From Ground to Cloud

Mission Impossible?

James Burchell Sales Engineer

June, 2020



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SOPHOS

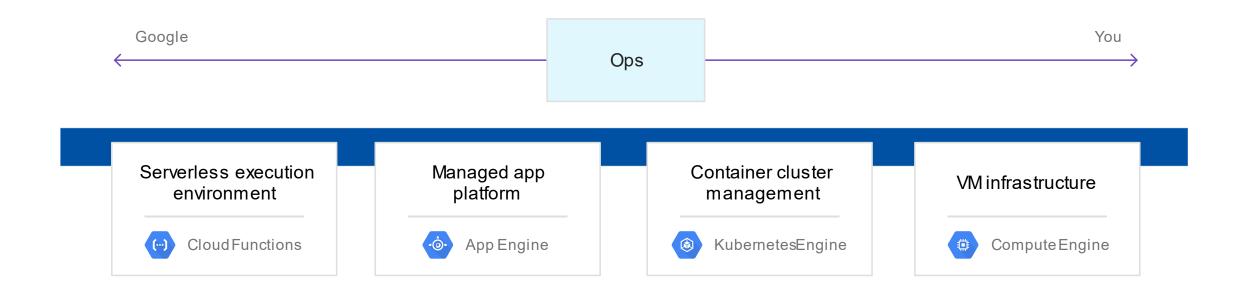
Public cloud is perfectly secure

Public cloud is insecure



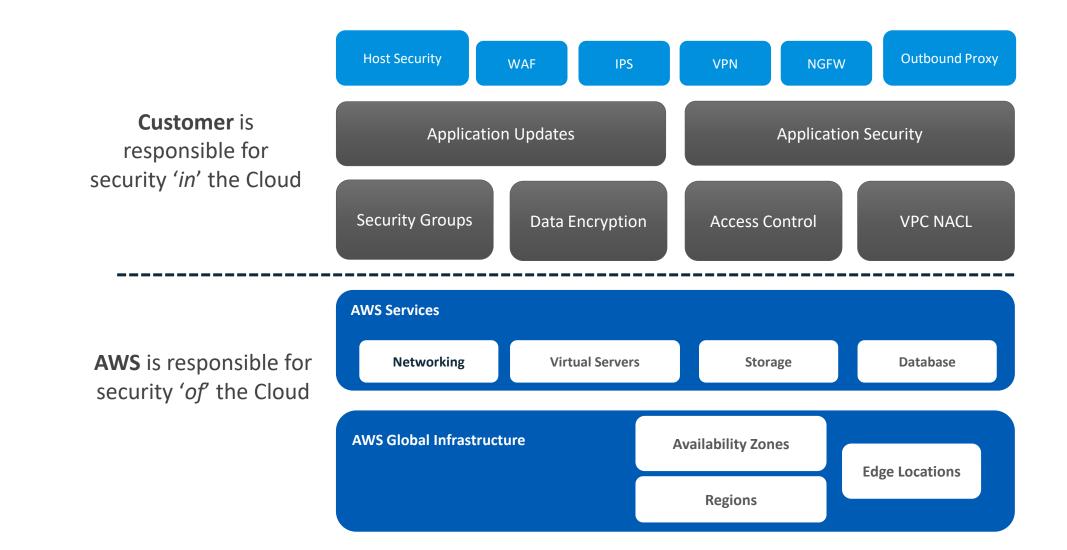
Shared responsibility



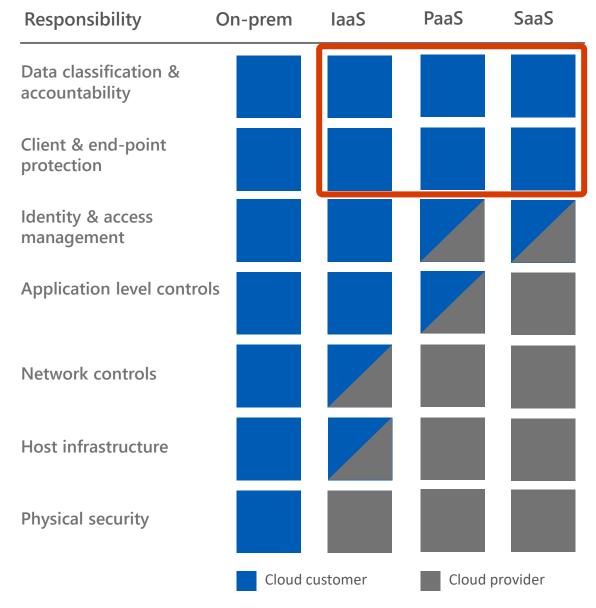


Source: https://cloud.google.com/docs/overview/cloud-platform-services



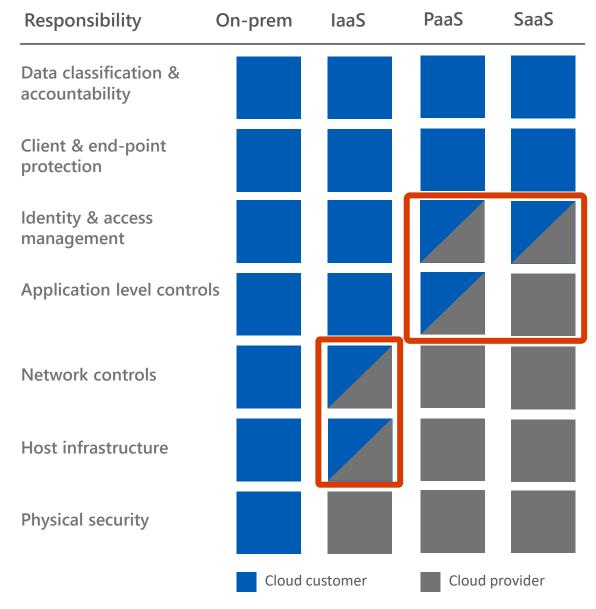


SOPHOS



Source: Microsoft TechNet – Shared Responsibilities for Cloud Computing





Source: Microsoft TechNet – Shared Responsibilities for Cloud Computing



Security posture

Source: Photo by Ylanite Koppens from Pexels



"Howgae (nest) seachery dail ale us" environment - Yoda



WEST

(Shared)

The Daily Owned Company X loses data in cloud By JAMES MCHACKERSON

company came forward today to disclose a data loss incident where hackers gained access to a storage re-

what data the hackers got away with, but recommend people change their usernames, passwords, email addresses, legal names and dates of head of the UN Moose Preservagest that further actions such as

issued a statement expressing their deepest regret this issue occurred, and promised to work diligently to never make headlines again while also practicing their best shocked Pikachu



Underway By BOB O'BOBSTON

04 APR 2020

To nobody's surprise, another start today with hopes for an increase The UN-sponsored International Moose Census got off to a flying source and made off with 1 umptillion reporters were Egypt, returning fig in the worldwide moose population moose will be met largely figures. Among the traditional early ures of six moose, a twenty percent increase on 2011's figures of five, and Uruguay whose moose population re-

changing your physical location and on last year due to the traditional tion Council, worldwide moose nummoose strongholds of Canada and the United States, with the larger developing moose ecologies also poised to make gains. The largest percentagege increase in moose will likely velopment of the eastern european come from China", says McRobson, populations compared to last year heavily in moose infrastructure over to europe's strong growth figures. the past decade, and their committ- Norway, which is not an EU member ment to macrofauna is beginning to but has observer status, strengthed expanded moose pasture from 1.5% with much of arable land to nearly 3 64807 and the

Feng Lau, explained to lous Singaporean parlia day that bad weather had to this season's poor sho notably when a cargo of were swept out into the Ind

US and Canada. The reces States is taking comfort in its growth figures with gross proc expected to break 700,000 and ports to grow by 2%. The work According to Robbie McRobson, moose population expected to m last year's record figures of one h dred million billion.

