



Making World Class Cloud Security The Rule Rather Than the Exception

Aaron Levie
Jason Hengels
box

Session ID: SECT- 303

Session Classification: General Interest

RSACONFERENCE2012

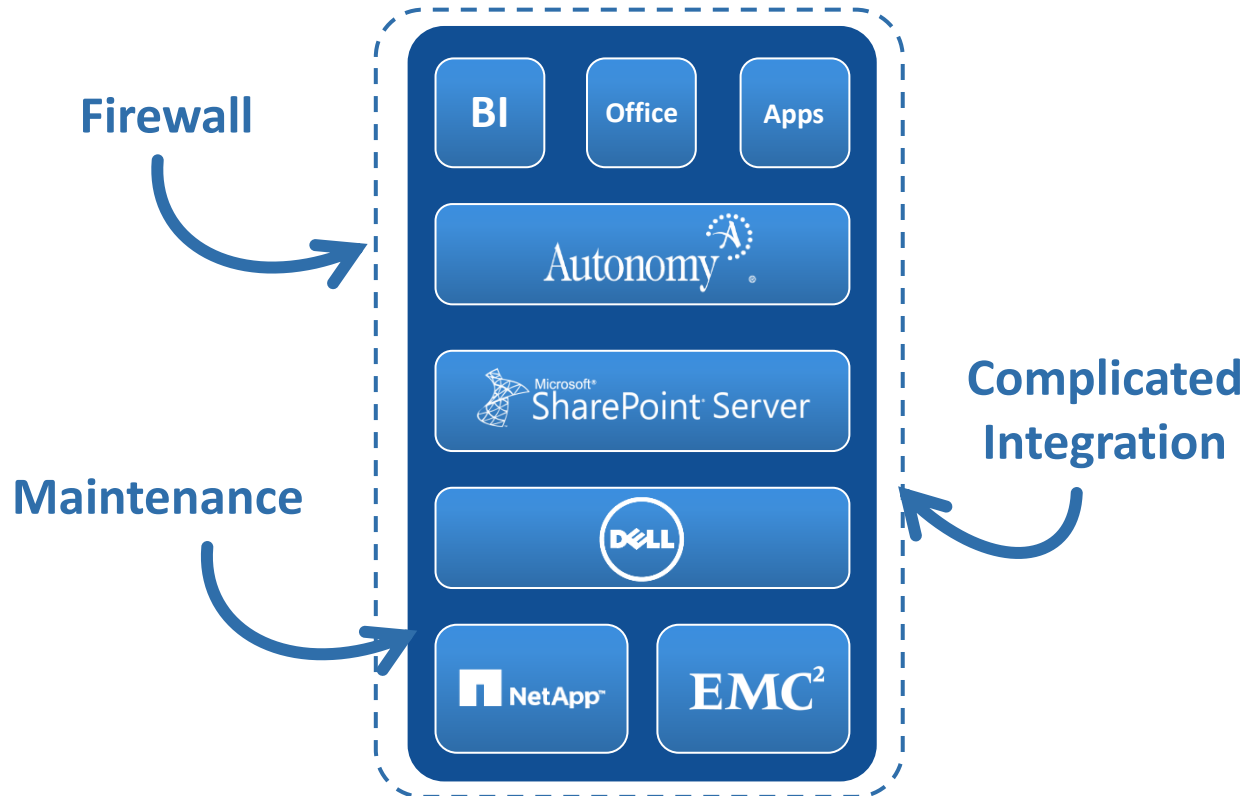
“

The simplest way for businesses
to share, manage, and access
content anywhere.

