

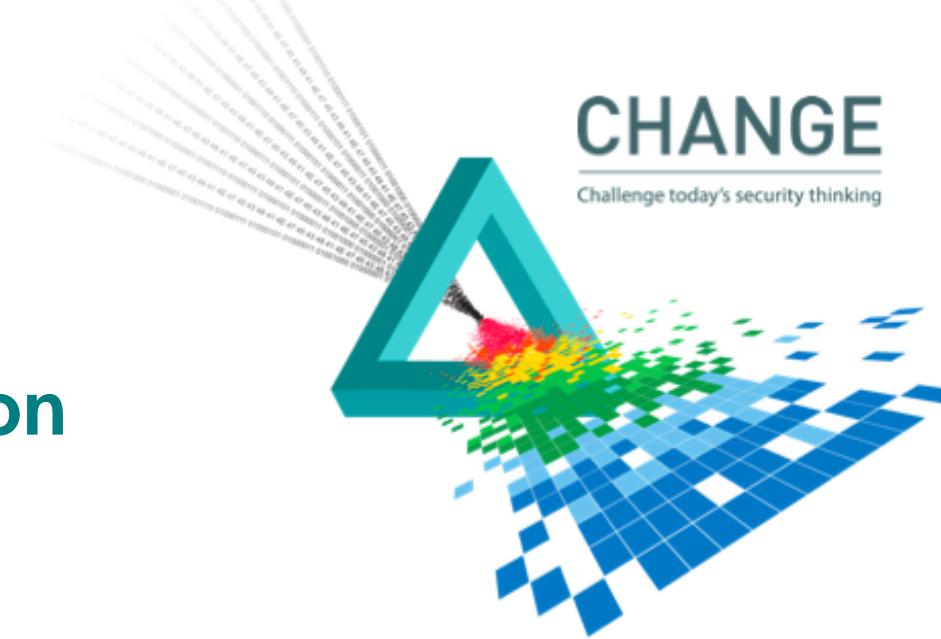
RSA Conference 2015

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SEC-R09

How APIs Turned Cloud on Security on Its Head

Rajneesh Chopra, VP of Products, Netskope
@rajnchop



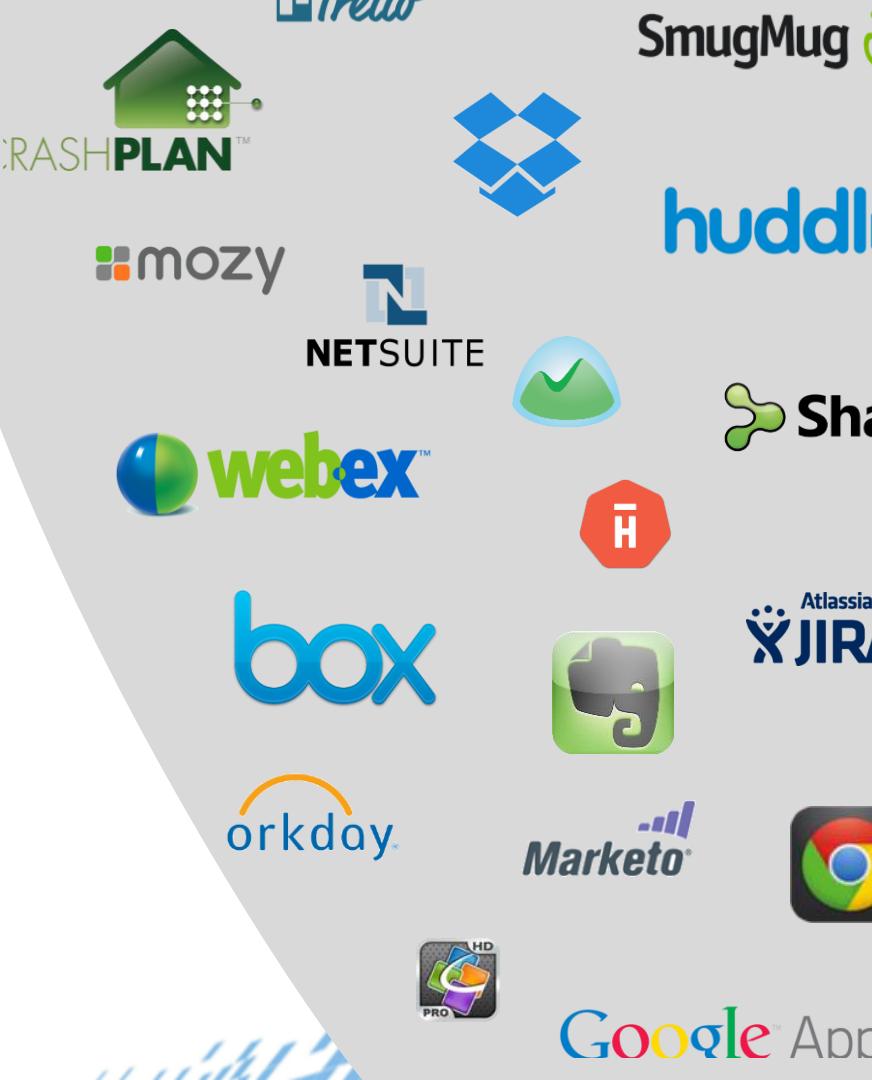
How APIs Turned Cloud Security on Its Head

- ◆ What happened to the perimeter?
- ◆ APIs make us move fast
- ◆ But they turned cloud security on its head
- ◆ Here are some “how-tos”



