

Cloud Security Survey

Credit: SANS Cloud Security Survey 2018

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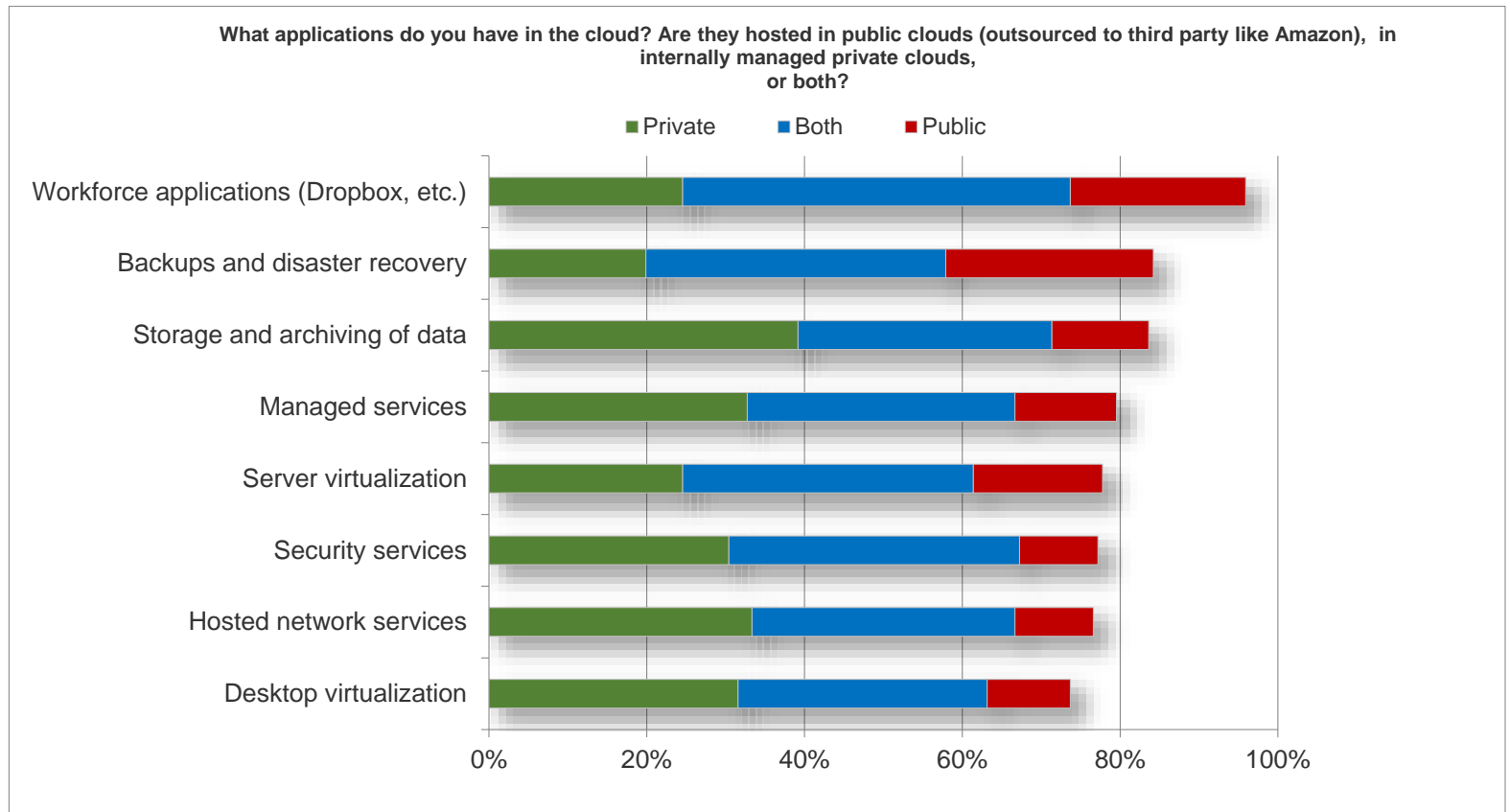
Introduction

- Key takeaways from this year:
 - More and more PII in the cloud...40% this year
 - More security controls are in use, including MFA, antimalware, and scanning tools
 - 55% are still feeling hindered from gathering evidence and performing IR in the cloud