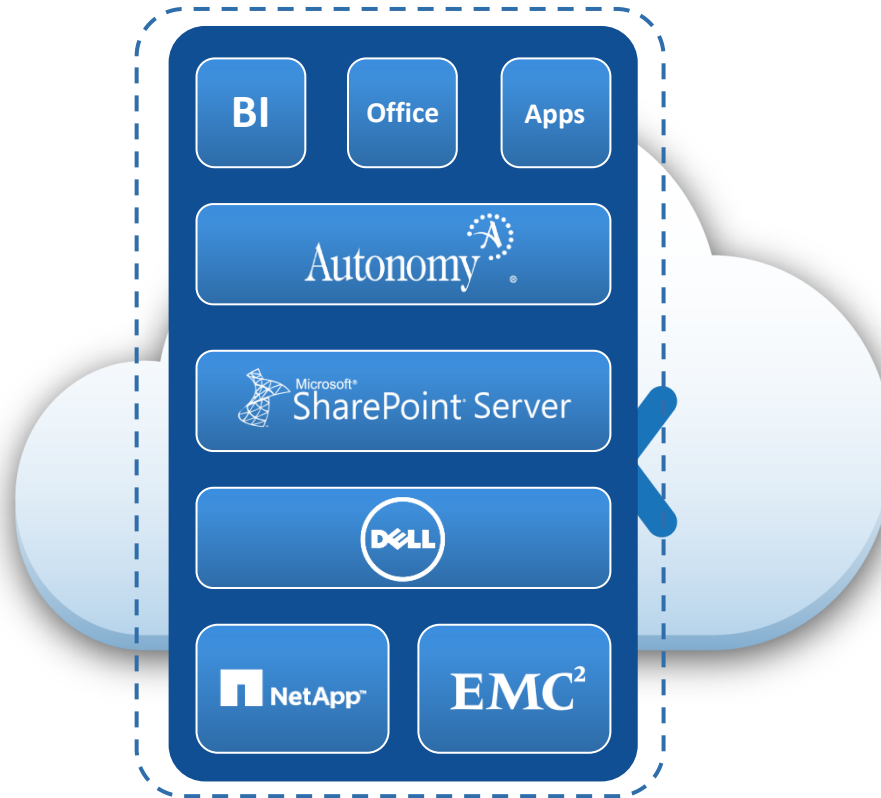
”



Traditionally IT had to manage all this



And now just manages this



Who Uses Box?

- 82% of the Fortune 500
- 100,000 Active Businesses
- 9M+ users, everywhere in the world





“

I CAN'T

...GET TO MY INFORMATION
...INTEGRATE MY APPS
...SHARE OUTSIDE THE ORG
...SEE WHAT'S BEING DONE

”



\$250B on Enterprise Software Annually

- Slow innovation: 3 year product cycles
- Expensive and costly to deploy
- Not built for the way we work today



“

1.8 trillion gigabytes projected to
be created and replicated this
year alone.

”

- *IDC/EMC*



“

91% of enterprises think
high cost of ownership is a
significant problem.

”

- *Forrester*



“

62% of organizations
experienced IT projects that failed
to meet their schedules.

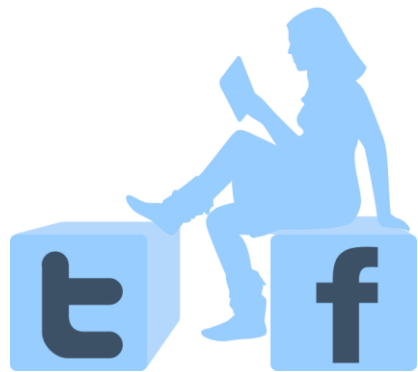
- *Dynamic Markets*

”

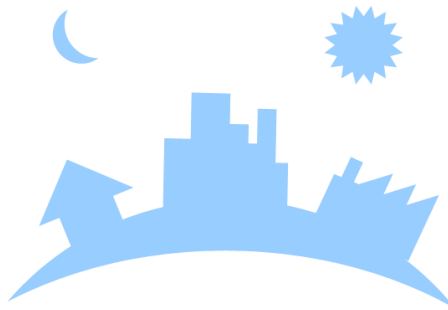


This no longer works.





New Worker



New Workplace



New IT



We're not in a Windows world



500M



175M+



250M+



75M+





Which means IT supports a wider range of platforms than ever before.



More Platforms = More Vectors



“The goal can’t be to throw out all the world’s software and start again.”

