Riding the Wave of the Digital Bank: A Security Perspective

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Just to understand the use case
Let’s ride it

Source: Shalom Jacobitiz
4 Big Challenges from a Security Standpoint

 Clients and Employees may execute 100% of his activity with the bank remotely and from any device.

 We don’t own all the infrastructure anymore (Clouds, Hybrid, etc.). And more … not even the apps that use it!!

 How can we make this new world coexist with all of our legacy?

 New ways of doing and use of new technologies to “build” Digital Companies. (I.e. Agile methodology, DevOps, Big Data, etc.)
100 % remote interaction
Does authentication play a key role?

It does. But we need to adapt it to the channel and device.

Source: the_english_guy
Does authentication play a key role?

It does. But we need to adapt it to the channel and device.

Source: Diebold
android.com
apple.com
And… it has to be at least as reliable as “traditional” mechanisms

Source: Loren Javier
How can we ensure data exposed is the one we authorized? 
Having “Data Customs”
What if it does not work?

Panic buttons to address incidents.

Source: Ian Hughes
We don’t own all the infrastructure anymore… neither the applications
How to ensure confidentiality if you don’t control the infrastructure?

Well, the architectural design to address security has to be infrastructure independent.
That is also happening on the application side...
To Speed Payments, BBVA Opens Its Tech Black Box to Dwolla
by PENNY CROSMAN
APR 8, 2016 4:00PM ET

BBVA Compass is launching real-time payments through Dwolla, but the really interesting part is what’s going on beneath the surface: the

OPENNESS. BBVA Compass will entice sharing APIs with other tech partners. “We do see that as the future,” says Chad Ballard, BBVA’s bank’s director of innovation and mobility.

BBVA Compass partners Dwolla for real-time payments
08 Apr 2016 | 3500 views | 1
Legacy coexistence
All of this in an IT environment with high level of legacy
Sometimes we need to develop our own security software
New ways of doing and “new” technologies
Is it possible to guarantee privacy in a Big Data environment?

Source: suziesparkle
What can we do if there is a goal to deploy at any time needed?

We need to automate testing (as much as possible) and embrace SecDevOps.

Source: C. Aaron Cois
SEI – Carnegie Melon
How can we work without knowing the complete functional analysis?

Being part of the team
And sometimes can be painful....

Source: Enrique Fernandez
The team

Source: Jim Penucci
Can Security help achieve the digital business goals?

Source: Terry Johnson
4 Big Challenges from a Security Standpoint

- Clients and Employees may execute 100% of his activity with the bank remotely and from any device.
- We don’t own all the infrastructure anymore (Clouds, Hybrid, etc.). And more … not even the apps that use it!!
- How can we make this new world coexist with all of our legacy?
- New ways of doing and use of new technologies to “build” Digital Companies. (I.e. Agile methodology, DevOps, Big Data, etc.)
Lessons learned - Apply

- If your company is making a digital transformation → Don’t bury your head in the sand, “just” ride the wave.
- Make sure the red lines you draw are real. Be consistent. Be honest. Open your mind.
- Shift “Security” state of mind to Trust Generator.
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