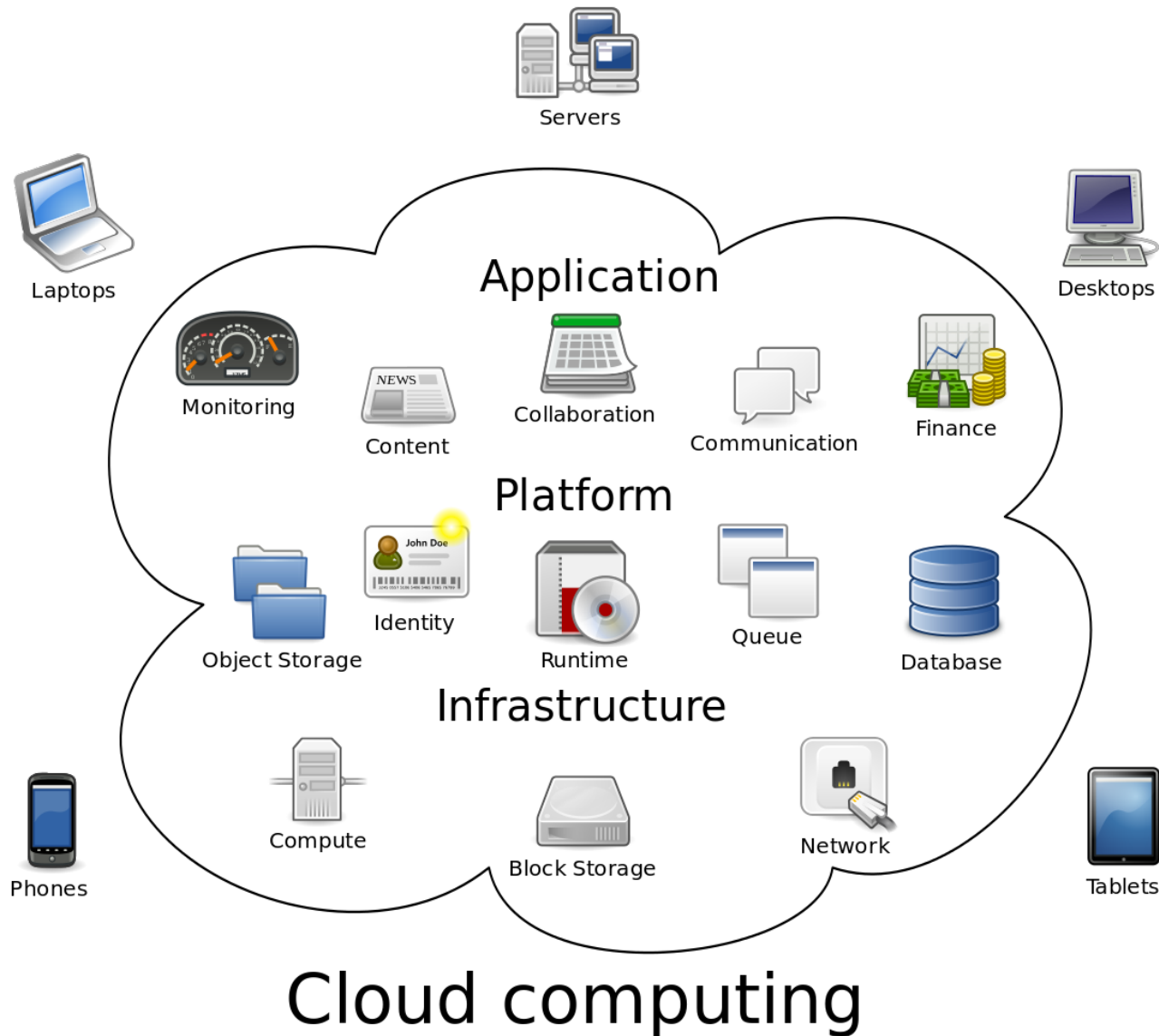# Cloud Computing and Web Services
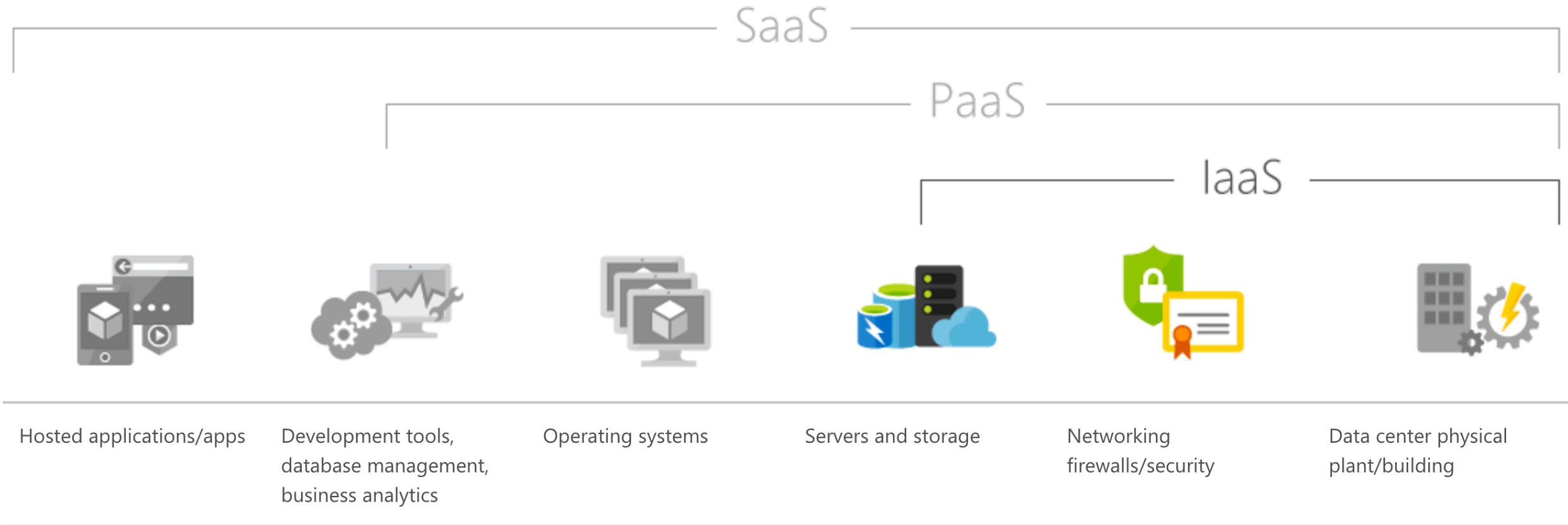
Suozhi (James) Qi

