Fog Computing

EECS 700 Lighting Talk

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What is "fog computing"
What is "cloud computing"
What is "fog computing"?

Computing power or storage that is near to you.
But why descend the cloud...?
Does cloud have limitations?

• An estimation: 50 billion devices will be connected to the internet around year of 2020. A exploding amount of data will flood the cloud.

• The cloud has limited storage space and computing power.

• Transmitting massive data also consumes network bandwidth.

• Cloud also has high latency which does not fit certain applications.
Will fog solve the problem?

- Fog can be formed by moving the cloud infrastructure down to a local scale (descending the cloud).
- Fog act as "local cloud" to compute and store data on a smaller scale.
- Fog also act as a "middle layer" to communicate with the distant cloud.
- Since fog is near to the devices, latency is reduced to improve agile decision making in critical applications.
Any other advantages?

• Improved security
• Improved Privacy
• Higher reliability
• ...

Sources...

- [https://www.youtube.com/watch?v=OVLJvtJCT1M&index=35&list=WL](https://www.youtube.com/watch?v=OVLJvtJCT1M&index=35&list=WL)
- Scattered vector images are from the Internet.