

**Intro to
AI for Cloud Operations
Cloud = { Compute, Storage, Network,
Applications, DB's, etc. }**

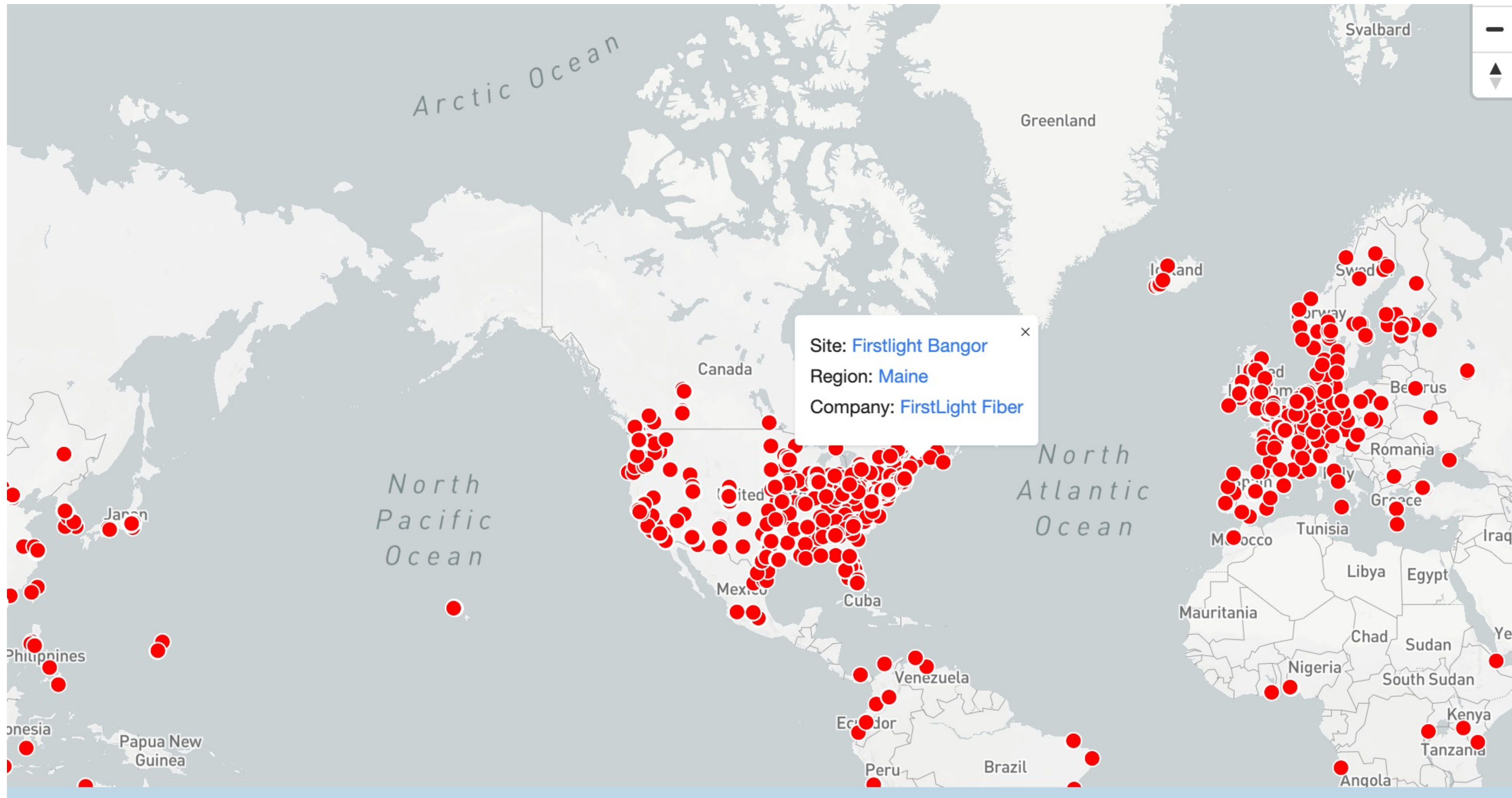
Prof. Dan O'Neill

An aerial photograph of a large, modern industrial building with a dark grey roof and light-colored walls. The building is surrounded by a parking lot filled with cars and a large area of green grass. In the background, there is a dense forest of tall trees and a body of water. The text "cloud systems are the new industry" is overlaid on the image in a white and red font.

