Cloud Computing Bill of Rights

From Cloud Computing Community Wiki

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See also: Cloud Computing Manifesto

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User rights

Auditing

- 1. Events must be securely recorded for a period disclosed to and depending on the needs of the user
- 2. Logs must be made available by download in a transparent format and optionally online
- 3. Monitoring should not exceed that required for service delivery, or must be optional

Billing

- 1. Itemised Invoices must be made available with sufficient information so as to validate the providers' claims
- 2. Limits must be able to be enforced so as to prevent runaway costs
- 3. Rates must be transparent, in that a user should be able to calculate and anticipate usage
- 4. Usage Data (both current and historical) must be available to enable users to monitor usage trends

Backups

- 1. Bulk Access shall be provided to all user data (including metadata and configuration data)
- 2. Frequency of access shall not be unreasonably limited (eg >30 days 1)
- 3. Redundancy should be built into the systems such that user data is protected against loss

Data

- 1. Encryption of data shall be facilitated where feasible and never unnecessarily hindered
- 2. Integrity data integrity expectations will be clearly defined
- 3. Licensing as necessary for delivery of services (eg hosting) is acceptable with explicit permission
- 4. **Metadata** and configuration data (eg settings) is included
- 5. **Ownership** is retained by the user along with all associated rights (eg copyright)^[2]

6. Subusers' data is included (eg Google Apps users have multiple accounts, SalesForce users have customer accounts)

Interfaces

- 1. Application Programming Interfacess (APIs) shall be maintained for accessing and manipulating data
- 2. Change control shall allow for all API changes to be notified well in advance
- 3. **Documentation** shall be made available online in open standard formats
- 4. Superseded versions of APIs shall be available for a reasonable period

Legal

- 1. Conflicts of interest shall be revealed to the user (eg where sponsorship has affected platform choice)
- 2. Contracts shall use clear and easy to understand contract language, striving for the fewest surprises
- 3. Notice of changes (most notably service shutdown) must be given well in advance (ideally months)
- 4. **Termination** of service agreements without penalty must be possible in the event that *Terms of Service* changes are not acceptable to the User
- 5. Warrants shall be defended and notified to the user according to a set of published policies, except where forbidden

Location

- 1. **Location** of systems and data shall be made available to users, but need not be provided beyond the smallest significant jurisdictional boundary (eg state, country, union of states)
- 2. **Selection** of an appropriate location based on user preferences shall be provided where feasible (price may vary according to local conditions)[3]
- 3. Entry points (eg URLs) shall be owned by the user to facilitate transition between providers

Security

- 1. **Access** to systems must be available in a secure fashion (eg appropriate authentication and <u>transport layer security</u> with appropriate ciphers)
- 2. **Administrative Requests** be handled using secure processes resistent to social engineering (eg identity verification, proof of control of domain [4])
- 3. **Change management** shall be enforced and users shall be notified of changes which affect them in advance (ideally with the option to reject)
- 4. Confidentiality of user data must be strictly maintained
- 5. **Multitenancy** be strictly enforced such that no user can access or modify the data of any concurrent, former or future user
- 6. Purging of data shall be facilitated as required, including immediate, permanent and secure purging if necessary

Service

- 1. **Marketing** shall match service levels and price points (eg never advertise a high service level at a low price point and demand a premium)
- 2. Availability shall be maintained to a suitably high level for the application (typically at least 'three nines': 99.9%)
- 3. **Expectations** shall be met whether explicit or implied; service delivered shall match expectations and providers (who bear the expense in full) will spare no expense in meeting them
- 4. <u>Service Level Agreements</u> shall be clear, concise and backed by financial penalties where they are offered, and alternatives should be offered
- 5. **Support** shall be provided in a timely fashion, typically 24x7 with 1hr response for severity 0 (however subusers may or may not be assisted by provider)

Standards

- 1. Existing standards shall be used where possible in preference to creating new standards
- 2. Open Standards should be used where appropriate standards are available (eg REST)
- 3. Proprietary Standards shall not be used or supported in a fashion that could impair innovation

4. **Transparent** data formats shall be used, except where the user explicitly stores opaque data (eg by uploading a proprietary document)

Acknowledgements

- Sam Johnston prepared this document based on existing efforts and contributed to it
- James Urquhart refined a draft document over a number of blog posts [5][6]
- Rich Wellner contributed a pre-prepared draft document for incorporation

References

- 1. ↑ DreamHost Newsletter July 2008
- 2. ↑ wesabe: Data Bill of Rights
- 3. ↑ Amazon S3 Storage Now Available In Europe
- 4. ↑ Google Apps Domain Verification
- 5. ↑ The Cloud Computing Bill of Rights
- 6. ↑ Update: The Cloud Computing Bill of Rights

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