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IONOS
AWS
AZURE
GCP

IONOS, leader in cloud price performance ratio

Compute Benchmark from Cloud Mercato

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Content

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Summary

This report provides a detailed analysis of cloud computing performance and cost-efficiency, comparing IONOS with leading providers like Azure, Google Cloud, and AWS. Compiled by Cloud Mercato, the report presents benchmark data that highlights how IONOS delivers exceptional value and performance.

In the competitive landscape of cloud computing, businesses often face the challenge of balancing cost and performance. While American hyperscalers such as Azure, Google Cloud, and AWS dominate the market, IONOS emerges as a formidable alternative. With a strong emphasis on data sovereignty, regulatory compliance, and customer-centric support, IONOS offers a compelling option for businesses navigating the complexities of cloud adoption.

Key highlights:

- **Performance benchmarks:** This report evaluates vCPU performance, RAM efficiency, network bandwidth, and more across multiple providers using rigorous testing methods.

- **Cost-efficiency:** Understand how IONOS offers significant savings without compromising on performance, providing a cost-effective solution for your cloud computing needs.

- **Reliability and support:** Discover IONOS's dedicated customer support and reliable infrastructure, backed by 25 years of experience in hosting and cloud services.

By the end of this report, you will have a thorough understanding of why IONOS is a leading choice for businesses seeking high-performance and cost-effective cloud solutions. Analyse the data, compare the results, and see how IONOS stands out in the cloud computing landscape.

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1   About Cloud Mercato

Cloud Mercato is the international leader in cloud computing benchmarking and analysis. Committed to neutrality and precision, Cloud Mercato employs proven benchmarking methods to deliver objective and reliable data. Our comprehensive evaluations span over 200 cloud providers worldwide, providing businesses with the insights needed to make informed decisions.

Cloud Mercato's benchmarking expertise:

- **Rigorous testing:** Utilizing advanced benchmarking tools and methodologies, Cloud Mercato evaluates cloud performance metrics including CPU efficiency, RAM utilization, network bandwidth, and more.

- **Unbiased analysis:** As an independent entity, Cloud Mercato guarantees impartial results, free from any provider influence, allowing for transparent and trustworthy comparisons.

- **Extensive coverage:** Our analyses span a vast array of cloud services, providing a holistic view of the global cloud landscape.

1.1   What's special about IONOS, according to Cloud Mercato?

When analysing IONOS's performance ratio, several factors stood out. The most striking aspect was the exceptional balance between cost and performance. IONOS demonstrated a remarkable ability to deliver high-quality performance at a significantly lower cost compared to its competitors. This balance is crucial for businesses looking to maximize their cloud investments without compromising on efficiency or reliability.

- **Cost-performance ratio:** IONOS consistently offered a superior price-performance ratio, making it a cost-effective choice for various cloud computing needs.

- **Reliable performance:** The dedicated core instances from IONOS showed stable and reliable performance across different tests, indicating robust infrastructure and dependable service.

- **Regulatory compliance:** As a European provider, IONOS adheres to strict data protection regulations, which is increasingly important for businesses concerned about data sovereignty and security.

> Cloud Mercato's detailed analysis highlights IONOS as a compelling option for businesses seeking efficient and cost-effective cloud solutions, reinforced by strong regulatory compliance and reliable performance.

2   vCPU - A Convincing Standard Performance

The virtual CPU (vCPU) is a critical metric for evaluating the price and performance of cloud computing services. It represents the computing power allocated to a virtual machine and is essential for understanding the efficiency and cost-effectiveness of different cloud providers.

Importance of vCPU in performance evaluation:

- **Core performance indicator:** The vCPU is a fundamental measure of a virtual machine's ability to handle computational tasks. Higher vCPU counts typically equate to better performance, particularly for compute-intensive applications.

- **Scalability and flexibility:** vCPUs allow for scalable and flexible cloud solutions, enabling businesses to adjust their computing power based on workload demands. This adaptability is crucial for optimizing resource utilization and managing costs effectively.

