

CLOUD SECURITY

SPOTLIGHT REPORT



Linked in Group Partner

Information
Security

Presented by

 bitglass

OVERVIEW

Public cloud apps like Office 365 and Salesforce have become a dominant, driving force for change in IT departments globally. With cloud adoption comes a proliferation of data outside of corporate firewalls, leaving many to wonder how long security will remain the cloud's Achilles heel.

This report is the result of comprehensive research in cooperation with over 1,010 IT security professionals, and cuts through the hype, uncovering the hard facts on cloud adoption and security.

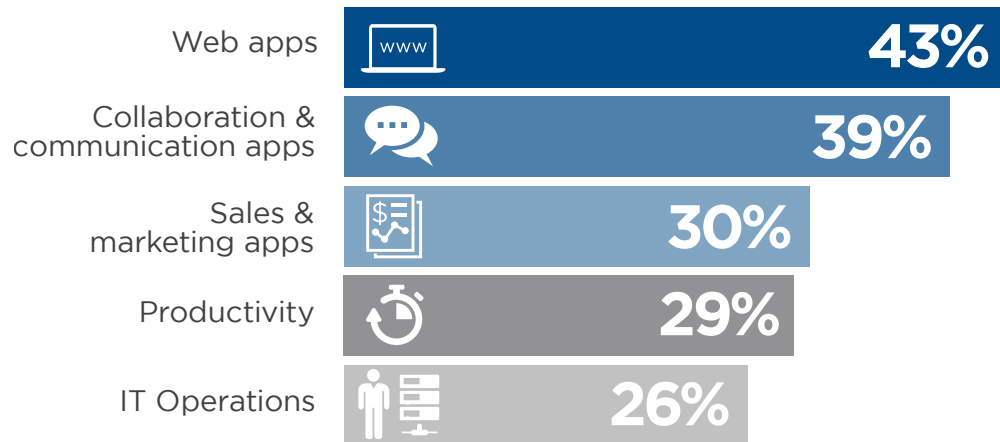
KEY FINDINGS

- 1 Cloud is (Partially) Living up to the Hype**
There has been much hype around the benefits of moving to the cloud. We dug in to uncover the real truth - cloud is delivering on its promise of availability, flexibility, and much talked about cost reductions, but **falling short in security and compliance**.
- 2 Microsoft Surges Ahead of Google in the Enterprise**
In the battle of email titans, there has been a massive shift from Bitglass' 2014 Cloud Adoption Report, with **Microsoft Office 365 dominating future enterprise deployment plans** (29%) versus Google Apps (13%).
- 3 Malware and Hacking Don't Top the List of Security Concerns**
Despite the major breaches of 2014, the **dominant security concerns involve misuse of employee credentials and improper access control** - unauthorized access (63%), hijacking of accounts (61%), and malicious insiders (43%). Malware, DOS/DDOS, and other direct attacks against the cloud provider fall far lower on the list.
- 4 Cloud Access Security Brokers Coming Into the Spotlight**
The number one method to close the cloud security gap is the ability to set and enforce consistent cloud security policies, using technologies such as **Cloud Security Access Brokers**. Encryption of data offers the best protection for data in the cloud.
- 5 Massive Investments Have Done Little to Temper Security Concerns**
Despite SaaS providers' massive investments in security, more than 1/3 believe that major cloud apps like Salesforce and Office 365 are **less secure than premises-based applications**.

The background features a dark blue color scheme with a repeating pattern of hexagrams containing alphanumeric characters. Overlaid on this are several semi-transparent icons: a folder, an envelope, a Wi-Fi signal, two speech bubbles, a cloud with a checkmark, and a laptop with a pie chart.

CLOUD ADOPTION TRENDS

MOST POPULAR CLOUD APPS



Web applications (43%), collaboration & communication apps (39%), and sales & marketing apps (30%) are the most common apps deployed in cloud environments.

Application development / testing 24% | Disaster recovery / storage / archiving 23% | HR 22% | Business intelligence / analytics 20% | Content management 18% | Custom business applications 18% | Finance & accounting 18% | Supply chain management 9% | Not Sure / Other 19% |

Q: What types of business applications is your organization deploying in the cloud?

MOST POPULAR CLOUD APPS

Salesforce is leading the way in existing deployments (22%), but Office 365 is making significant headway - currently at 16% deployment among our respondents but it is the cloud service of most future interest (29%). On the File Sharing & Sync side, Dropbox (13%) has a commanding lead over Box (6%) in current deployments but Box is catching up in future interest.

