



lafabops Cloud — The only fully automated self-hosted cloud infrastructure!

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The lafabops cloud infrastructure

lafabops cloud is not software. It is a complete virtual infrastructure, built on a set of native cloud tools, all hosted within a physical server.

It enables the virtualization of network components as well as powerful workstations equipped with GPU resources, ideal for team-based 3D modeling projects.

To facilitate remote team collaboration, lafabops cloud directly integrates industrial-grade security protocols: end-to-end encryption, strategic resource protection, multi-factor authentication, identity and access management.

Users access their desktops, applications, and software directly through a web browser (Chrome, Firefox, Safari, Opera...), regardless of their operating system. No local installation or VPN client is required.

The lafabops cloud infrastructure naturally integrates with your company network. It operates autonomously, without requiring any changes to your existing infrastructure.

Thanks to our simple and automated management interfaces—"lafabops VE manager", "lafabops VE GUI", and "lafabops OIDC provider"—you can easily manage your workstation resources: GPU, RAM, SSD, vCPU, software, remote users, and their access.

In just a few clicks, you can create or delete virtual machines, manage users and permissions, start or stop work environments, manage remote access, and renew your SSL certificates.

lafabops cloud offers you all the functionalities of the cloud, with a high level of automation and no need for expertise in networking, security, or software administration.

You can install any services you need, such as NAS, databases, web servers, collaboration tools, file management, business applications, and more.

High-Speed Storage and Remote 3D Streaming

With lafabops cloud, you benefit from performance far superior to that of public cloud services.

High-bandwidth data transfers.

lafabops network drives deliver up to 7 GB/s, matching NVMe performance. Large 3D models open instantly. File operations respond in real time. Collaborative workflows remain smooth, even with heavy project data.

Full streaming of Remote Desktop sessions

lafabops cloud integrates full video streaming between your browser and your virtual desktop using a GStreamer-based pipeline.

This ensures ultra-low latency, smooth 3D interaction, and real-time adaptation to network conditions.

Our physical servers

lafabops cloud is powered by a high-performance physical server installed on your premises, designed to handle intensive and continuous virtualization workloads.

Processing is based on AMD EPYC Zen 3 processors, known for their virtualization-optimized architecture: up to 64 physical cores, 256 MB of L3 cache, and advanced multi-threading management.

Memory relies on ECC DDR4 modules, providing up to 2 TB to ensure reliable performance in critical environments.

Primary storage is handled by NVMe SSDs, delivering speeds over 7 GB/s, combined with high-capacity SATA drives for mass storage.

Graphics processing is supported by professional NVIDIA GPUs, suitable for 3D modeling, technical visualization, and accelerated computing.

Cooling is managed by controlled ventilation systems, ensuring thermal stability and 24/7 continuous operation.

Each server is assembled in a 19" rack chassis, compatible with your network or IT cabinets, tested in-house, and compliant with CE, FCC, and ROHS standards, with remote monitoring via IPMI.



Our open source technologies

lafabops cloud is built on a robust ecosystem of open source technologies, known for their reliability, security, and ability to automate modern cloud infrastructure.

At the core of our servers are proven tools for orchestration, configuration management, virtualization, automation, authentication, and monitoring.

Each component is selected for its performance, seamless integration in virtualized environments, and compatibility with enterprise requirements.



All technologies used in the lafabops virtual infrastructure are based on free and open source software, ensuring transparency, independence, and long-term sustainability.

No subscription, no licensing fees

You pay no monthly fees, no subscription.

lafabops cloud comes with no recurring costs: a one-time payment for an on-premise infrastructure that you fully control.

For running software that requires a Windows environment, we can purchase Windows Server licenses on your behalf and install them on your lafabops cloud server.

Available options

Virtualization is based on a type 1 (bare-metal) hypervisor, Linux KVM (Kernel-Based Virtual Machine), which is free and open source under the AGPLv3 license.

The operating systems

For using 3D CAD software such as Revit, AVEVA E3D, AutoCAD, etc., Windows Server licenses are required. That's why we offer to acquire the appropriate Windows Server licenses on your behalf and install them on your lafabops servers, in accordance with Microsoft's licensing requirements.