- **Comparative benchmarking:** Evaluating vCPU performance across different providers help identify the best options for specific needs. It allows for a direct comparison of how efficiently each provider can handle similar workloads, facilitating informed decision-making.
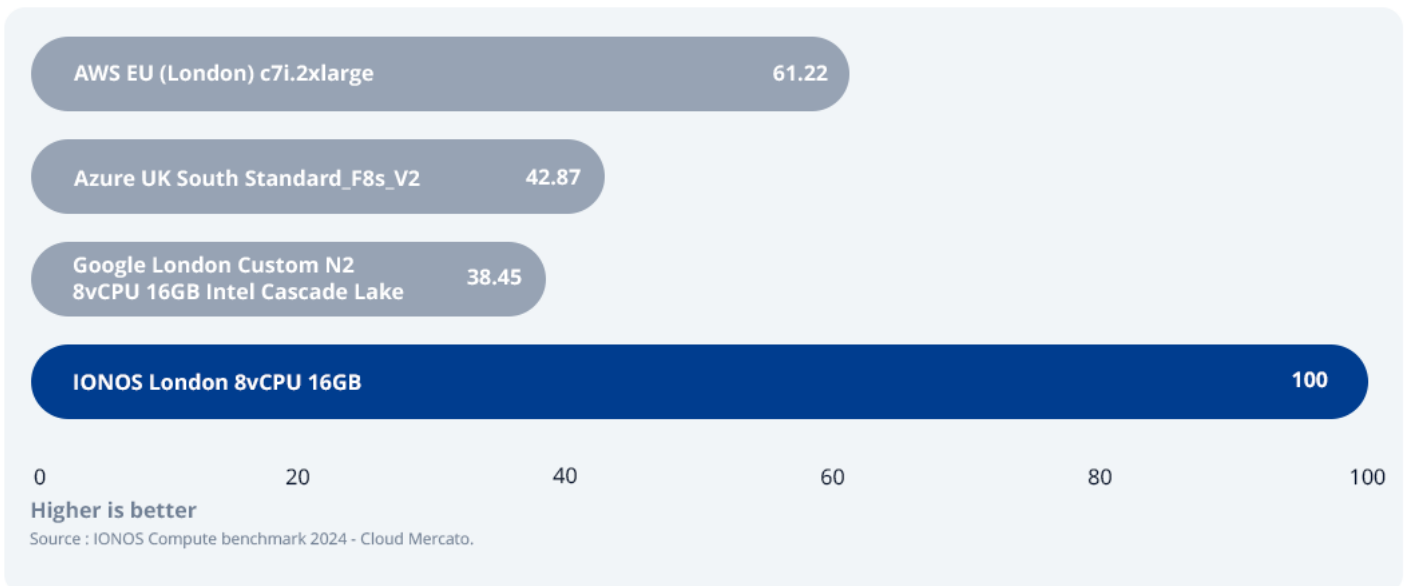
2.1   IONOS vCPU Performance

In Cloud Mercato's benchmarking tests, IONOS excelled in vCPU price-performance ratio. Sysbench CPU tests showed IONOS offers cost-effective power with competitive pricing, ensuring significant savings without compromising performance. Their stable vCPU performance indicates a robust infrastructure supporting demanding workloads.

Sysbench CPU - Normalized price/performance benchmark (index 100)

> ### x3.6
> The price/performance ratio of Ionos's 8vCPU 16GB solution is 2.6 times better than Google's Custom N2 8 vCPU 16GB in United States.

AWS EU (London) c7i.2xlarge	61.22
Azure UK South Standard_F8s_V2	42.87
Google London Custom N2 8vCPU 16GB Intel Cascade Lake	38.45
IONOS London 8vCPU 16GB	100

0   20   40   60   80   100

Higher is better

Source : IONOS Compute benchmark 2024 - Cloud Mercato.

3   About IONOS

Your cloud deserves robust foundations
IONOS stands out in the cloud computing landscape with its strong foundations and customer-centric approach. Here's why IONOS is a reliable choice for your cloud needs.

