SUPERMICRO SERVERS INCREASE GPU OFFERINGS FOR SEEWEB, GIVING DEMANDING CUSTOMERS FASTER RESULTS FOR AI AND HPC WORKLOADS

Seeweb Selects Supermicro GPU Servers to Meet Customer Demands of HPC and AI Workloads

INDUSTRY

Cloud Provider

CHALLENGES

- AI Training System at an Affordable Price

- Fast System Response

- Powerful GPU Systems

SUPERMICRO

Supermicro is a global leader in high performance, green computing server technology and innovation. We provide our global customers with application-optimized servers and workstations customized with blade, storage, and GPU solutions. Our products offer proven reliability, superior design, and one of the industry's broadest array of product configurations, to fit all computational need.

For more information, visit https://www.supermicro.com

Introduction

Seeweb, part of the DHH Group (Dominion Hosting Holding), is a cloud computing provider that has been providing high-quality IT solutions for almost 25 years. Seeweb operates data centers in both Italy and Switzerland. Seeweb is committed to providing the latest server technology to customers in many eastern European countries and offers a wide range of services, including various cloud servers, hosting options, security, and consulting.

Challenges

Seeweb needed to acquire state-of-the-art systems to offer new performance levels for their increasing base of customers that required high performance CPUs and GPUs. With their customer base growing, Seeweb recognized the need for more advanced servers that included GPUs for HPC workloads. Many HPC applications can take advantage of the parallel processing capabilities of a GPU and realized that systems that could accommodate multiple GPUs would allow Seeweb to offer a wide range of options, depending on the users' requests. Seeweb also needed to ensure that the power delivered to their racks could accommodate servers with multiple GPUs per server and the latest CPU technology from Intel. With a new offering for customers, a new type of server was needed, and a high-density GPU server was required. Intel CPUs and NVIDIA GPUs were determined to be the optimal combination of processing technologies. Seeweb determined that for a competitive offering, 10 GPUs in a single server would enable them to meet demanding customer SLAs and offer the flexibility to service more than one customer on the same system simultaneously.

Solution

Seeweb decided that the Supermicro GPU server, the SYS-420GP-TNR, a GPU optimized server with dual 3rd Gen Intel Xeon Scalable processors, would be ideal for their customers' requirements. In addition, the unique ability to configure the Supermicro GPU server as a dual root system enabled Seeweb the flexibility to assign workloads to the proper hardware based on the resources needed.
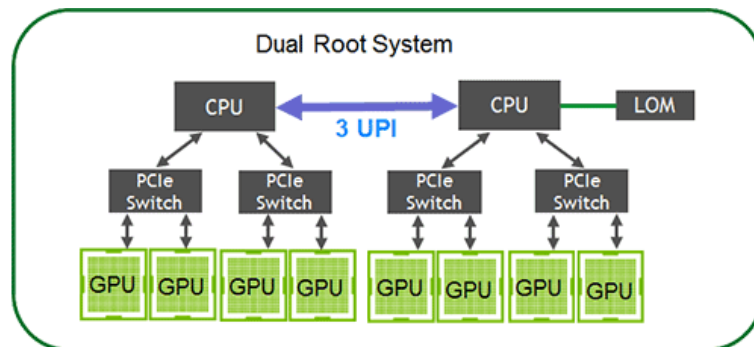

Each of the servers contains up to 10 PCIe based GPUs. With five GPUs connected to each CPU, each user on the system operates independently of the other user (note – a user can be a separate application). The advantage is that Seeweb could assign multiple users to the system, each using up to one-half of the GPUs. Seeweb has installed four servers per rack.

With the first use of the Supermicro SYS-420GP-TNR, Seeweb uses several NVIDIA GPUs. These include the NVIDIA QUADRO RTX 6000, the NVIDIA QUADRO RTX-A6000, the NVIDIA RTX-A30, and the NVIDIA RTX-A100. These accelerators will be used for machine learning, computer vision, and other compute intensive applications. Six GPUs per machine were installed at first.

Benefits

Seeweb immediately saw the benefits of the new GPU servers from Supermicro. With the high density of the SYS-420GP-TNR servers, Seeweb could offer additional computing to its portfolio of highly optimized servers.

"After evaluating various suppliers for our new flagship Cloud Service dedicated to AI/ML/DL, Seeweb decided to purchase Supermicro GPU servers that respond to all our needs. The GPU density of the Supermicro systems gives us the required performance, flexibility, and lower energy consumption that helps Seeweb to design the new Cloud Server GPU service with the

right market fit. We are extremely satisfied with both the performance of the Supermicro GPU servers and our relationship with Supermicro" – Antonio Baldassarra, CEO at Seeweb

For more information, please visit:

https://www.supermicro.com/en   and

https://www.supermicro.com/en/products/system/gpu/4u/sys-420gp-tnr

---

SEEWEB

Seeweb, founded in 1998, is an Italian company with a huge amount of experience in the management of Data Centers and in the design of custom cloud infrastructures. Seeweb provides housing and colocation services, public and private cloud services, dedicated servers, security appliances, professional email services. The company has a particular focus on technical support and custom projects. Its Data Centers are all sustainable and powered by renewable energy.

For more information, please visit https://www.seeweb.it/en