SANS Cloud Security Survey

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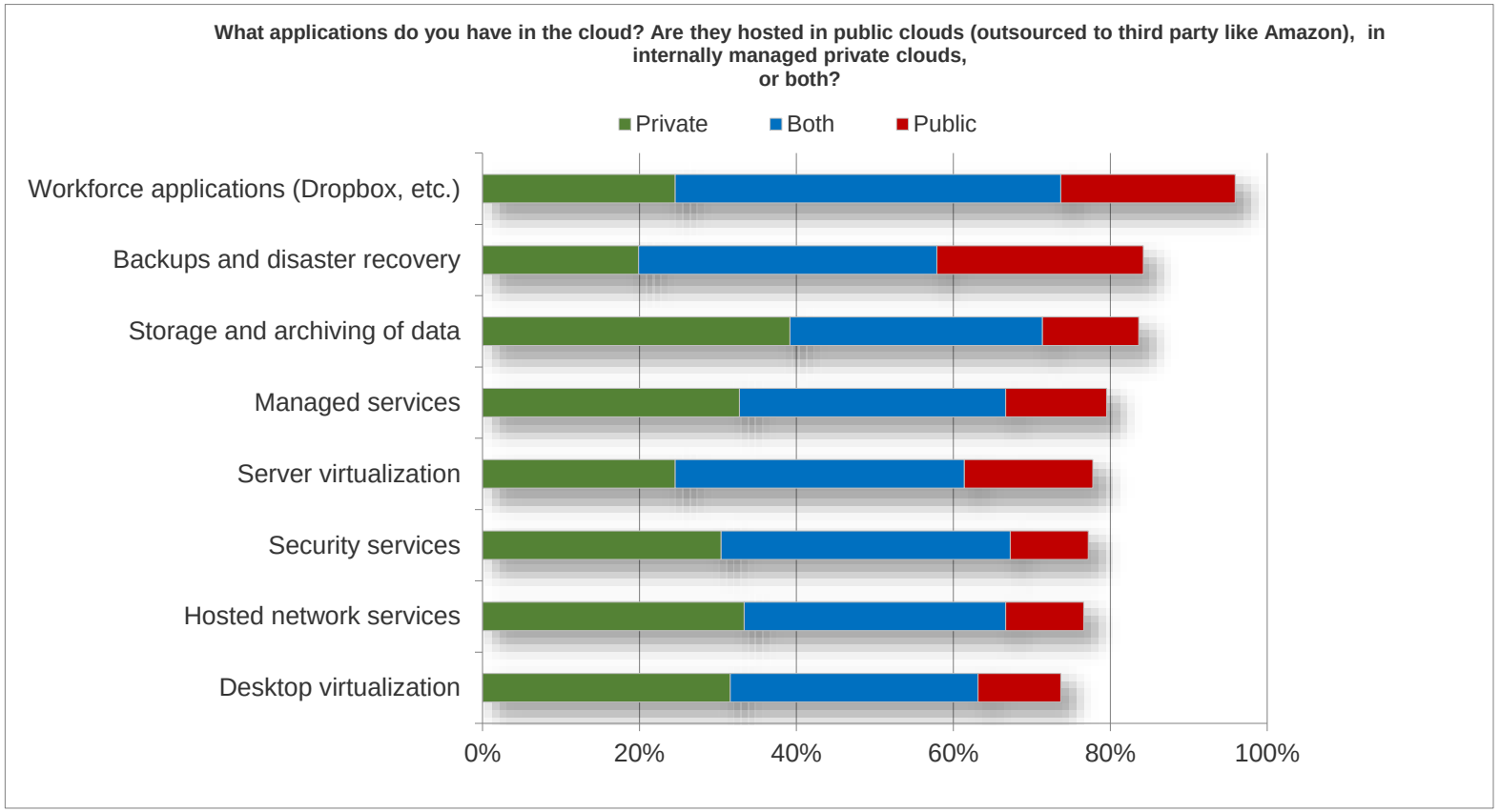
Introduction

- In the SANS 2017 Cloud Security survey, we found…more of the same from 2016!
  - Well, some of it, anyway
- 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