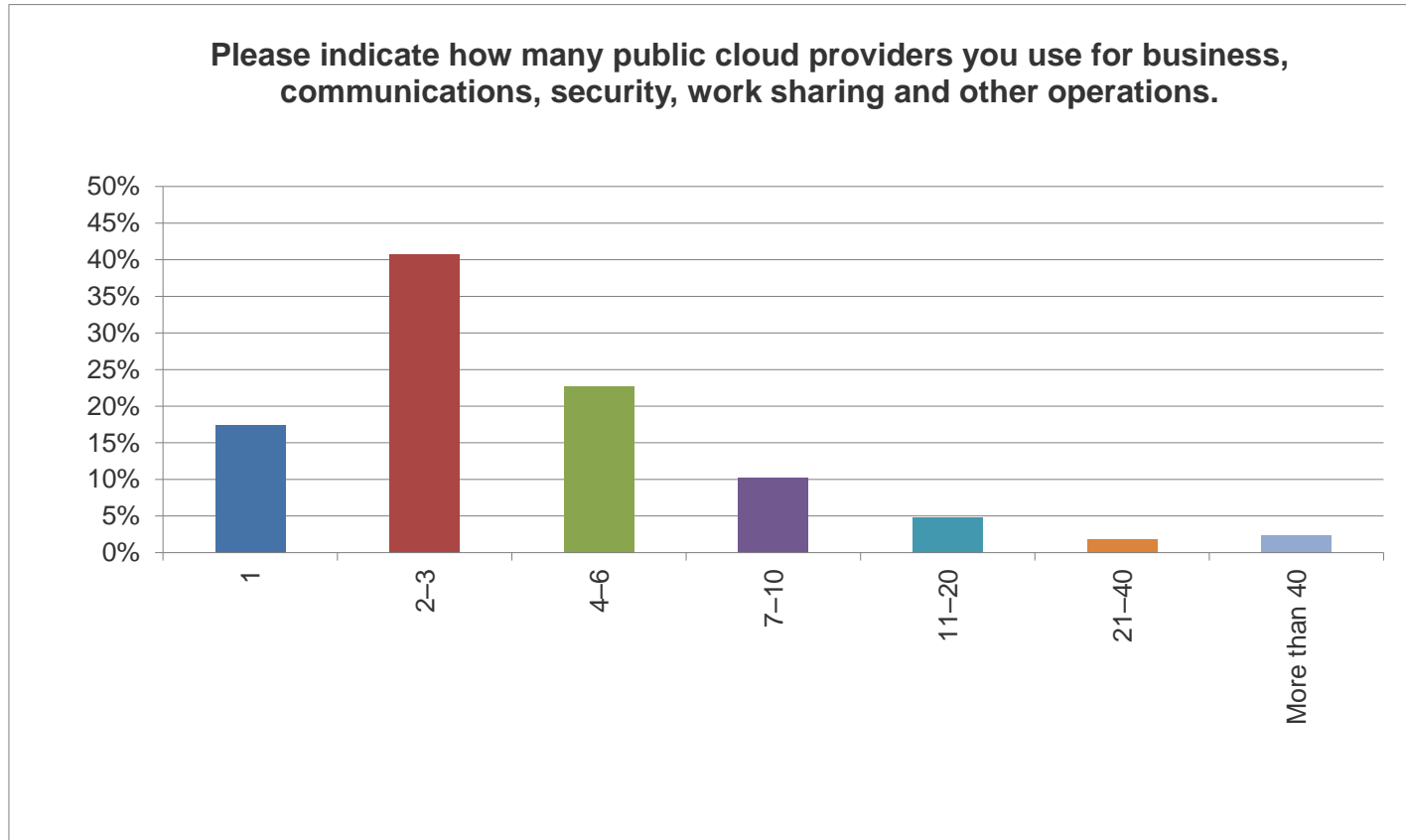
Use of Cloud is Increasing

Type of Application	Increase by 100%	Increase by 70% to 90%	Increase by 40% to 60%	Increase by up to 30%	No Change	Decrease
Mission-Critical Apps	6.33%	1.89%	15.20%	26.59%	32.28%	1.26%
Applications Overall	7.4%	4.32%	24.69%	44.46%	17.27%	1.86%