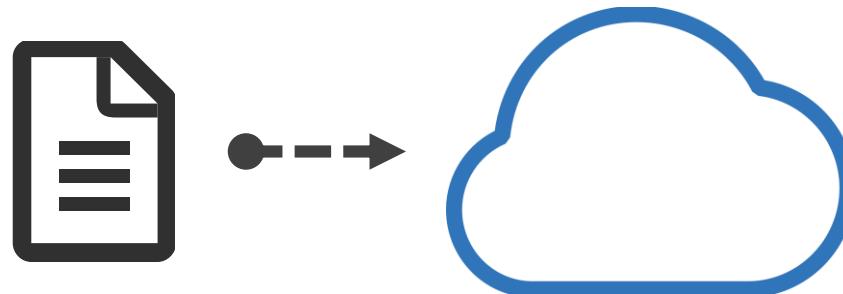


Perimeters and Unicorns
Two things that only exist in IT fairyland





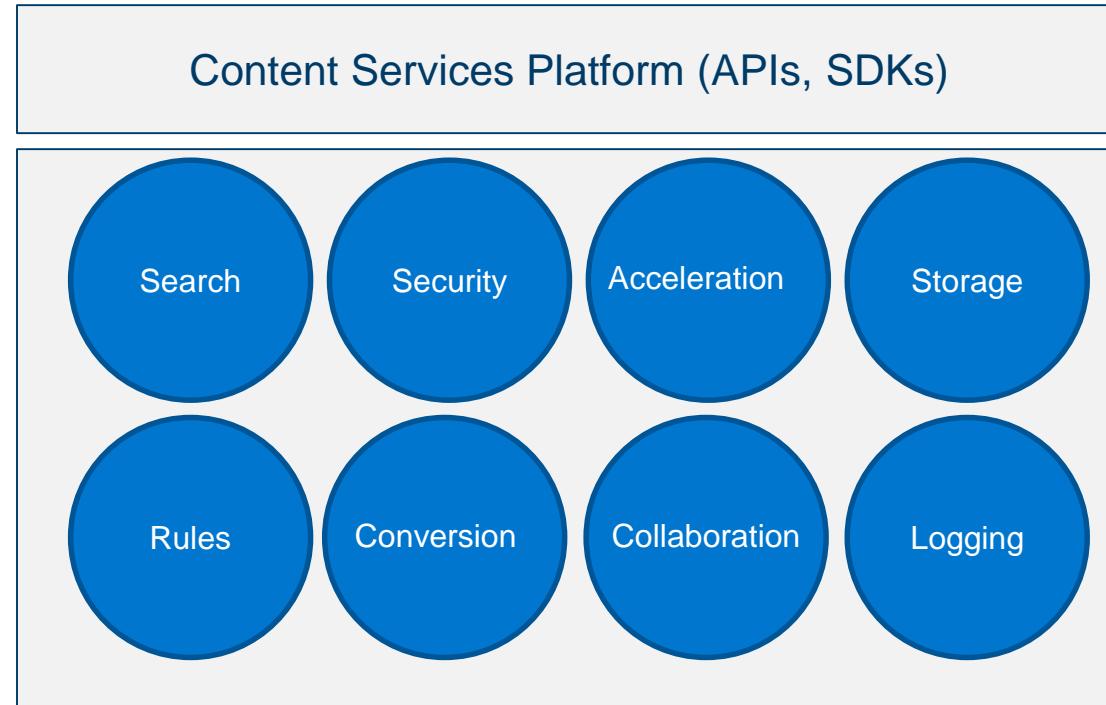
APIs Expose Conceptually Simple Services

