

# The Rise of the2012CASB

#### While Shadow IT Grows . . . Traditional IT Stalls

# • Fast innovation

• Low barriers to access

Ample options

- Disruptive technologies
  - BYOD/BYOA/BYOT
    - Cloud options

#### Traditional IT

- Manageable
- Standardized
- Budget restricted
- Economies of scale
- Procurement delays
- Compliance issues

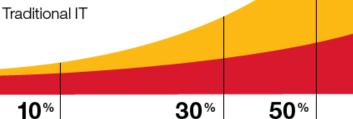
## **Growth Over Time**

creative

Shadow IT

in 2000





in 2010

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in 2016

# **Cloud in numbers...**

- >1000 SaaS apps used at a typical enterprise company
- Up to 40% of IT spend is Shadow IT (Unsanctioned apps)
- **65%** of organisations use Office365
- Less than 50 percent of organizations have deployed even the most basic cloud security tool – SSO. Only 47 percent of organizations sampled had a SSO tool in use.



## So.. What is a CASB(ah)?

#### Cloud access security broker

From Wikipedia, the free encyclopedia

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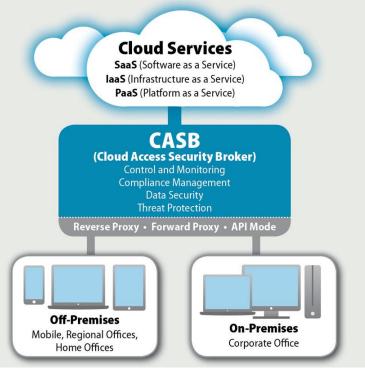
A cloud access security broker (CASB) (sometimes pronounced cas-bee) is on-premises or cloud based software that sits between cloud service users and cloud applications, and monitors all activity and enforces security policies.<sup>[1]</sup> A CASB can offer a variety of services, including but not limited to monitoring user activity, warning administrators about potentially hazardous actions, enforcing security policy compliance, and automatically preventing malware.

# **Cloud Access Security Broker, AH!**

# CASB ? What ?

## What is CASB?

A cloud access security broker (CASB) provides a critical security tool that helps enterprises set policy, monitor behavior, and manage risk across the entire set of enterprise cloud services and providers. CASBs may run on premises in a corporate data center or in the cloud and sit between the end user and the cloud.



### Gartner's Vision on CASB

## visibility

apps, data, users & devices

## compliance

apps, data, users & devices

## data protection

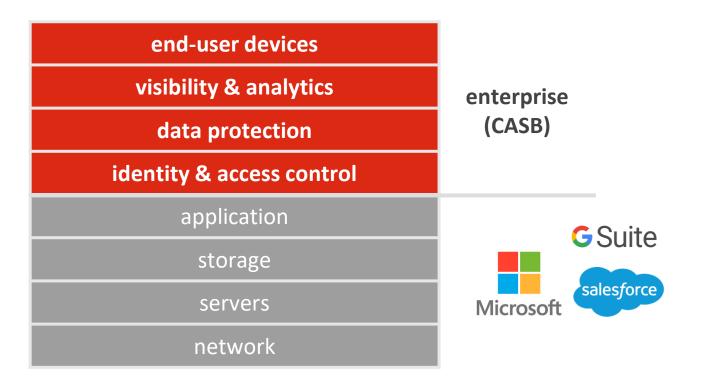
in the cloud, at access, and on devices

## threat protection

malware, APT, hijack

## So why the need for a CASB?

enterprises can't rely solely on native app security



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# **Cloud Service Adoption**

#### • <u>https://www.gartner.com/n</u> ewsroom/id/3591417

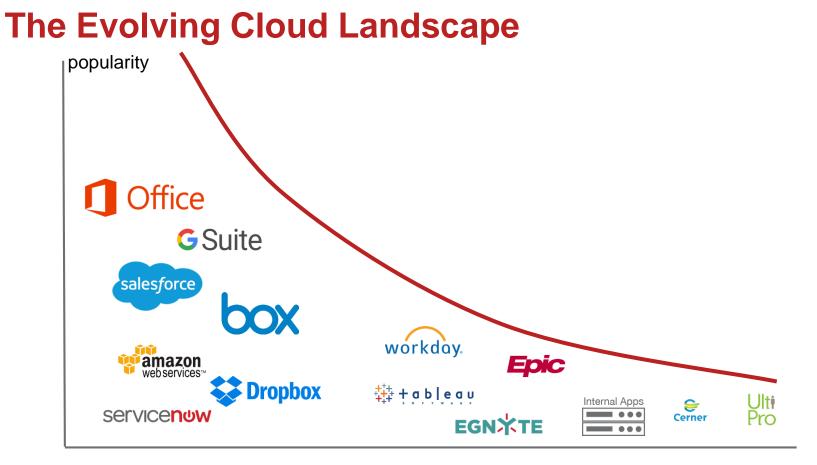
- By 2019, total public cloud services spending rise to \$13.6 billion
- The highest growth (SaaS) with a 28.5 percent increase in 2017