Europe's rise as an internation moose power will slow slightly th year as a response to the Europea Union's move towards standardising when they contributed significantly

(Shared) storage data loss

ATTACK TIMELINE >





Human error such as misconfigured cloud servers, unsecured cloud databases, and improperly secured rsync backups were responsible for 43% of publicly disclosed misconfiguration incidents, resulting in a more than 20% increase since last year.

Source: IBM X-Force Threat Intelligence Index Report - 2019, February 26, 2019

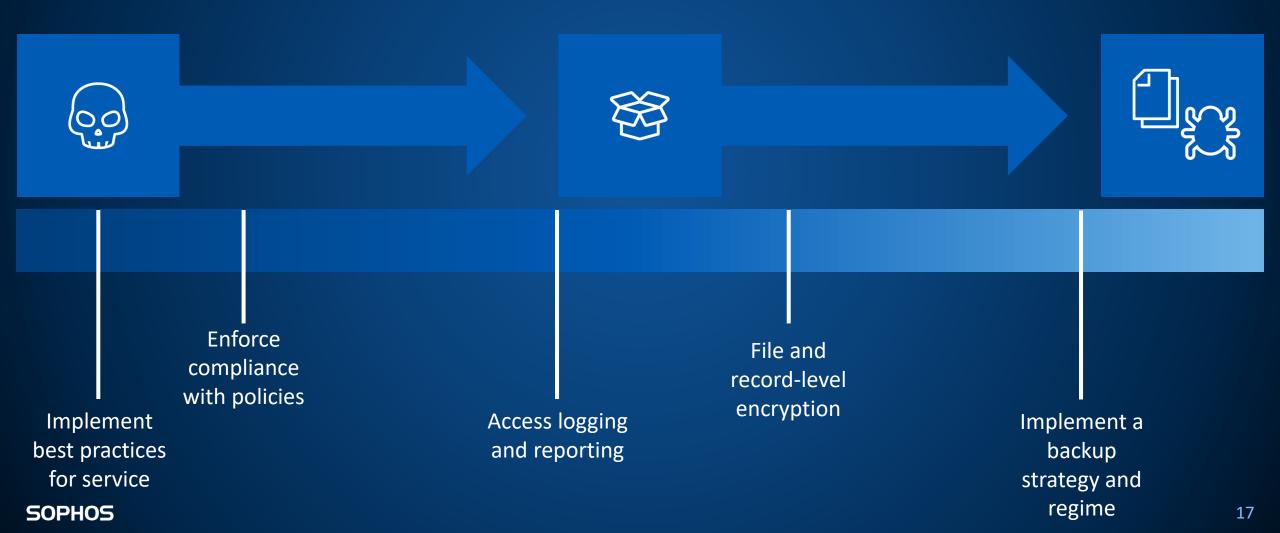
(Shared) storage data loss

ATTACK TIMELINE >









Case 2 Cloud cryptojacking



Cloud cryptojacking

ATTACK TIMELINE

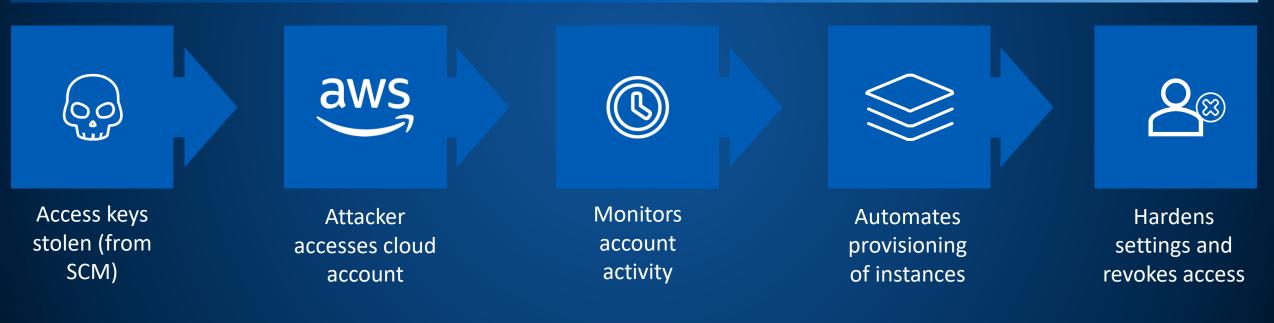


Access keys stolen (from SCM)



