

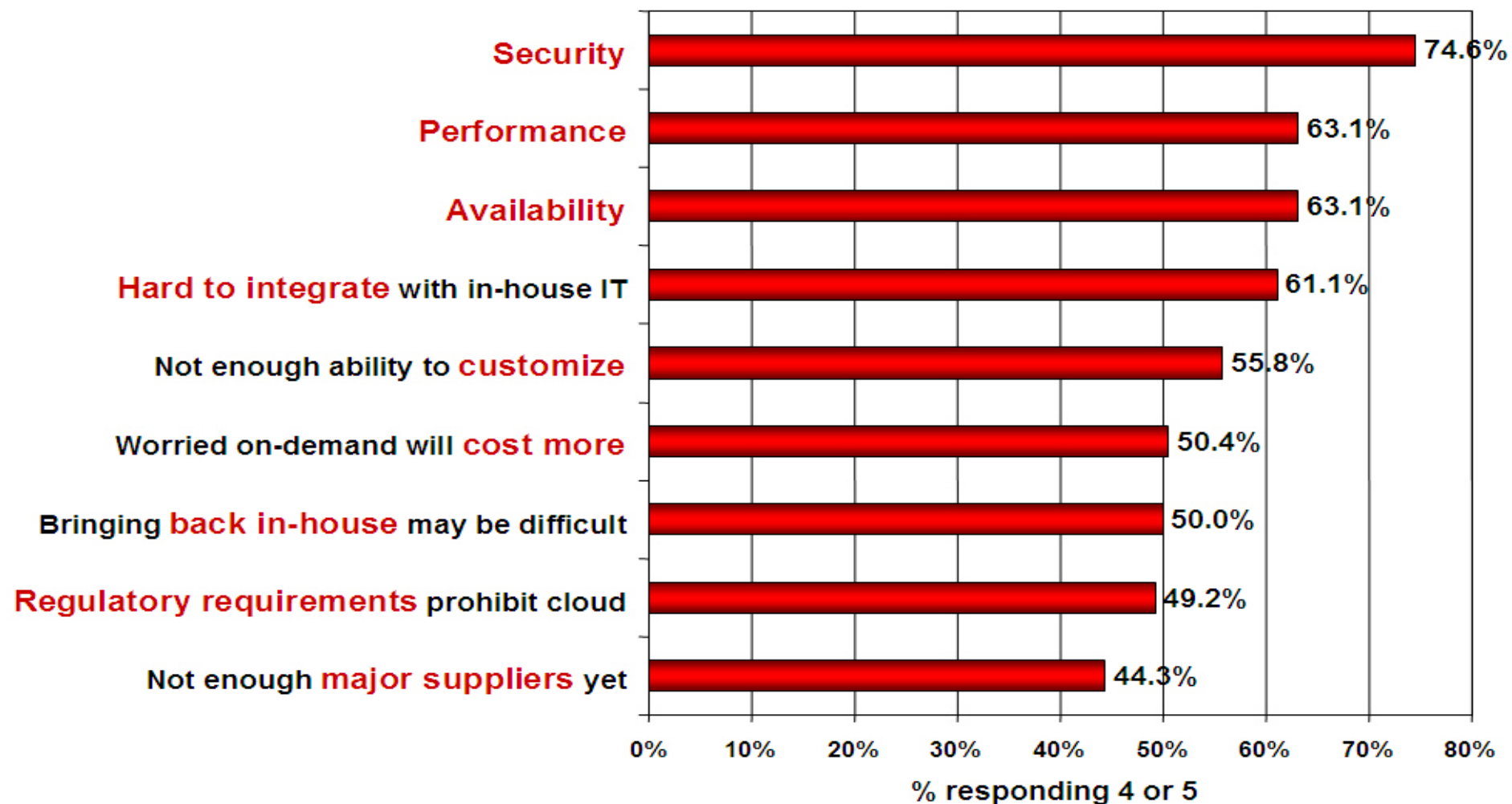
Cloud Computing

#10 - Security

Obstacles for Transition

Business Perspective

Q: Rate the **challenges/issues** ascribed to the 'cloud'/on-demand model
(1=not significant, 5=very significant)



