

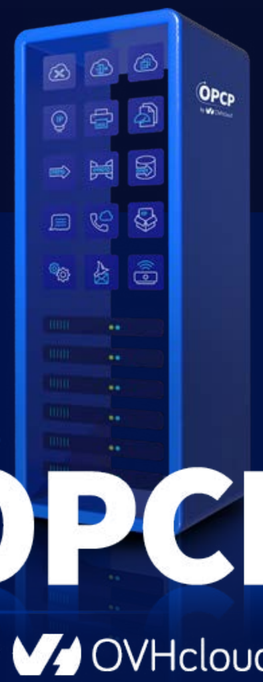
OPCP

On-Prem Cloud Platform

Scalable. Sovereign. Interoperable.

Future-proof your IS.

Master the complexity,
Accelerate the delivery.



OPCP
by OVHcloud

Going back to basics with the Cloud.

A battle for control has placed today's CIOs on the front lines.

Cloud providers are reshaping the market around their tools and standards, app publishers are pushing for native integration with their preferred cloud services, and integration partners are steering customers to technologies under their control. Businesses, in their haste, may not fully grasp the implications of issues related to data, technological, and operational sovereignty.

And the result? CIOs now have to make constant trade-offs between risk mitigation (especially Shadow IT), cost control, and oversight.

CIOs have to walk a tightrope between:

- **The need to innovate,** adapt quickly, and respond effectively to business challenges, particularly those posed by explosive AI growth;
- **Cost control**, which is now harder to manage due to the unpredictable nature of the public cloud's pay-per-use model;
- **Data protection**, which is becoming more and more burdensome due to strict regulations, as well as the threat of reputational damage and financial penalties linked to data leaks;
- **Intense commercial pressure from providers** eager to sell services, who also overwhelmingly shape strategic choices.





It’s now more crucial than ever for CIOs to safeguard their autonomy, build an open infrastructure, and retain decisive control over architecture.

In this context, bringing strategic cloud workloads back in-house makes perfect sense. Especially now that on-premises cloud can be operated without deep expertise in the underlying technologies, allowing your teams to focus on upskilling.

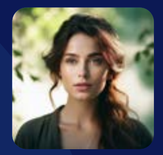
With OPCP, the CIO is back in charge.

CIO priorities in 2025



I have a server room with machines I can't power down or modernise

My on-premises setup is still in place. It's too costly to ignore, yet not used frequently enough to generate profit. I'm looking for a solution that can help me capitalise on my past investments.



I need to accelerate, without handing off control

The boom in digital projects has led to higher business expectations. I'm concerned about giving up control of my infrastructure and potential data exposure. My day-to-day involves finding a balance between agility and oversight.



My teams are running on empty...or leaving to join cloud providers

Hiring is difficult; employee retention is even more challenging. I need to create motivating projects, maintain skills, and restore a sense of purpose to internal IT roles.



