



Benchmark of IaaS providers in Europe

Cloud Mercato survey – December 2021

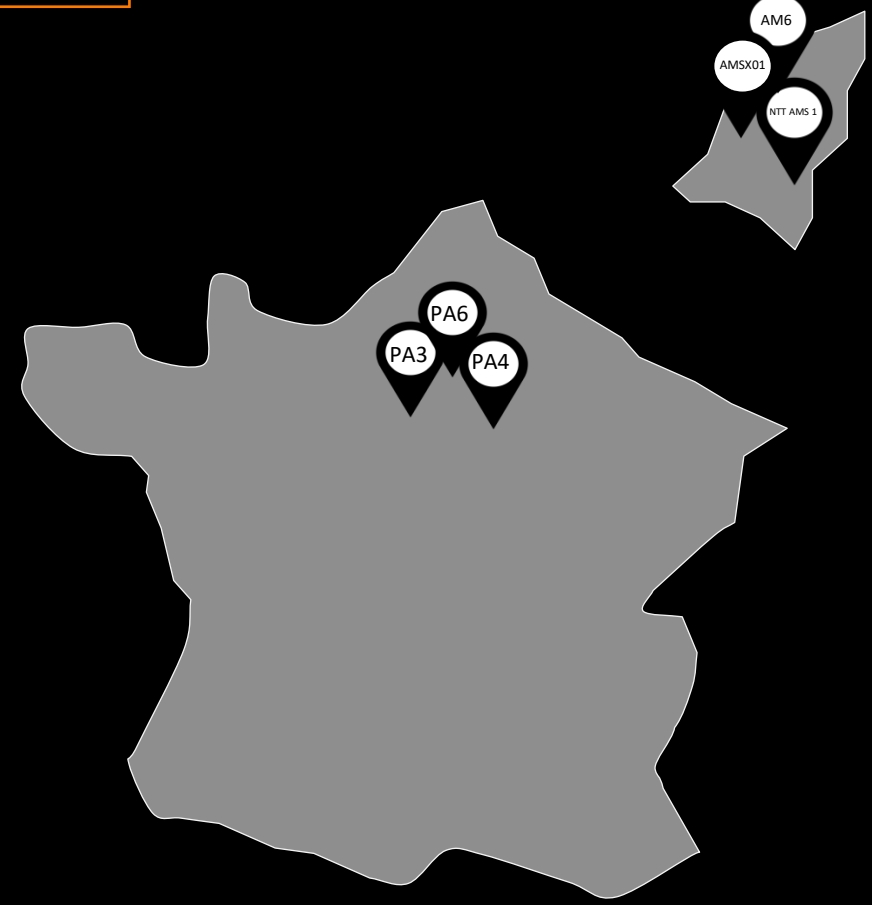
Scope of the study

Cloud Mercato has analysed the cloud solutions of

25 IaaS providers implemented in the European cloud market, including the ones of

9 hyperscalers :

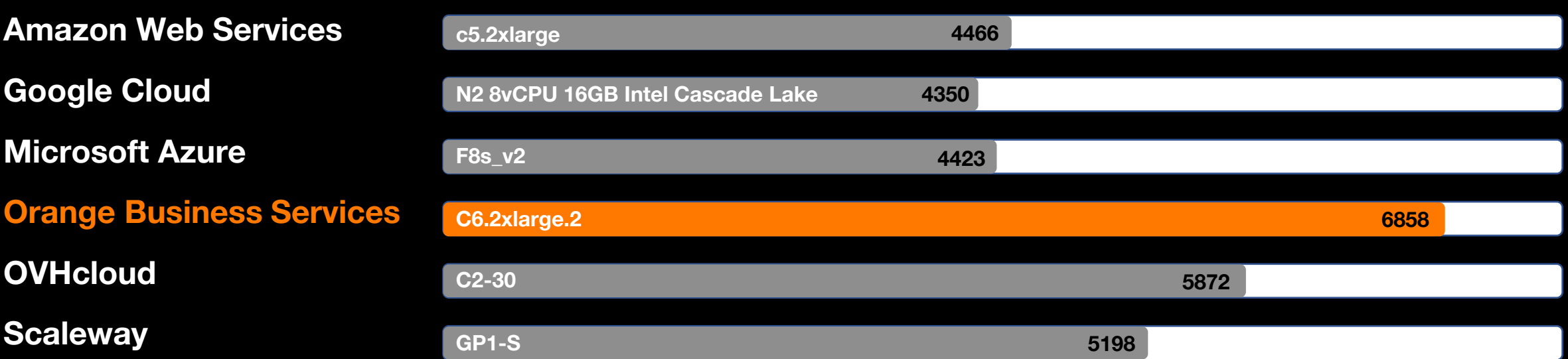
- Alibaba Cloud
- Amazon Web Services
- Google Cloud
- IBM Cloud
- Microsoft Azure
- Oracle Cloud
- Orange Business Services**
- T-Systems Open Telekom Cloud
- Tencent Cloud