Installation of Windows Server on your lafabops server

Three options are available depending on your usage mode:

Option 1 — Windows Server 2022 Standard + User CAL (Client Access License)

This option is ideal if each team member accesses a session or virtual machine remotely using a personal account.

We install a Windows Server 2022 Standard license, available in 16, 32, or 64-core versions depending on your server, along with the number of User CALs needed to cover all remote accesses.

Example: for a 64-core lafabops server with 20 named users, you will need a Windows Server 2022 Standard 64-core license and 20 User CALs.

Licenses are one-time purchases, with no subscription.

Pricing is available on the official Microsoft website:

<https://www.microsoft.com/en-ie/d/licence-daces-client-windows-server-2022-standard/dg7gmgf0d6m5/0002?source=lp>

Option 2 — Windows Server 2022 Standard + Device CAL (Client Access License)

This option is suitable when multiple users connect from a limited number of fixed workstations or virtual machines, such as in a shared workstation pool on your lafabops server.

We install the appropriate Windows Server 2022 Standard license based on your server's configuration, along with the number of Device CALs corresponding to the workstations used for access.

Example: for use across 10 access VMs, a 64-core Standard license and 10 Device CALs are sufficient, regardless of the number of users.

Option 3 — Windows Server 2022 Datacenter + Device CAL (Client Access License)

This option is recommended if you plan to run a large number of Windows Server virtual machines on your lafabops server.

The Datacenter license allows an unlimited number of Windows Server VMs on a single physical host.

It is paired with Device CALs, based on the number of virtual access points to these Windows environments.

Example: for a 64-core lafabops server hosting 20 Windows Server virtual machines, accessed remotely by 25 users via browser, you will need a Windows Server 2022 Datacenter 64-core license and either 25 User CALs or 25 Device CALs, depending on your chosen access management strategy.

Technical support and commercial warranty

Each lafabops cloud server includes 12 months of technical support, with replacement of defective parts.

Functional validation upon delivery

Upon delivery, a reference virtual machine is integrated into the infrastructure. It serves as a validation point to ensure the solution functions correctly. This VM is accompanied by structured configuration files: a machine file, which defines the selected deployment model (template, system configuration, resources), and a user file, which describes the users to be created, their access parameters, and the distribution of associated virtual environments.

All deployment steps are validated as operational based on this setup. Free software support covers cases where the automation or delivered features do not behave according to this initial configuration.

Premium Installation Option

After assembling your server and installing the lafabops tools, we offer an optional advanced customization period to fine-tune your environment according to your business needs, internal processes, and team structure.

Whether it involves organizing remote access, structuring your virtual resources (VM distribution, GPU/RAM/CPU allocation, network configuration), or integrating specific users and groups, our team supports you to ensure your infrastructure meets your requirements from day one.

This customization phase is included in the "Premium Installation" service and serves as a full validation step for the production launch of your ready-to-use lafabops cloud.

Additional software options

Support requests related to customizations made after delivery—such as adding new features to the management interface, installing additional software or services like a NAS, mail server, database, or backup service—are not included in standard support.

Standard support limitations and personalized assistance

Situations related to the client's local environment (power outages, network failures, DNS issues, firewalls, etc.), specific internal configurations, or unapproved modifications to the delivered systems are not covered under basic support.

For such cases, lafabops offers tailored assistance to integrate, validate, and maintain these changes within your environment, while ensuring infrastructure consistency and stability.

Test the power of lafabops cloud

Want to explore lafabops cloud before committing?

We provide free access to evaluation servers so you can test our various virtualization solutions: 3DCore, 3DPerformance, or X3DPerformance.

Simply submit a request through our website or via the evaluation request form.