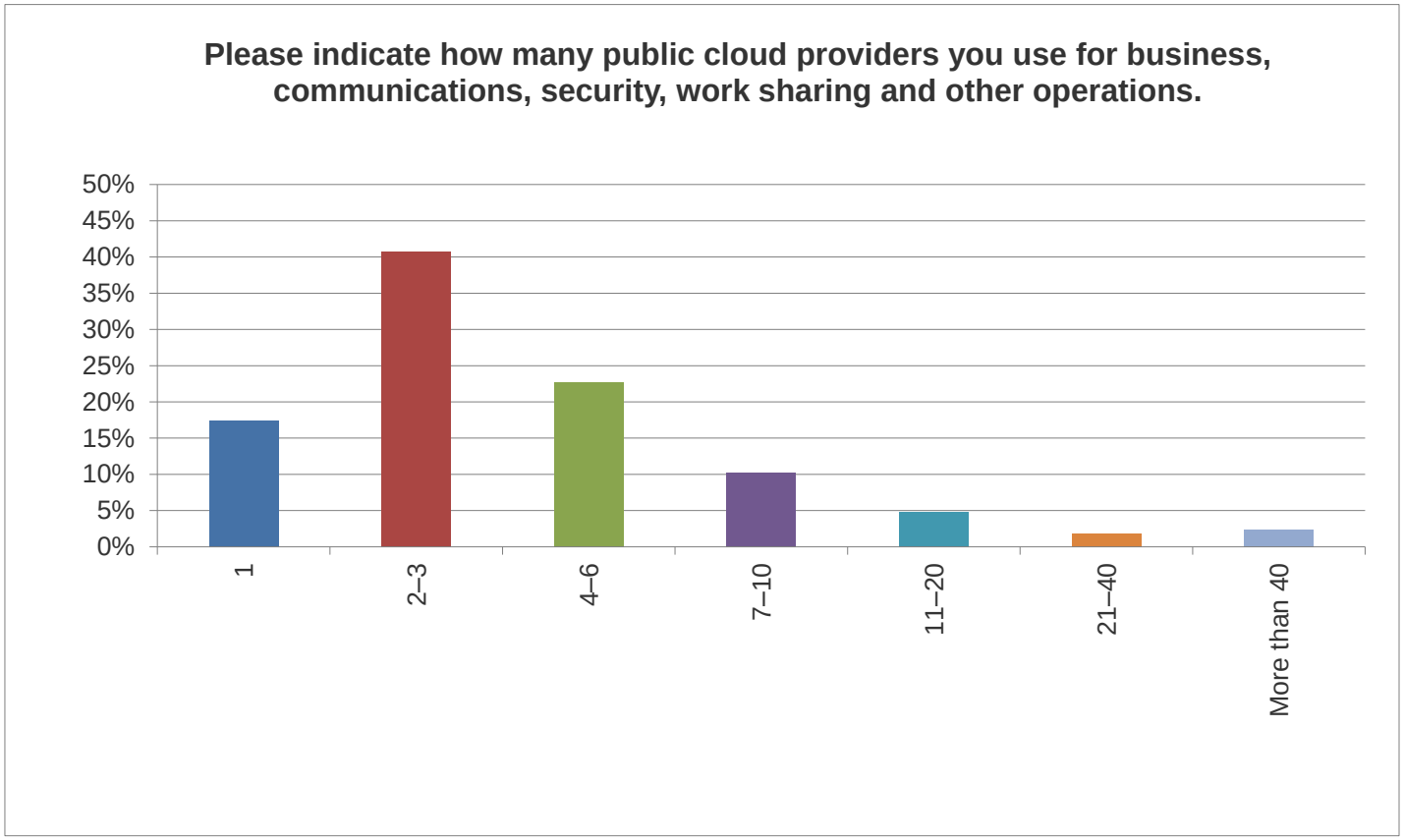
Use of Cloud is Increasing