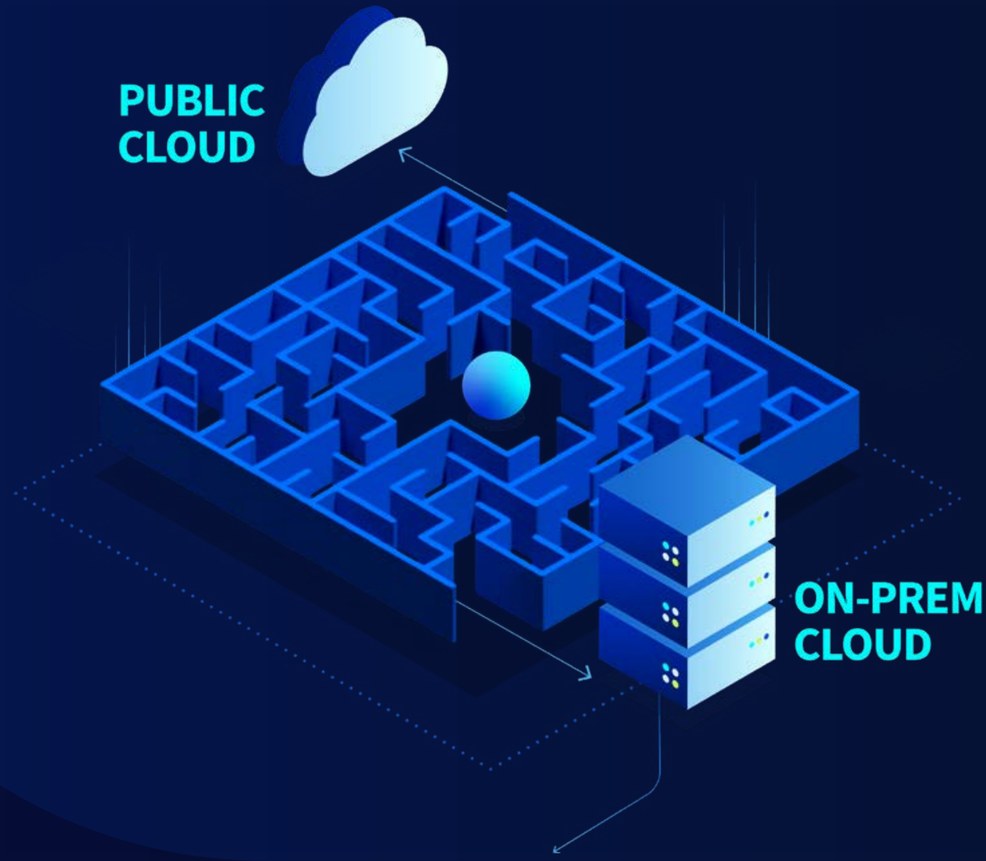
My cloud budget has become as unpredictable as the weather

Operating costs are soaring. I need alternatives to the public cloud model; while ideal for testing and overflow, it's not viable for all information systems.



I've become overly reliant on a limited number of providers

Although helpful in accelerating our digital transformation, these providers have become a risk. How do I take back control?



What's your biggest challenge today? On-Prem Cloud Platform largely addresses most of these challenges—no trade-offs.

Step up to the highest level of sovereignty with on-prem cloud.



Companies, healthcare institutions and government organisations are entrusted with sensitive data: This includes data relating to customers, patients, users, or employees, as well as trade secrets and confidential project information.

The widespread use of SaaS applications, and the recent surge in AI-powered services (translation, speech-to-text, image recognition, generative AI, etc.), has greatly increased the risk of data leaks. Unapproved and uncontrolled IT services, especially generative AI platforms like ChatGPT, represent a growing trend of '**Shadow IT**' and more recently '**Shadow AI**'.

It's no longer safe to distribute critical data, sensitive streams, and strategic workloads across the public cloud; doing so leaves your data vulnerable to extraterritorial laws, data breaches, and unauthorised use in AI model training.

Protecting sensitive data within a controlled and auditable scope is crucial for meeting regulatory requirements (GDPR, DORA, NIS2, HDS, etc.) and mitigating legal risks. This implies restrictions on both data governance and its residency.

OPCP offers you a trusted environment—your infrastructure, your rules. You can prove, trace, and justify. Sensitive data remains on your premises, meaning you no longer need to systematically navigate complex data transfer laws that hinder daily tasks.

Lastly, **sovereignty also means technological autonomy**. OPCP's operating system, built on open-source solutions, guarantees **both interoperability and reversibility in your projects**. You can integrate this on-prem cloud building block into a hybrid strategy by combining it with OVHcloud's hosted resources. It's best to have a BCP/DRP in place or surplus resources.

With OPCP, you gain access to the technology powering OVHcloud's infrastructure, a technology so secure it has earned OVHcloud the SecNumCloud label, France's most rigorous cloud security qualification. If you need to use this approach, OPCP will save you valuable time.



Shadow IT and Shadow AI: contain the invisible threat.

80% of employees have used an IT solution without their CIO's approval[1]. Half of cloud app purchases are made by employees, with business units accounting for 35% and IT teams for just 15%[2].



