SAFE/JUST Cloud. POKER or SLOT MACHINE?
ÍNDICE

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2. "Place your bets!"
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INTRODUCING GMV

- Multinational conglomerate founded in 1984
- Private capital
- Offices in Spain, Portugal, Poland, USA, Germany, Romania, and Malaysia
- Over 1,000 employees all over the world
- Roots tied to the Space and Defense industries
Leadership in the Information Security Field

ISO 27001-certified ISMS: Madrid, Barcelona, Valladolid, Sevilla and Valencia premises

UNE-EN ISO 9001-certified QMS and UNE-EN ISO 14001-certified EMS: Madrid, Barcelona, Valladolid, and Sevilla premises

ISO 27000-certified ITSMS: Managed Services at Madrid premises

BS 25999 & UNE 71599-certified BCMS, at Madrid premises
“Place your bets!”
SAFE-CLOUD OR JUST CLOUD:
POKER OR SLOT MACHINE?
WHAT IS THE CLOUD?

- Resource pooling
- Rapid elasticity
- On-demand self-service
- Measured service
- Broad network access

PUBLIC & PRIVATE CLOUDS

Public Cloud

Private Cloud

SAFE-CLOUD OR JUST CLOUD: POKER OR SLOT MACHINE?

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A GOOD BET?

Cost cuts by 61%

Data estimation by author, based on a non-real business case, supported on MS Azure ® TCO calculator http://www.microsoft.com/windowsazure/tco/
ONLY ONE GOOD BET?

PRIVATE CLOUD also cut costs

PUBLIC Cloud-based service

PRIVATE Cloud-based service

Datacenter-based service

PRIVATE CLOUD also cut costs

PRIVATE Cloud-based service

PUBLIC Cloud-based service

Datacenter-based service

Windows Azure Platform

Private Cloud

On-Premises (virtualized)

<table>
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<tr>
<th>Web / worker computing</th>
<th>Storage (non-relational)</th>
<th>Database computing, licensing and storage</th>
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<td>Service Bus connections</td>
<td>Access Control transactions</td>
<td>Bandwidth</td>
</tr>
<tr>
<td>IT administration and support</td>
<td>Facilities and overhead</td>
<td>Setup and delivery</td>
</tr>
</tbody>
</table>

Nota: Valoración de Nube privada realizada por el Autor, en base a simulación anteriormente señalada.
HOW IS THIS ACHIEVED?

- Services Standardization
- Economies of Scale
- Resource sharing & reuse
POKER
vs
Slot Machine
GOOD NEWS ...
... AND ALSO, BAD NEWS
CLOUD RISK MANAGEMENT (i)

SAFE-CLOUD OR JUST CLOUD:
POKER OR SLOT MACHINE?
CLOUD RISK MANAGEMENT (& iii)

SAFE - CLOUD OR JUST CLOUD: POKER OR SLOT MACHINE?
WHY TAKING UNNECESSARY CHANCES?

SAFE-CLOUD OR JUST CLOUD: POKER OR SLOT MACHINE?

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WINNING & LOSING HANDS
THESE CARDS ARE GOOD!!

Sources:  
http://www.microsoft.com/windowsazure/economics/?WT.mc_id=otc-f-us-fip--LP
“Identify main restrain for cloud computing corporate adoption”

- Data Security: 383 (48%)
- Cloud pricing & costs: 68 (9%)
- 3rd party dependance: 211 (27%)
- Accessiblity: 25 (3%)
- Backwards interoperability: 103 (13%)

Source: http://linkd.in/h3s2Wx
The seven deadly sins outlined in the ISF report are:

1. **IGNORANCE**
   - Cloud services have little or no management knowledge or approval

2. **AMBIGUITY**
   - Contracts are agreed without authorisation, review or security requirements

3. **DOUBT**
   - There is little or no assurance regarding providers’ security arrangements

4. **TRESPASS**
   - Failure to consider the legality of placing data in the cloud

5. **DISORDER**
   - Failure to implement proper management of the classification, storage and destruction of data

6. **CONCEIT**
   - Belief that enterprise infrastructure is ready for the cloud when it’s not

7. **COMPLACENCY**
   - Assuming 24/7 service availability
SECURITY EXPERTS PoV


http://www.idc.com/prodserv/idc_cloud.jsp
THE KEY MISTAKE
LOSING HANDS (i)
LOSING HANDS (ii)
LOSING HANDS (& iii)
MIND THE BLUFFS

http://gmailblog.blogspot.com/2011/02/gmail-back-soon-for-everyone.htm
AND STILL ... YOU MAY LOSE

http://www.idc.com/prodserv/idc_cloud.jsp
http://aws.amazon.com/es/message/65648/
SO ... WHAT CAN BE DONE?

Service Commitment

AWS will use commercially reasonable efforts to make Amazon S3 available with a Monthly Uptime Percentage (defined below) of at least 99.9% during any monthly billing cycle (the "Service Commitment"). In the event Amazon S3 does not meet the Service Commitment, you will be eligible to receive a Service Credit as described below.