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



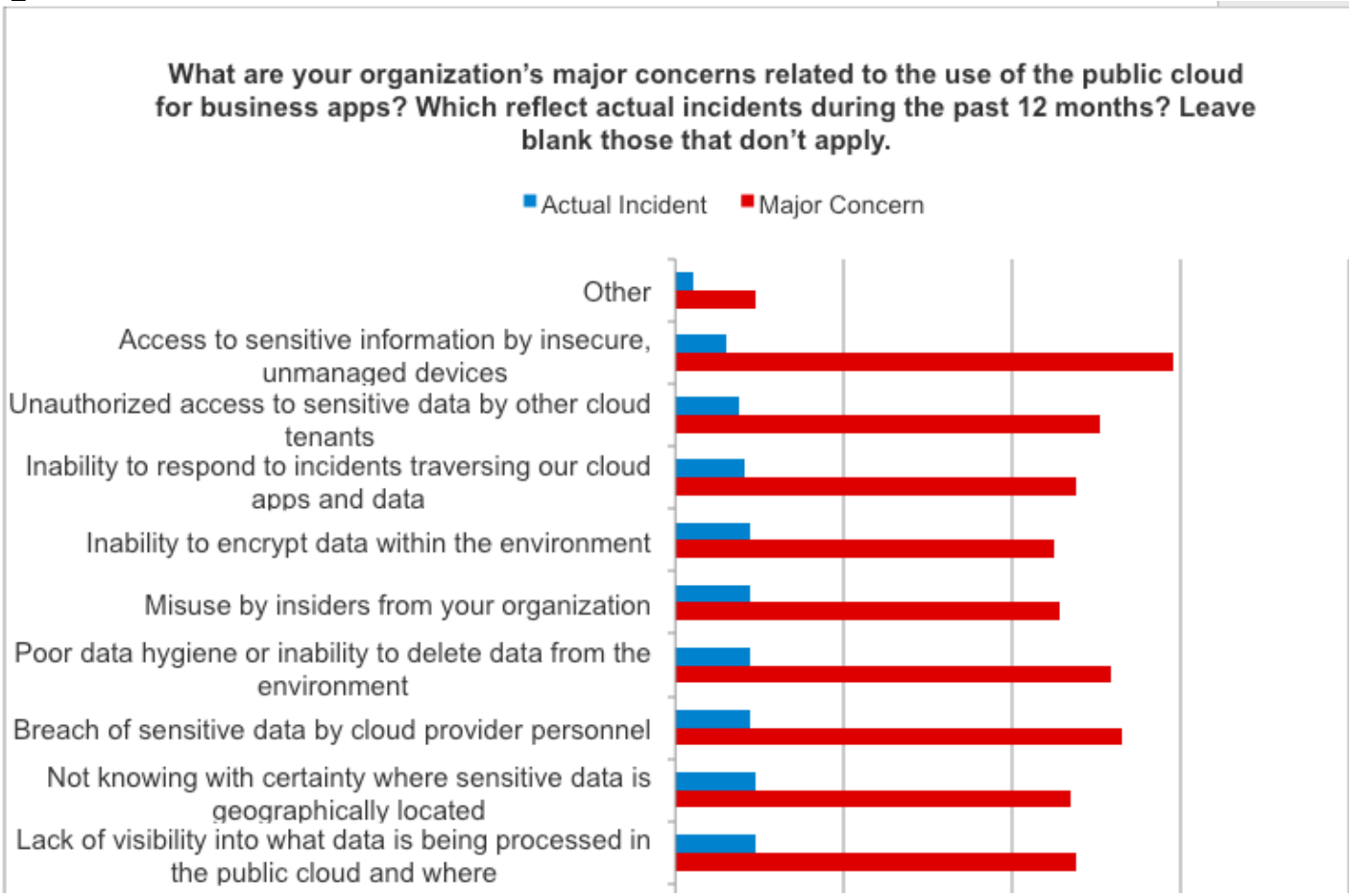