	2016	2017	2018	2019	2020
Cloud Business Process Services (BPaaS)	845	906	950	1,003	1,058
Cloud Application Services (SaaS)	1,756	2,258	2,832	3,503	4,290
Cloud Application Infrastructure Services (PaaS)	333	422	507	603	711
Cloud System Infrastructure Services (laaS)	786	945	1,131	1,312	1,503
Cloud Management and Security Services	323	406	479	562	645
Cloud Advertising	4,485	5,102	5,838	6,661	7,623
Total	8,529	10,038	11,736	13,644	15,831

Source: Gartner (January 2017)

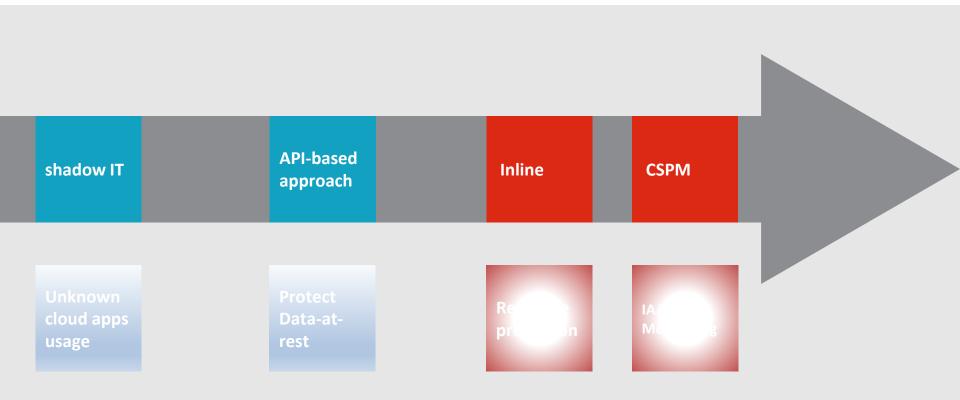
- "... indicators that migration of application and workloads from on premises data centers to the cloud, as well as development of cloud ready and cloud native applications, are fueling growth in the cloud space," said Sid Nag research director at Gartner.
- "Software vendors will continue to shift investments from on-premises license-based software to cloud-based offerings."

Table 1. Mature AP Public Cloud Services Forecast (Millions of U.S. Dollars)



#### In-build security

## CASB - 2012 -> 2018



# **Shadow IT**



## IT departments have lack of visibility

- thousands of enterprise cloud apps today (and growing)
- 95% of apps are not sanctioned by IT
  - $\circ$  many of which are unknown to IT
- most apps are not enterprise ready

app type	examples	threat risk	data leakage risk
IT sanctioned	salesforce now		
shadow IT	🔾 🚺 🕱		
personal apps	۳۰۰۰۰ 🔞 📑		

#### CASB connects to a cloud service

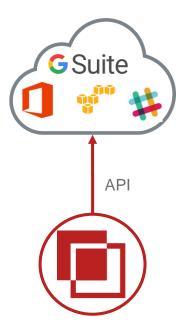
#### Perpetual Incremental Crawling Based on Changes Every 5 Min