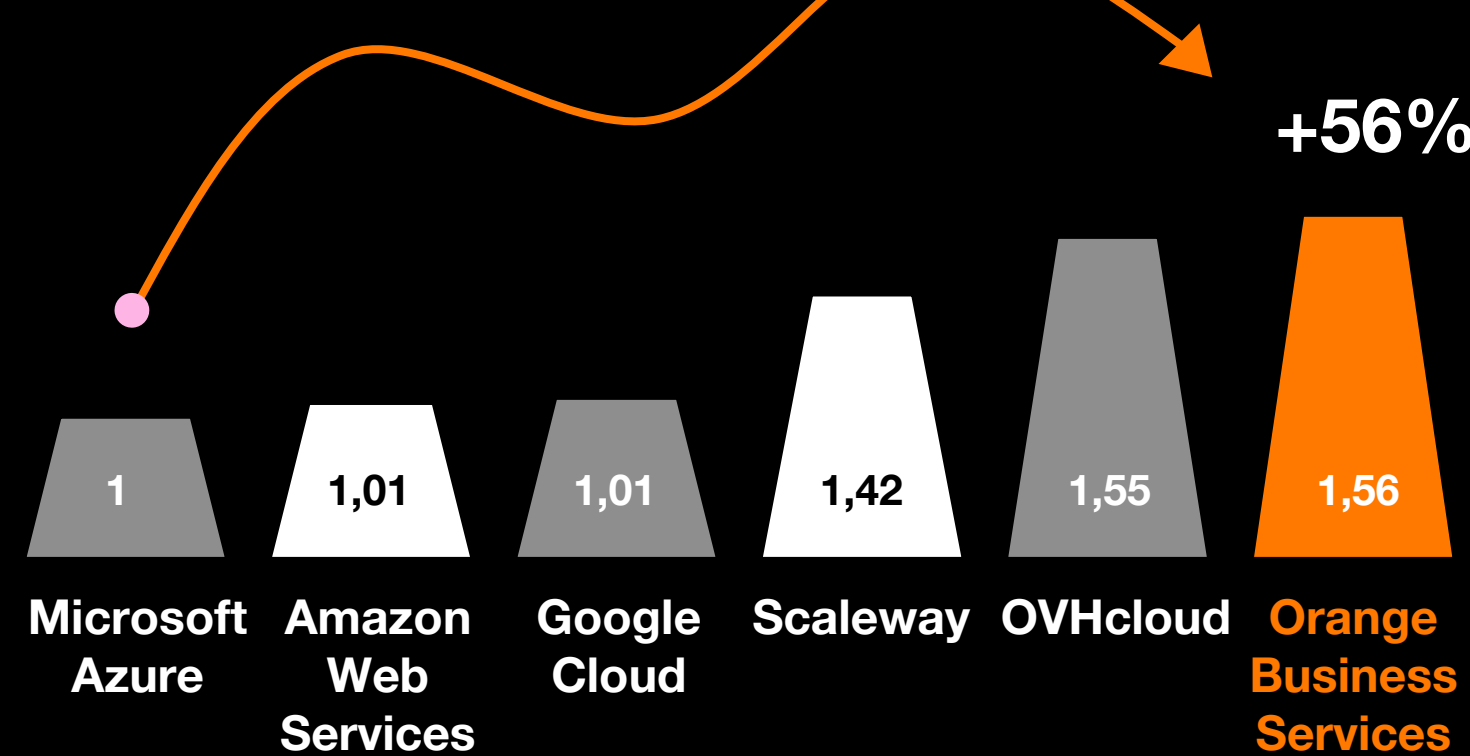
Our datacenters are located in **France** and the **Netherlands**

Performance

The Geekbench scoring software performs tests such as Machine Learning, HPC simulations or cryptography, to give a virtual machine's (VM) multi-CPU score. The higher the score, the better the performance.



Performance/price ratio*

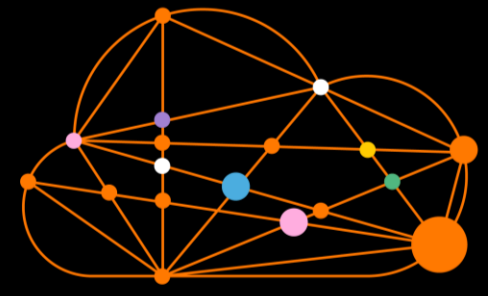


Using the same VMs, our public cloud has a better performance/price ratio: for every €1 spent, Orange Business Services customers benefit from 56% more performance than other IaaS providers on average after one year of use.