More Public Cloud Providers



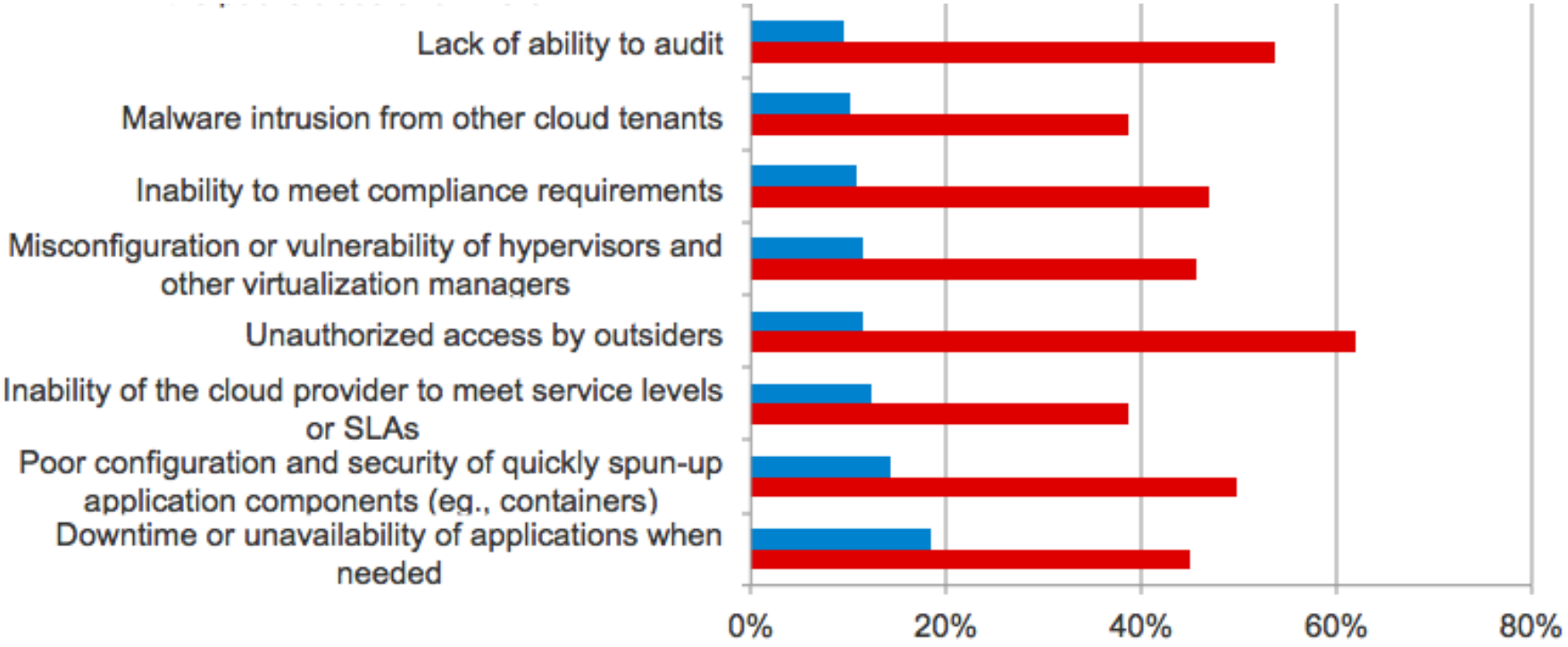
Sensitive Data in the Cloud!