CURRENTLY DEPLOYED

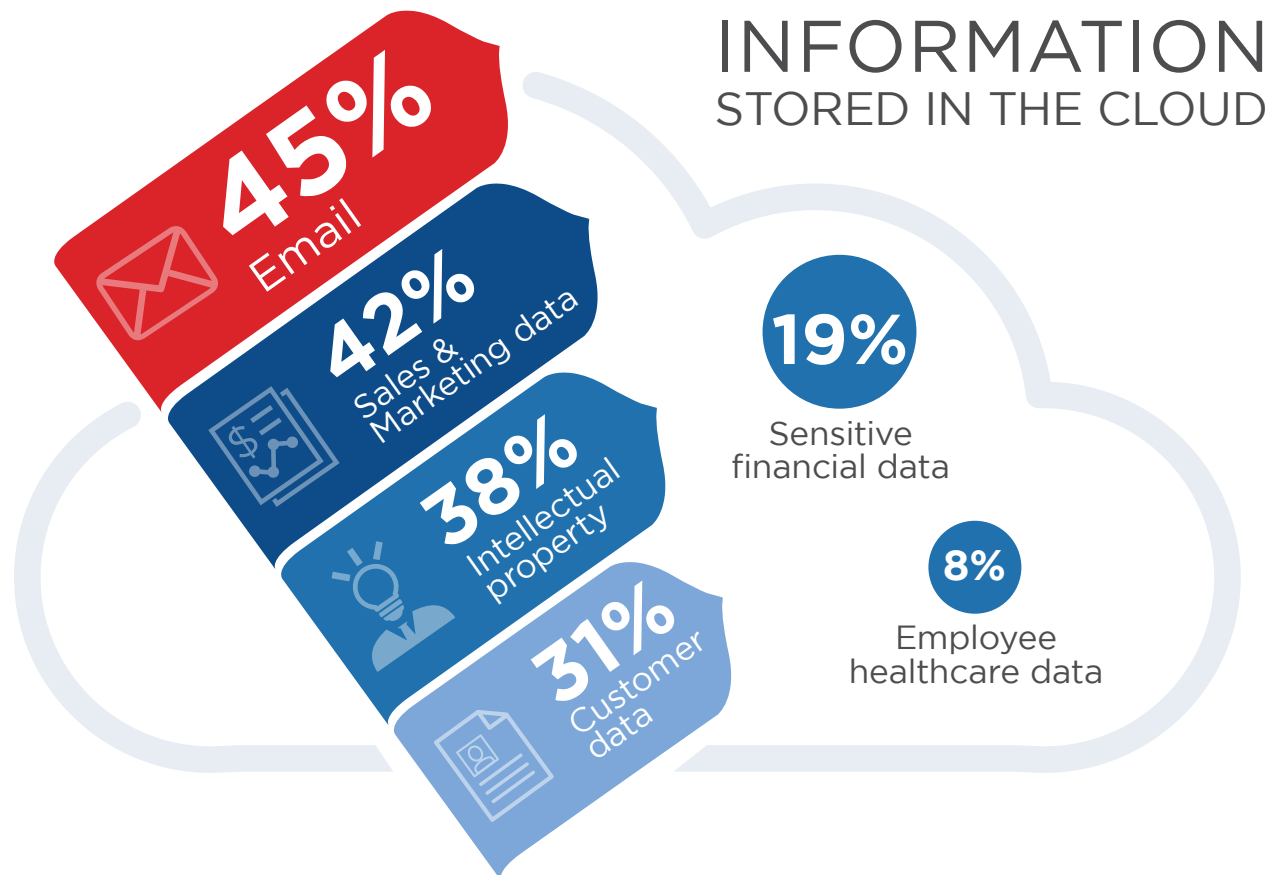
FUTURE DEPLOYMENT

22%	Salesforce	15%
16%	Microsoft Office 365	29%
16%	Google Apps	13%
16%	Microsoft Exchange	13%
13%	Dropbox	4%
7%	Service Now	10%
6%	Box	8%
3%	Workday	8%

Q: Which of the following cloud applications are deployed or will be deployed in your organization?

CORPORATE DATA IN THE CLOUD

Email is the most frequently stored corporate information in the cloud (45%), followed by sales & marketing data (42%), intellectual property (38%) and customer data (31%). Few organizations store sensitive financial data (19%) or employee healthcare data (8%) in the cloud.

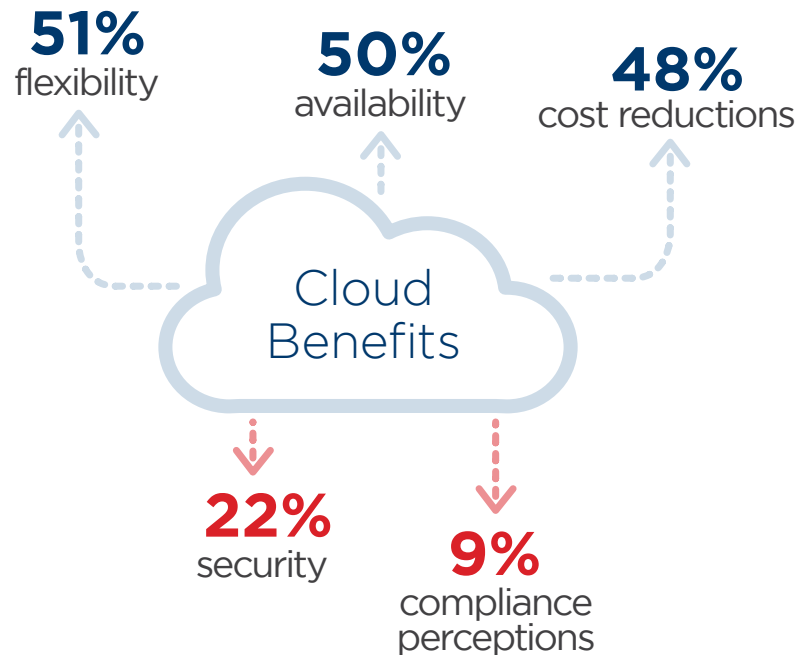


Q: What types of corporate information do you store in the cloud?

CLOUD BENEFITS & SHORTCOMINGS

There has been much hype around the benefits of moving to the cloud. We dug deeper to uncover the truth - cloud is delivering on its promise of flexibility (51%), availability (50%) and much talked about cost reductions (48%).

Where is cloud falling short? Security (22%) and regulatory compliance (9%).



EXPERIENCED CLOUD BENEFITS



Increased efficiency 41% | Moved expenses from fixed CAPEX (purchase) to variable OPEX (rental / subscription) 38% | Accelerated deployment and provisioning 38% | Increased employee productivity 31% | Increased geographic reach 28% | Accelerated timetomarket 28% | Reduced complexity 27% | Improved performance 27% | Align cost model with usage 26% | Improved security 22% | Improved regulatory compliance 9% | Not Sure / Other 3% | None 1%

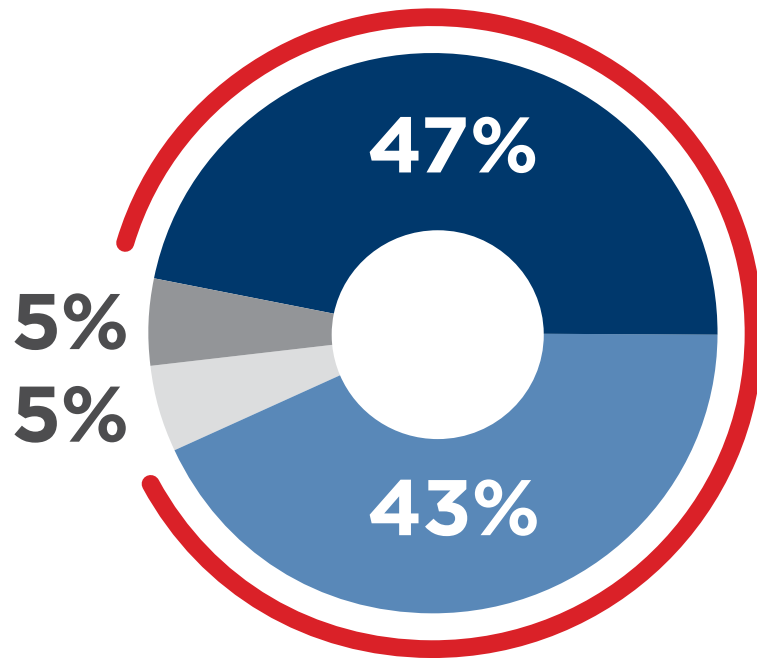
Q: What benefits have you received from your cloud deployment?