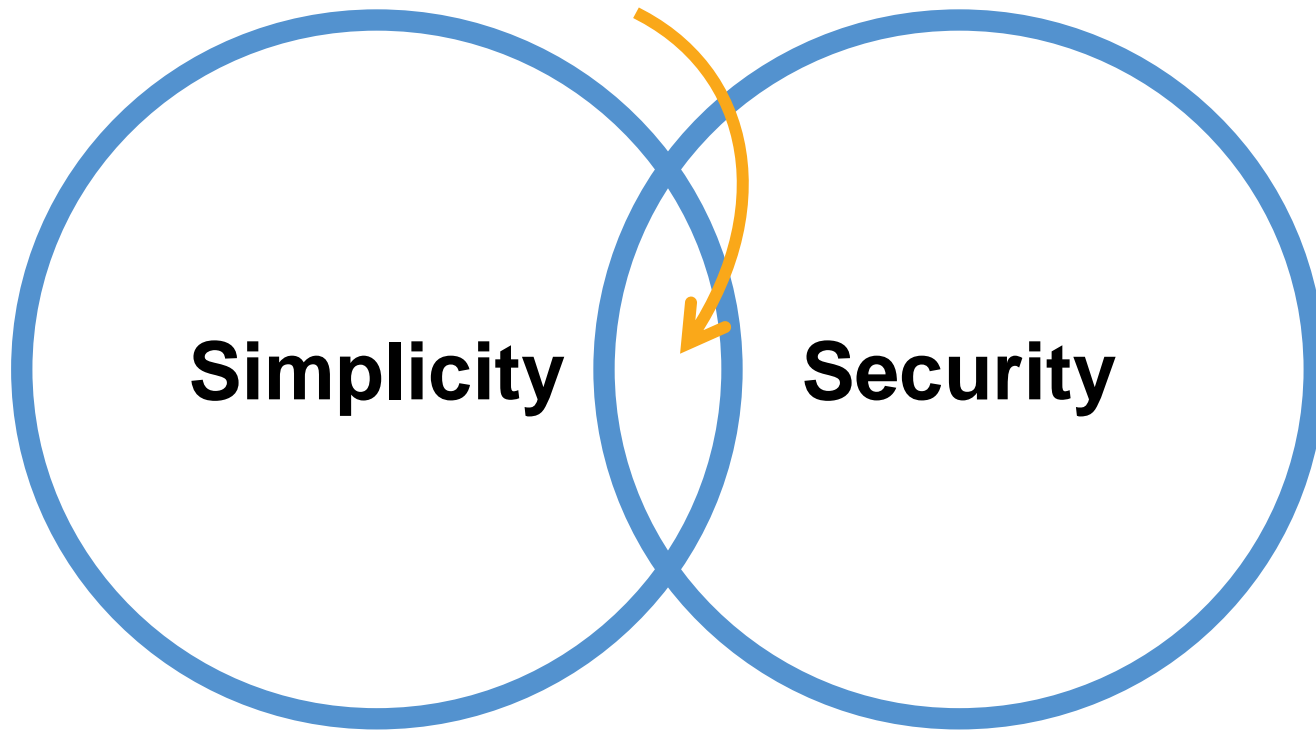
- *Steve Ballmer*



Well, what if we did?



Box lives here



If you can't standardize the device,
you need to secure the data.



Which means the problem gets
pushed out to the cloud.