The shift to remote work has driven a 59% surge in unauthorised use of applications and services (Shadow IT). 54% of CIOs now say their organisations face a much higher risk of data breaches due to this increase[3]. Among businesses surveyed about security incidents in the past year, 35% attributed the causes to Shadow IT[4].

Simply put, the lack of visibility into the tools used by employees prevents CIOs from ensuring that sensitive data is properly protected within the company's boundaries. And they no longer have control over IT spending.

By leveraging the necessary business tools via OPCP, companies can regain control of their infrastructure and curb the growth of Shadow IT. What's more, the Cloud Store's growing range of ready-to-use PaaS tools and packaged business apps will continue to expand over the next few months. It provides access to a catalogue of off-the-shelf software and PaaS services, deployable in one click within a secure multi-tenant environment. Open up access to your custom applications and enhance a platform that can grow along with your requirements.

[1] Stratecast and Frost & Sullivan Survey.
[2] SAP/LeanIX Study.
[3] CORE. Transforming Business Through Technology. CORE Research Report, 2020.
[4] CESIN (2023) Annual Barometer: 8th Edition. CESIN



OPCP comes with chargeback/showback tools that allow you to monitor resource consumption, set quotas, and (re)bill departments for services used. What better way is there to add value?

Cut down on needless spending.

The Cloud, particularly the Public Cloud, offers agility, but its usage-based billing can be costly.

Cost unpredictability isn't the only pitfall. There is also the issue of dependence on cloud providers and licensed technological building blocks. You lose your negotiating power when locked into non-interoperable ecosystems with exorbitant exit fees. IT is not immune to crisis: expenditures require careful review and adjustments.

OPCP comes with chargeback/showback tools that allow you to monitor resource consumption, set quotas, and (re)bill departments for services used. What better way is there to add value?

FinOps' growing popularity shows just how difficult it is to minimise cloud costs: optimising data and workloads requires more than just selecting the best providers for each resource type. So the focus now is on raising user awareness, and taking control by consolidating your infrastructure on a self-managed on-premises cloud—with OPCP

OPCP lets you modernise and generate more returns on your past IT investments (server rooms, networks, power, and manpower). You can also choose between a capital (CAPEX) or operational (OPEX) strategy. What's more, you can easily scale your platform thanks to options ranging from 1/4 rack to 100 racks.

Retain your in-house talent.

Outsourcing can help speed things up; it can also lead to low employee morale and loss of in-house IT skills—a downside of cloud migration.

OPCP is the perfect tool to boost team morale: you run a next generation cloud stack without the need to handle complex hardware and low-level maintenance. In other words, your teams steadily gain expertise by handling every aspect of cloud service delivery.

The Landing Zone Manager provides a suite of operational tools focused on service delivery (DevOps), security, and end-user activity monitoring.

The Cloud Store gives you a modern cloud environment featuring S3 API, K8S, DBaaS, etc. In just a few clicks, you can deploy services such as VMware, Nutanix, OpenStack, MinIO, CEPH, and much more, with your basic operations fully automated. IAM, KMS and observability tools are deployed simultaneously for each service.

The OPCP solution includes hardware and an OS that can be used to scale, secure, and maintain the infrastructure autonomously, supported by either a certified local partner or OVHcloud teams.



Plan for surprises. Stick to the basics.

Resilience isn’t conjured out of thin air. It’s built, block by block. Fully outsourcing infrastructure leaves your business vulnerable to vendor failures or physical damage (e.g., a severed fibre-optic cable).

In air-gapped or standalone mode, **OPCP gives you complete autonomy, maintaining all its core capabilities without reliance on a public network**, ensuring operational sovereignty.

This way, you have full control over physical and logical access to resources, minimising your infrastructure’s exposure and limiting the attack surface.

Edge computing excels with sensitive and real-time workloads (industry, retail, or CCTV) that demand extremely low-latency and zero downtime.
Data is processed very close to its point of origin to cut down on unnecessary data transfers.

OPCP can thus serve as the core platform for your high-availability architecture, ensuring business continuity through remote site backup, even in worst-case scenarios. Free from vendor limitations, you can then craft a personalised strategy by taking advantage of your various sites.



