### REST API and PowerShell API

Automate complex and repetitive tasks using REST-API and/or PowerShell cmdlets. Allow easier integration with scheduling and workflow applications into the Parallels RAS ecosystem.

### UX Evaluator and Advanced Session Metrics

Improve service delivery by pinpointing issues faster and accurately with the User Experience (UX) Evaluator metric, combined with a complete view of user session details.

### User session management

Manage any user sessions from RDSH and VDIs through the Parallels RAS Console. The helpdesk can assist users by addressing unresponsive processes: terminating them, disconnecting, logging off or sending a message.

### Automated image optimizations

Built-in automated image optimization capabilities for RDSH, VDI or Windows Virtual Desktop workloads improve the user experience, reduces IT infrastructure costs and accelerates time to production.

### Auto-provisioning and auto-scaling

Parallels RAS templates are configured to allow on-demand deployment or removal of VMs to accommodate traffic requirements. On-premises, hybrid and public cloud deployments are supported.

### Linked clones

Utilize linked clones and replicate an available VM instead of creating a full one. Multiple VMs can share the same software installation, saving storage space and reducing deployment time.

### Dynamic VM lifecycle management

Set a preconfigured number of active virtual machines (VMs) along with their lifecycle. Unused, nonpersistent VMs can be recreated or deleted after a predefined time.

### Client autoconfiguration

Quickly enroll new users to access published applications and desktops with a single click on the autoconfiguration link.

### Automated notifications and custom actions

Customize event handlers such as CPU, memory, sessions and connections count to automatically execute PowerShell notification scripts.



## IT Flexibility and Business Readiness

### One-stop solution for RDS and VDI

Parallels RAS allows organizations to manage Microsoft Remote Desktop Services (RDS) and VDI environments in the same infrastructure, streamlining IT operations while reducing cost and complexity.

### Remote PC

Enable any domain-joined physical or virtual workstation to be securely accessible to remote workers. Easily enable remote access by publishing desktops and applications from Remote PC.

### Hypervisor independent

Parallels RAS is a VDI hypervisor-independent solution that allows organizations to mix and match different technologies such as Microsoft Hyper-V, VMware ESXi, Nutanix Acropolis (AHV), Scale Computing HC3, Microsoft Azure hypervisor and others.

### RDSH and VDI Local Storage Distribution

Parallels RAS provides the ability to deploy clones from templates to the local disks of multiple independent Microsoft Hyper-V hosts, rather than only using centrally shared storage such as SAN.

### Multi-cloud ready

Parallels RAS supports on-premises, hybrid and public cloud deployments on Microsoft Azure, Amazon Web Services (AWS), Google Cloud and more.

### Unified Windows Virtual Desktop Integration

Extend Windows Virtual Desktop capabilities by integrating, configuring and unifying all virtual workloads and resources from a centralized console. Integrate Parallels RAS deployments with Windows Virtual Desktop, delivering a single solution to end users.

### Heterogeneous Windows Server OS environment

Parallels RAS can manage different Windows Server OS versions on the same farm, enabling administrators to deliver applications and desktops simultaneously from Windows Server 2008/R2, 2012/R2, 2016 and 2019.



## Reduce TCO

### Reduce complexity

Easy to deploy, configure and maintain, Parallels RAS allows organizations to reduce IT complexity while increasing staff and users' productivity.

### Fast learning curve

Parallels RAS is an easy-to-use solution that requires minimal knowledge to configure and manage the infrastructure, thereby reducing the learning curve. Moreover, full training on Parallels RAS is provided free of charge.

### No expensive add-ons

Parallels RAS is a full-featured, modular, cost-effective application delivery and VDI solution. It does not require third-party add-ons for load balancing, printing redirection, monitoring, reporting and more.

### All-inclusive single license model

The Parallels RAS single license model includes all capabilities out of the box, providing enterprise-range features such as application and VDI delivery, load balancing, multi-cloud and 24/7 customer support.

### Concurrent user model

Parallels RAS uses concurrent user licensing. Users can establish any number of connections to Parallels RAS for as long as the number of users simultaneously accessing Parallels RAS does not exceed the number of available licenses.

### Service Provider License Agreement (SPLA)

Parallels RAS SPLA model is licensed per peak number of concurrent users over a billing period. The data is automatically collected on a daily basis from each farm and is used to calculate the licensing cost at the end of a billing cycle.

### Manage sub-licensing

Parallels RAS supports sub-licensing, allowing organizations to manage multiple independent keys while retaining centralized consumption information.