CLOUD SECURITY RISKS

SECURITY CONCERNS

An overwhelming majority of 90% of organizations are very or moderately concerned about public cloud security. Today, security is the single biggest factor holding back faster adoption of cloud computing.



90%
organizations have
security concerns

- Very concerned
- Moderately concerned
- Not at all concerned
- Not sure

Q: Please rate your level of overall security concern related to adopting public cloud computing

BARRIERS TO CLOUD ADOPTION

It's clear that IT teams have security top of mind. General security concerns (45%), data loss & leakage risks (41%), and loss of control (31%) continue to top the list of barriers holding back further cloud adoption.

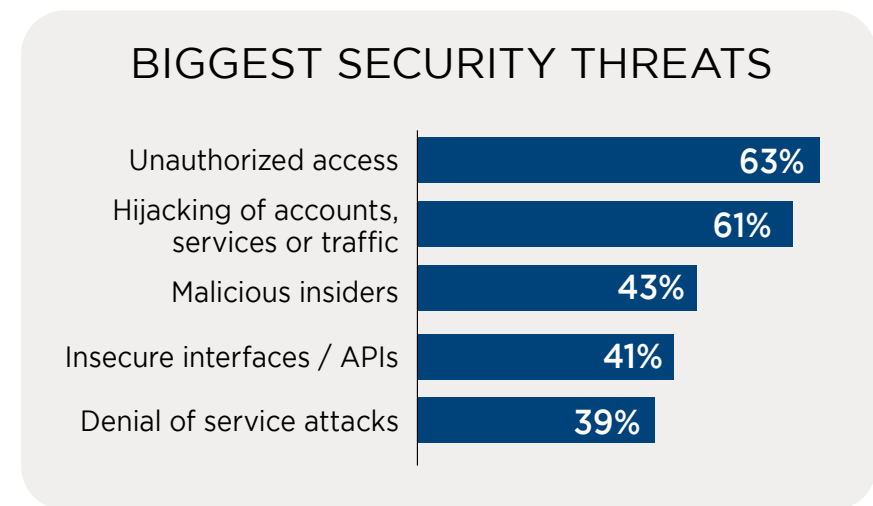
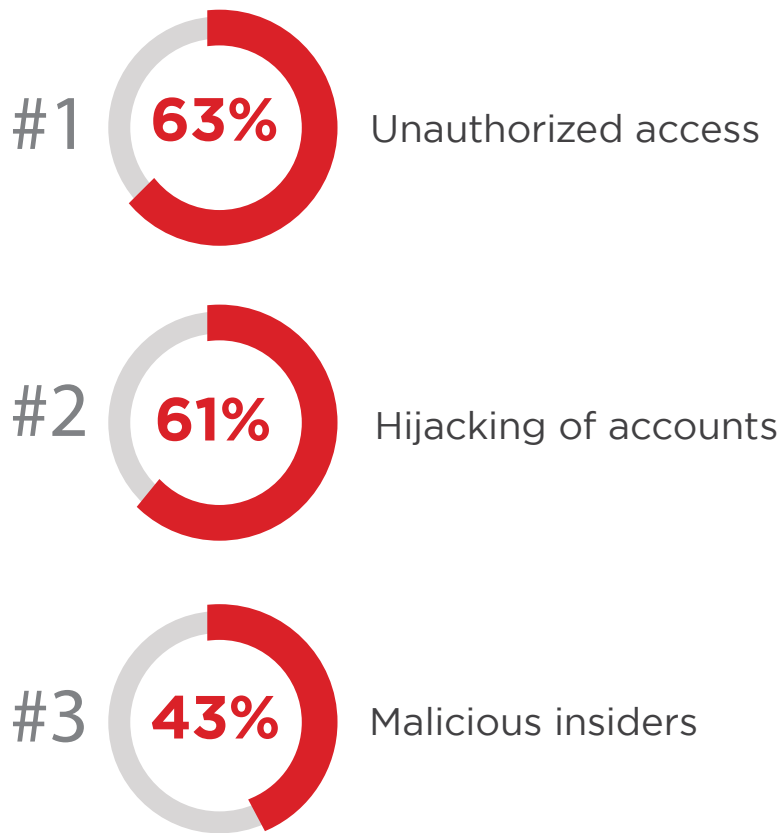


Legal & regulatory compliance 29% | Integration with existing IT environment 29% | Lack of maturity of cloud service models 21% | Internal resistance and inertia 19% | Lack of transparency and visibility 19% | Fear of vendor lock-in 19% | Lack of resources and expertise 16% | Cost / Lack of ROI 14% | Management complexity 13% | Performance of apps in the cloud 13% | Lack of management buy-in 11% | Dissatisfaction with cloud service offerings / performance / pricing 11% | Lack of customizability 10% | Availability 9% | & tracking issues 8% | Lack of support by cloud provider 8% | Not sure / Other 16%

Q: What are the biggest barriers holding back cloud adoption in your organization?

SECURITY THREATS IN PUBLIC CLOUDS

The biggest cloud security concerns include unauthorized access (63%) through misuse of employee credentials and improper access controls, hijacking of accounts (61%), and malicious insiders (43%). Malware, denial of service attacks, and other direct attacks against the cloud provider rank lower on the list of concerns.