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USE CASE | **01**

My R&D is top secret

Our R&D efforts rely heavily on advanced technologies, including AI, ML, analytics, HPC, and extensive datasets.

These workloads require a modern, high-performing on-premises infrastructure, which is financially out of reach for many entrepreneurs. As a result, most turn to public cloud resources to train their algorithms, infer, and store results. As is typical for R&D, workloads tend to fluctuate greatly over time.

And the risk? A competitor stealing your idea before a product launch through leaks or blackmail, for example.

Thanks to OPCP, you can isolate your R&D activity within a sandbox, and give users access to tools and data on isolated workstations and workloads. This high-security subnet, modelled after OPCP's air-gapped mode, operates independently of public networks, and is managed by the company's trained IT teams.

OPCP's versatility allows it to host various services—VDI, computing (CPU/GPU), AI, Object Storage, or DBMS/DBaaS—all with top performance and minimum latency delivered by an outsourced public/private cloud.



Don't take any more risks: balance performance with confidentiality.



OPCP

USE CASE | **02**

A gradual move away from the Public Cloud

A reported 8 out of 10 companies have already begun repatriating their most critical workloads from the cloud. This is motivated by factors such as rising cloud costs, complex and dispersed resources, regulatory pressure, the need for more autonomy, and the potential to boost critical application performance by reducing latency.

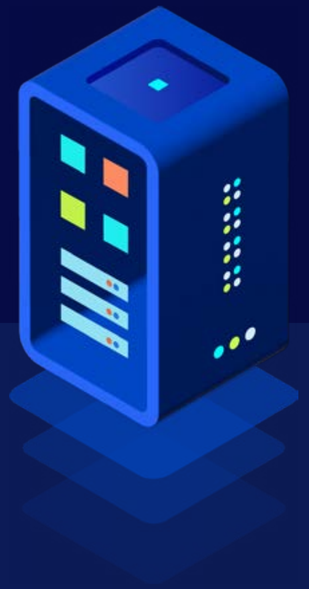
Addressing various needs, **OPCP offers a modern**, sound, and secure approach. It acts as a **pathway for gradually moving strategic workloads back to an on-premises** cloud, without compromising cloud flexibility or compatibility with modern cloud-native applications.

This is a scalable solution that allows for a phased repatriation; it provides ample time to upskill teams before considering a full-scale return of mission-critical workloads, or a policy change that prioritises on-premises cloud development over outsourcing.

Ultimately, the goal isn't to abandon the cloud entirely—the public cloud offers useful, complementary capabilities—but to find a cloud approach that is best suited to each scenario, while meticulously weighing costs and risks.



Repatriate strategic workloads without giving up the benefits of the cloud.



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USE CASE | 03

Becoming your group's Cloud Provider

One plus of being a large corporation is the ability to share support services. This is, of course, a matter of cost optimisation through economies of scale. It also involves attracting top experts, prioritising the latest technological advancements, and applying security or governance policies consistently across the board.

Paradoxically, while the cloud offers greater autonomy to each site/subsidiary/business unit, it has also introduced several disadvantages: dispersed resources across multiple providers, limited resource and expertise sharing, a decline in internal infrastructure skills, and the bypassing of security policies.

With OPCP, CIOs can reclaim their role as group-wide digital service providers by running a single internal cloud portal accessible to all subsidiaries—without compromising the ease of use their teams are accustomed to with public cloud services.

OPCP equips you with the tools to set quota and internal chargeback policies, service-based SLAs, etc., all within a scalable, controlled infrastructure that adapts to your changing demands.



OPCP has restored the CIO's crucial role in fostering innovation.



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USE CASE | 04

Hosting your own AI services



Using pre-trained, open-source models (translation, speech-to-text, character recognition, and computer vision), **you can—and should—create and host your own AI services** and train them on your own data.

This option is cheaper and safer than the readily available **AI-as-a-Service** solutions used across the organisation for tasks such as generating meeting minutes, content, and customer support, or conducting market research.

The same goes for generative AI services: while training large language models demands considerable data and computing power, fine-tuning them with your own data is a feasible way to provide real-world experience and enhance business capabilities.