* This is the multi-CPU score divided by the annual fee

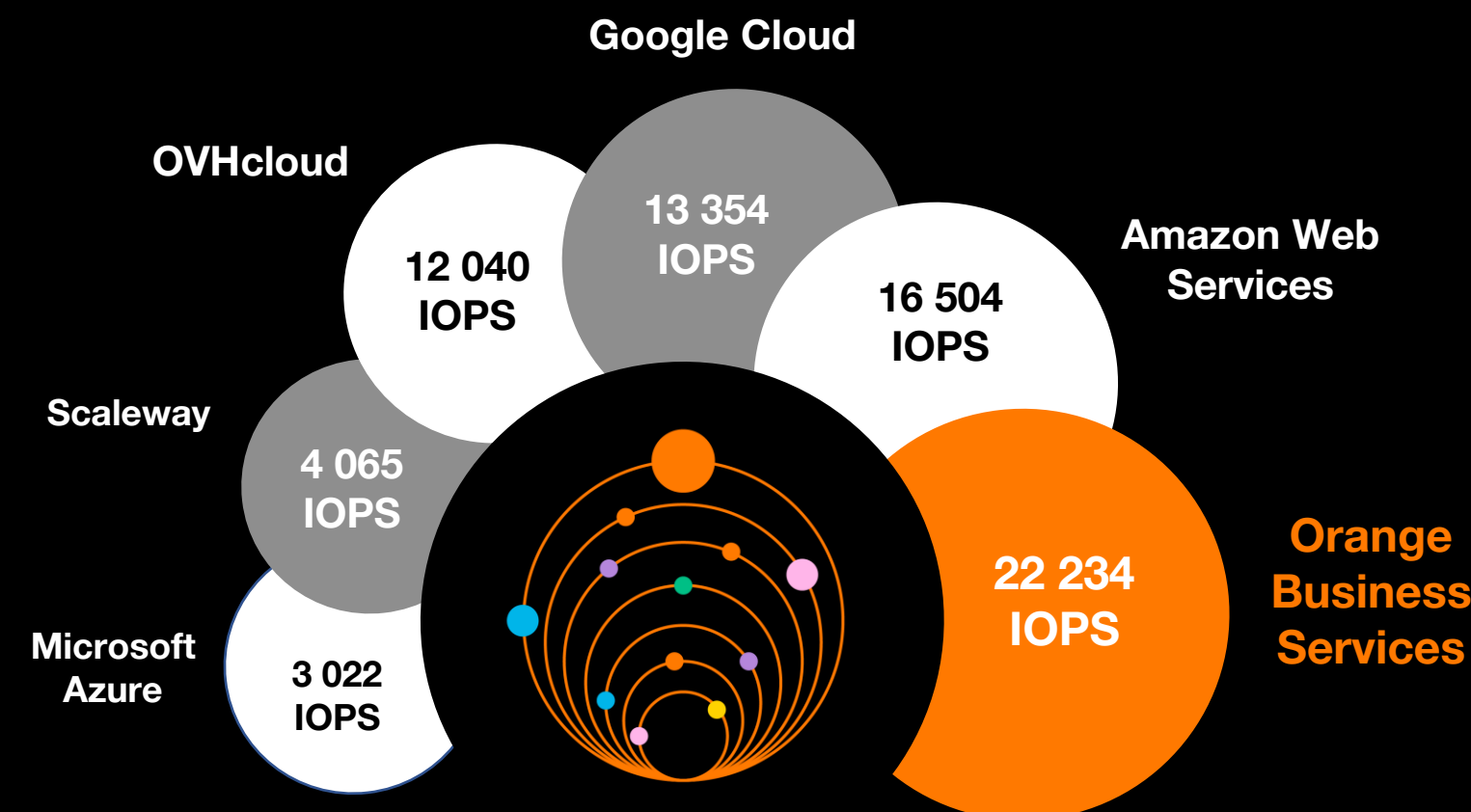
Block Storage

Input/Output per second (IOPS) measures the speed of execution of a database or other disk-intensive task. The results are obtained with the Flexible I/O Tester (FIO) tool.



Configuration FIO

- 4 kb blocks
- random access
- read then write
- direct access to device without filesystems
- Libaio engine



Our cloud : a driving force for innovation

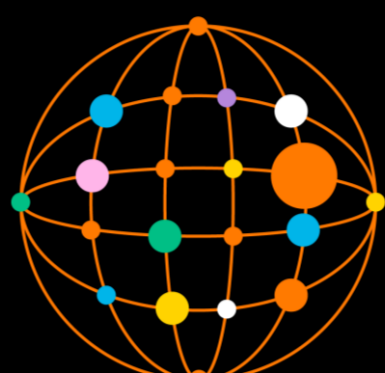


30% more power on instances optimised for computing operations



70% more power on general purpose instances

80% of bandwidth between two identical machines located in the same datacenter, higher than the average of all cloud solutions studied in this survey



60% better at multi-CPU crypto computation than the average of other hyperscalers, according to the Geekbench scoring software



For more details, see the full study and results on [Cloud Mercato](#)