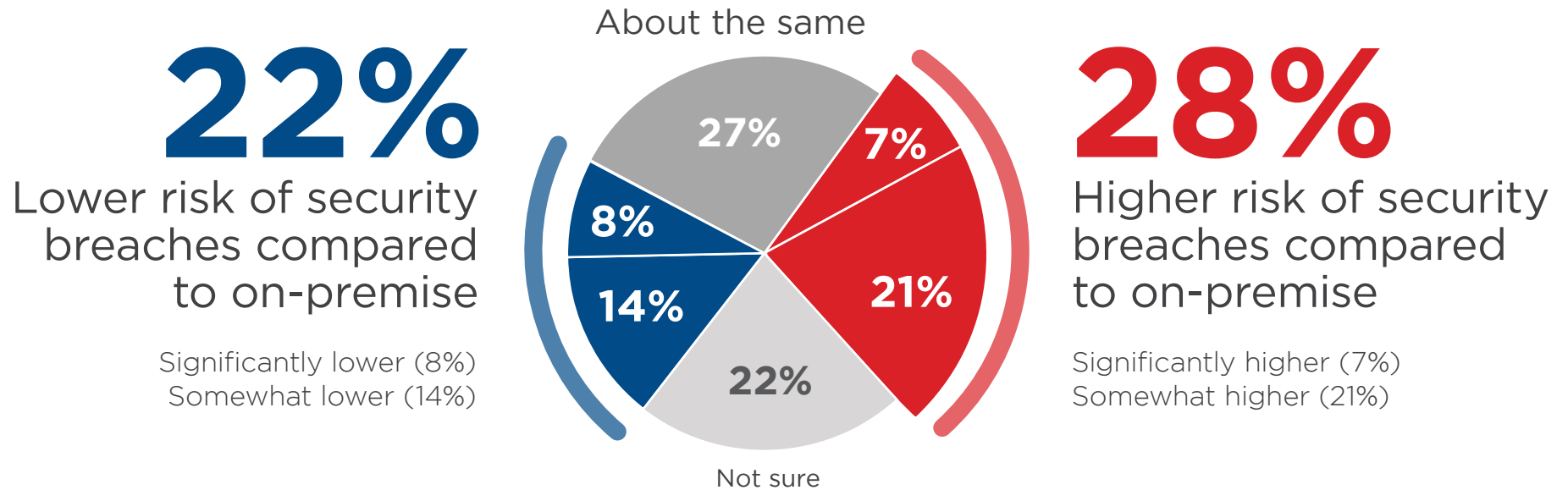


Malware injection 33% | Abuse of cloud services 33% |
Shared memory attacks 24% | Theft of service 23% |
Cross VM side channel attacks 22% | Lost mobile devices 18% |
Natural disasters 7%

Q: What do you consider the biggest security threats in public clouds?

SECURITY BREACHES IN PUBLIC CLOUDS

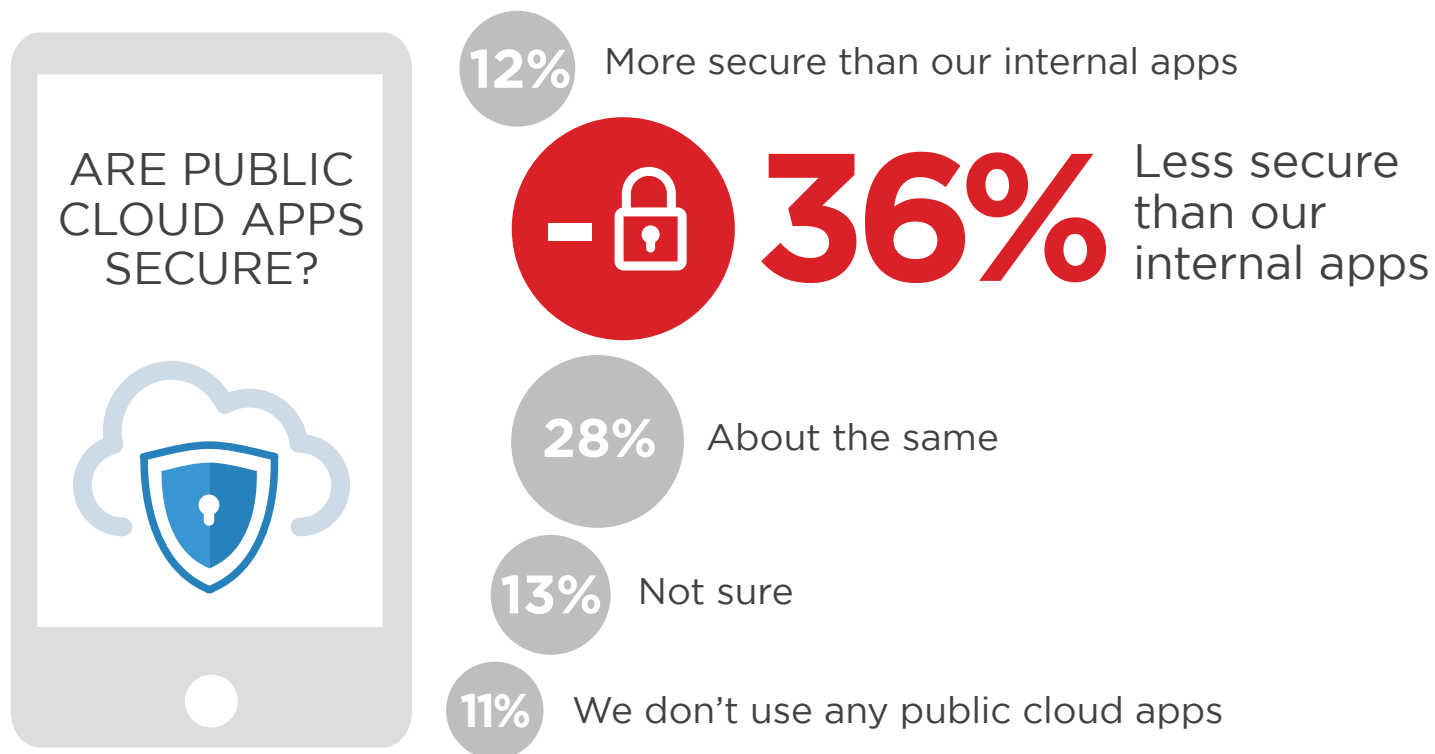
About one third of enterprises have experienced more security breaches with the public cloud than with on-premise applications. Only 22% say the number of cloud security breaches is lower.



Q: How does the number of security breaches you experienced in a public cloud compare to your traditional IT environment?

