



Welcome to the cloud.

....And how to protect it.

Bill Dunnion . Calian

To begin....
Data...data everywhere!



A typical
Internet Minute...





18 Million Texts





187 Million Emails





3.7 Million Google Searches





973,000 Facebook Log-ins



The Netflix logo is displayed in white, uppercase letters within a red rectangular box. This box is centered within a larger, dark red circle that has a fine, dotted texture. The background of the entire slide is black with a similar dotted pattern.

NETFLIX

266,000 Hours of Netflix
(and chill)





\$863,000 Spent Online Shopping

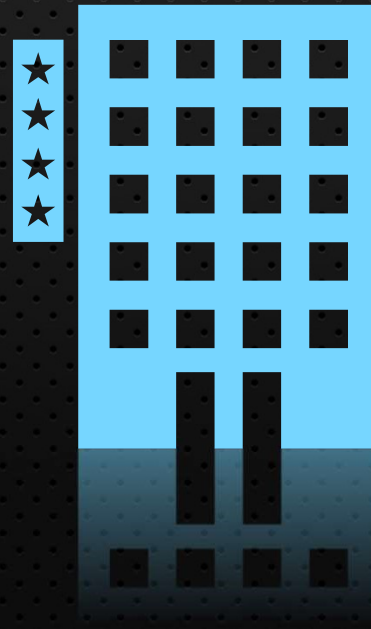




Adoption is staggering.



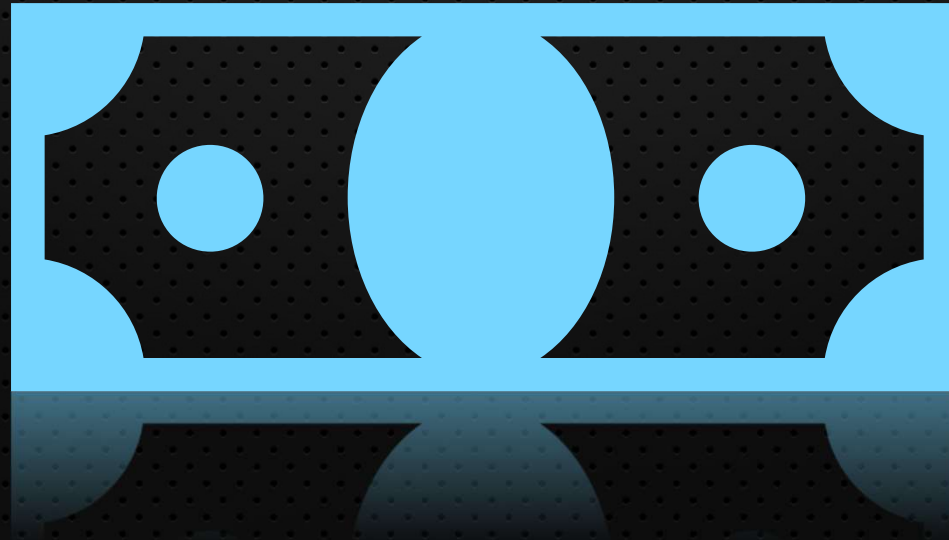
The public cloud service market is expected to reach
\$206.2 billion in 2019 worldwide.



83% of enterprise workloads
will be in the cloud by 2020.



94% of enterprises
already use a cloud service.



30% of all IT budgets
are allocated to cloud computing.



66% of enterprises
already have a central cloud team
or a cloud center of excellence.



1400+ Shadow IT Accounts

Are discovered in enterprises
without proper IT management control



On average, organizations leverage
5 different cloud platforms.



50% of enterprises spend more than **\$1.2 million on cloud services annually.**

And with all of that **Cloud adoption...**

BREACHES!

The image features the classic Yahoo! logo, which consists of the word "yahoo!" in a white, lowercase, sans-serif font. The logo is set against a vibrant purple rectangular background. This purple background is itself centered within a larger, dark grey rectangular area that has a fine, repeating dot pattern. The entire graphic is reflected downwards, creating a mirror image of the logo and its background.

yahoo!

IMPACT: 3 billion user accounts



IMPACT: 500 million customers



IMPACT: 145 million users compromised

The Equifax logo is displayed in white, bold, italicized capital letters on a red rectangular background. The background is centered on a dark grey, perforated surface that reflects the logo below it.

EQUIFAX®

IMPACT: 143 million consumers

UBER

IMPACT: 57 million Uber users
and 600,000 drivers

JPMorganChase 

IMPACT: 76 million households
and 7 million small businesses



**PlayStation®
Network**

IMPACT: 77 million PlayStation
Network accounts

The RSA logo is displayed in white, bold, sans-serif capital letters. The letters 'R', 'S', and 'A' are positioned above a white upward-pointing triangle. The logo is centered within a red rectangular area, which is itself centered within a larger, rounded red rectangle. The background of the slide is black with a fine, dotted pattern.