Type of Data	2016	2017
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



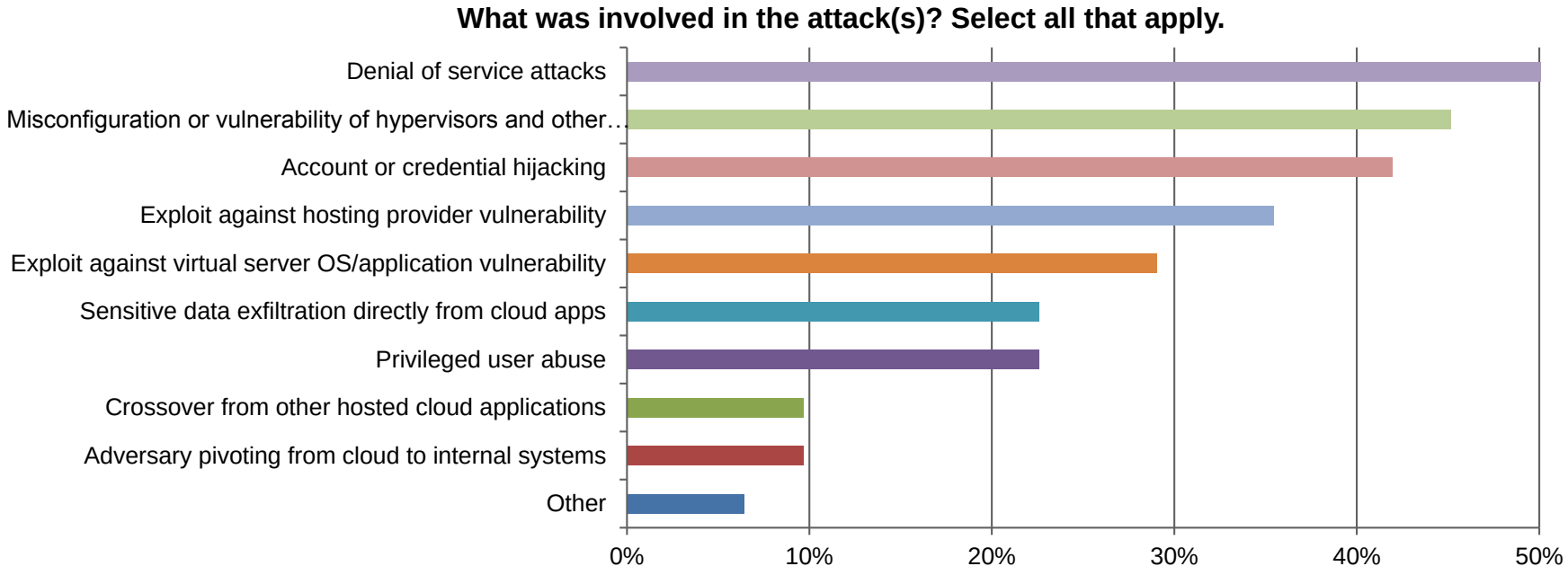
Top Cloud Threats/Concerns: 2



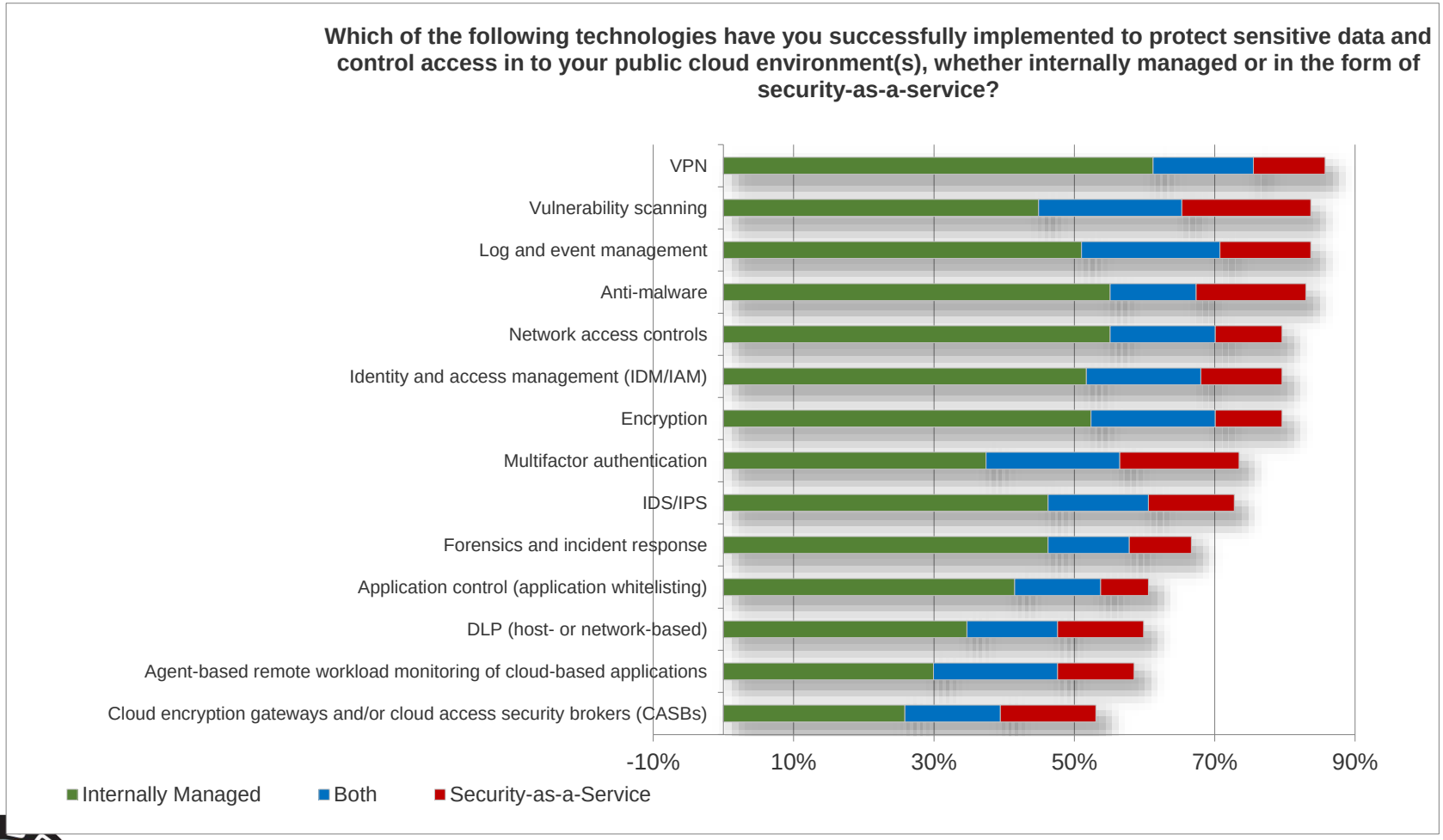
Any real breaches? Do we know?