SECURITY OF PUBLIC CLOUD APPS

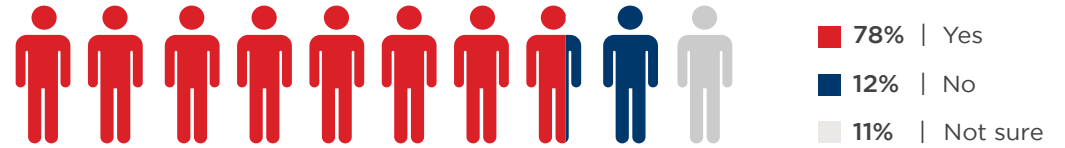
Despite SaaS providers' significant investments in security, 36% of respondents believe that major cloud apps such as Salesforce and Office 365 are less secure than on-premise applications. Only 12 % believe these apps are more secure.



Q: Do you believe well-known public cloud apps like Salesforce and Office 365 are more or less secure than your internally hosted applications?

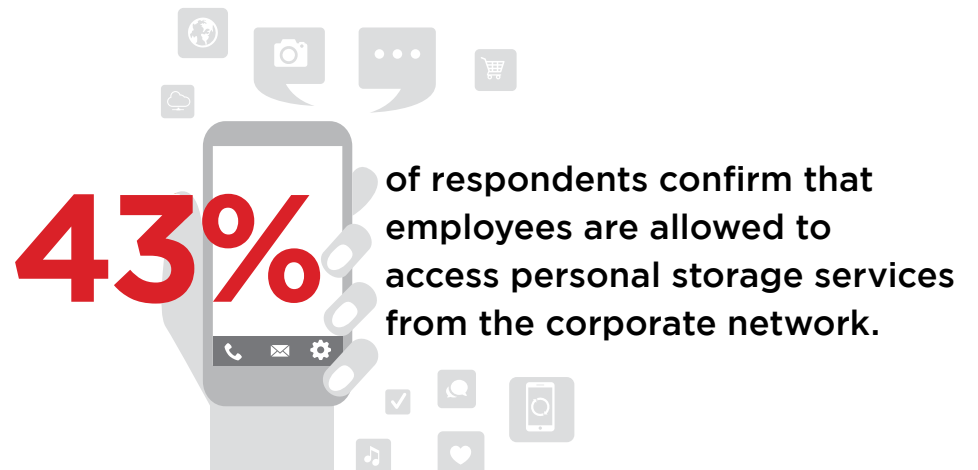
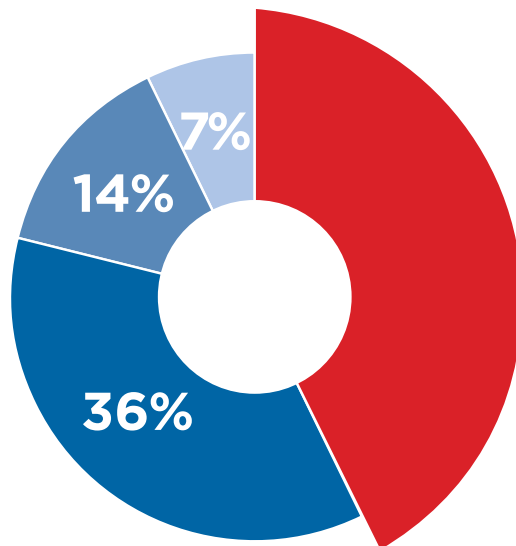
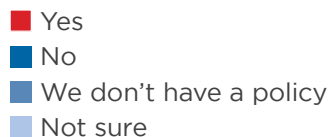
PERSONAL STORAGE CONCERNS

Almost 80% of managers are concerned about personal cloud storage services operated by employees or visitors, and the risk they pose regarding data privacy and leakage. This underscores the need for better visibility into data leaving the network.



Q: Is management concerned about data security and privacy of personal cloud storage services?

Employee access to personal cloud storage services



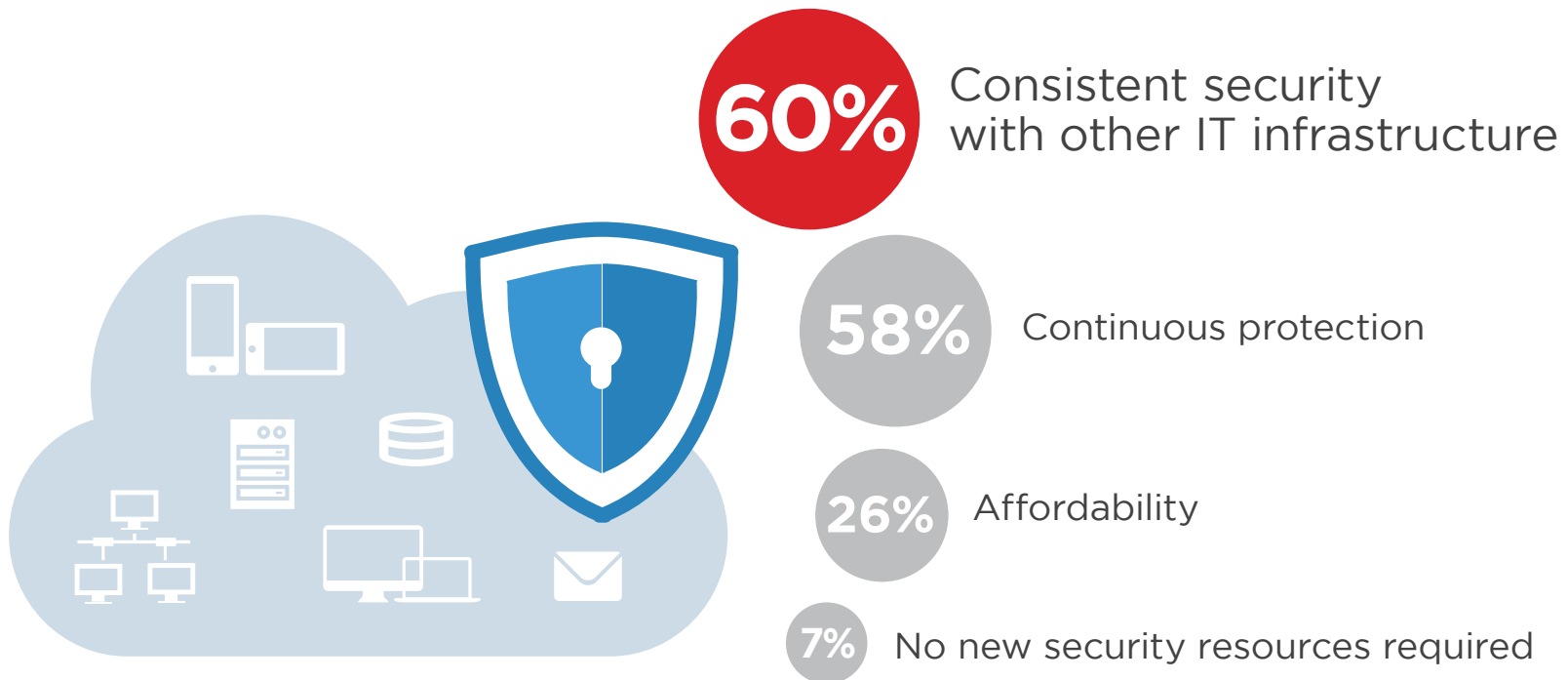
Q: Are employees allowed to access personal cloud storage services from the company's network?

