Ostfalia
University of
## Applied Sciences
- Computer Science Faculty -

International Lecture*

06 December – 09 December 2017

Cloud Computing and Internet of Things
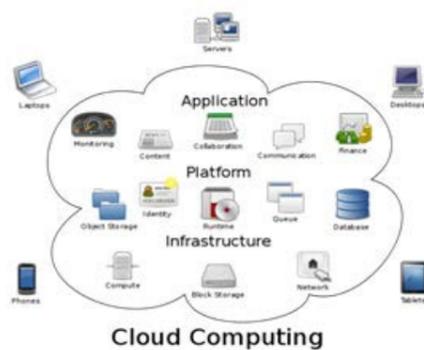
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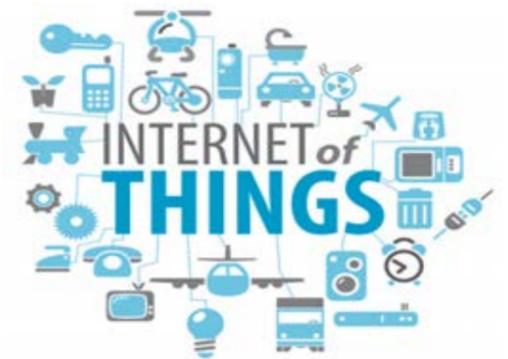
Cloud computing and the Internet of Things (IoT) both serve to increase efficiency in our everyday tasks, and the two have a complimentary relationship. One of the central promises of the Internet of Things is to make our world smarter that can only happen when the right information is provided at the right time. The IoT generates massive amounts of data, and Cloud computing provides a pathway for that data to travel to its destination.

The IoT is starting to transform how we live our lives, but all of the added convenience and increased efficiency comes at a cost. The IoT is generating an unprecedented amount of data, which in turn puts a tremendous strain on the Internet infrastructure.

Cloud computing will be a major part of that, especially by making all of the connected devices work together. But there are some significant differences between Cloud computing and the Internet of Things that will play out in the coming years as we generate more and more data. The IoT and Cloud computing are different, but each will have their own job in tackling this new world of data.

Cloud computing, often called simply "the cloud," involves delivering data, applications, photos, videos, and more over the Internet to data centers. The IoT refers to the connection of devices (other than the usual examples such as computers and smartphones) to the Internet.

The purpose of the course is to introduce Cloud computing-related technology topics and IoT in a manner that is accessible to bachelor students as well as to empower participants with an understanding of the fundamental mechanics of a IoT Cloud platforms and how to address common threats and pitfalls.

Starting Wednesday, December 6th, 10:00, Room 136 ('Kaminzimmer')

* Internationale Vorlesungen - können als Wahlpflichtvorlesungen mit 2,5 Credits anerkannt werden.

Prof. Reinhard Gerndt, 2017