

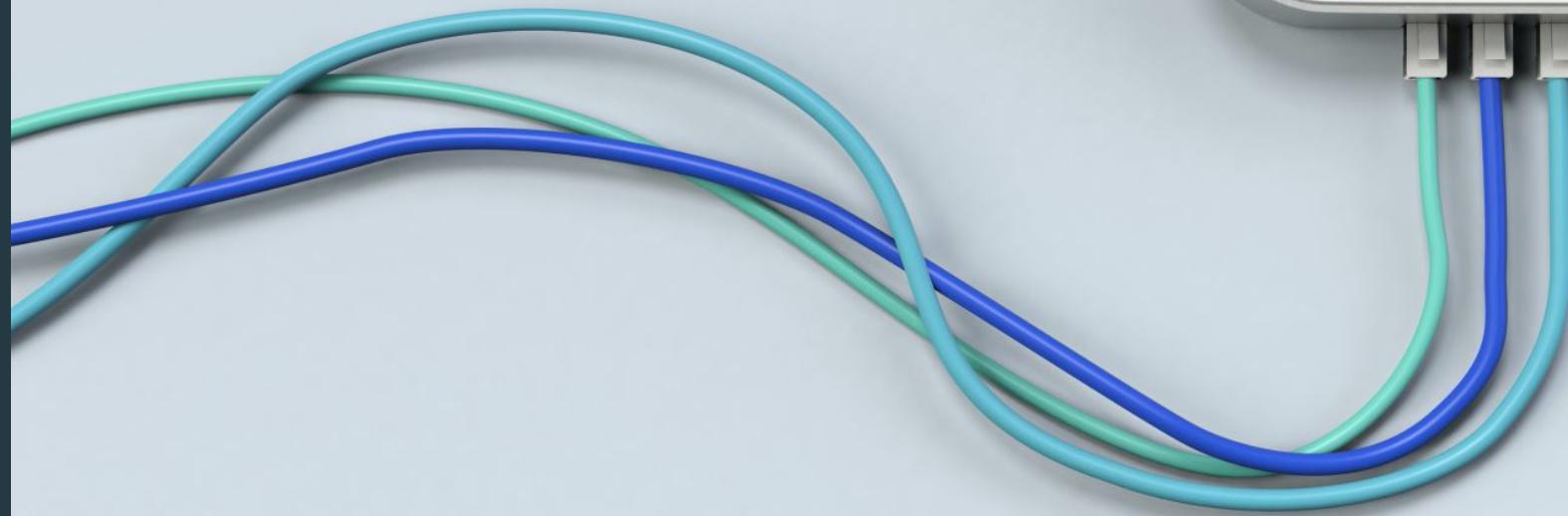
Cloud Computing

CT-7

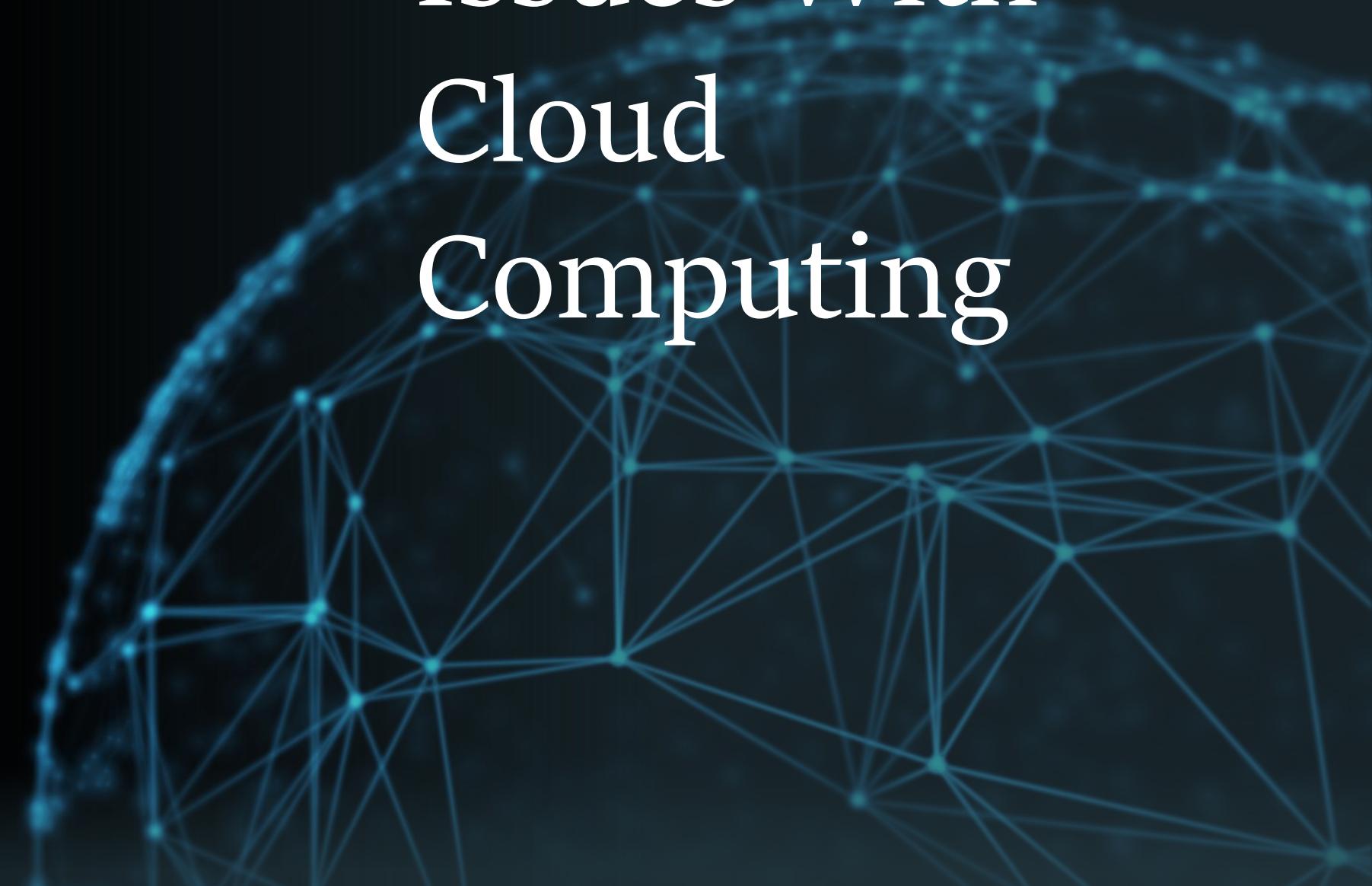
Haris Khan

Marc Alexander

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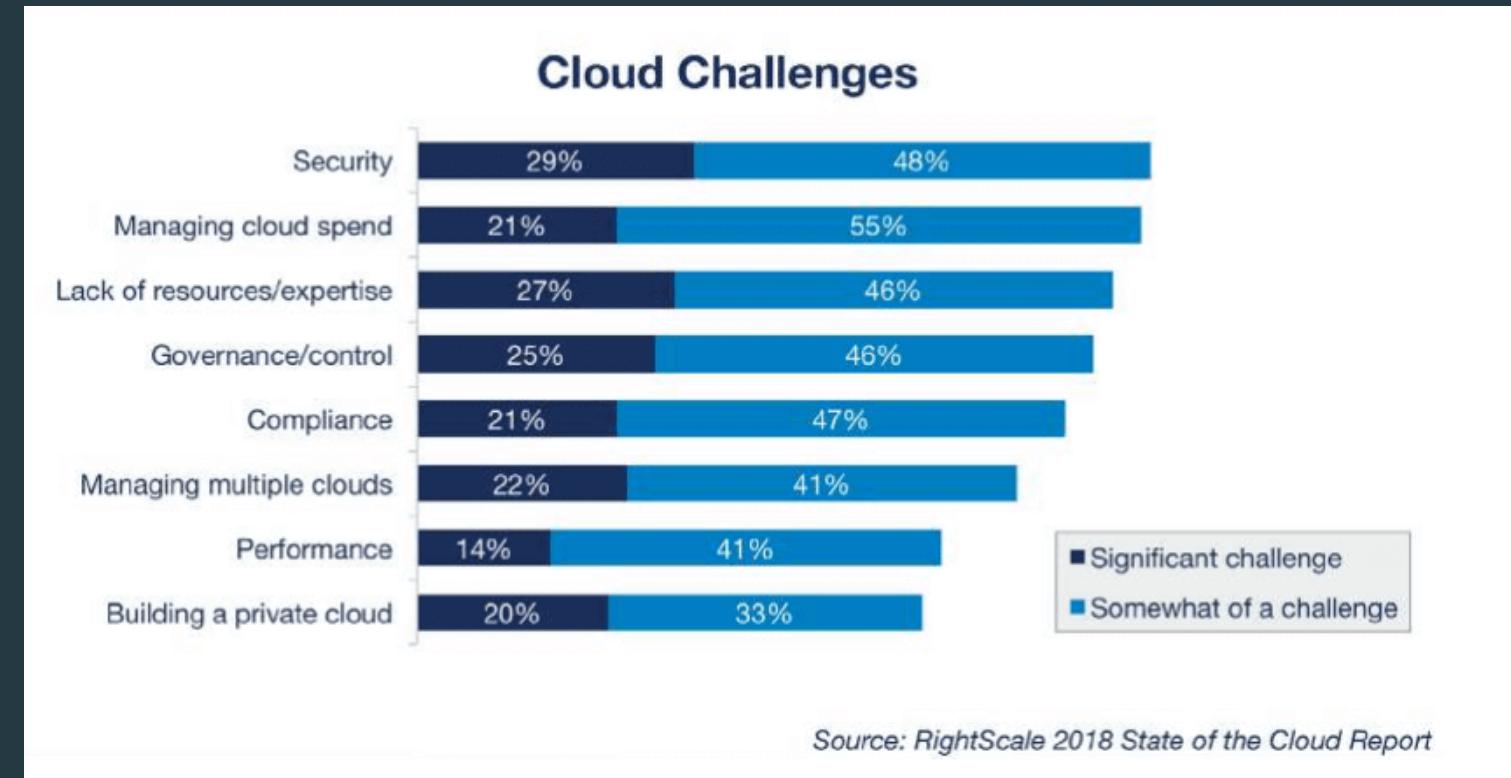


Issues With Cloud Computing



What do professionals think ?

- In January 2018, RightScale conducted its annual State of the Cloud Survey on the latest cloud trends. They questioned 997 technical professionals across a broad cross-section of organizations about their adoption of cloud infrastructure.
- Their results were kindly put into a readable table



Security issues



Security has been a valid and primary issue since the beginning of cloud computing



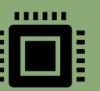
One big issue being that you cannot see the location where your data is being stored or processed