CLOUD SECURITY SOLUTIONS



KEY FACTORS FOR CLOUD SECURITY

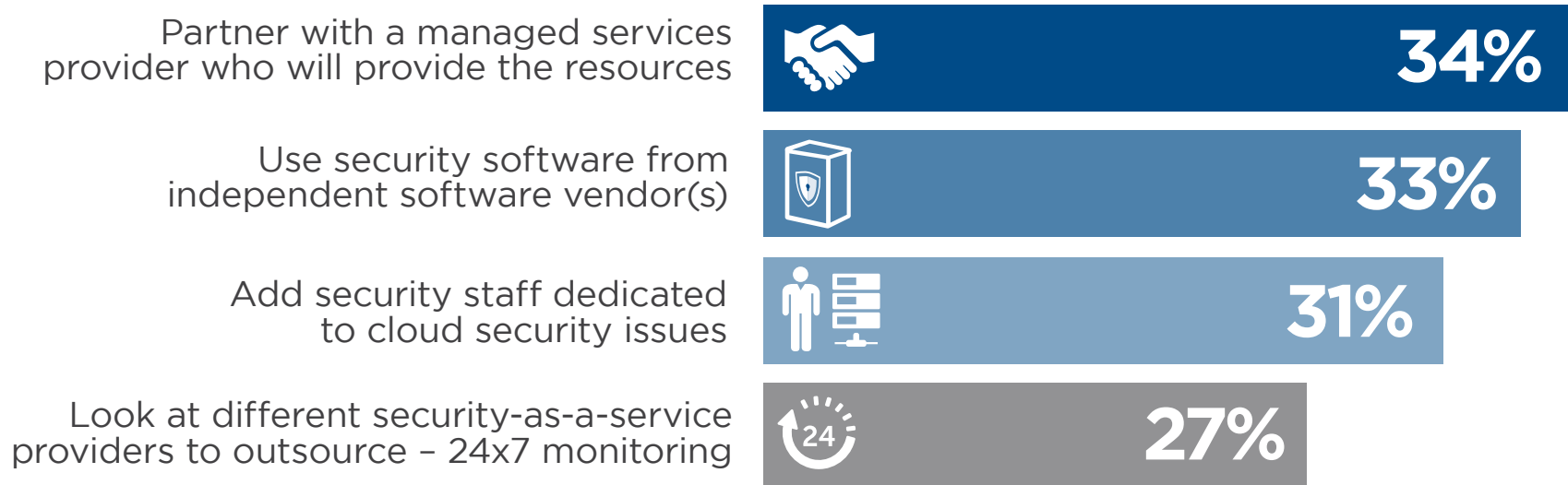
Consistent security across IT infrastructures (60%) and continuous protection (58%) are the most important factors for protecting cloud environments.



Q: What is the most important factor for protecting your cloud infrastructure?

SECURITY CHOICES

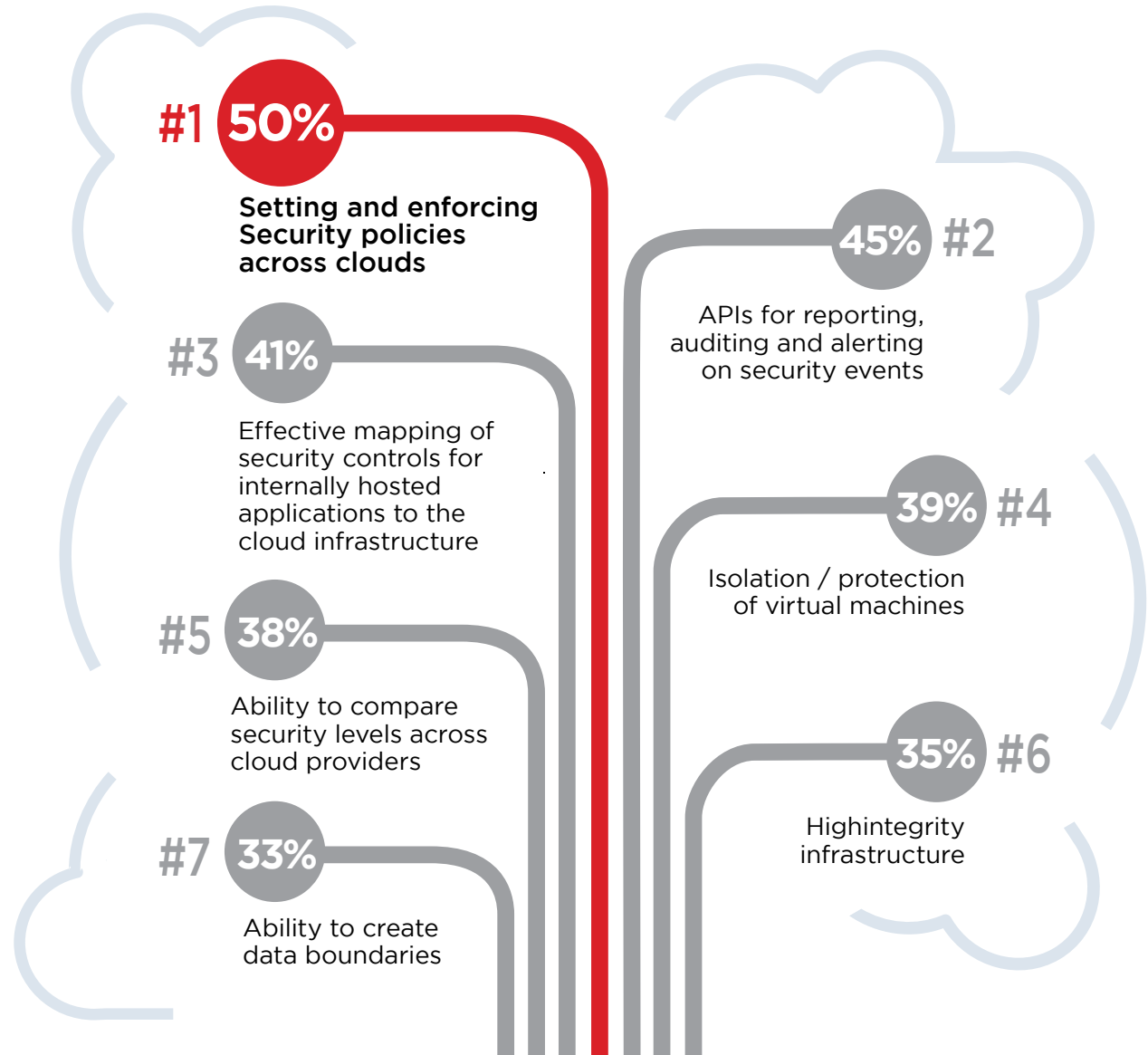
To address companies' security needs when moving to the cloud, partnering with managed service providers ranks highest (34%), followed by using security software (33%), and adding IT staff to deal with cloud security issues (31%).