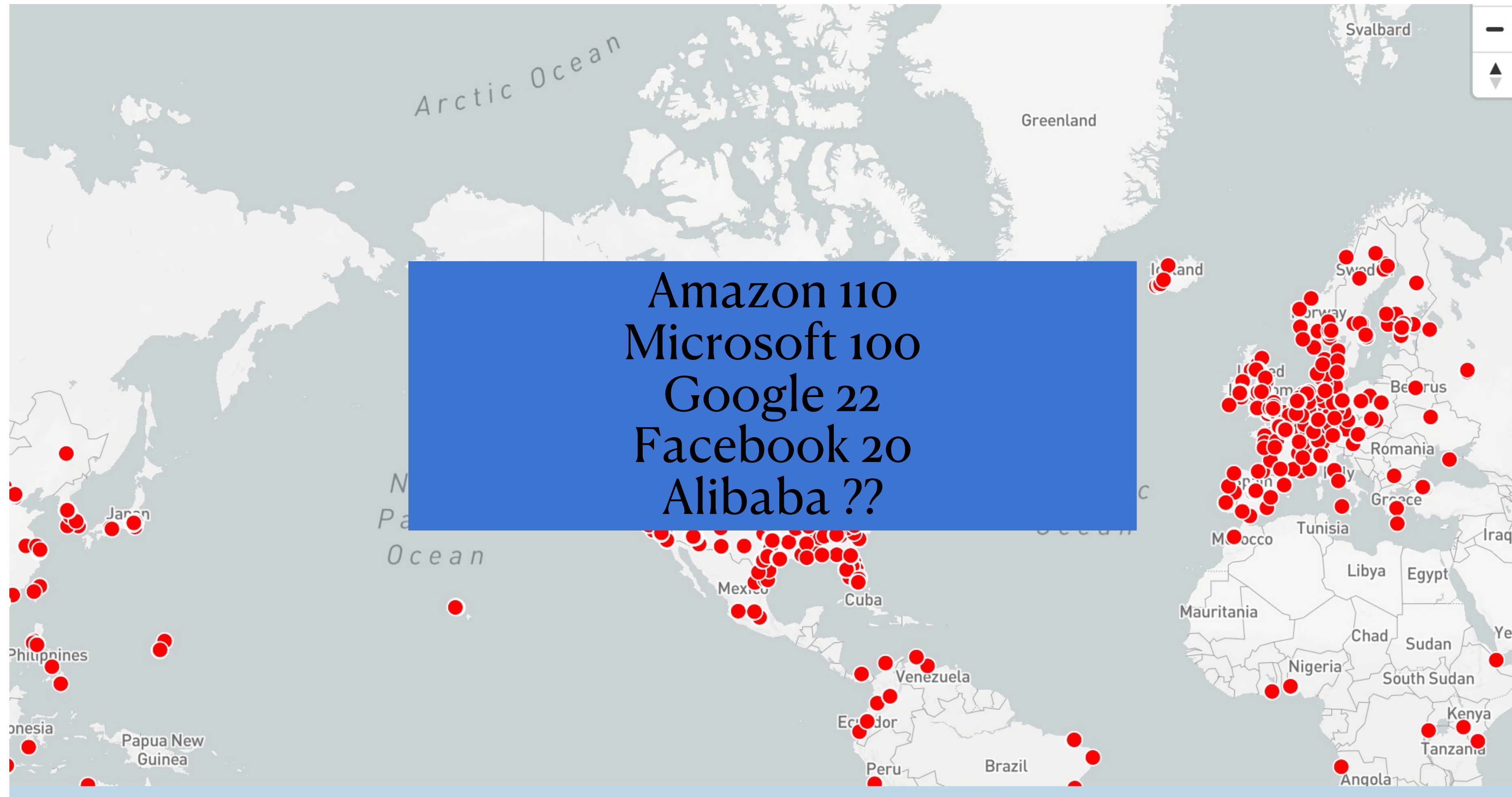
cloud systems are the new industry

cloud systems are huge





- Hyperscale Data Centers ~500 worldwide
 - \$30-40B Capex per quarter



- Hyperscale Data Centers ~500 worldwide
 - \$30-40B Capex per quarter



cloud systems are complex

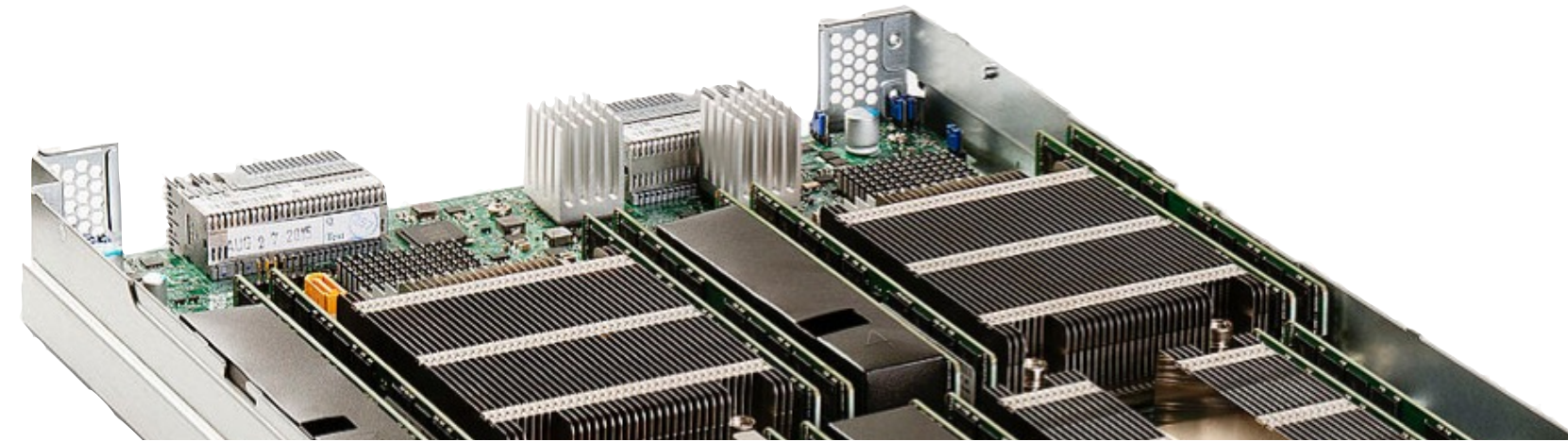


cloud systems drive technology

Hardware

Software

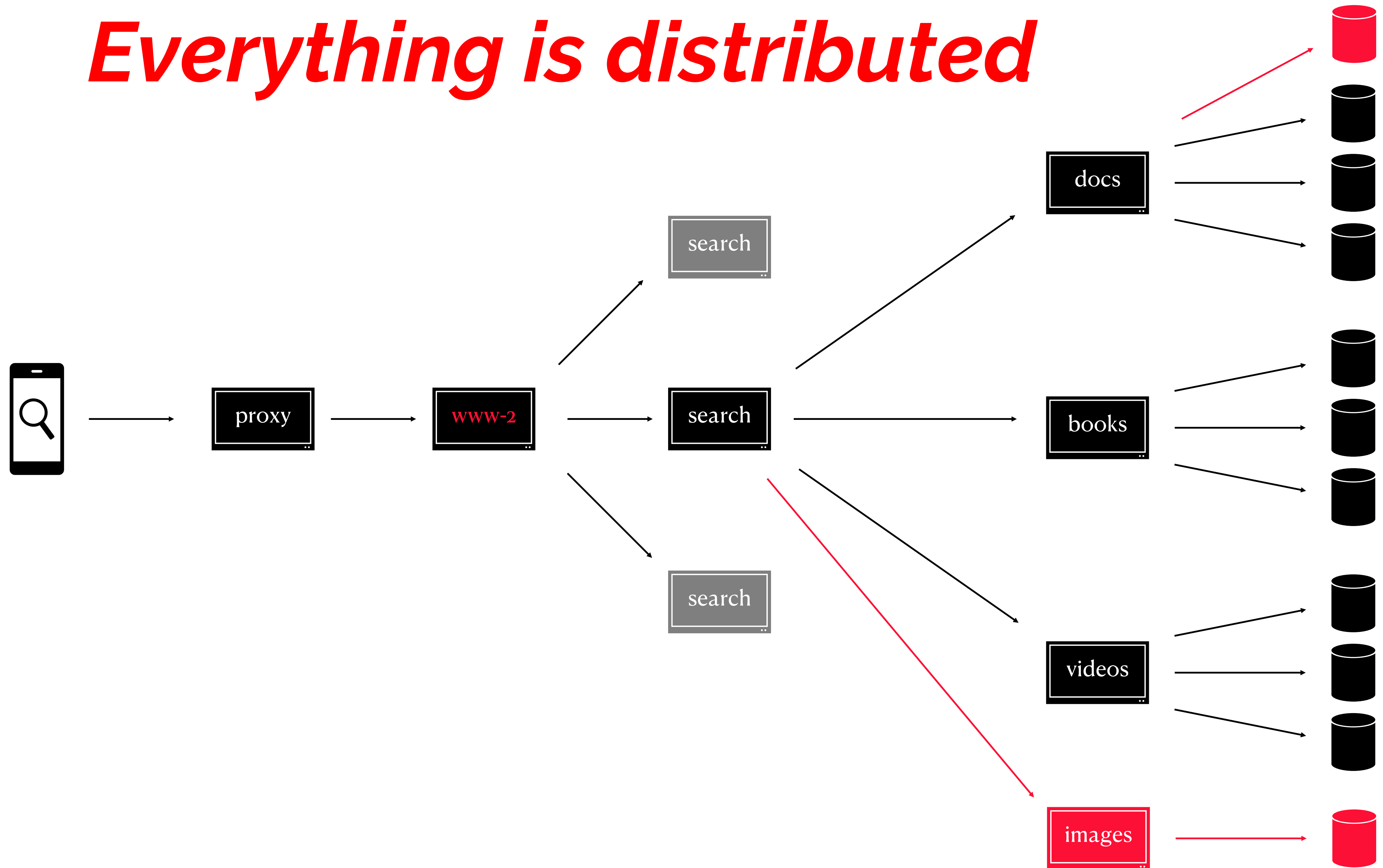




Processors, Memory, Power



Everything is distributed



Databases
IoT
Containers
Blockchain
Millions of VMs

⚡ Featured	Internet of Things
AI + Machine Learning	Management and Governance
Analytics	Media
Blockchain	Migration
Compute	Mixed Reality
Containers	Mobile
Databases	Networking
DevOps	Security
Developer Tools	Storage
Hybrid + Multicloud	Web
Identity	Windows Virtual Desktop
Integration	

Dynamic Distributed Real Time





Too Complex to Manage



AI for Cloud Operations



AI for the Cloud

Alibaba
Microsoft
Google