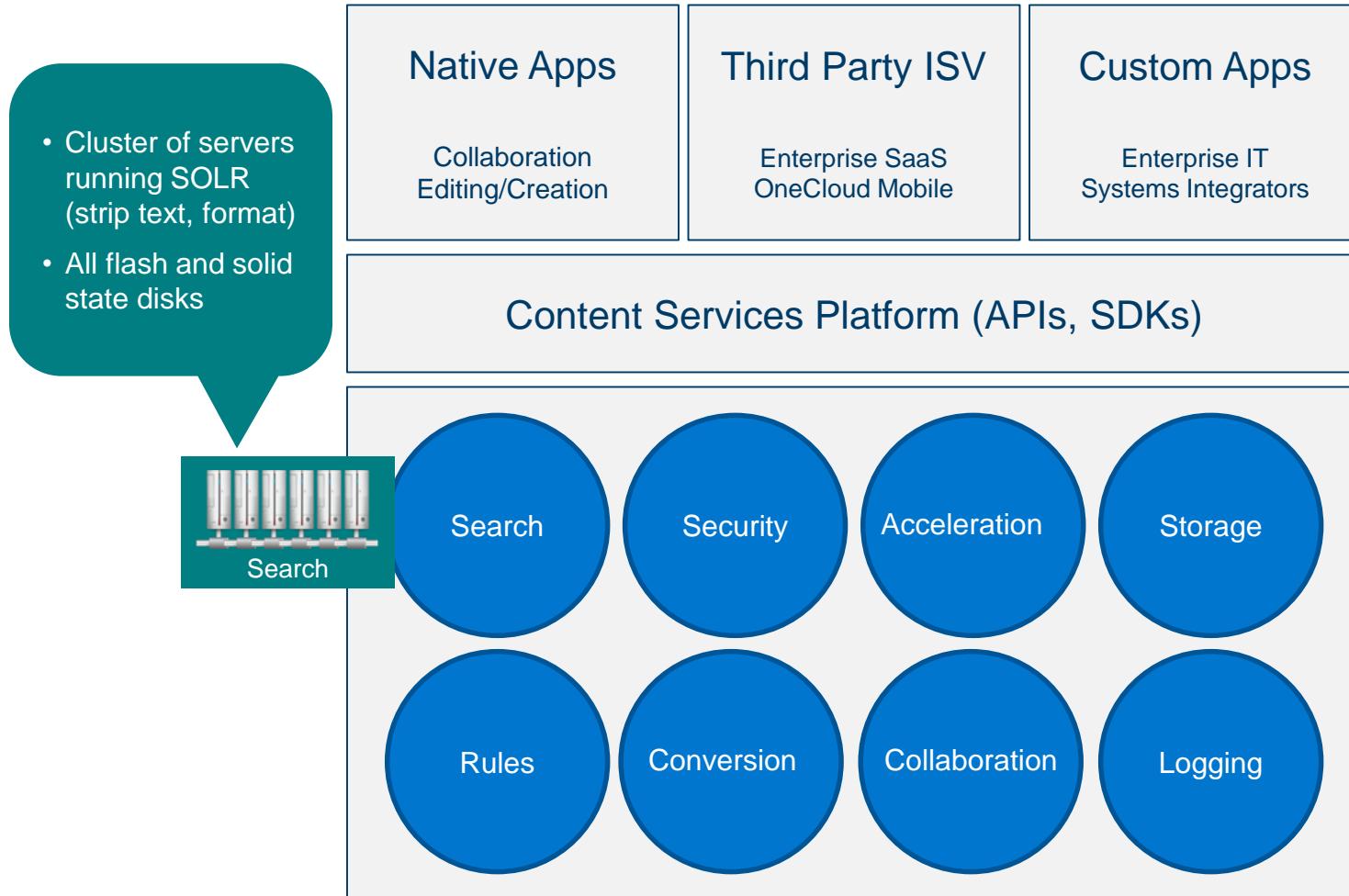


Challenging at Scale



Making Complex Services Simple





THE CATALYST OF
ECOSYSTEMS ARE APIS



**“50% of salesforce.com