CLOUD & HEAT

Press release

Alliance for green computing power

Dresden start-up Cloud&Heat enters into partnership with Apple supplier Foxconn

Dresden / Kutna Hora – July 24, 2018. **The green IT company Cloud&Heat Technologies, specialized in energy-efficient data center solutions, has entered into a strategic partnership with TradeDX, the Czech subsidiary of the Foxconn Technology Group. Up to 240 Cloud&Heat data centre containers are to be produced in the Czech Republic every year. Global demand for the 20-foot containers has skyrocketed following initial orders from Norway and Japan and a major order from a German energy group. The mobile data centers allow flexible use of graphic computing power with up to 1,440 GPUs and simultaneous hot water production at any location. Compared to similarly powerful data centers, they save up to 1,337 tons of CO_2 per year. This corresponds to a compensation area of 18.7 football pitches in the forest.**

The cooperation is an important milestone in the development of Cloud&Heat from a former start-up to a globally operating company. As the in-house supplier of Intel, Apple partner and console manufacturer for Sony or Nintendo, Foxconn combines the know-how from mainboard and heat sink production with enormous production capacities. We need these to ensure high-quality series production of our mobile and highly efficient data center containers and thus secure the scaling for the entire company," explains Nicolas Röhrs, CEO of Cloud&Heat Technologies GmbH from Dresden.

The data center containers are equipped with different technologies, flexibly adaptable to every customer request, for example with air or water cooling. The basic infrastructure is manufactured by Foxconn. Cloud&Heat takes over the installation of the waste heat utilisation, the software control of the pumps, the water circuits, the temperature controls and the monitoring itself. This ensures a constantly high temperature level of 60 degrees hot water, which can be used directly for heating buildings or for connection to local and district heating networks. The integrated direct water cooling gives the containers a PUE value (Power Usage Effectiveness) of less than 1.1 - significantly better than any other IT system with other cooling concepts. This leads to enormous savings and can amount to up to 1 million euros in operating costs compared to a conventional German 1 MW data center. In addition, Cloud&Heat offers software commissioning, including OpenStack installation and permanent operation on the hardware and software side. This not only means further cost savings for the customer, but also enables simple and fast scalability.

"Cloud&Heat's innovative solutions are a perfect match for our claim to produce the best white label server, storage and switch products. In addition, the close proximity offers optimal conditions for close cooperation and rapid delivery of data center containers all over the world," summarizes Vladislav Král, Managing Director at TradeDX.

"In times of big data and digitization, in addition to the provision of storage capacities, the question of the energy requirements required for this is still being asked far too little. Our goal is to develop data centers not only securely and efficiently, but also in a way that conserves energy and resources. To achieve this, we will continue to expand our cooperation with Foxconn in the future," says Nicolas Röhrs. A cluster at Frankfurt with other well-known partners is already planned.

About TradeDX

TradeDX, a Foxconn Company, is designing and manufacturing original white label servers, storage and switches which fit the needs of cloud service providers, software appliance vendors, enterprise businesses and high performance computing customers. Company has been established in 2017 and is headquartered in Kutna Hora, Czech Republic, Europe.

More information at www.tradedx.eu

About Cloud&Heat Technologies

Cloud&Heat is a provider of OpenStack-based public and private cloud solutions. With secure, easy-to-use, sustainable and scalable solutions, the company offers IT infrastructures that meet the central requirements of the cloud future. Since 2012, the company has been operating its own distributed cloud infrastructure offering traditional cloud computing (IaaS). With the conception, commissioning and maintenance of tailor-made cloud solutions for companies, Cloud & Heat rounds off its portfolio with the Datacenter in a Box and thus responds to the strongly growing demand for its own cloud infrastructures. The company passes on its many years of extensive know-how in dealing with OpenStack in the form of classic consulting, customized courses or the implementation of individual OpenStack projects. The clou: The server waste heat is directly absorbed by the thermal hotspots such as CPU or RAM, dissipated and can be used for heating real estate and for hot water preparation. The energy- and cost-efficient concept has won several awards, e.g. the Next Generation Award of the European Culture Prize TAURUS 2018 and the "Awarded Landmark in the Land of Ideas" 2018.

More information at www.cloudandheat.com