Which means end-to-end security



*What the
user sees*

*How we
run Box*





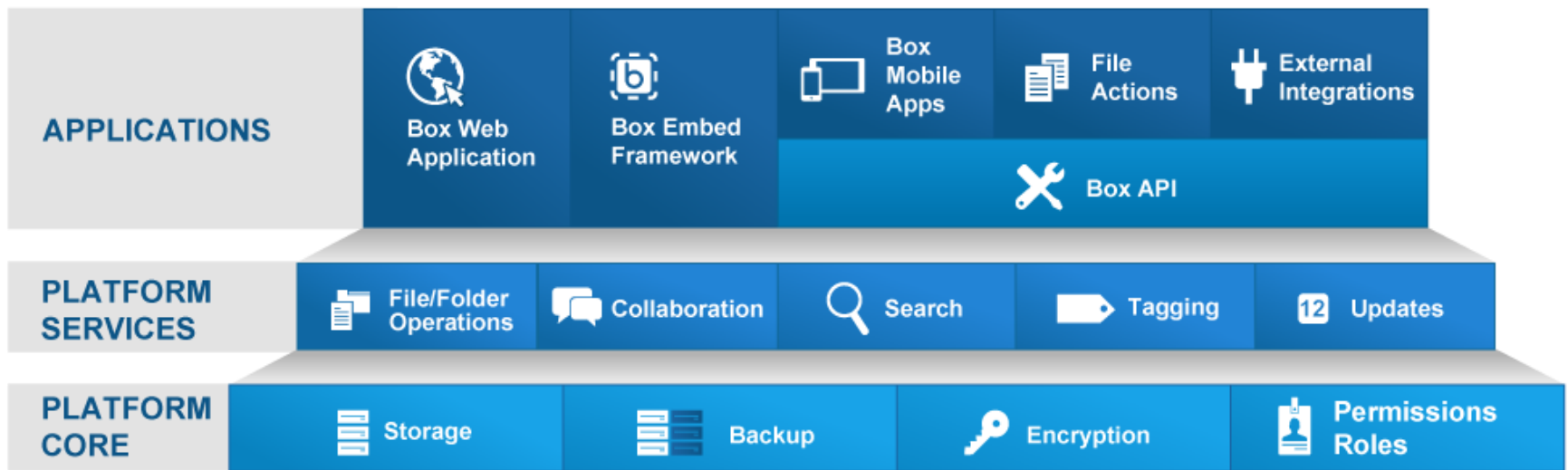
Jason Hengels

VP Security, Box

The power of the cloud is realized only when the complexities of the cloud itself are hidden.



Behind the scenes the cloud is complicated...



There is a common set of problems that cloud providers need to solve in order to make world class cloud security the rule rather than the exception.



Problem #1

Cloud App Sprawl

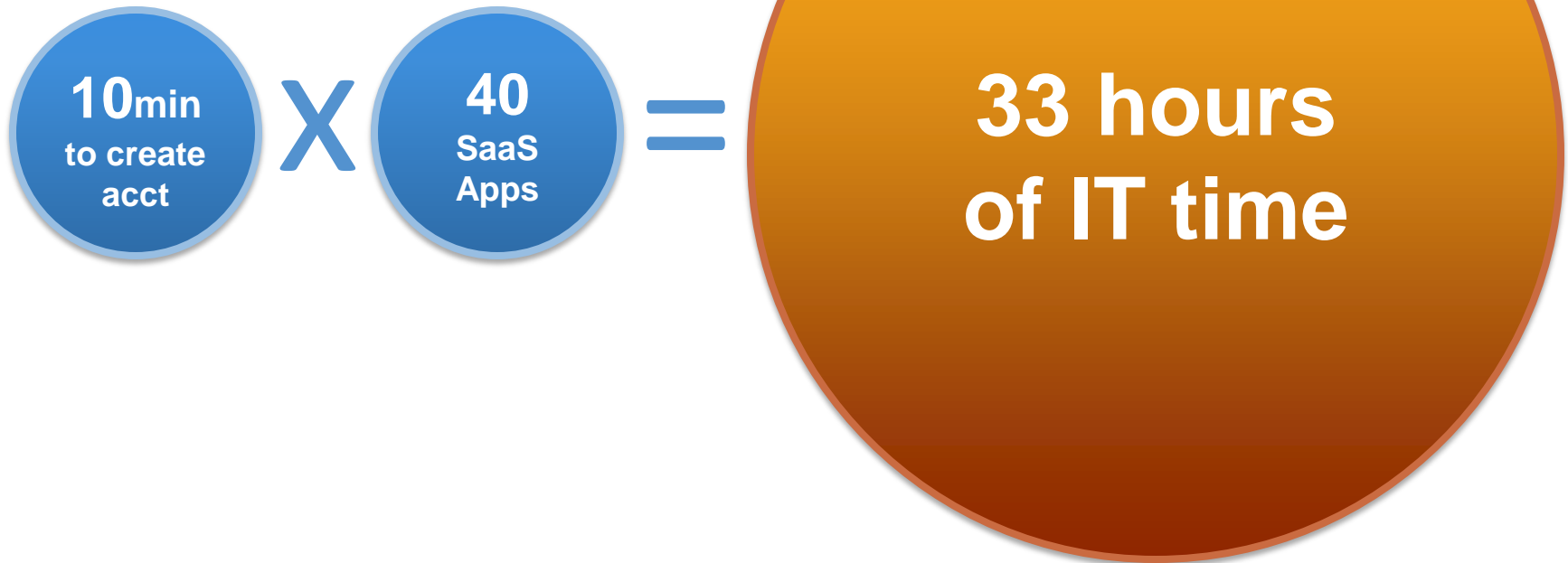


User management is too difficult:



...and it takes too long.