revenue
comes from their app ecosystem”**

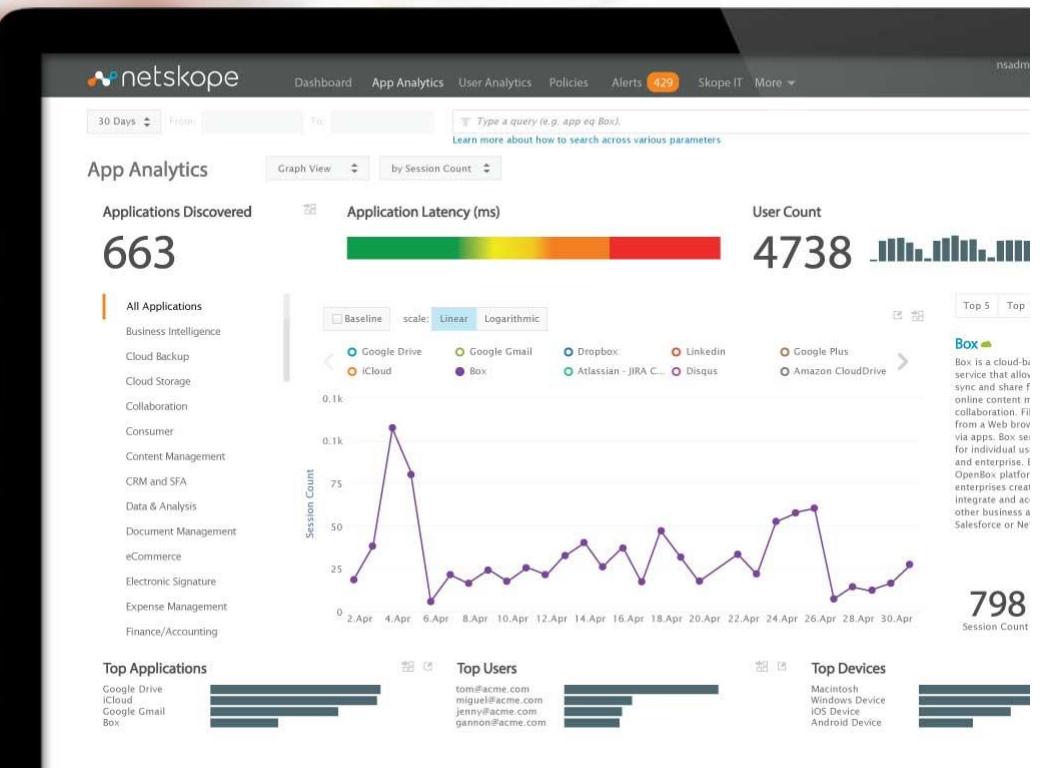
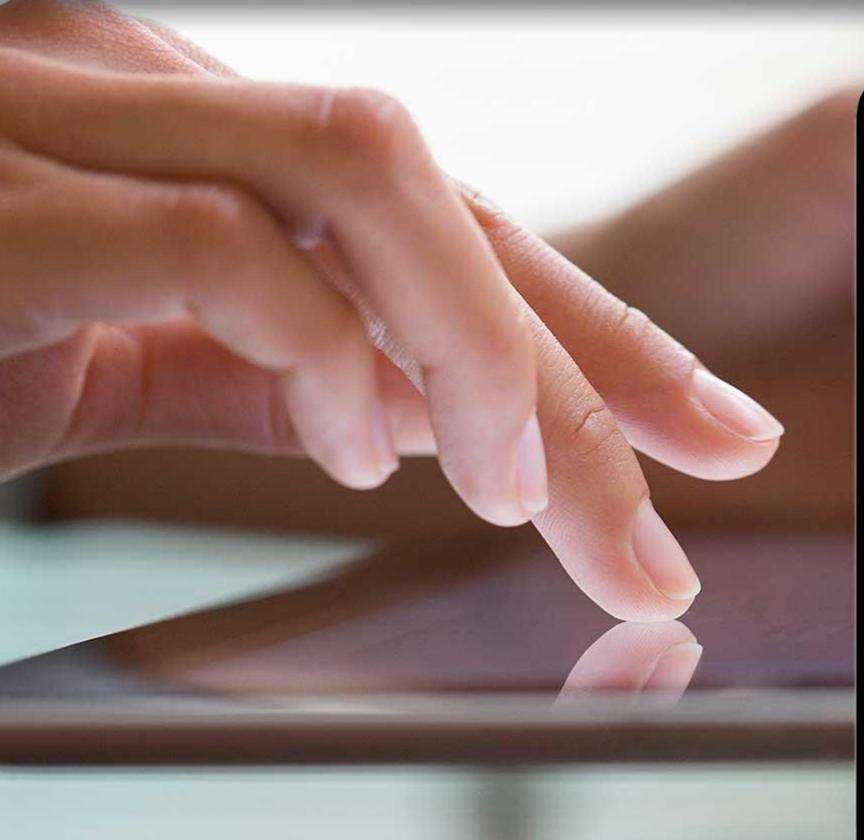
5 Reasons Why APIs Turned Security on Its Head