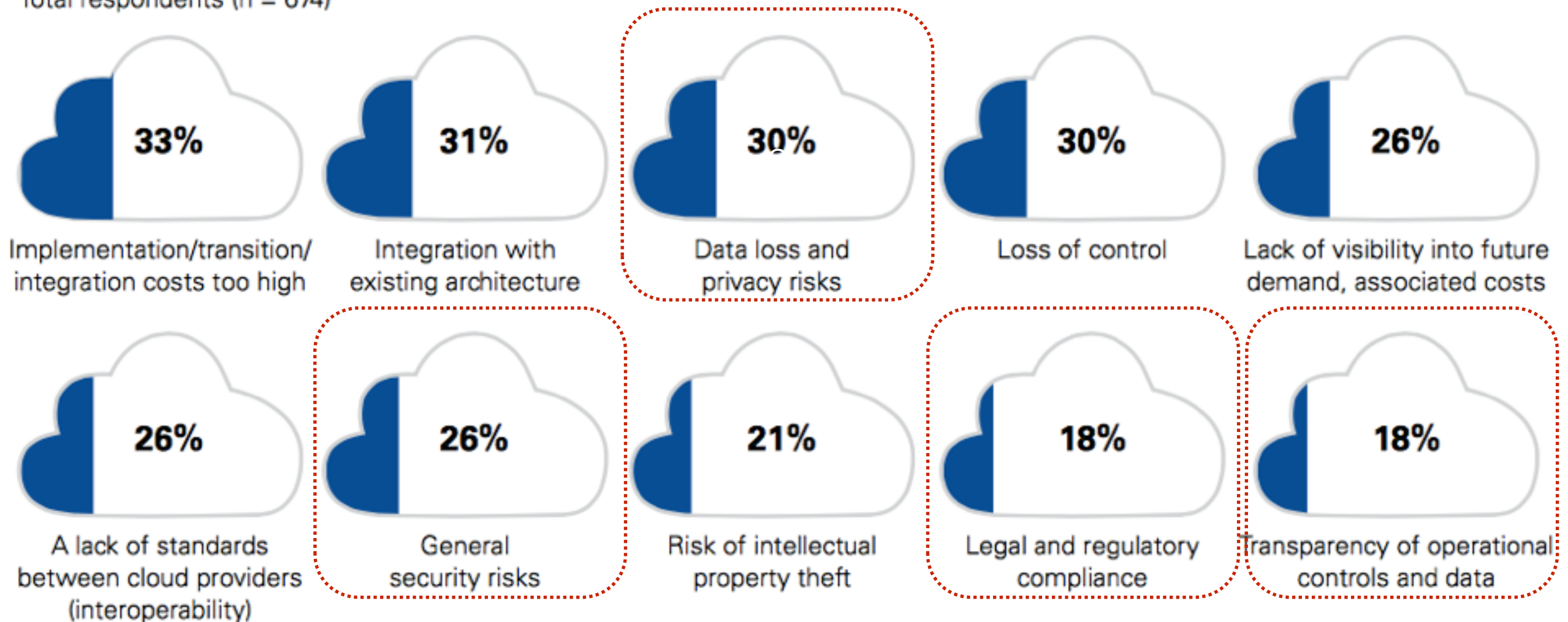
Source: IDC Enterprise Panel, August 2008 n=244

Obstacles for Transition

Business Perspective

Which of the following are the key challenges of your approach to cloud adoption?

Total respondents (n = 674)



Source: KPMG International's Global cloud survey: the implementation challenge

Source: KPMG - "The cloud takes shape"