Workforce Apps Lead the Way



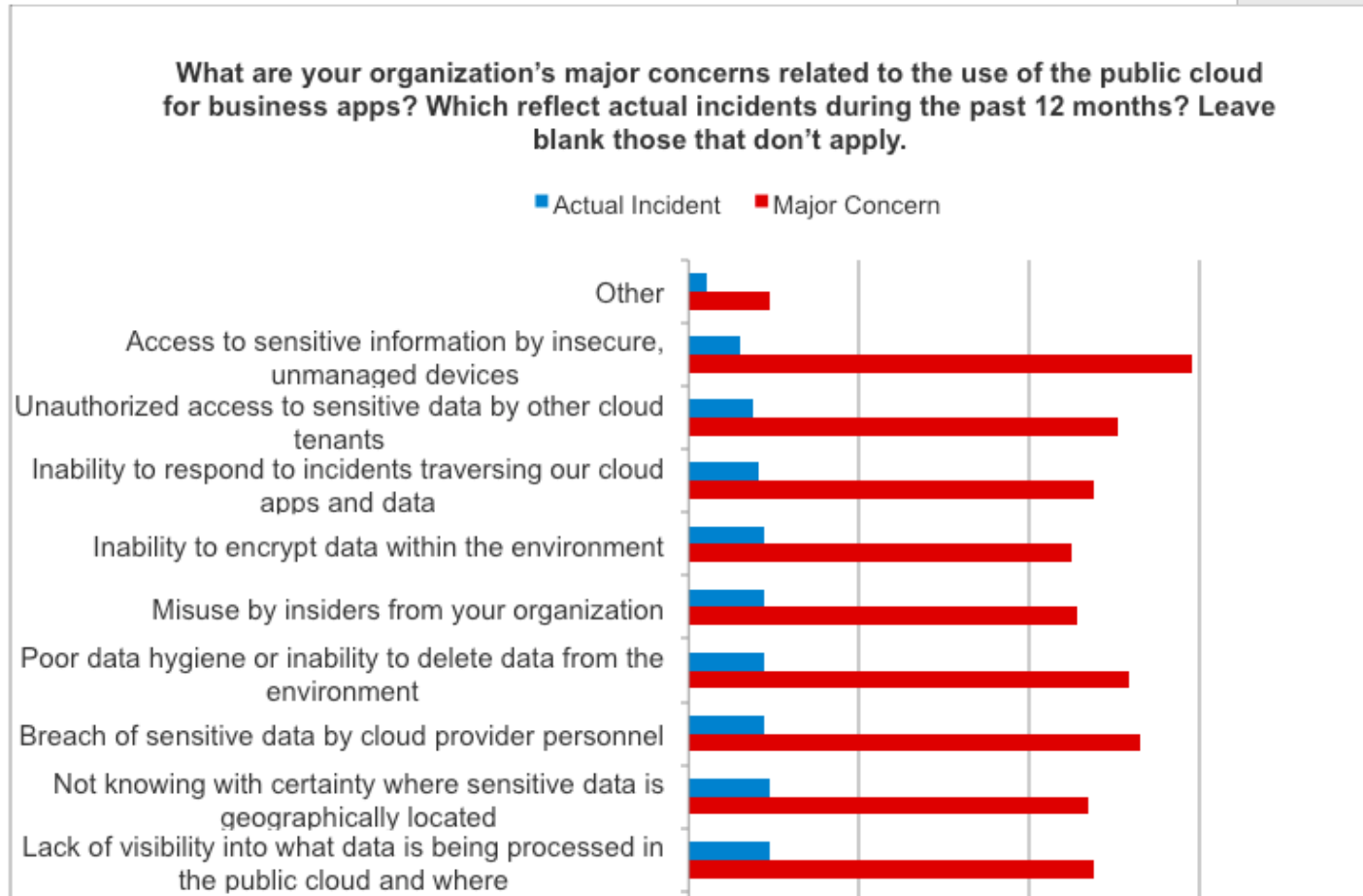
More Public Cloud Providers



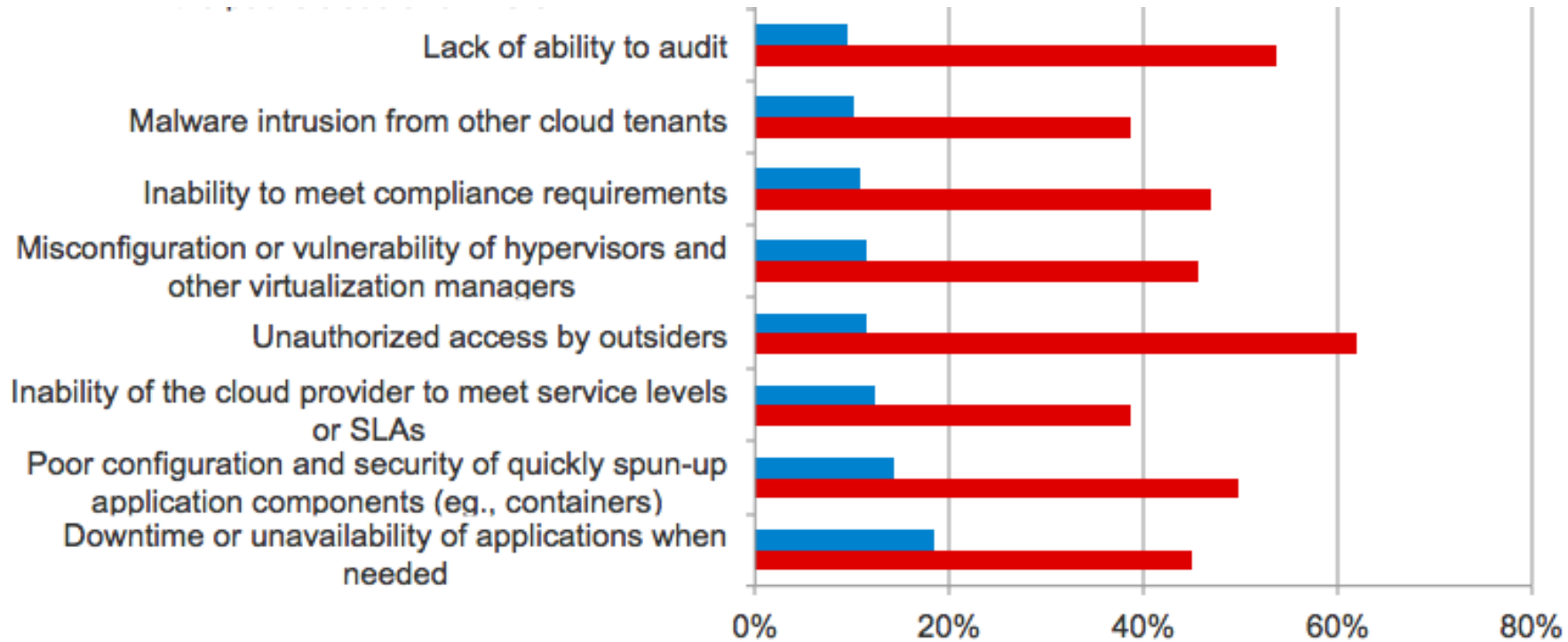
Sensitive Data in the Cloud!

Type of Data	2016	2018
Employee Records	48.2%	47.5%
Business Intelligence	40.9%	42.6%
Business Records (Finance and Accounting)	37.8%	38.3%
Customer Personal Information	35.4%	40.4%
Intellectual Property	35.4%	34.0%
Customer Financial Information	24.4%	22.0%
Health Records	18.9%	21.3%
Customer Payment Card Information	18.3%	19.2%
National Security or Law Enforcement Data	11.6%	6.4%
Student Records	11.0%	10.6%

