ServiceWave 2010 CONFERENCE 13TH-15TH DECEMBER

Security in Cloud computing: sharing more than resources

Martine Lapierre, THALES DSC, Technical Director

23-27 November 2009

ServiceWave 2010 CONFERENCE Growing need of IaaS - Cloud would help:











Smart healthcare

Environment monitoring

Cloud computing implies loss of control

- Choices of cloud offering based on: - reputation to ensure protection and confidentiality
 - ability of the cloud provider to prove that there is 'no' loss of control



ServiceWave 2010 CONFERENCE eHealth cloud example



ServiceWave 2010 CONFERENCE 13TH-15TH DECEMBER

Customer's view on security

Are my data secure in the Cloud ?

- Who can access the data ?
- Can I access my data at any time ? What is the SLA ?
- Can I stop my contract at any time ? (reversibility)

Can I comply with laws and regulation ?

- Where are my data ? What about if disclosure ?
- How long are my data kept if I ask for suppression ?
- How is managed the requisition process ?

Who is responsible?

- Loss of control while maintaining accountability even if operational responsibility falls upon 3rd parties
- In case of failure in services outsourced to the cloud, the customer cannot meet his duty to his own customers and is exposed to liability

ServiceWave 2010 CONFERENCE Legal and regulatory challenges

Understand the consequences of decoupling data from infrastructure.

Regulation of cross-border data flows

 cloud providers operate datacenters in multiple locations and transfer data among them.

Coherent regulations on privacy, data retention

• EU member states have divergent views as to whether cloud providers need to retain data and for how long.

Enhance criminal enforcement of crimes

- Aggregation of data in cloud data centers are attractive targets for hackers.
- Incident response.

Compliant storage certification Interoperability standards in cloud



Security challenges

Quality of service guaranties Certification and accreditation Compliance to regulations ID management, RBAC Logging, audit

Multi-tenancy issues and isolation Insecure interfaces in federation context Data protection Cloud infrastructure protection Portability, reversibility







From Randy Marchany

🛄 Virginia lech



THANK YOU!