04/18/17
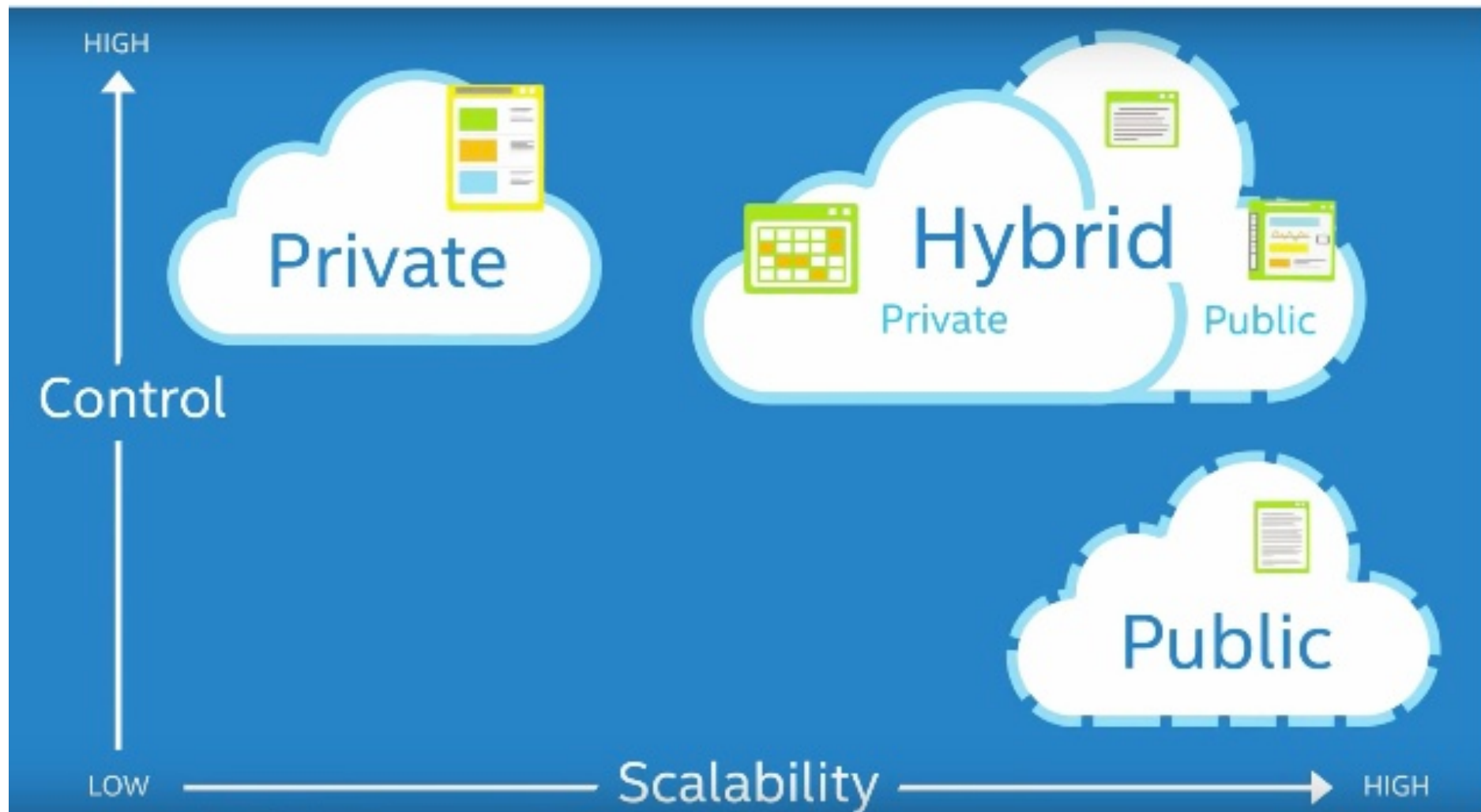
- Storing and accessing data and programs over the Internet instead of one's own computer's hard drive

https://en.wikipedia.org/wiki/Cloud_computing

Layers of cloud computing services

SaaS					
PaaS				
			IaaS	

| Hosted applications/apps | Development tools, database management, business analytics | Operating systems | Servers and storage | Networking firewalls/security | Data center physical plant/building |

Cloud Deployment Models ...

- Advantages:
1. Save money and time
2. Any where, any time (Google drive, google docs, etc)
3. Great scalability

- Disadvantages:
1. Security (Dropbox, breach, 2014, 7 million user info leaked)
2. Copyright (your data or the service provider's data?)

For web developers:

- Access to apps and data on cloud servers

- Host our own apps using cloud components

- Synchronize our projects using cloud services (google docs, github)

- Be aware of the potential security and copyright problems when using public cloud services