Effective Date:
The Amazon S3 Service ("Amazon S3") under the terms of the Amazon S3 Service Level Agreement ("SLA") and the Amazon S3 Service Announcement will have the meaning specified in this Agreement and capitalized terms will have the meaning specified in the SLA as in effect on the Effective Date.

Definitions

"Error Rate" means: (i) the total number of internal server errors returned by Amazon S3 as error status "InternalError" or "ServiceUnavailable" divided by (ii) the total number of requests during that five minute period. We will calculate the Error Rate for each Amazon S3 account as a percentage for each five minute period in the monthly billing cycle. The calculation of the number of internal server errors will not include errors that arise directly or indirectly as a result of any of the Amazon S3 SLA Exclusions (as defined below).

"Monthly Uptime Percentage" is calculated by subtracting from 100% the average of the Error Rates from each five minute period in the monthly billing cycle.

A "Service Credit" is a dollar credit, calculated as set forth below, that we may credit back to an eligible Amazon S3 account.

Table:

<table>
<thead>
<tr>
<th>Monthly Uptime Percentage</th>
<th>Service Credit Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equal to or greater than 99% but less than 99.9%</td>
<td>10%</td>
</tr>
<tr>
<td>Less than 99%</td>
<td>25%</td>
</tr>
</tbody>
</table>

Service Credits

Service Credits are calculated as a percentage of the total charges paid by you for Amazon S3 for the billing cycle in which the error occurred in accordance with the schedule below.

Related Resources

- AWS Management Console
- Documentation
- Support
- Get started
- Amazon S3
- Amazon EC2
- Amazon CloudWatch

Amazon EC2 Features:

- Basic Object Store
- Amazon CloudWatch
- Amazon CloudFormation
- High Performance Computing
- Amazon SimpleDB
- Amazon Simple Queue

Amazon EC2 SLA:

- SLA Exclusions
- SLA Service Levels
- SLA Disclaimers

The Amazon EC2 Service Level Agreement ("SLA") is a policy governing the use of the Amazon Elastic Compute Cloud ("Amazon EC2") under the terms of the Amazon EC2 Service Agreement. The SLA applies to each account using Amazon EC2. Unless otherwise provided herein, the SLA is subject to the terms of the AWS Agreement and capitalized terms will have the meaning specified in the AWS Agreement. We reserve the right to change the terms of the SLA in accordance with the AWS Agreement.

Service Commitment

AWS will use commercially reasonable efforts to make Amazon EC2 available with an Annual Uptime Percentage (defined below) of at least 99.95% during the Service Year. In the event Amazon EC2 does not meet the Annual Uptime Percentage commitment, you will be eligible to receive a Service Credit as described below.

Definitions

"Service Year" is the preceding 365 days from the date of an SLA claim.

"Annual Uptime Percentage" is calculated by subtracting from 100% the percentage of 5 minute periods during the Service Year in which Amazon EC2 was in the status of "Region Unavailable." If you have been using Amazon EC2 for less than 365 days, your Service Year is still the preceding 365 days but any days prior to your use of the service will be disregarded. Amazon EC2 services may be unavailable in a Region Unavailability status at any time for reasons beyond Amazon’s control, such as natural disasters and power outages. If Amazon EC2 was unavailable in a Region Unavailability status for less than 5 minutes during the Service Year, it is not included in the calculation of the Annual Uptime Percentage.

"Region Unavailable" and "Region Unavailability" means that more than one Availability Zone in which you are using your instances is unavailable. In the case of an outages due to a natural disaster or power outage, the Region Unavailability status will be determined by Amazon’s Engineering Team.

"Unavailability" means that all of your running instances in one or more availability zones are unavailable. If an Availability Zone is unavailable for less than 5 minutes during the Service Year, it is not included in the calculation of the Annual Uptime Percentage.

Service Credit Policy:

If the Annual Uptime Percentage for a customer drops below 99.95% for the Service Year, the customer is eligible to receive a Service Credit equal to 10% of the monthly service charge for the Region on the day that the Service Credit is calculated. To file a claim, a customer must have paid for the service for the first 255 days of the Service Year. A customer may file a claim any time after the 26th day of the Service Year in which the Service Credit is calculated. Service Credits will not be available to any new or existing customers from the date of availability of the Service Credit. Service Credits will not be available to any new or existing customers from the date of availability of the Service Credit. Service Credits will not be available to any new or existing customers from the date of availability of the Service Credit.
WINNING & LOSING HANDS
LET’S PLAY POKER!
... BUT WISELY!!
SELF-KNOWLEDGE ...

... TO BEST DECIDE
DISCARD IS AN OPTION
KEEP ON TRAINING
PLAY WITH THE BEST PLAYERS
AND MAINLY ... USE YOUR HEAD!
IN SHORT

The CLOUD has COME ... 
... to STAY

CURRENT Cloud providers DON’T address SECURITY needs

COLLABORATION WITH EXPERTS 
make us achieve security objectives
OR TRY YOUR LUCK

Mariano J. Benito Gómez
Director de Seguridad / CISO
mjbenito@gmv.com
www.gmv.com