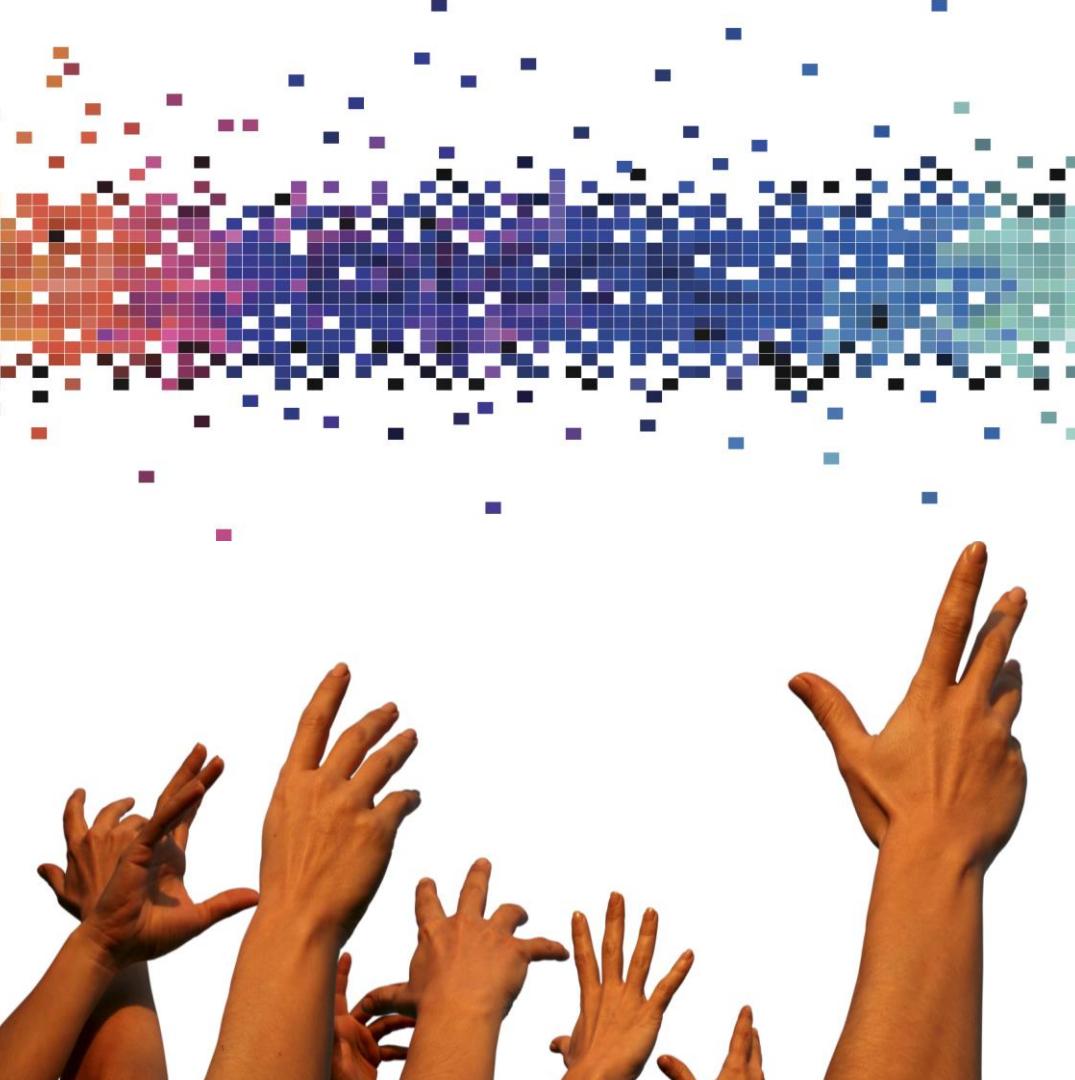
WE CAN'T KICK THEM OUT

WE CAN'T LIVE WITH OUT





1. Data is easy to share



2. Data is
no longer
owned by
the app

What Else APIs Can Tell You

Meet Gary



Sales Rep

Gary got a new job

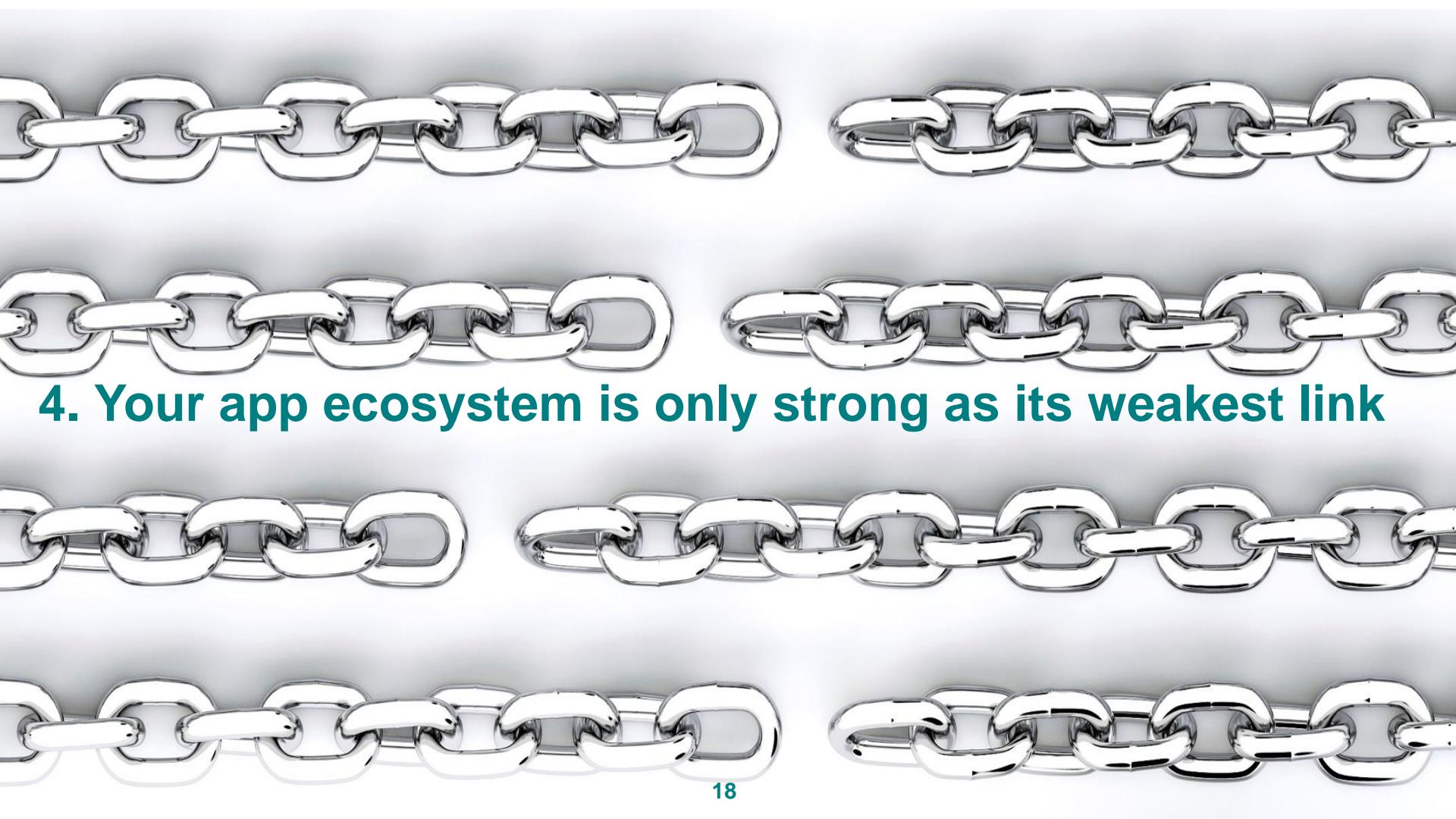
Along the way,
Gary took a
detour



BIGGEST
COMPETITOR, INC.