5 new hires:



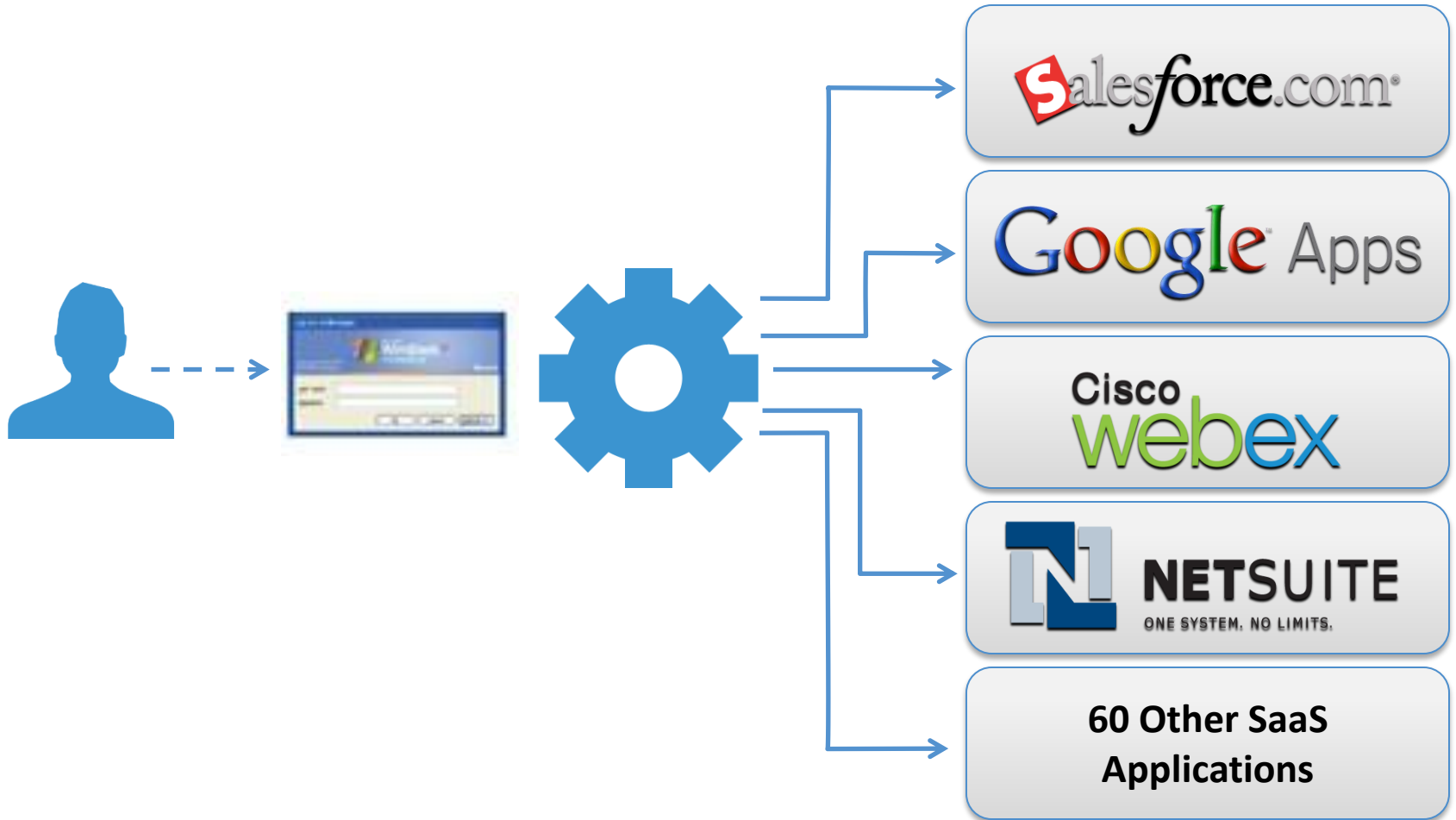
Each cloud app has its own
password complexity &
account lockout scheme(s).



No emergency cut-off.



SSO makes cloud app sprawl manageable.



Problem #2

Multi-tenancy



Multi-tenancy means there is always a risk of exposing data to the wrong party.