Top Cloud Threats/Concerns: 1



Top Cloud Threats/Concerns: 2

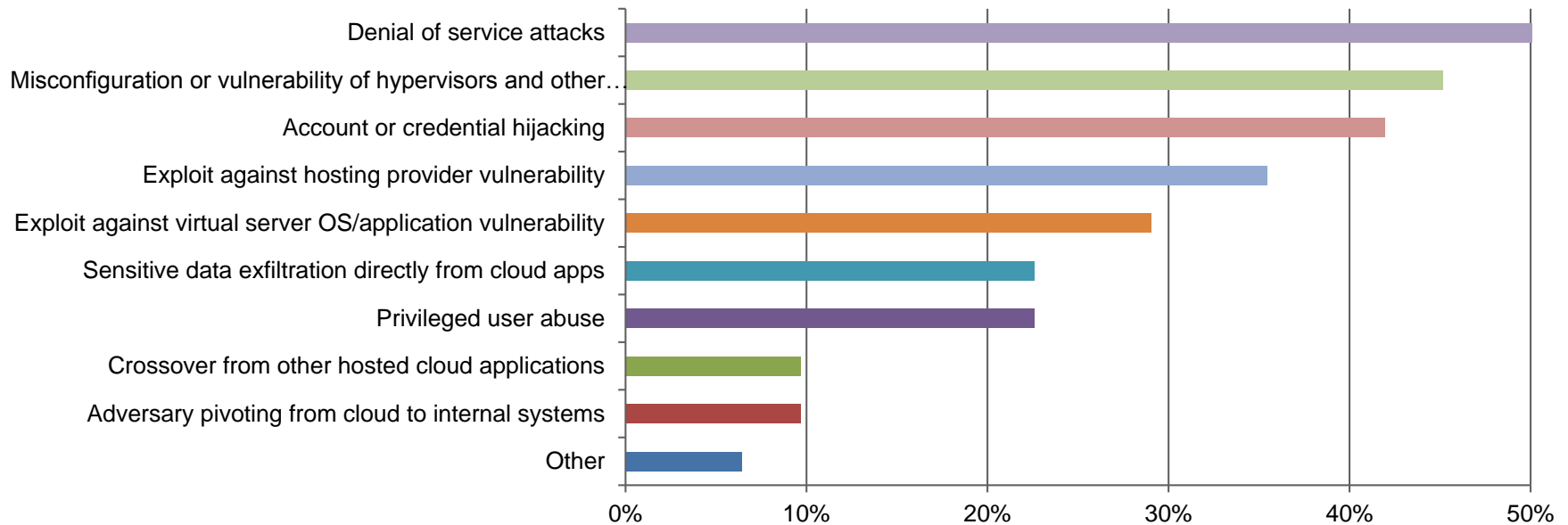


Any real breaches? Do we know?

- Last year, just over 10% of organizations claimed they had a breach involving cloud applications and data, which was a slight increase over 2015 (9%).
- The bad news is that this number went up significantly in 2017—in fact, it almost doubled (20%).