You'll receive a response within 8 business hours, along with your secure connection links : <https://www.lafabops.fr/book-a-meeting/>

Pricing Table

Pricing Table (Excl. VAT Price)

TABLE PRICE lafabops 2025			
Hardware			
	Dedicated Server Series		
	3DCore	3DPerformance	X3DPerformance
Platform	EPYC Zen 3	EPYC Zen 3	EPYC Zen 3
Cores	16	32	64
vCPU	32	64	128
RAM	up to 2TB	up to 2TB	up to 4TB
GPU option	No GPU	Grid GPU	Grid GPU/vGPU
Max GPU powered VMs	-	20	40
Max VMs	16	32	64
NVME	up to 6	up to 6	up to 6
SAS3 (12 Gbps) controller	1	1	1
SATA	up to 8	up to 8	up to 8
Network Controllers	2x 10GBase-T LAN	2x 10GBase-T LAN	2x 10GBase-T LAN
USB 3.0 ports	6	6	6
Cluster-ready	Yes	Yes	Yes
Power	1000W	1200W	1500W
	Standard Setup Server		
	3DCore	3DPerformance	X3DPerformance
Cores	16	32	64
vCPU	32	64	128
RAM	256GB	512GB	512GB
GPU	No GPU	NVIDIA A10	NVIDIA A40
Video RAM	-	24GB	48GB
GPU powered VMs	-	20	30
Max VMs	16	32	64
NVME	2x 2TB	2x 2TB	2x 4TB
SATA	1x 4TB	1x 4TB	1x 4TB
Network Controllers	2x 10GBase-T LAN	2x 10GBase-T LAN	2x 10GBase-T LAN
USB 3.0 ports	4 + 2 headers	4 + 2 headers	4 + 2 headers
Size	4U	4U	4U
Format	19" Rackable	19" Rackable	19" Rackable
Power	1000W	1200W	1500W
Requires NVIDIA Licence	No	No	vGPU option
Price for Standard Setup	Contact us	Contact us	Contact us
Price including GPU + NVIDIA Licence	-	-	Contact us

Options	Price
SATA	On demand
NVME	On demand
GPU	On demand
vGPU	On demand
RAM	On demand

lafabops Virtual Infrastructure

Cloud & Software	Standard Installation	Premium Installation
KVM Hypervisor	Yes	Yes
Immutable IaaS	Yes	Yes
Automation Engine	Yes	Yes
Repository	Yes	Yes
Secure remote access	Yes	Yes
SSL certificates	Yes	Yes
OAuth and OIDC built-in	Yes	Yes
Cloud Administration Interface	Yes	Yes
Supervision dashboard	Yes	Yes
AVEVA Admin project automation tools	Yes	Yes
Windows CAL Installation	CAL user	CAL user / device
Windows Licences	No	No
AVEVA licences	No	No
Tailored Installation*	No	Yes
Licence	Single Payment	Single Payment
Subscription renewal	No	No
Price	Contact us	Contact us

* For premium installations, the server is preconfigured according to your specific needs. The entire virtual infrastructure is deployed and validated before delivery, making it fully operational upon arrival.

Windows Server 2022 (Prices are indicative. Please refer to the official Microsoft website for accurate pricing.)

Indicative price for Windows Server 2022 Standard edition**	
32 cores + 20 CAL	3,596 €
64 cores + 20 CAL	6,264 €

** <https://www.microsoft.com/en-ie/d/licence-dacces-client-windows-server-2022-standard/dg7gmgf0d6m5/0002?source=lp>

Pricing examples

Use case 1: 10 users without GPU acceleration

Options		Price
Server	3DCore	Contact us
GPU option	-	-
Server Setup	Standard Setup Server	included
lafabops cloud Installation	Standard Installation	Contact us
Windows Server 2022 CAL option	Standard + 10 CAL user	1,798 €
Total Price		Contact us

Use case 2: 20 users with GPU acceleration

Options		Price
Server	3DPerformance	Contact us
GPU option	Grid	included
Server Setup	Standard Setup Server	included
lafabops cloud Installation	Premium Installation	Contact us
Windows Server 2022 CAL option	Standard + 20 CAL user	3,596 €
Total Price		Contact us

Use case 3: 30 users with GPU acceleration

Options		Price
Server	X3DPerformance	Contact us
GPU option	Grid	included
Server Setup	Standard Setup Server	included
lafabops cloud Installation	Premium Installation	Contact us
Windows Server 2022 CAL option	Standard + 30 CAL user	6,764 €
Total Price		Contact us

Contact / Appointment Scheduling

For any inquiries, to place an order, or to schedule an appointment, please contact us via:

Mail : contact@lafabops.fr

Contact page : <https://www.lafabops.fr/contact/>

Schedule an appointment on : <https://www.lafabops.fr/book-a-meeting/>