25 years of experience in hosting and cloud services
With a rich history of over 25 years in the industry, IONOS has developed extensive expertise in hosting and cloud services. This long-standing experience translates into reliable and efficient solutions that businesses can trust.

Customer-centric approach with exceptional expert support
IONOS prioritizes its customers by offering exceptional support from dedicated cloud experts. This customer-centric approach ensures that businesses receive personalised assistance, enabling them to optimize their cloud infrastructure and achieve their goals efficiently.

Curated portfolio to simplify your cloud choices
IONOS offers a curated portfolio of cloud services designed to simplify decision-making. Instead of navigating through countless instance types, IONOS provides carefully selected options tailored to meet diverse business needs. This approach saves time and helps businesses quickly find the best-suited solutions for their specific requirements.

"IONOS's commitment to robust infrastructure, customer satisfaction, and simplicity makes it a standout choice in cloud computing."

Anthony Monthe
CEO & Cloud Benchmarker @Cloud Mercato

3.1   Key strengths

- **Proven reliability:** Decades of experience have honed IONOS's ability to deliver dependable and high-performance cloud services.

- **Expert guidance:** Access to knowledgeable experts ensures that businesses receive the support they need to thrive in the cloud environment.

- **Simplified choices:** A streamlined portfolio helps businesses focus on what matters most — leveraging cloud technology to drive success.
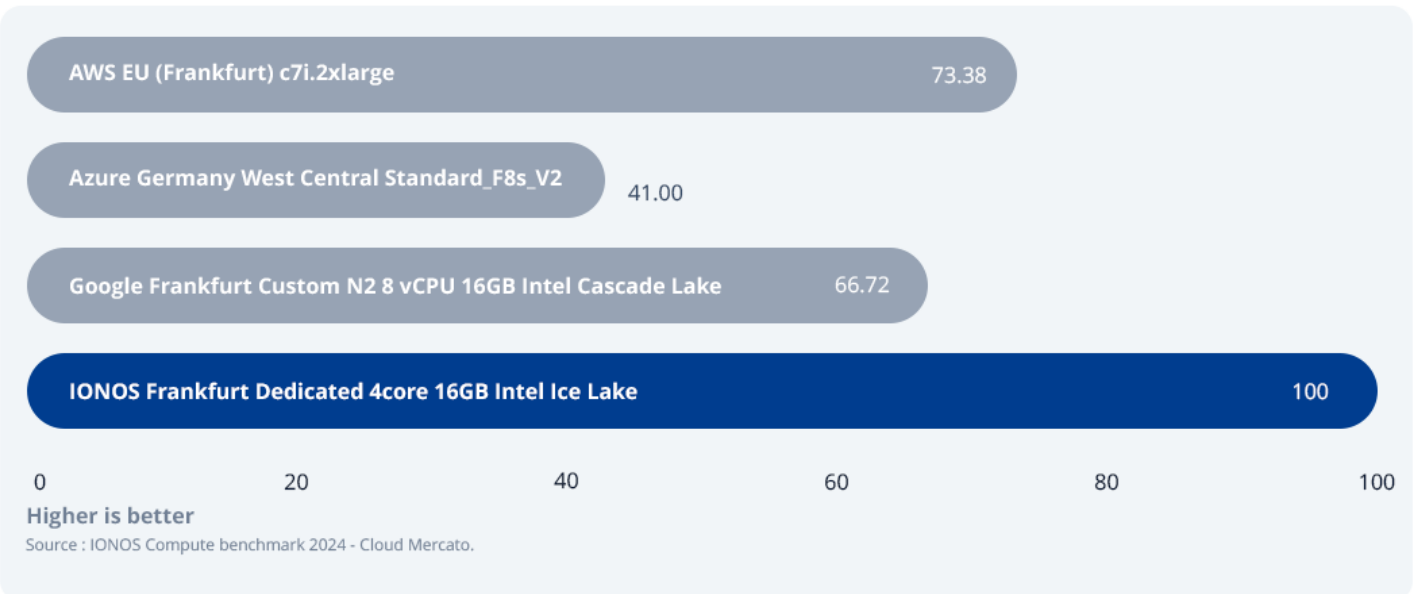
4   IONOS Dedicated Core: Unique Product

IONOS's dedicated core instances are designed to deliver high performance and reliability. The benchmarking tests reveal that these instances provide consistent and powerful computing capabilities, making them ideal for demanding applications.