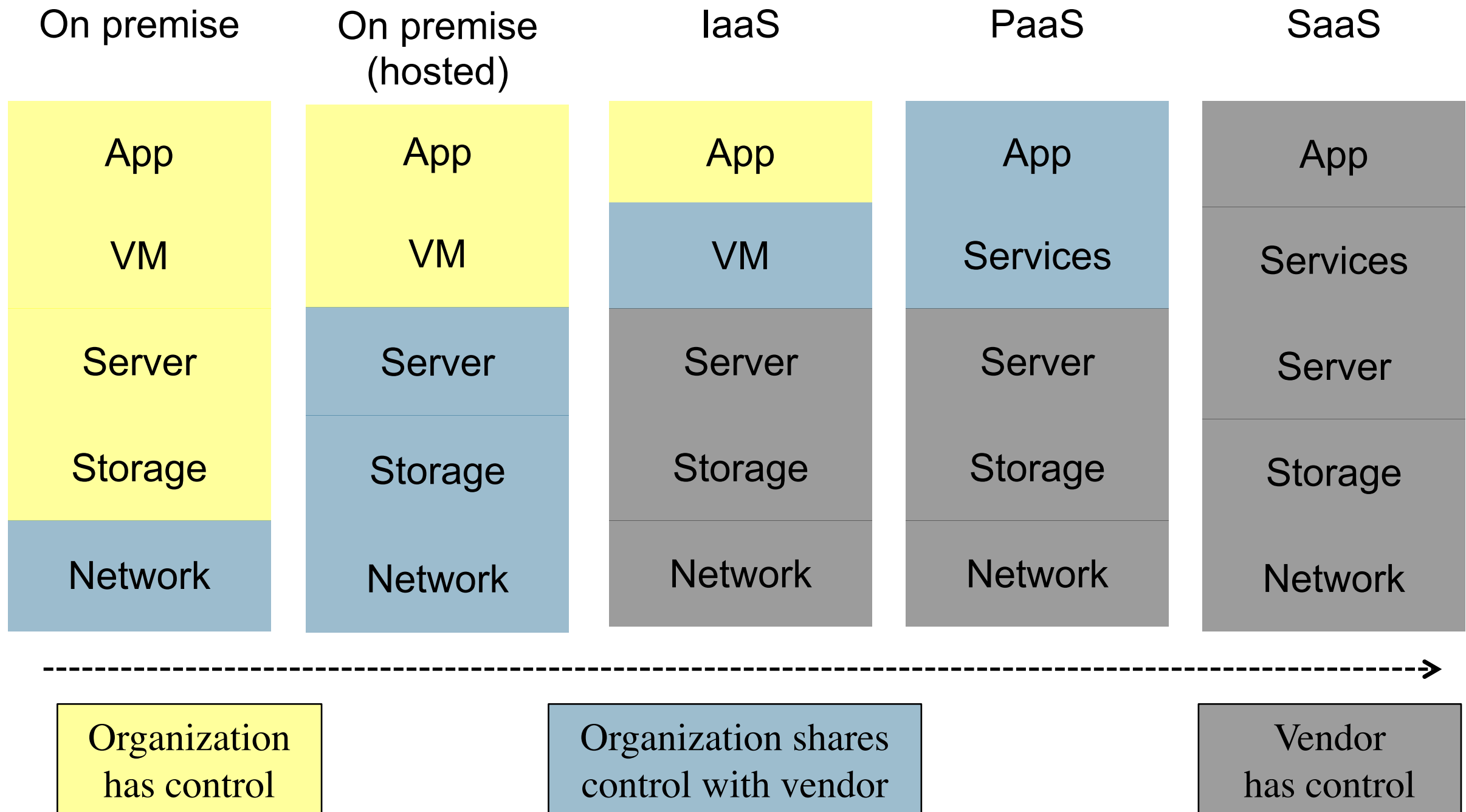
Cloud Security

- What's not new?
 - Phishing, password, malware, downtime etc.
- What's new? Understand...
 - Change in trust boundaries
 - Impact of using
 - Public vs. private cloud
 - IaaS vs. PaaS vs. SaaS
 - Division of responsibilities between customer and cloud provider
 - Regulated using policy

Cloud Security

- Infrastructure Security
 - Network Level
 - Host Level
 - Application Level
- Data Security and Storage
 - Data-in-transit, data-at-rest, data processing
 - Integrity and accuracy
- Identity and Access Management (IAM)
- Privacy

Control, Liability and Accountability



This lecture

- Datacenter Security - Joakim Persson
- Block chaining - Christopher Jämthagen

Some Reading

- Security guidance for critical areas of focus in cloud computing v3.0, Cloud Security Alliance
- T. Ristenpart et al. (2009) “Hey You Get Off My Cloud”, 2009