

Improving the Security for Storing the Big Data in Cloud Environment

-- Jayachander Surbiryala
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Introduction

Bachelors in Information Technology, India.

Masters in Information Security, NTNU i Gjøvik 2015 (Høgskolen i Gjøvik).

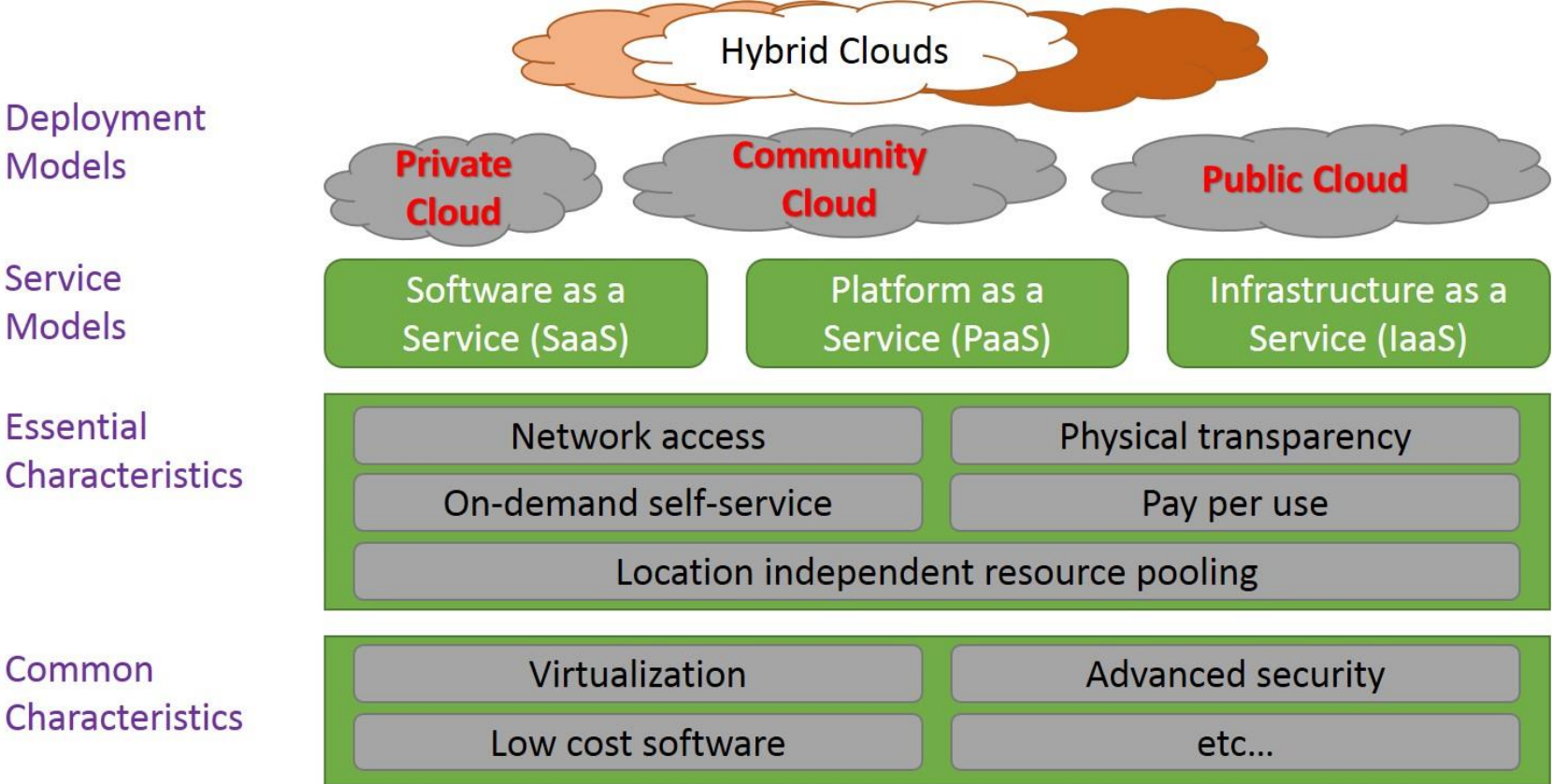
PhD started in May 2016 at UiS.

