

Data Centre Extension and Migration

Managing your Digital Transformation with Ease



Digital Transformation is moving fast. Data Centre Extension and Migration are key to keeping pace.

As fast as the digital world has moved in the past few years it's still increasing exponentially; global data is estimated to be 45ZB in 2019 and 175ZB by 2025. What does that mean for you and your organisation? Well, it brings both opportunities and challenges. As information technology goes through yet another transformation, it's reshaping how we do business, how we interact, how we make decisions, and how we organise our society.

More and more, and less and less

More data creates more challenges for IT leaders trying to figure out what to do with it all. Where will you store it? How can you ensure what's needed is readily available? Most importantly, how can you remain within your IT budget when there's less and less of it, and even free up funds for experienced and new talent? If you often experience

sudden changes in workload or computing needs, you need to be able to deploy new resources quickly and effectively. Having only an on-premises environment can slow this down or even grind this to a halt. As organisations are forced to update their on-premises environment's legacy hardware and software, a progressive transition through data centre extension can eliminate the risk of obsolescence. You enjoy the benefit of the latest hardware

and software while you retain full control over your infrastructure and data. Alternatively, you may want to migrate your on-premises workloads to the cloud and decommission your on-premises data centres. Perhaps you want to host a new application or diversify your list of cloud providers. Whatever your specific situation, there are extension and migration solutions to suit your needs.

What is a data centre migration or extension?

A data centre migration is the process of migrating an entire pre-existing on-premises infrastructure to the cloud, hosting it in an external data centre and decommissioning the existing infrastructure.

This sort of large-scale move to the cloud is a highly effective way of avoiding hardware obsolescence in legacy infrastructures. It also frees your internal teams of the need to monitor on-premises physical hardware, allowing them to focus their attention on developing your IT deployment and driving ongoing business growth. This is further enhanced by the freedom to add, delete and scale resources that the cloud offers, meaning you retain the ability to design and deploy your iIT deployment in the way that suits you, just as you would with on-premises servers.

A data centre extension, on the other hand, involves retaining specific elements of an on-premises infrastructure while migrating others to the cloud or creating whole new elements in the

cloud. In either case, this is accomplished through secure, private connections between your on-premises infrastructure and your cloud solutions. There is a wide range of potential applications for such architectures. For example, you may retain your on-premises infrastructure for hosting your websites and applications, while taking advantage of the scalability of the cloud for your storage requirements. Alternatively, you might utilise the cloud on a project-by-project basis to accommodate anticipated spikes in traffic, deploying new virtual servers when they are needed.

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How a data centre migration or extension could benefit your organisation

The potential benefits of a data centre migration or extension will depend on your long-term goals and the specific solutions you elect to put in place. For this reason, it is important to be clear about your short- and long-term goals before investing time and money in any strategic data centre solutions.

You might, for instance, design your infrastructure to ensure maximum redundancy so that uptime is never affected in the event of a hardware or software failure. Alternatively, you may want to minimise the ongoing storage cost of legacy data without compromising security. It's therefore important to begin the process with a comprehensive data centre migration assessment to clarify your goals, existing infrastructure, and current level of internal cloud expertise. This will determine which combination of solutions will prove most effective and can then be used as the basis of an effective project plan for the entire migration process.

Following this assessment, a data centre migration checklist is strongly recommended to ensure your data is protected at every stage of the migration and any downtime is kept to the absolute minimum. This way, your teams will be able to start making use of your new infrastructure straight away, avoiding many of the common data centre migration challenges.

Benefits of OVHcloud Data Centre Extension or Migration

Built on VMware® VMware brings compute, storage and network virtualization into a natively integrated stack that combines hyper-converged software (vSphere plus vSAN) with network virtualization (NSX), enabling a simpler and cheaper way to deliver a private cloud. VMware can accelerate your data centre extension or migration to the cloud by delivering consistent infrastructure and operations.

Migrate or extend VM machines to the cloud without any changes and migrate all workloads with consistent infrastructure to minimise the cost.

Adding resources and hosts is fully automated, and our own public-facing API allows customers to automate systems effortlessly.

Affordable. You can opt for monthly billing, allowing you to convert CapEx to OpEx for your replication site. This way, you will be able to implement a disaster recovery plan that's fully in line with your preferred RPO/RTO strategy, based on clear costs and business objectives.

Security. OVHcloud is dedicated to delivering products and services that adopt industry best practices to meet a comprehensive set of security standards.

Hardware and software protections such as OVHcloud DDoS protection are included as standard; our security experts quickly identify and mitigate up to 5Tbps DDoS at no additional cost.

Compliance. This includes multiple local certifications and attestations applicable to our data centres and products around the world. OVHcloud offer a comprehensive list of compliance certifications, such as EBA or ACPR certifications for financial service operators, and AgID certifications for public sector organisations in Italy.

Our compliance options are user-friendly, saving you time and money and allowing you to implement a multi-data centre approach with ease. Our Information

Systems Policy (ISSP) sets out the concepts required to understand our approach, while establishing a link between the context of operations, and the methods used to ensure protection.

We also allow third-party audits for certification purposes.

How a data centre migration or extension could benefit your organisation – *continued*

Performance for demanding apps.

We offer a full SSD datastore range with higher capacities of storage, fully dedicated to the customer, with no back-up stored on your repository. This is the most cost-effective choice for intensive enterprise workloads such as highly transactional databases, web streaming and dense environments like VDI.

Our powerful and highly scalable vSAN solutions eliminate large upfront investments, reducing total costs and allowing customers to scale on their own terms.

Support and professional services.

OVHcloud offer a range of support services to suit your needs. This ranges from priority management to round-the-clock support, to our most premium support service which includes a key account manager, and continuous improvement services that consistently optimise your infrastructure setup.

Our Professional Services take this a step further by supporting customers in all facets of their operation. From defining the target architecture to migrating environments, and even training your IT teams. We help our customers reach their goals by supporting their infrastructure ambitious every step of the way.

“ **OVHcloud Professional Services helped us gain the knowledge to get the best storage performance from our Dedicated Servers...**

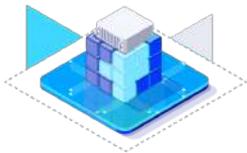
Cédric De St Martin, VP Operations / SRE of Wiremind



Connect your data centres to OVHcloud data centres

With multiple Points of Presence (PoPs) and dedicated network connectivity, you can connect to OVHcloud global infrastructure, including any of our data centres. The OVHcloud fiberoptic private network between data centres provides you with access to all the resources you need, with both VMware virtualization and dedicated bare-metal servers. Data is transferred between sites via a direct private link or VPN, which means all your exchanges are secure.

Thanks to advanced automation and connectivity, you can move your existing workloads to OVHcloud using both VMware virtualization and world-class dedicated servers, depending on your needs.



On-demand Resources from OVHcloud

OVHcloud resources are available on demand to shift your legacy on-premises infrastructure to the cloud, respond to activity overflow in your data centres, host a new cloud-based application or migrate your existing virtual machines to OVHcloud data centres with minimal downtime. You can transfer all or part of your business (i.e., data and virtual servers) without changing the technology or architecture you already know and trust. Retaining the latest versions of the solutions and licenses (VMware, vSphere) you use internally.



Extend or migrate your on-premises infrastructure

You'll cut down the time you spend on maintaining, updating, and scaling your existing on-premises solution. You can easily incorporate high-performance dedicated servers equipped with the latest technology into your infrastructure. Your internal costs will go from CapEx to OpEx, which means you will no longer need to pay for licenses for network and hardware, instead renting and resizing them as required.



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