RSA

IMPACT: 40 million
employee records stolen



IMPACT: credit/debit card
information of 56 million customers

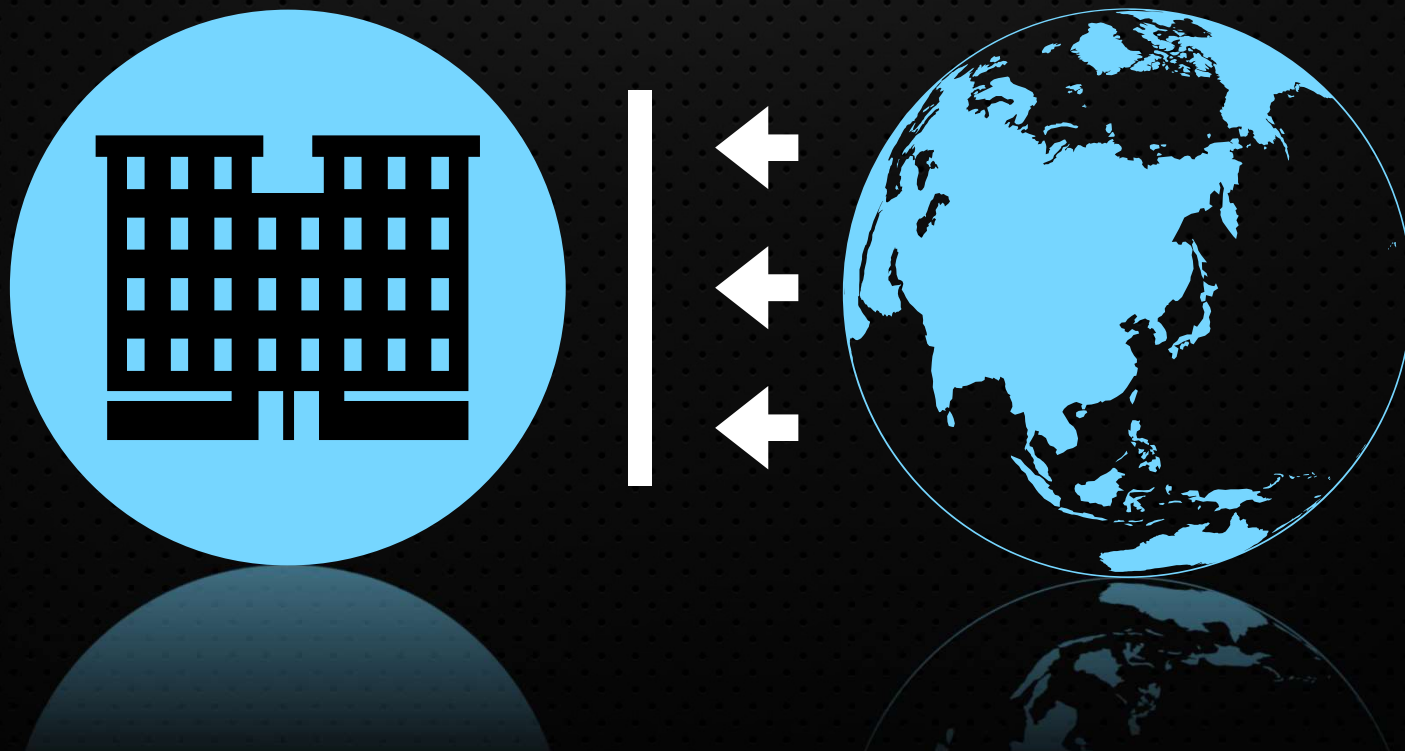


Adobe

IMPACT: 38 million user records

So why is security *damn difficult?* ~~so important?~~

The traditional perimeter **is no longer viable.**





If **YOU** are always connected.
EVERYTHING is always connected.



Responsibility



Cloud Provider
Responsible for security *OF*
the cloud

So... what does security **IN** the cloud mean?

- ✓ Protect the data wherever it lives
- ✓ At rest, in motion, on prem, in cloud



But *where*
do you start?

Access Control

The Emergence of CASB



The Next Frontier

CASB 2.0

DLP | AV | Threat intelligence

An integrated approach to
your core infrastructure and endpoints



Eliminate multiple islands of DLP



Deliver **Malware Protection**



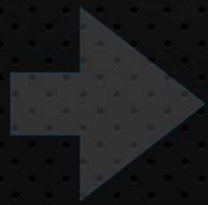
Provide **Endpoint Protection**



At the end of the day...



People



Process



Technology



People

- ✓ Largest attack vector/weakest link
 - Awareness training
- ✓ Developer training
 - Secure your cloud development
 - Don't remove firewalls to solve a problem



Process

- ✓ Development
- ✓ QA
- ✓ Incident response





Technology

- ✓ Makes people/process more efficient

Important **answers** to important **questions**.

Thank You.

Bill Dunnion

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