4.1   Performance across different tests

In Cloud Mercato's benchmarking tests, IONOS excelled in terms of vCPU price-performance ratio. The Sysbench CPU tests showed that IONOS offers cost-effective computing power with competitive prices, delivering substantial savings without affecting performance. Although they are not the leaders in raw performance, the efficiency of IONOS's resource allocation allows businesses to optimize their cloud investments, making it a smart choice for budget-conscious companies.

Sysbench CPU - Normalized price/performance benchmark (index 100)

Instance	Score
AWS EU (Frankfurt) c7i.2xlarge	73.38
Azure Germany West Central Standard_F8s_V2	41.00
Google Frankfurt Custom N2 8 vCPU 16GB Intel Cascade Lake	66.72
IONOS Frankfurt Dedicated 4core 16GB Intel Ice Lake	100

Higher is better

Source : IONOS Compute benchmark 2024 - Cloud Mercato.

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4.2 Why IONOS stands out

IONOS stands out by providing superior value through more computational power per dollar spent compared to AWS, Google Cloud, and Azure.

The cost efficiency of IONOS's dedicated core instances allows for significant budget optimization without sacrificing computing power.

Additionally, these instances ensure consistent performance by isolating resources, preventing any impact from other users. This combination of high performance and cost-effectiveness makes IONOS a compelling choice for businesses with demanding computing needs.
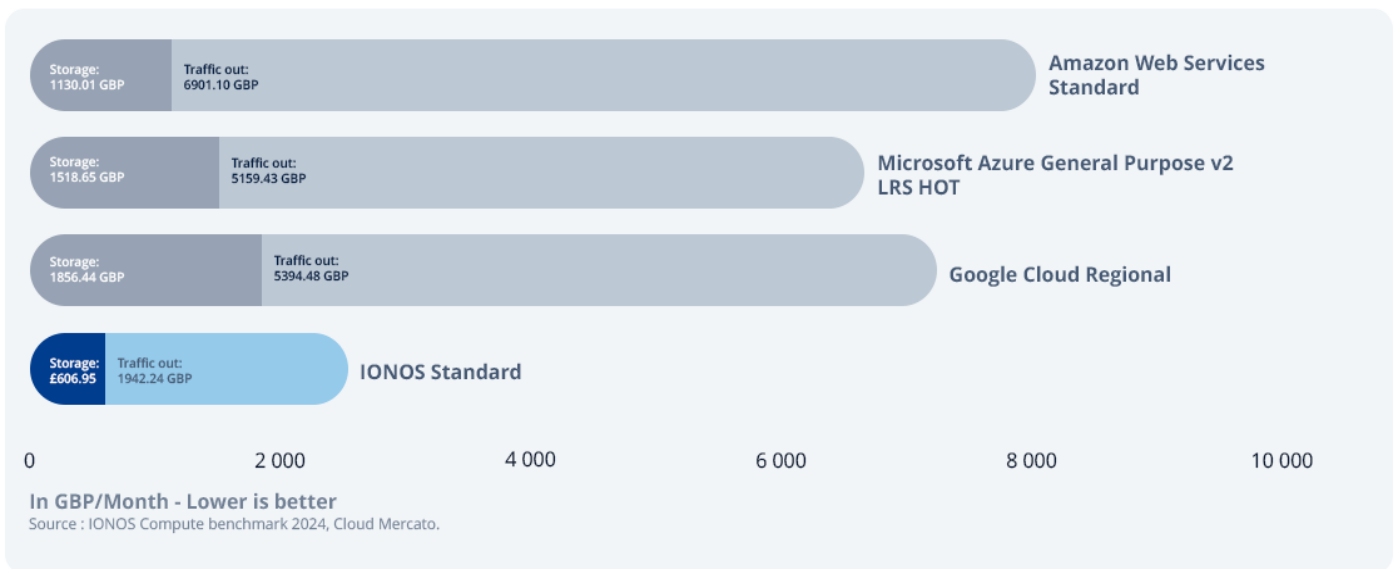
5 Go Beyond

IONOS's portfolio extends far beyond basic cloud services, offering a comprehensive range of solutions from Infrastructure as a Service (IaaS) to Private Cloud, Kubernetes, and Database as a Service (DBaaS). These services are designed to meet diverse business needs with high efficiency and reliability.