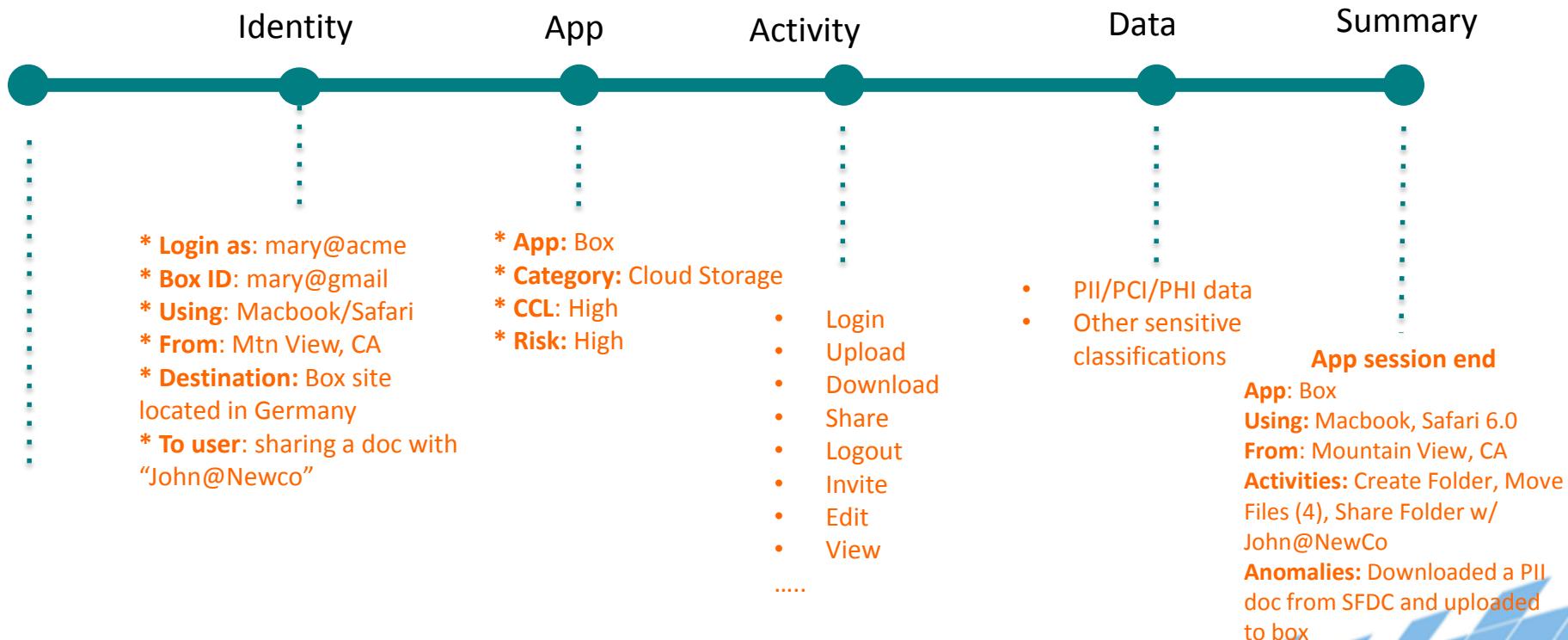
3. The gateway is dead





4. Your app ecosystem is only strong as its weakest link

5. Activity-level Detail through Rich APIs



Let's take a look at this in practice..

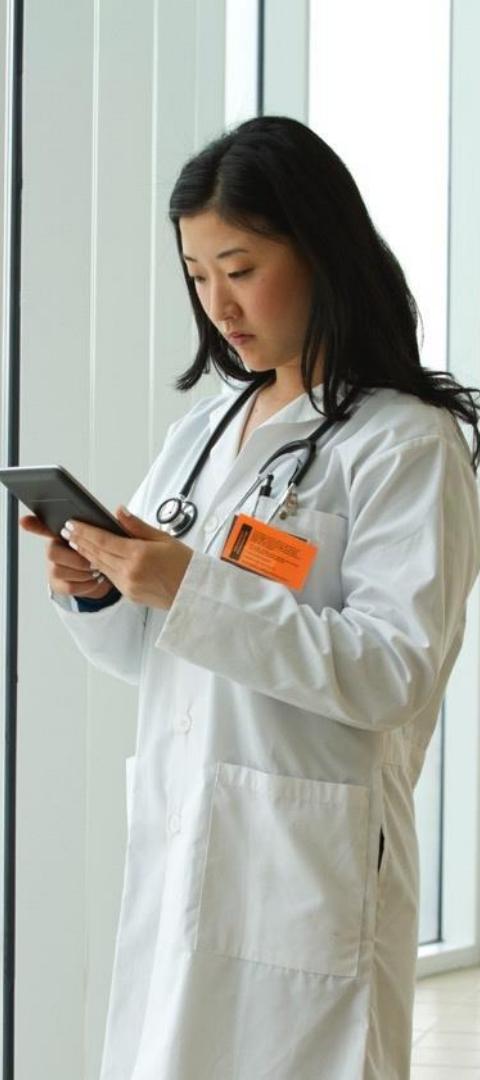
Healthcare Case Study

Global Healthcare organization

- ◆ Founded in 1945
- ◆ One of the nation's largest not-for profit health plans
- ◆ Serve approximately 9.5 million members



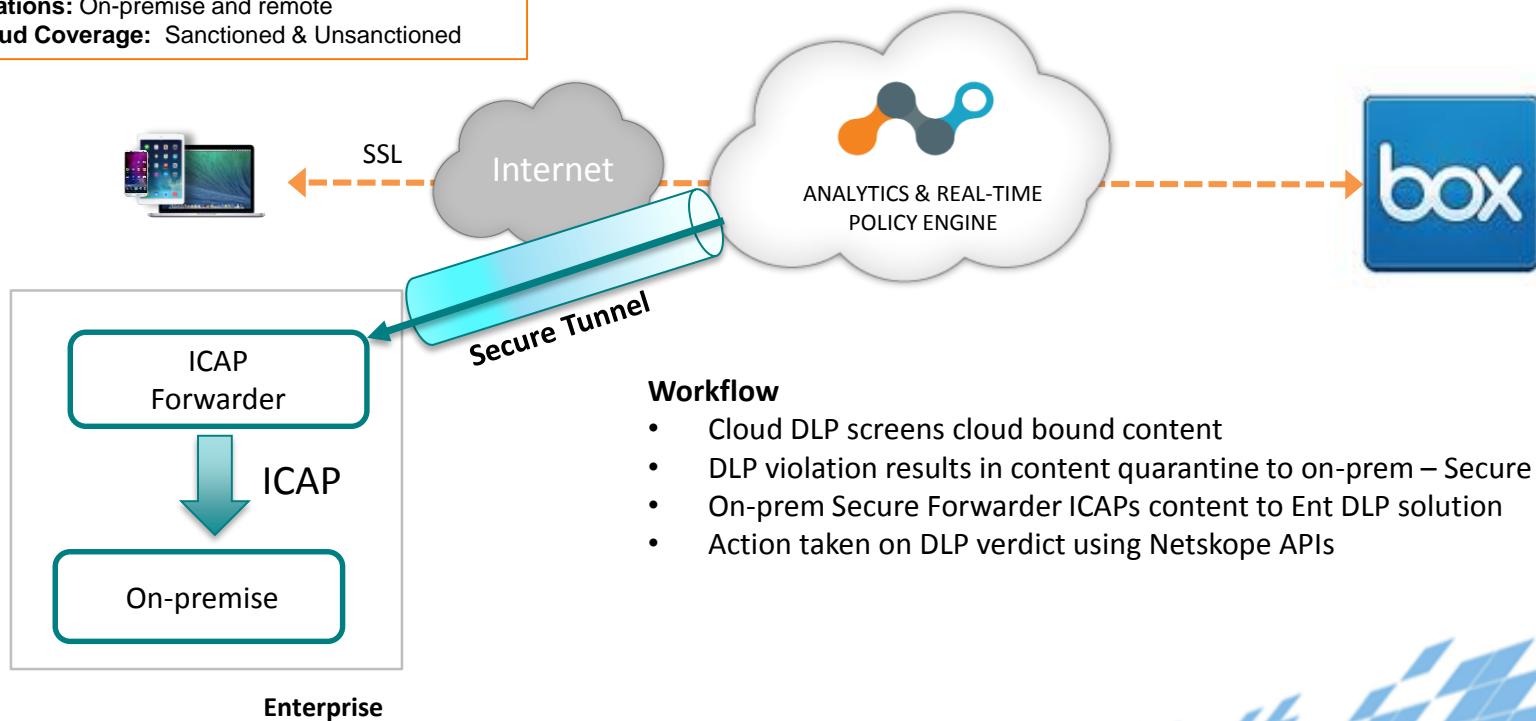
Use Case #1 Protect PHI content in files