This increases the cloud computing risks that can arise during the implementation or management of the cloud.



Storing data and important files on external service providers always opens up risks



Example: Code Space and the hacking of their AWS EC2 console, which led to data deletion and the eventual shutdown of the company.

Downtime

- While this may be seen as something that might not be that influential but can have serious financial losses.
- One of the biggest disadvantages.
- Since cloud computing systems are internet-based, service outages are always an unfortunate possibility and can occur for any reason.
- No organization is immune especially when important business services cannot afford to be interrupted.
- Example: An outage on Amazon Web Services in 2017 cost publicly traded companies up to \$150 million dollars.



Migration

- One of the main cloud computing industry challenges in recent years concentrates on migration. This is a process of moving an application to a cloud. Although moving a new application is a straightforward process, when it comes to moving an existing application to a cloud environment, many cloud challenges arise
 - Some of the issues include;
 - 1. Extensive troubleshooting
 - 2. Security Challenges
 - 3. Slow data migration
 - 4. Application Downtime
 - 5. Cutover Complexity

Governance/Control

- In today's cloud-based world, IT does not always have complete control over infrastructure delivery, provisioning, and operation.
- This has increased the difficulty of IT to provide the necessary governance, compliance, risks, and data quality management.
- To mitigate the various risks and uncertainties in transitioning to the cloud, IT must adapt its traditional IT governance and control processes to include the cloud.