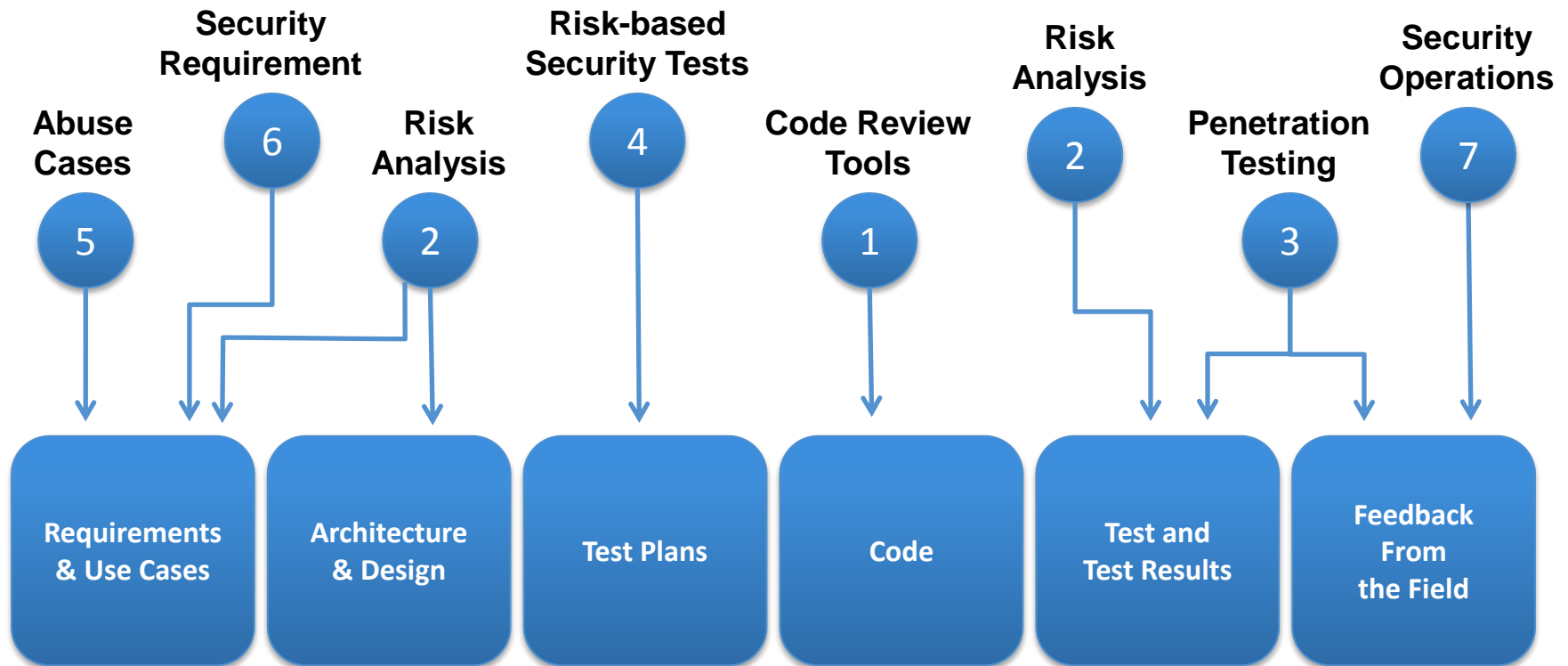
Exposing data in a multi-tenant system can be as simple as accidentally declaring a variable as 'static'.



Preventing data exposure in multi-tenancy systems requires a mature Software Development Lifecycle (SDLC).



Implement a mature Software Development Lifecycle.



Problem #3

Security Transparency



It's hard to know how
secure a cloud provider is.



Why can't I just assume
my data is safe?



Compliant

Secure



Cloud providers need to maintain a penetration testing environment.



Problem #4:

Compliance



Most cloud providers aren't
compliant enough to meet
customers' needs.



Bite the compliance bullet.



PARTICIPATE !



CSA *cloud
security
allianceSM*



box

Cloud providers must:

- Demonstrate security in simple ways:
 - Support SSO
 - Have a mature SDLC
 - Be transparent; let people test their security
 - Be reasonably compliant
 - Participate & keep up with the industry
 - Come talk to us at Box
 - security@box.com
 - jhengels@box.com

