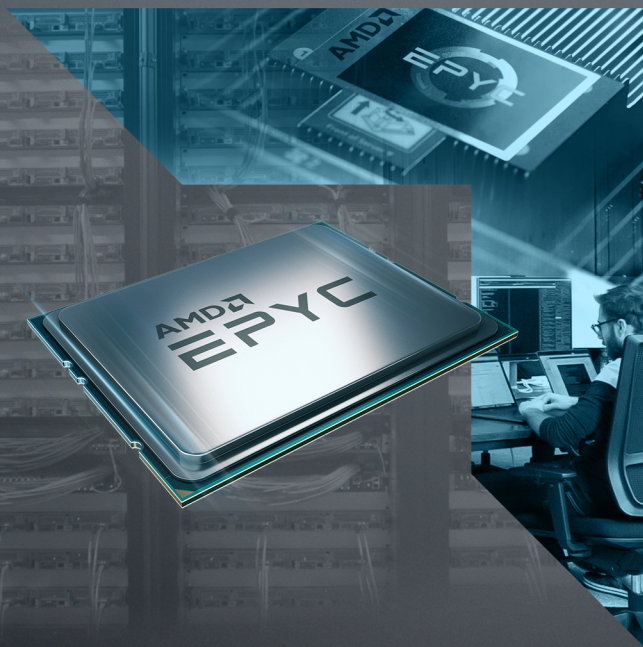


HIGH-PERFORMANCE CLOUD SOLUTIONS—SCALEWAY DELIVERS WITH AMD EPYC PROCESSORS

Powered by AMD EPYC 7000 Series processors, Scaleway offers its client base two new reliable, high performing solutions for demanding projects.



CUSTOMER



INDUSTRY

Infrastructures as a service, Datacenter and Cloud services

CHALLENGES

To develop two high-performing, top-quality bare-metal servers at a price point that appealed to Scaleway's customers.

SOLUTION

Scaleway deployed EPYC 7281 CPUs with 16 cores and 32 threads for its Pro family of servers and EPYC 7401P CPUs with 24 cores and 48 threads for its Core family of servers.

RESULTS

Scaleway found that the EPYC CPUs delivered extraordinary performance yet consumed roughly 50 percent less energy and delivered approximately 33 percent higher compute density than competing processors. And thanks to the energy-efficiency of these single-socket CPUs, Scaleway could run each rack at capacity while keeping costs low and sharing the resulting savings with its customers.

AMD TECHNOLOGY AT A GLANCE

AMD EPYC™ 7281 Processor
AMD EPYC™ 7401P Processor

As one of France's leading cloud service providers, Scaleway promises its customers top quality and high performance for a reasonable price. When looking for processors to expand their Pro and Core families of dedicated servers, Scaleway decided to test AMD EPYC™ 7000 Series processors.

"The EPYC CPUs consumed roughly 50 percent less energy and delivered approximately a third more in terms of compute density," said Yann-Guïrec Manac'h, Director of Hardware at Scaleway. Moreover, with eight memory channels and 16- or 24-core options, the single-socket EPYC solution delivered the same performance as a dual-socket server—all while being much more cost-effective. In addition, thanks to the lower energy consumption, Scaleway was able to add more servers to a rack, letting each rack function at capacity, which resulted in additional cost savings that the company passed on to its customers.

A LEADING CLOUD SERVICE PROVIDER

Formerly known as Online.net, Scaleway has been providing hosting services for businesses of all sizes from around the globe since 1999. The company is one of the leading providers in France, providing critical infrastructures and Cloud services in its five data centers.

The company's mission is to provide top-quality, high-performing services at an affordable price: Bare Metal, Datacenter as a service and Cloud services. It provides a premium infrastructure, round-the-clock support, unrivalled performance, and an uptime approaching 100 percent. It

uses components from only the best manufacturers in its products, which allows it to offer customers a wide range of servers, storage configurations, and network capabilities.

CREATING NEW OFFERS IN BARE-METAL SERVERS

When Scaleway wanted to create new bare-metal solutions for its dedicated Dedibox servers in May 2018, they tested AMD EPYC 7000 Series processors. In addition to significant energy savings and compute density, the EPYC single-socket processor solutions have software license costs that are much lower than those of dual-socket solutions. With eight memory channels and 16 or 24 cores, the performance of EPYC processors was extraordinary—making a multisocket solution and its additional software-licensing costs unnecessary.

"With EPYC, we exceeded the expectations we had in terms of performance and stability," said Manac'h. "The ability to have so many cores and so much raw computing power in one single-socket server was nothing short of remarkable."

"The feedback we've had from customers is that the [EPYC based] servers offer a great configuration at a great price."

Mehdi Bekkai, Product Marketing and Alliances Manager, Scaleway

"Throughout the testing and deployment phases, AMD functioned as a technology partner that helped Scaleway implement the solutions to achieve optimum performance," said Manac'h and added "one of the best things about working with AMD was the very high level of confidence and trust—something that's of the utmost importance when you're at the cutting edge of innovation". Scaleway had the opportunity to test and qualify every aspect of the CPUs before implementing the solutions. "AMD provided us with all the support we needed," Manac'h said. "It was brilliant to quickly get answers to even the most critical and technical questions about the processors."

Scaleway started offering both new solutions in October 2018. This development made the company the first cloud service provider in France to use EPYC processors, which is in keeping with Scaleway's legacy of being first with the latest and greatest technology in the cloud.