Cloud cryptojacking

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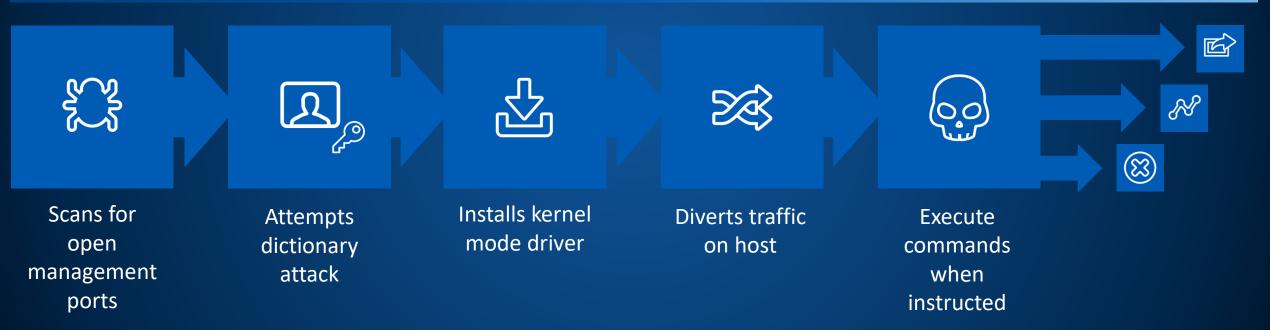


Case 3 Cloud-specific malware



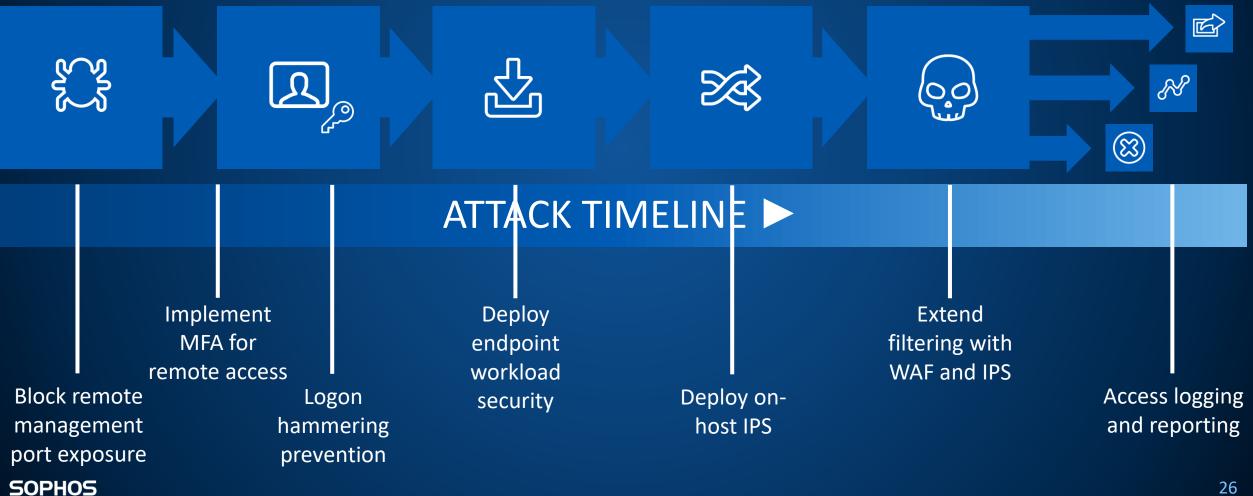
Cloud-specific malware

ATTACK TIMELINE >











Five-point public cloud action plan

- 1. Define your cloud security posture
- 2. Enforce and test compliance with your posture
- **3.** Deploy a Cloud Security Posture Management solution
- 4. Extend platform security tools where needed
- 5. Continuous monitoring and alerting







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