Q: When moving to the cloud, how do you plan to handle your security needs?

CLOUD CONFIDENCE BUILDERS

The most popular method to close the cloud security gap is the ability to set and enforce consistent cloud security policies (50%).

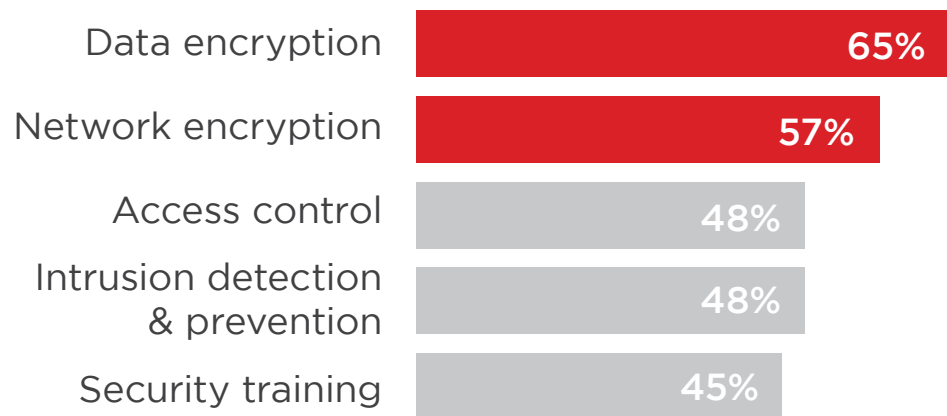


Q: Which of the following would most increase your confidence in adopting public clouds?

TECHNOLOGIES TO PROTECT DATA

Encryption of data at rest (65%) and in motion (57%) tops the list of most effective security controls for data protection in the cloud. This is followed by access control (48%), intrusion detection and prevention (IDP) (48%), and security training & awareness (45%).