SATISFIED CUSTOMERS

With AMD EPYC processors, Scaleway optimized energy use at the rack and improved networking and support efficiencies. Moreover, the company increased the number of servers per rack, allowing each rack to function at capacity while lowering costs for customers. "To have the best quality at that price point is really, really great," said Manac'h.

"With EPYC, we exceeded the expectations we had for the product in terms of performance and stability. The ability to have so many cores and so much raw power in one single-socket CPU was nothing short of remarkable."

*Mehdi Bekkai,
Product Marketing and
Alliances Manager,
Scaleway*

So far, the majority of customers use the AMD EPYC solutions to accelerate workloads or to deploy virtualized environments and virtual machines on their servers. "The feedback we've had from customers is that the servers offer a great configuration at a great price," said Mehdi Bekkai, Product Marketing and Alliances Manager at Scaleway. "What's more—they find them very stable in these use cases."

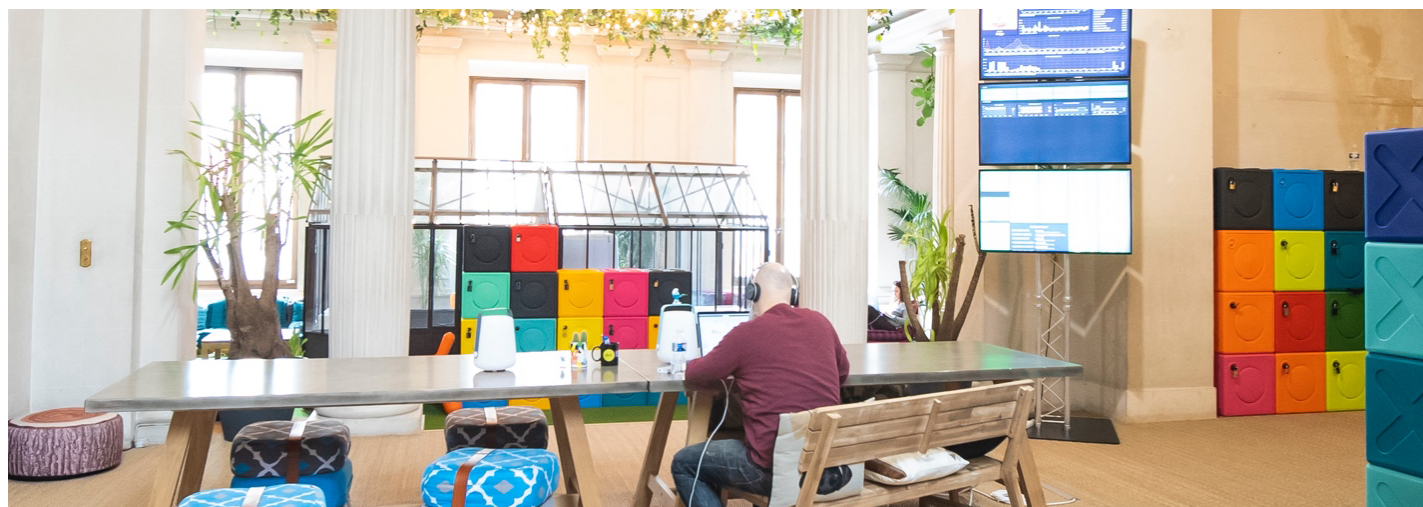
SOLUTIONS BRIDGING TO THE FUTURE

Scaleway deployed AMD EPYC 7281 CPUs—16 cores, 32 threads, and an all-core boost speed of 2.7GHz—for its Pro family of servers, which consists of enterprise-class dedicated servers that offer a combination of CPU, memory, and storage for general-purpose workloads. For its Core family, which consists of high-end servers that are optimized for enterprise-class, large-scale, and intensive workloads, it deployed AMD EPYC 7401P CPUs with 24 cores, 48 threads, and an all-core boost speed of 2.8GHz.

Considering the performance of the AMD EPYC processors, Scaleway decided to deploy EPYC in its cloud platform for pure computing power, as its many threads and PCIe® lanes offer tremendous potential.

Furthermore, Scaleway also wants to leverage AMD technology in its future projects, for example in AI applications.

Manac'h advises others to test and benchmark the EPYC processors. "After testing, I saw a very, very powerful single-socket CPU that we just had to use," he said. "It delivers high performance, has a low energy consumption, and comes at a great price."



ABOUT SCALEWAY

Scaleway is an Iliad Group brand supplying a range of pioneering cloud infrastructure covering a full range of services for professionals: public cloud services with Scaleway, private infrastructure with Scaleway Datacenter and bare-metal cloud services with Online by Scaleway. Scaleway's offer is based on some 20 years of expertise in developing and marketing dedicated servers (Online) and managing high-end innovative data centers (Iliad Datacenter). Scaleway is growing its reputation around the world and currently serves business clients in over 150 countries. It has four datacenters located in France and one in the Netherlands and its clients include Le Bon Coin, Vente-Privée (Veepee), Safran and Le Monde. For more information visit scaleway.com.

ABOUT AMD

For more than 45 years AMD has driven innovation in high performance computing, graphics, and visualization technologies—the building blocks for gaming, immersive platforms, and the datacenter. Hundreds of millions of consumers, leading Fortune 500 businesses, and cutting-edge scientific research facilities around the world rely on AMD technology daily to improve how they live, work, and play. AMD employees around the world are focused on building great products that push the boundaries of what is possible. For more information about how AMD is enabling today and inspiring tomorrow, visit amd.com/epyc.

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