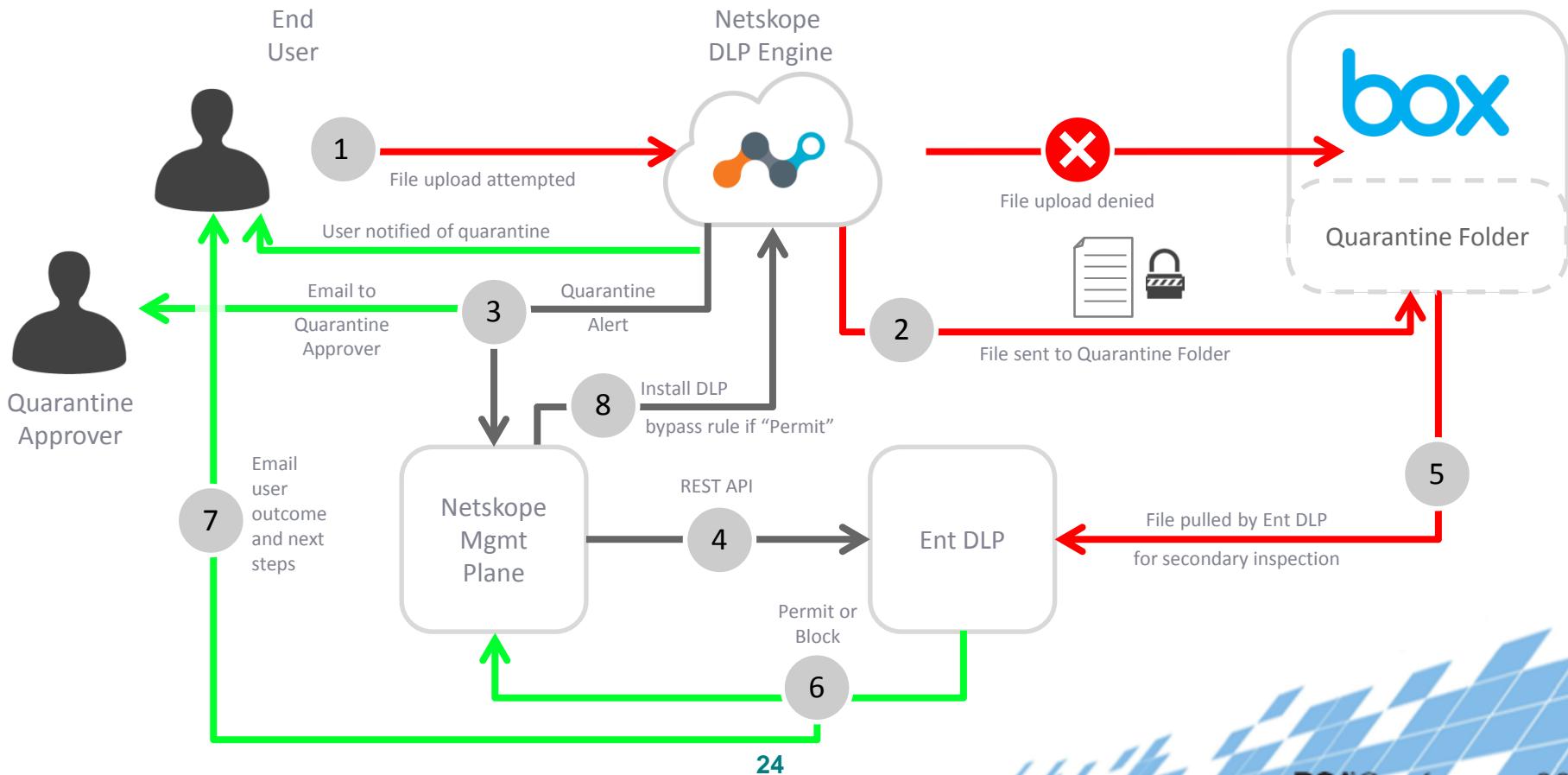
- Real time detection of sensitive data from mobile or laptops
- Dynamic quarantine allows further review by compliance administrator