- 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.

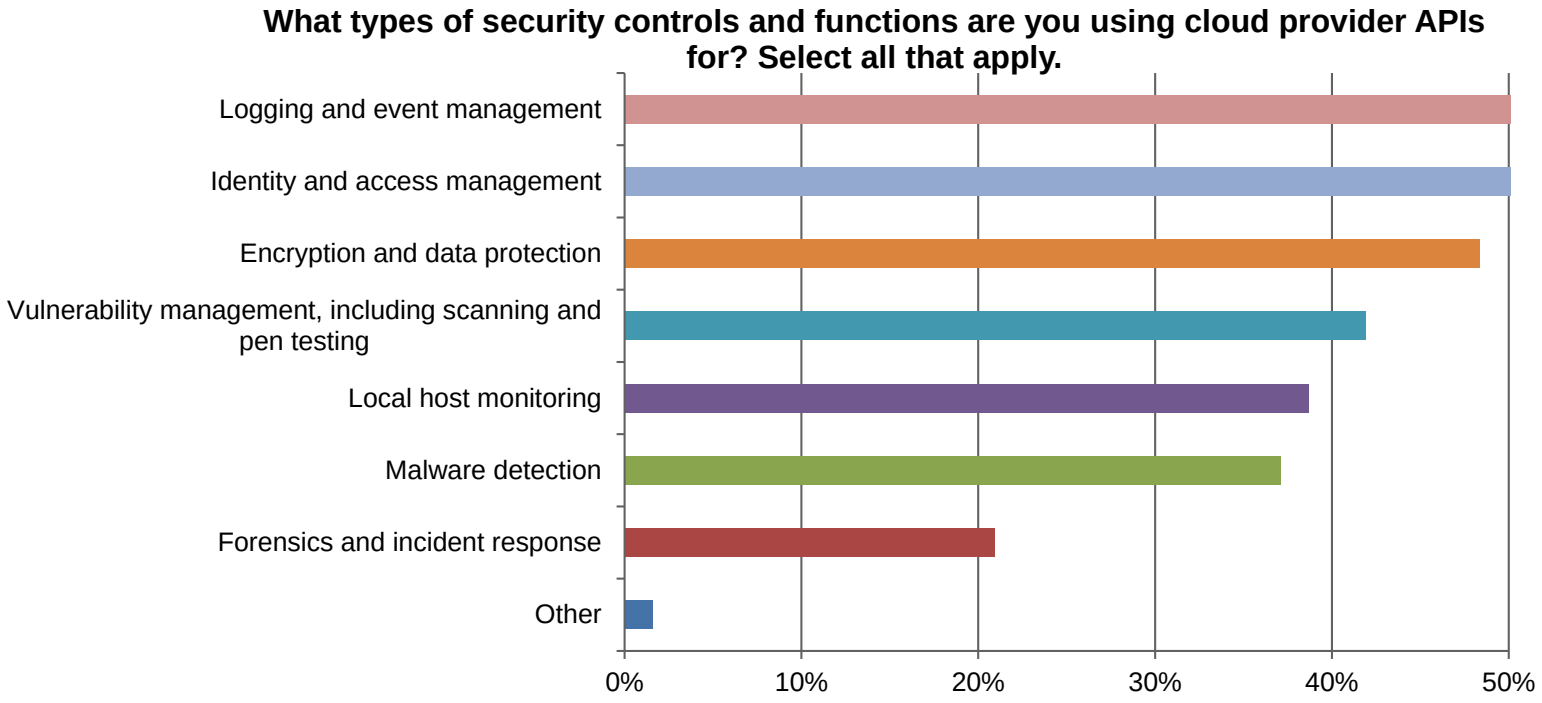
What's involved in cloud attacks?