- This is likely due to more attackers focusing on the cloud, particularly on poorly configured cloud applications and management interfaces.
- In 2016 22% didn't know whether they had been breached, and 21% were unsure in 2017.

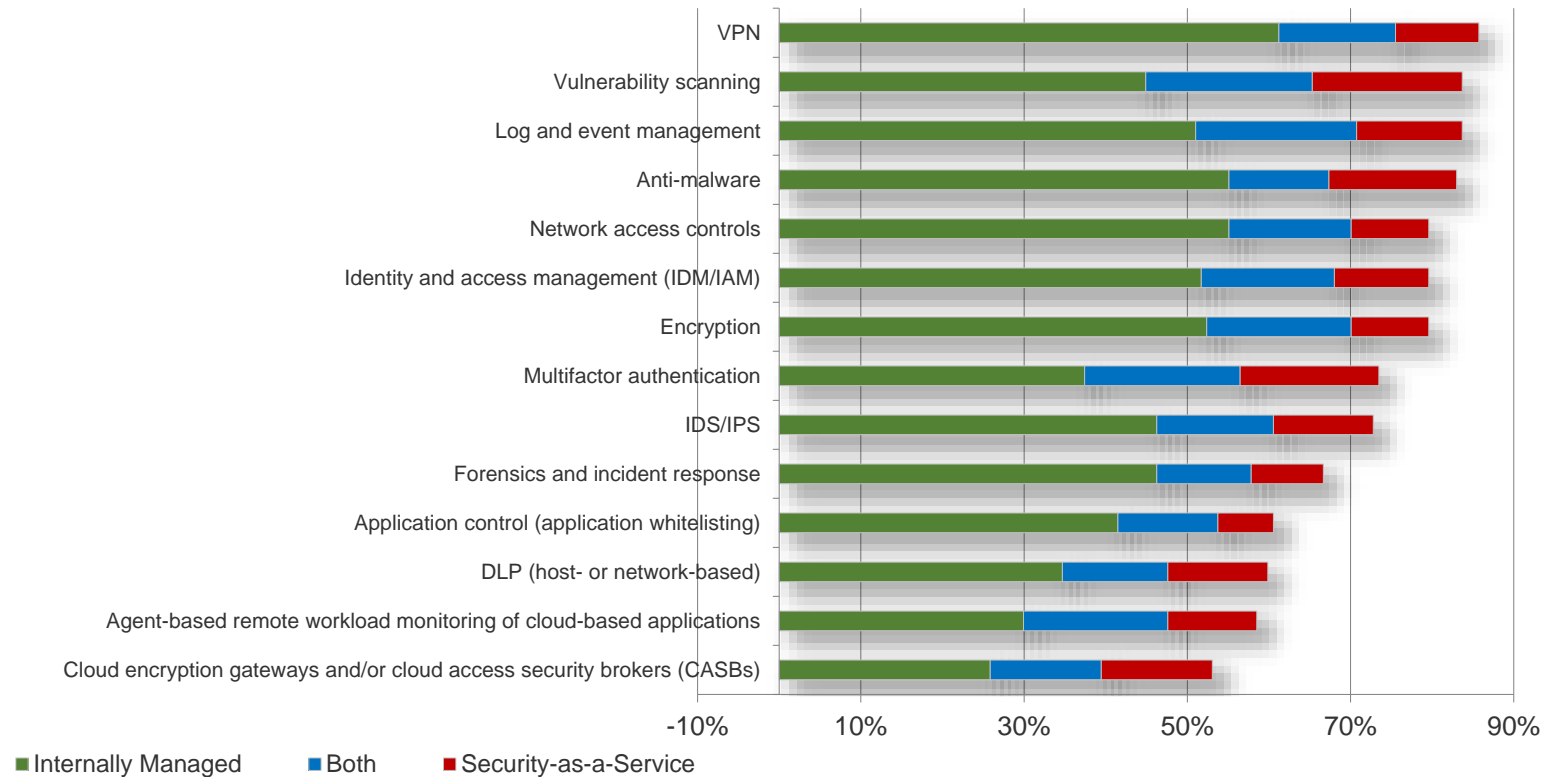
What's involved in cloud attacks?