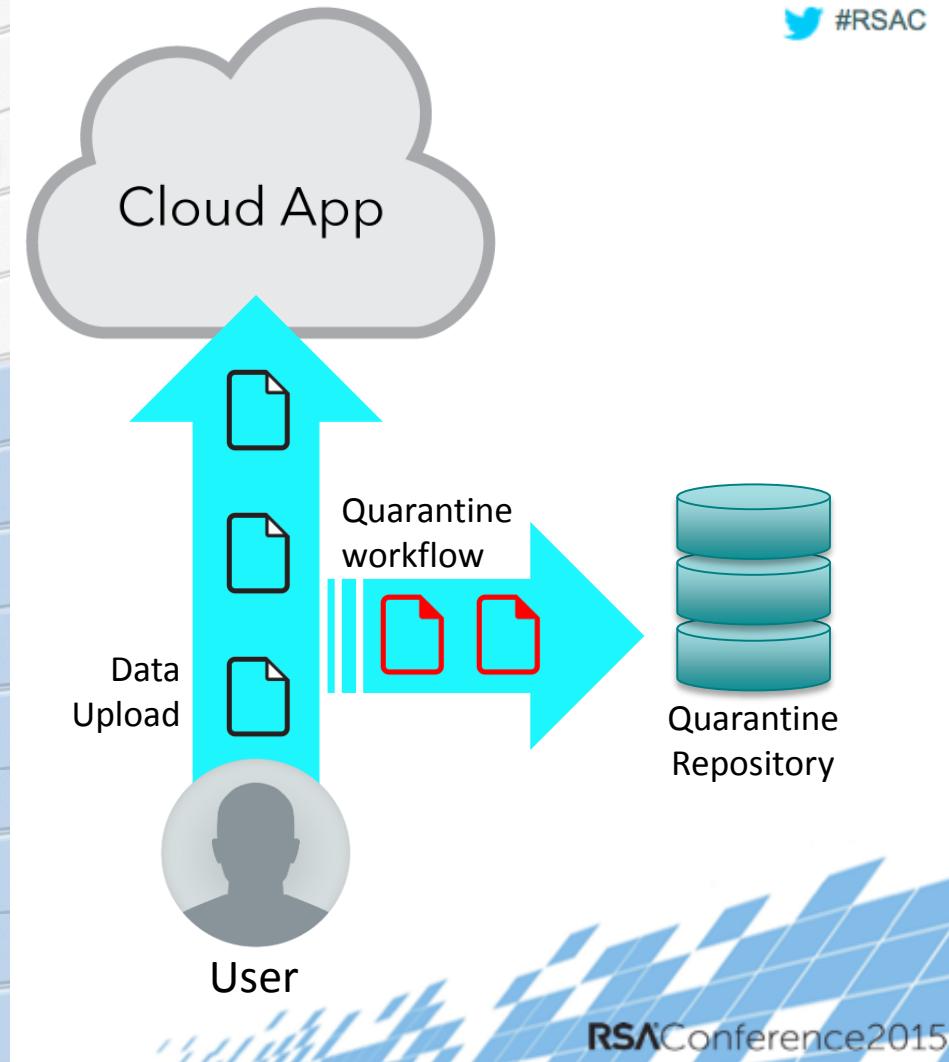
Deployment Architecture – Cloud DLP for cloud apps With On-Prem DLP Validation

All Devices: PC, Mobile and BYOD
All locations: On-premise and remote
All Cloud Coverage: Sanctioned & Unsanctioned



Customize Quarantine, Remediation Workflow with REST API

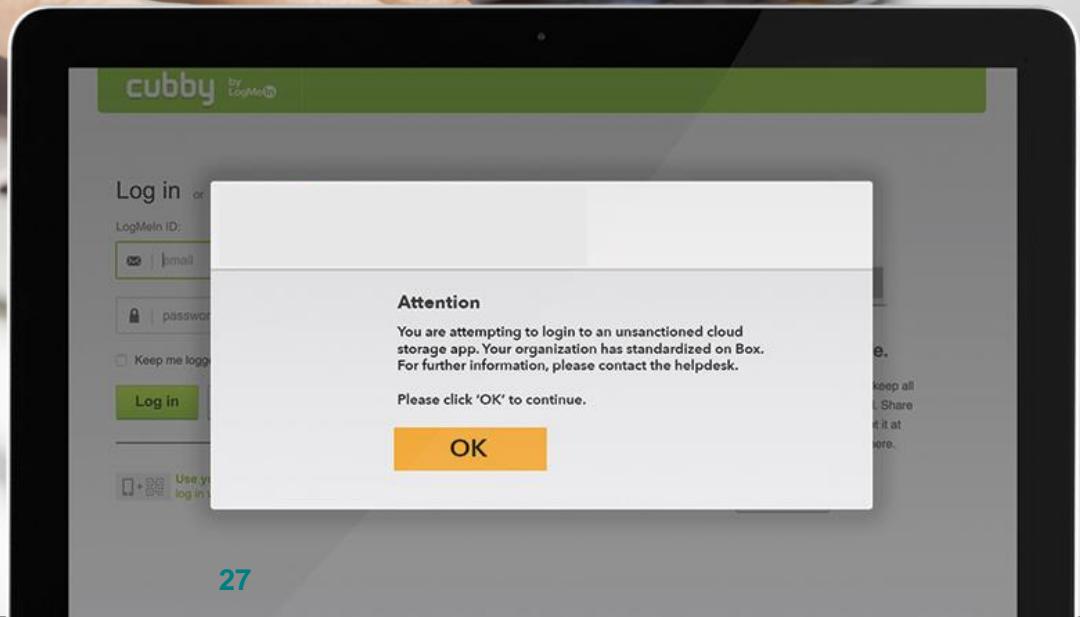






Use Case #2: Protect sensitive content when employees and contractors store it in the cloud

Workflows for DLP



Summary

- ◆ Ecosystems are the life-blood
- ◆ Be mindful of data ownership — is it *your* data at the end of the day?
- ◆ Apps are *designed* to share data — you can't avoid this reality
- ◆ The app *is* the perimeter now — asserting control from the data center is no longer viable
- ◆ Only strong as your weakest link — the ecosystem matters
- ◆ Get activity-level detail + metadata in order to be the master of this new frontier

How to Secure Cloud App Usage

- 1:** Discover the cloud apps running in your enterprise
- 2:** Understand the context of usage at a deeper level
- 3:** Plot your course of action based on risk, usage, criticality
- 4:** Enact a cloud app policy that people can get behind
- 5:** Monitor usage, detect anomalies, conduct forensics and prevent sensitive data loss
- 6:** Don't leave users in the dark. Coach them on safe usage.



Let's stay connected

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