Cloud Computing Lecture #6 Information Policy

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Some material in these slides taken from: Jaeger, Lin, and Grimes. Cloud Computing and Information Policy: Computing in a Policy Cloud? Journal of Information Technology & Politics, 2008, in press.



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What is policy? Why is policy important?

What is information policy? Why is information policy important?

Cloud Computing: Public Perception

- o "Use of Cloud Computing Applications and Services"
 - Study conducted by the Pew Research Center
 - April-May, 2008: sample of 1,553 Internet Users
- Users may not know the term, but it's already here...



Cloud computing activities Percent of Internet users who do the following...

	All	18-29
User webmail services	56%	77%
Store personal photos online	34%	50%
Use online applications	29%	39%
Store personal videos online	7%	14%
Pay to store computer files online	5%	9%
Back up hard drive to an online site	5%	7%



Reasons people use cloud applications

	Major	Minor	Not
Easy and convenient	51%	23%	23%
Ubiquitous access	41%	25%	32%
Easily shared	39%	28%	29%
Won't lose information	34%	23%	23%



Attitudes about policy of services How concerned would you be if a company...

	Very	1	lot too	ot too	
	S	Somewhat	Not at all		
Sold your files to others	90%	5%	2%	3%	
Used your information in marketing campaigns	80%	10%	3%	6%	
Analyzed your information to display custom ads	68%	19%	6%	7%	
Kept a copy of your deleted files	63%	20%	8%	8%	
Gave law enforcement files when asked	49%	15%	11%	22%	



Pew Study: Key Issues Identified

- Trust
- Control
- Reliability
- Security



Cloud Computing Issues

- Reliability
- Security, Privacy, and Anonymity
- Access and Usage



Reliability

- Accuracy of results?
- Consequences of failure?
- Who bears the risks?
- Liability for losses?
- Corruption of data?



Security, Privacy, Anonymity

- Need for protection, particularly sensitive information
 - Personal (SSNs, photos, etc.)
 - Corporate (client accounts, internal memos, etc.)
 - Scientific (experimental data, results, etc.)
- Technology isn't enough!



Security, Privacy, Anonymity

- Spying by other users of the cloud service
- Monitoring by the cloud provider
 - Quality control
 - Data mining
- Government surveillance
 - Cross-national issues



Access and Usage

- Intellectual Property
- Licenses
- Export and data sharing prohibitions



Who's driving policy today?

- Telecommunications policy and law
 - What is a cloud provider (legally speaking)?
 ... closest to a teleco
- Contractual law
 - Often unilaterally dictated by the cloud provider



"you acknowledge that you bear sole responsibility for adequate security, protection and backup of Your Content."

Possible Futures

- o Governmental regulations?
 - Laws do not keep pace with technology
- Let the market handle it?
 - Service differentiation
 - Danger of monopolies
- Combination of the two?