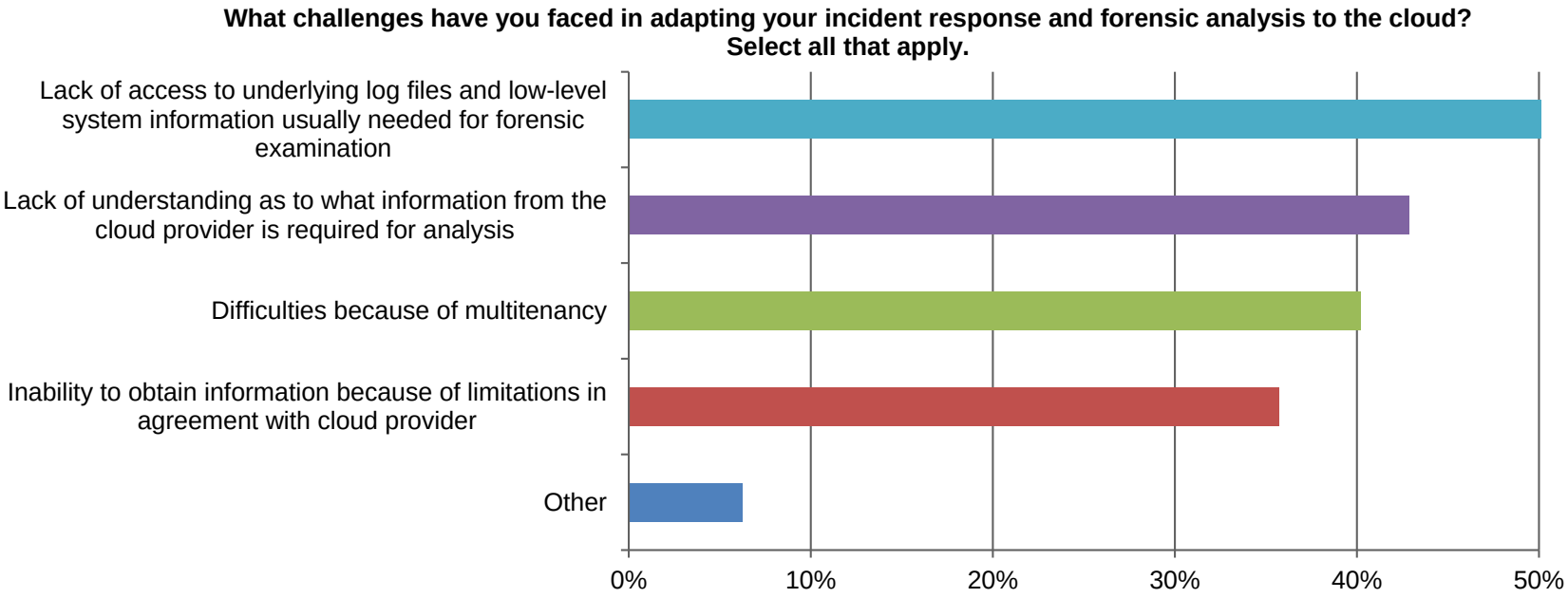
Growth in SecaaS



Cloud-Native Security Tools: API Integration



IR & Forensics Challenges



So what IS working?