What was involved in the attack(s)? Select all that apply.

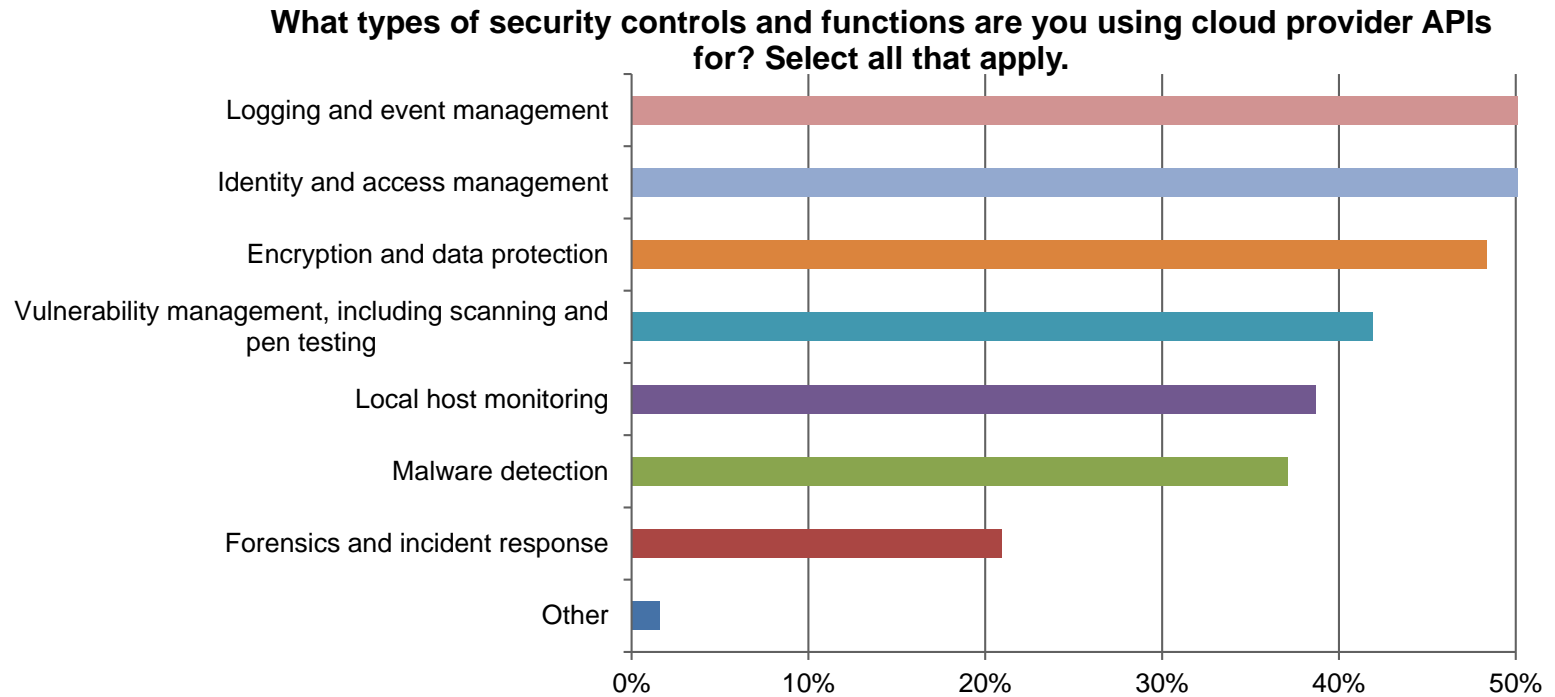


Growth in SecaaS

Which of the following technologies have you successfully implemented to protect sensitive data and control access in to your public cloud environment(s), whether internally managed or in the form of security-as-a-service?

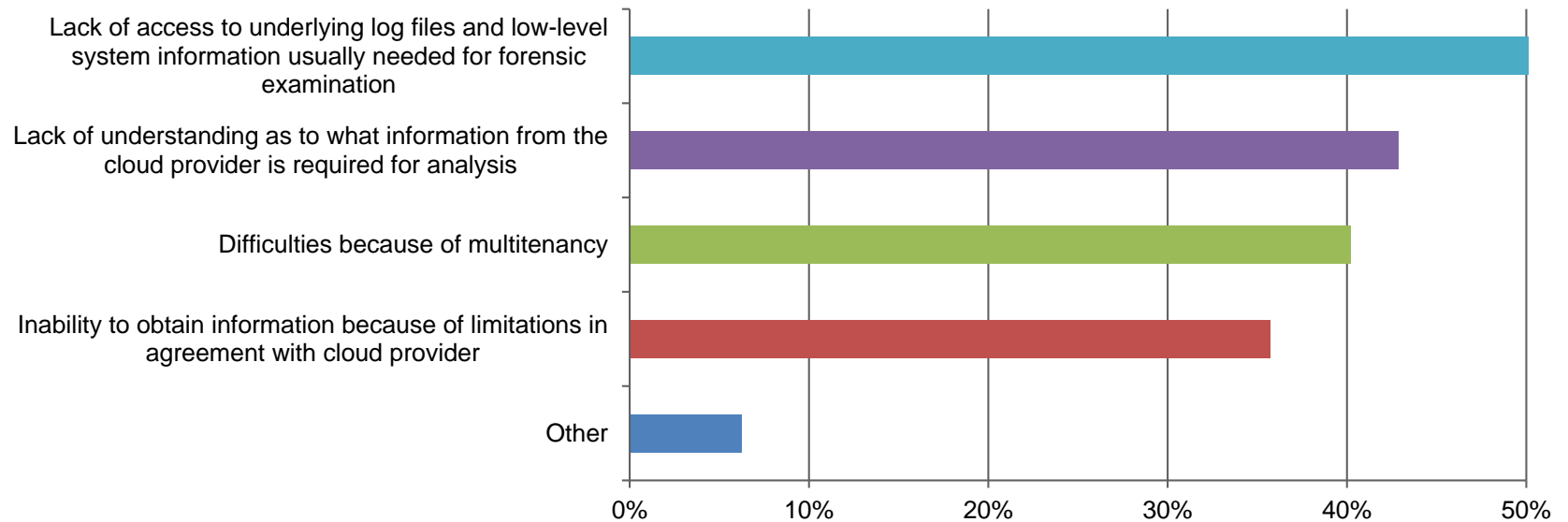


Cloud-Native Security Tools: API Integration



IR & Forensics Challenges

**What challenges have you faced in adapting your incident response and forensic analysis to the cloud?
Select all that apply.**



So what IS working?

Which of the following security technologies have you been able to integrate between the private and public cloud? Check only those that apply.

