Trường đại học Khoa học Tự nhiên
Khoa công nghệ thông tin

Nguyễn Văn Tuấn

Lê Thanh Hiếu

## AGENDA

- What is Bigdata ?
- NOSQL
- Top Search Engine
- Elasticsearch Overview
- How does Elasticsearch work?
- Why use Elasticsearch ?
- Advantages and disadvantages of ES
- Getting started – Elasticsearch
- Hand on
- Summary

# What is Bigdata

**NOSQL**

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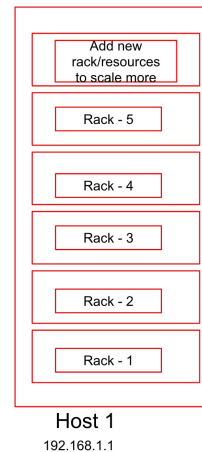Khoa công nghệ thông tin
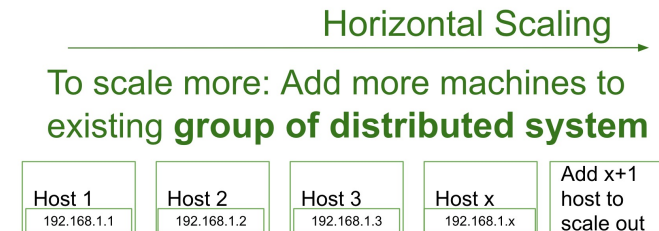
elasticsearch

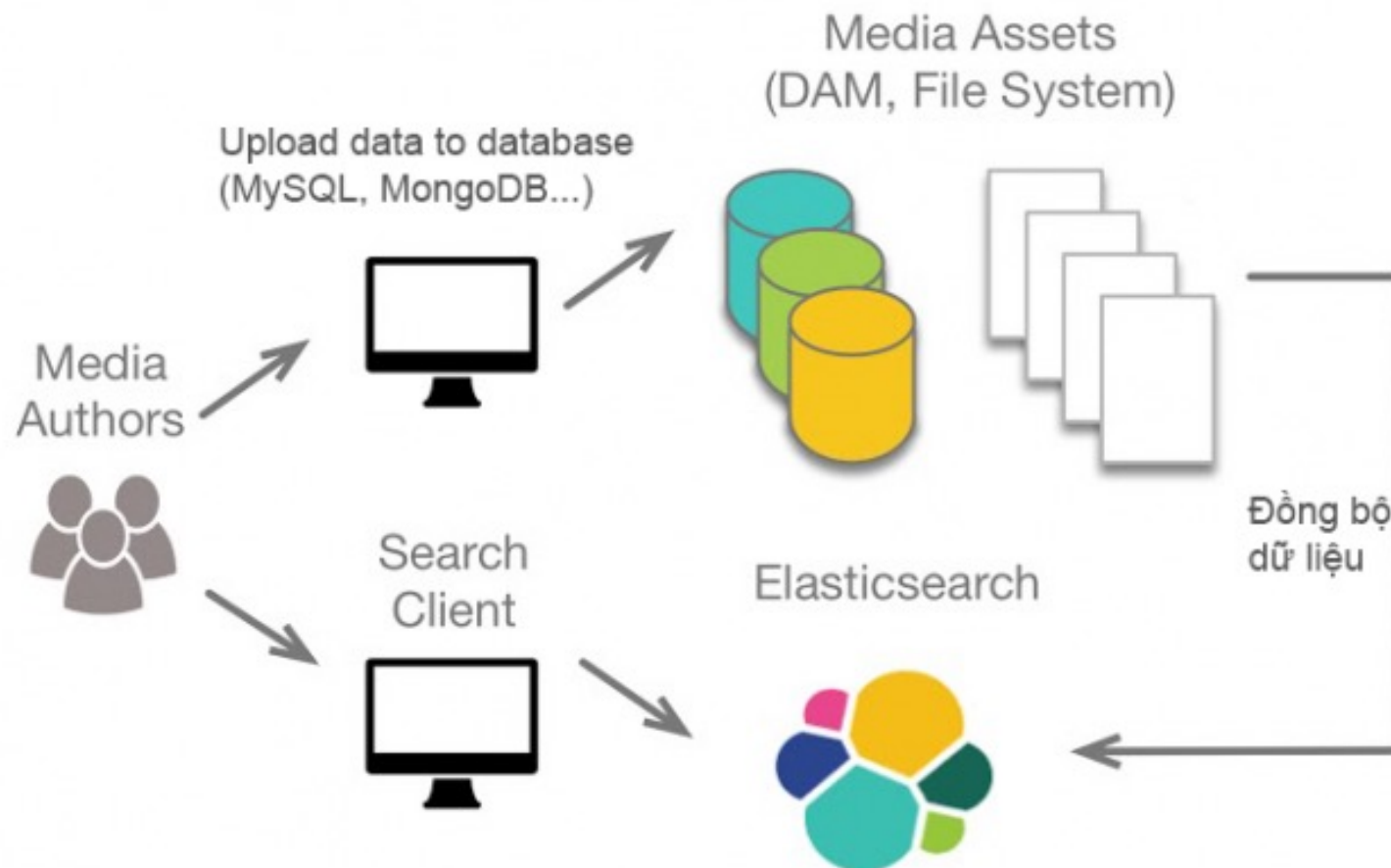**Top Search Engine**

World

VietNam

# Elasticsearch Overview

➤ Open Source – Free
➤ Build on top of *Lucene*
➤ Release First (2 – 2010)
➤ Developed in Java
➤ Top 1 Search engine
➤ Horizontal scalability

To scale more, Add more RAM, CPU,
Memory to the **one existing machine**

Vertical Scaling

Add new rack/resources to scale more

Rack - 5

Rack - 4

Rack - 3

Rack - 2

Rack - 1

Host 1
192.168.1.1

Horizontal Scaling

To scale more: Add more machines to
existing **group of distributed system**

Host 1
192.168.1.1

Host 2
192.168.1.2

Host 3
192.168.1.3

Host x
192.168.1.x

Add x+1
host to
scale out

# How does Elasticsearch work?

# Definition

# Why use Elasticsearch ?

# Advantages and disadvantages of ES

# Getting started – Elasticsearch

**Hands on**

elasticsearch

**Demo**

Elasticsearch Demo

Keyword | hcmus | Search

**Metric System:**

Successful: 1

skipped: 0

Failed: 0

Total Result (Hits): 1

Link:
https://vi.wikipedia.org/wiki/Tr%C6%B0%E1%BB%9Dng_%C4%90%E1%BA%A1i_h%E1%BB%8Dc_Khoa_h%E1%BB%8Dc_T%E1%BB%B1_nhi%C3%AAn,_%C4%90%E1%BA%A1i_h%E1%BB%8Dc_Qu%E1%BB%91c_gia_Th%C3%A0nh_ph%E1%BB%91_H%E1%BB%93_Ch%C3%AD_Minh
Score: 1.4125786

# Sumary