OPCP has enormous potential, particularly as a tool for creating sovereign AI services while protecting company data from leaks, and enabling the provision of AI-powered features (e.g., virtual assistants) to customers.

A highly versatile hyperconverged platform, OPCP can host GPU servers as needed, supporting a wide array of services including high-performance object storage and user-friendly, low/no-code tools for developing AI services.

Contain the unchecked growth of Shadow AI to avoid data breaches.



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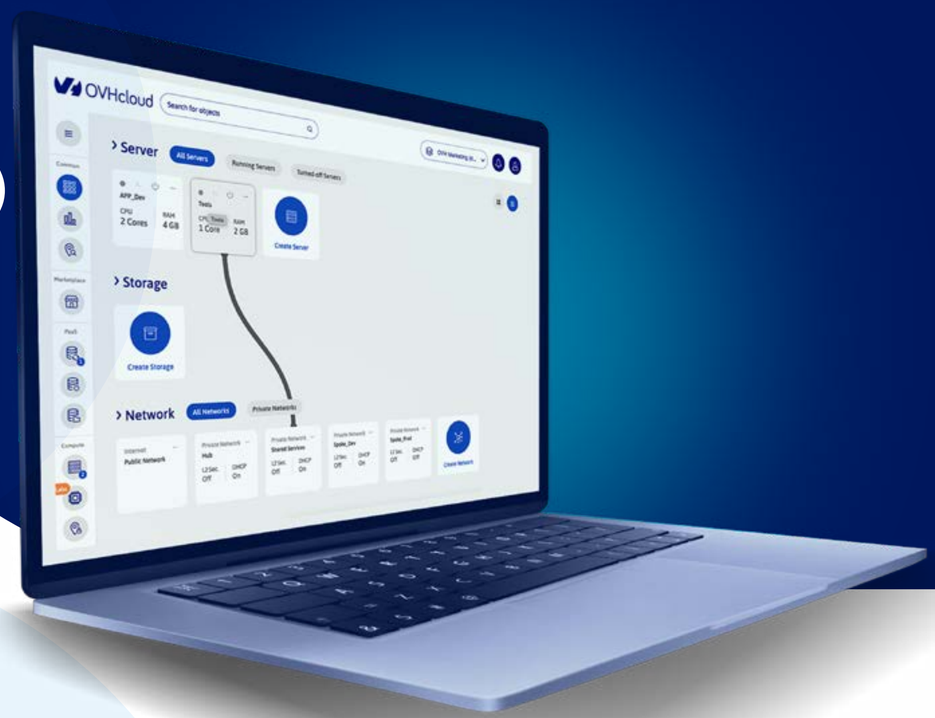
USE CASE | **05**

On-prem platform engineering



IT teams have become accustomed to the speed and ease of spinning up development and test environments in the public cloud. This is suitable for developers needing agile and responsive tools for their projects. Self-service reusable components, FaaS, and ready-to-use building blocks are included to accelerate DevOps.

This results in unpredictable costs: it's entirely feasible to power down development and test environments, and set usage limits on on-demand resources. But how often is this actually done?

Importantly, there is a legitimate concern about data sovereignty and project confidentiality.

Local infrastructure can also support platform engineering.
Empower your developers with OPCP: equip them with a complete set of components, libraries, tools, services, and streamlined workflows to maximise their efficiency and output.
With maximum automation handling these tasks, developers can focus their time and energy on adding real value.

So what's at stake? When developers have quick access to their work tools, it not only reduces latency but also improves data security, controls costs, and enhances performance.

Since development and production use the same technological stack, there are no unexpected production issues.

Take back control without slowing down your developers.



OPCP

A pairing with purpose

Proven technical solution, combined
with industry-specific expertise.
Clearly, there are things we need to do together.

Cases to develop, adapt, and test

There’s no shortage of use cases: edge, factories,
critical sites, disconnected infrastructure, and much
more. What if we focused on one or two key areas
to make real progress?

A workshop, a chat, a POC?

We don’t need to put everything on hold just yet.
Let’s brainstorm, see which ideas make sense,
and gradually build.

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