Center for IP Service Innovation (CIPSI)

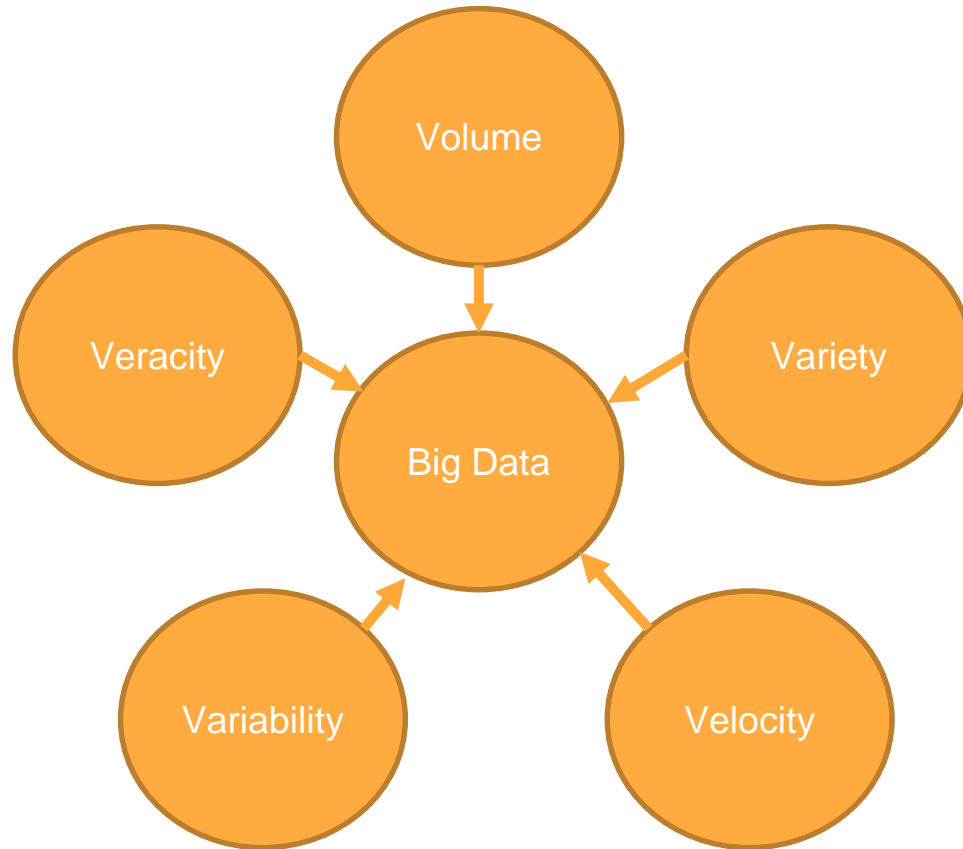
Cloud Computing

"cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction." [1]

NIST Cloud definition [1]



Big Data [2]



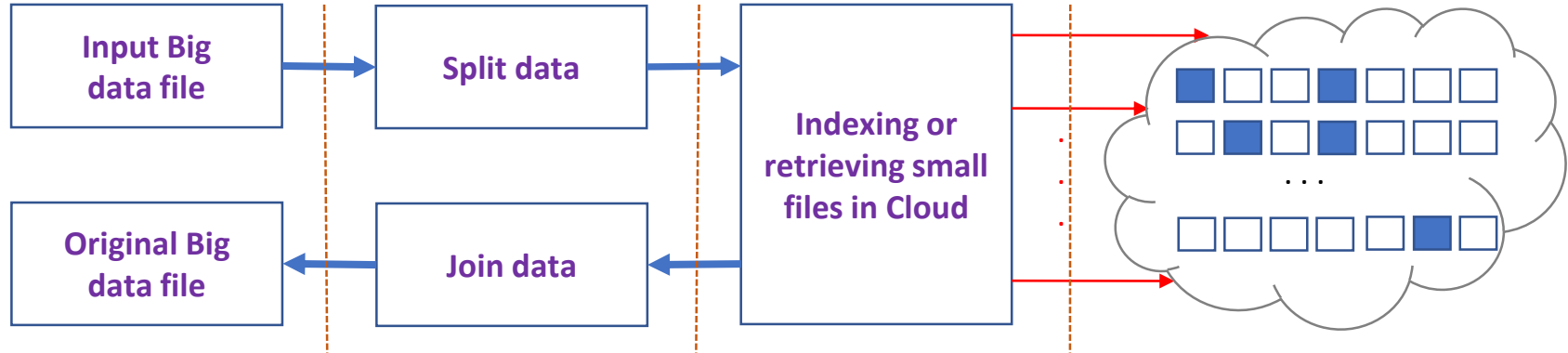
[2]

Company	Data Processed Daily
eBay	100 Petabytes (PB)
Google	100 PB
Facebook	30+ PB
Twitter	100 Terabytes(=.1PB)
Spotify	64 Terabytes

Objective:

- 1) Effective division and addition of Big Data
- 2) Indexing and retrieval of files

Cloud architecture:



References

[1] P. Mell and T. Grance, “Effectively and securely using the cloud computing paradigm,” NIST, Information Technology Laboratory, pp.304–311, 2009.

[2] Introduction to Big Data, [online coursera]

Thanks