#### **Gotcha's and Pitfalls**

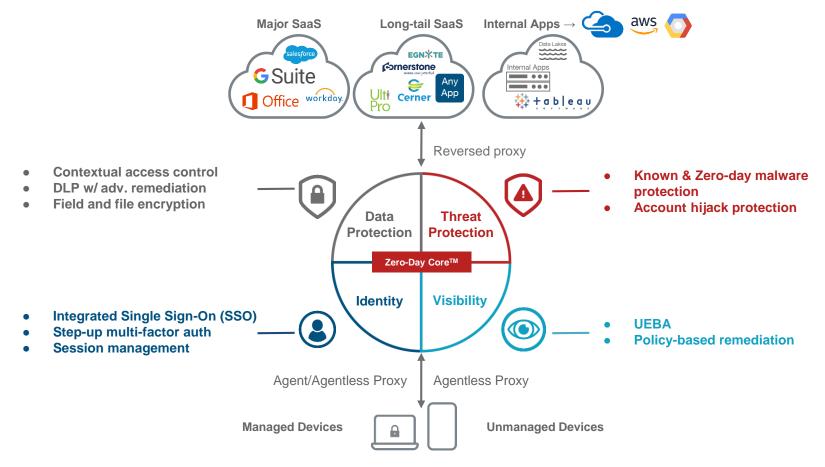
• No real time security

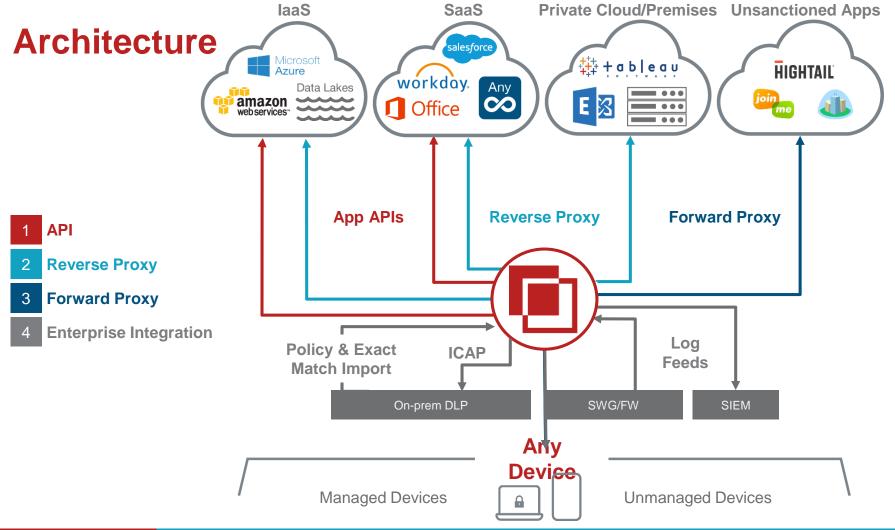
**API** monitoring

• Limited set of applications

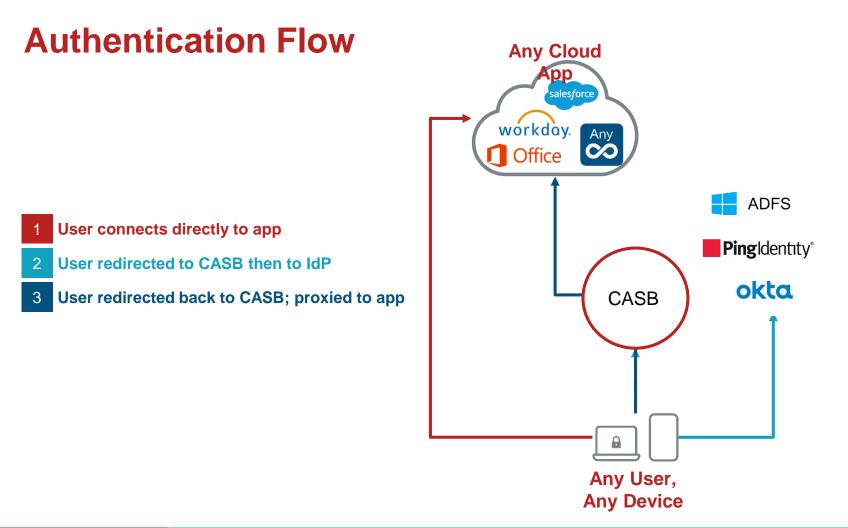


# **Inline security**





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# **Continuous IaaS Configuration Monitoring (CSPM)**

- Scanning configuration based on industry benchmarks (HIPAA, CIS Benchmark, SOC 2, etc)
- Scored report to determine compliance violations per service / instance / bucket
- Provide remediation documentation and advice
- Ability to create fully customized templates and rules for flexible reporting and alerting

SUMMARY INVESTIGATE			
Q Search		•	
RULE	SERVICE	# RESOURCES FAILED	COMPLIANCE
Avoid the use of the root account	IAM		8
Ensure IAM password policy prevents password reuse	IAM		8
Ensure IAM password policy expires passwords within days or less	90 IAM		0
Ensure no root account access key exists	IAM		



https://www.esecurityplanet.com/mobile-security/casb.html