5.1 Comprehensive IaaS solutions

IONOS's IaaS services are designed to deliver optimal performance for various use cases:

- **Storage and backup:** IONOS provides reliable and scalable storage solutions that ensure data integrity and availability, all at competitive prices. This makes IONOS a dependable choice for businesses looking for cost-effective storage options.

- **Compute:** IONOS stands out with its exceptional price-performance ratio for vCPUs. This means businesses can achieve excellent computational power while optimizing their budget, making IONOS a smart choice for cost-conscious enterprises.

- **Network services:** IONOS offers essential network services, including observability tools, load balancing, and security features. These services ensure a resilient and secure network infrastructure, supporting high-traffic demands effectively.

Object Storage Pricing (Storage 100 TB and Traffic Out 100 TB)

Storage: 1130.01 GBP — Traffic out: 6901.10 GBP	Amazon Web Services Standard
Storage: 1518.65 GBP — Traffic out: 5159.43 GBP	Microsoft Azure General Purpose v2 LRS HOT
Storage: 1856.44 GBP — Traffic out: 5394.48 GBP	Google Cloud Regional
Storage: £606.95 — Traffic out: 1942.24 GBP	IONOS Standard

0   2 000   4 000   6 000   8 000   10 000

In GBP/Month - Lower is better
Source : IONOS Compute benchmark 2024, Cloud Mercato.

5.2   Advanced DBaaS capabilities

The IONOS DBaaS portfolio provides scalability, high availability, and comprehensive management with automated backups, monitoring, and main-tenance, ensuring performance, downtime, and simplifying database manage-ment for core business focus.

5.3   Kubernetes and Private Cloud

IONOS also delivers managed Kubernetes and Private Cloud solutions, providing businesses with the tools they need to innovate and scale:

IONOS Managed Kubernetes allows for seamless deployment, management, and scaling of containerised applications. With automated updates, robust monitoring, and integrated security, businesses can focus on development without managing complex infrastructure. High availability and easy workflow integration make it an ideal choice.

For businesses requiring dedicated resources and enhanced security, the-**IONOS Private Cloud** solutions offer a tailored environment that meets specific compliance and performance requirements. This combines the flexibility and control of a private data center with the scalability and cost benefits of the cloud.

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6   Conclusion

With over 25 years of experience, IONOS ensures reliable and secure cloud services. Their customer-centric approach and dedicated support further enhance the value provided to businesses.

IONOS excels with its exceptional price-performance ratio, particularly in vCPU services, making it an attractive option for businesses seeking to maximize their ROI. The extensive portfolio includes IaaS, DBaaS, managed Kubernetes, and Private Cloud solutions, offering versatile and robust options tailored to various business requirements.

With a strong focus on delivering excellent value, IONOS combines performance, reliability, and cost-efficiency to support your cloud computing needs.

6.1   Take your next step now

- **Discover benchmark results:** Access detailed performance metrics and benchmarks at Cloud Mercato to see how IONOS compares.

- **Connect with experts:** Schedule a call with an IONOS expert to learn more about how their solutions can benefit your specific needs.

- **Join our webinars:** Attend our webinars to explore the IONOS portfolio and discover how to efficiently build and manage your infrastructure using our Data Center Designer (DCD).

IONOS is committed to providing the robust foundations needed for your cloud endeavors. Leverage their expertise and innovative solutions to drive your business forward with confidence.
Start computing and building your infrastructure with IONOS's intuitive DCD by signing up now.

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