Encryption is most effective for data protection

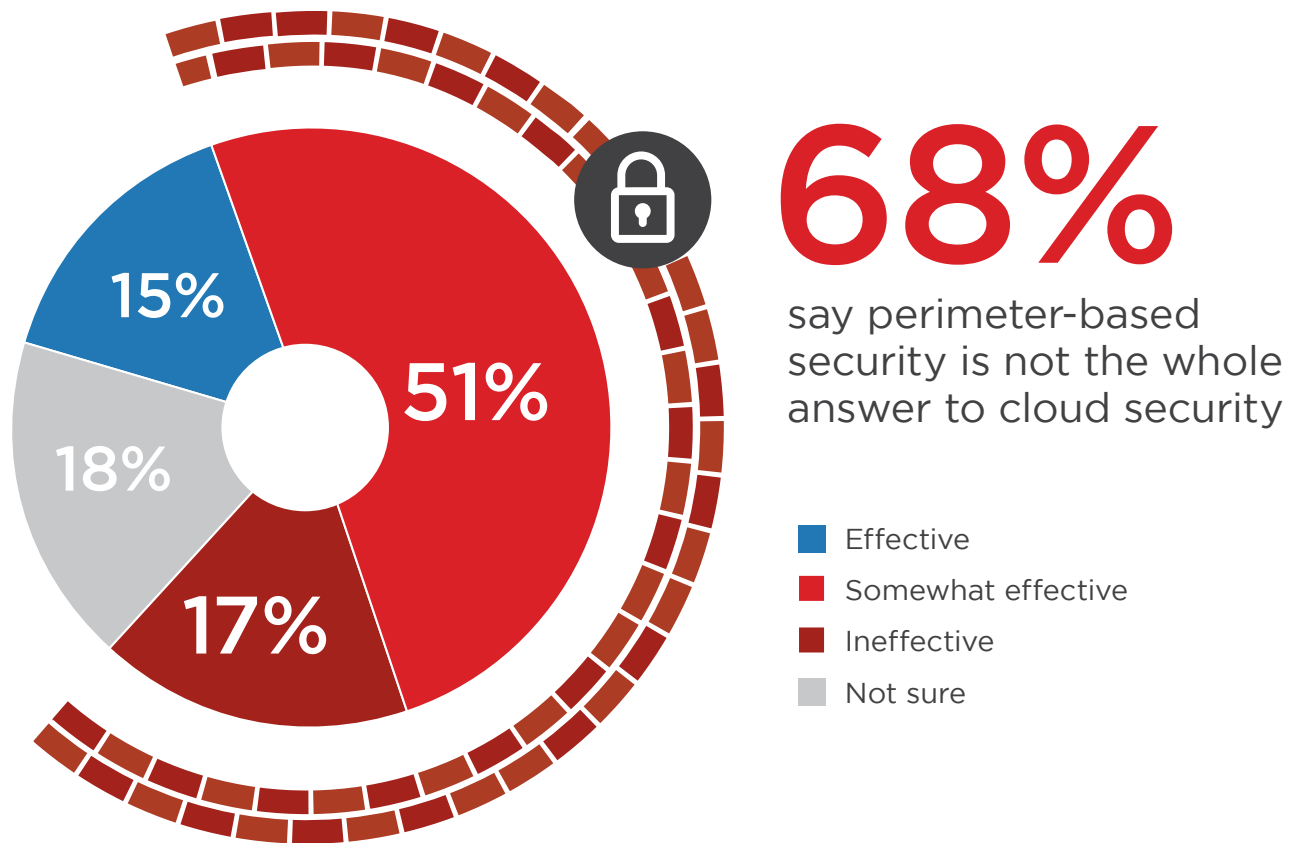


Data leakage prevention 41% | Firewalls / NAC 40% |
Log management and analytics 39% | Network monitoring 36% |
Endpoint security controls 36% | Antivirus / Antimalware 36% |
Single sign-on/ user authentication 36% | Patch management 30% |
Employee usage monitoring 28% | Mobile device management (MDM) 27% |
Database scanning and monitoring 22% | Cyber forensics 21% |
Content filtering 21% | Not sure / Other 12%

Q: What security technologies and controls are most effective to protect data in the cloud?

PERIMETER SECURITY FALLS SHORT

68% of respondents say that perimeter-based security is not the whole answer to securing cloud infrastructure. The increasing frequency and success of attacks bypassing the network perimeter (and the fact that corporate data is increasingly residing outside of the perimeter) underscores the need for additional layers of defense.



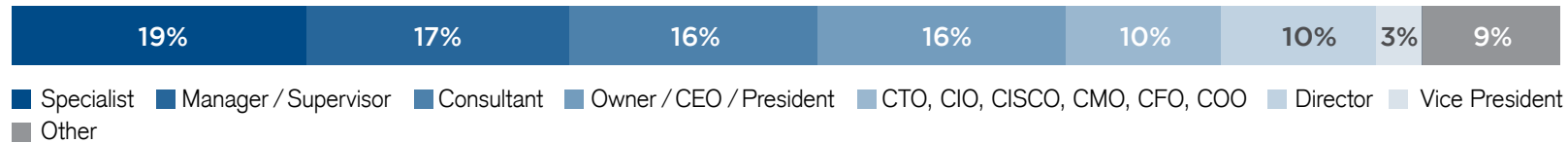
Q: How effective are perimeter-based security models in public or private clouds?

METHODOLOGY & DEMOGRAPHICS

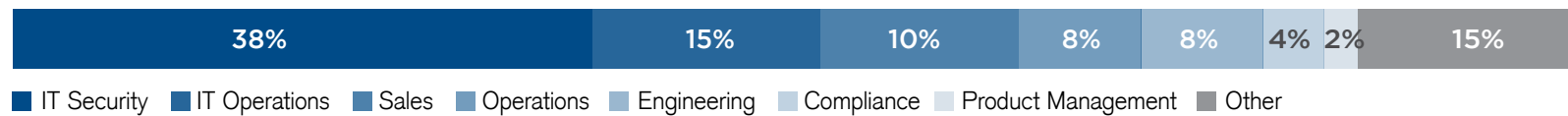
The Cloud Security Spotlight Report is based on the results of a comprehensive survey of 1,010 professionals across a broad cross-section of organizations about their adoption of cloud computing and security related concerns and practices.

The 1,010 respondents range from technical executives to managers and practitioners, and they represent organizations of varying sizes across many industries. Their answers provide a comprehensive perspective on the state of cloud security today.

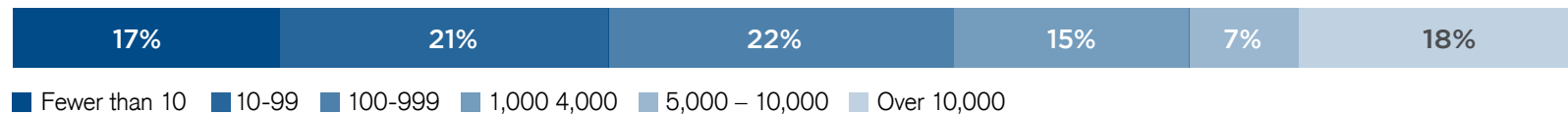
CAREER LEVEL



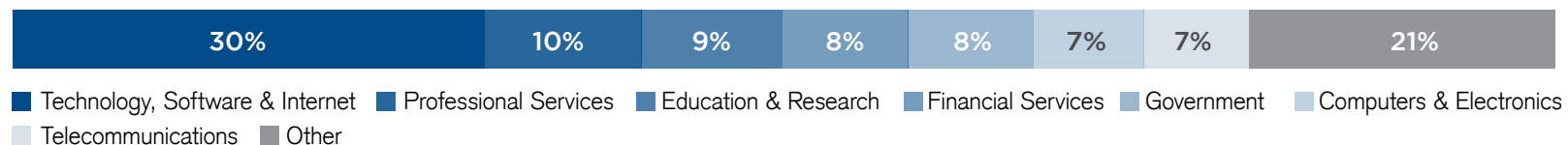
DEPARTMENT



COMPANY SIZE



INDUSTRY



In a world of applications and mobile devices, IT must secure data that resides on third-party servers and travels over third-party networks to employee-owned mobile devices. Existing security technologies are simply not suited to solving this task, since they are developed to secure the corporate network perimeter. Bitglass is a Cloud Access Security Broker that delivers innovative technologies that transcend the network perimeter to deliver total data protection for the enterprise - in the cloud, on mobile devices and anywhere on the internet.

Bitglass was founded in 2013 by a team of industry veterans with a proven track record of innovation and execution. Bitglass is based in Silicon Valley and backed by venture capital from NEA, Norwest and Singtel Innov8.



To learn more visit
www.bitglass.com

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