

## Top 5 Factors for Cloud Security Success

How secure is your cloud? It's one of the top questions IT decision-makers ask when evaluating cloud providers. And as today's CIOs and CISOs explore moving increasingly sensitive workloads to the cloud, Gartner has encouraged them to apply their imagination and energy to taking advantage of the benefits of cloud-based architectures in what Gartner refers to as an "increasingly ubiquitous computing model."2

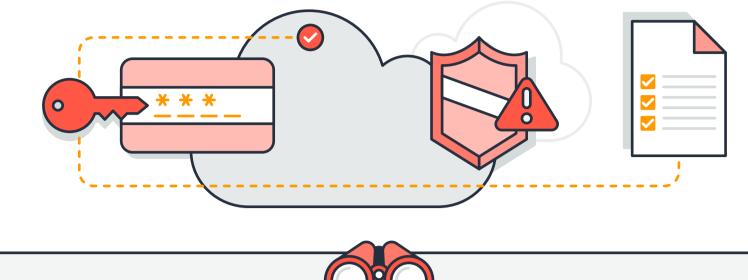
The truth is, today's major cloud providers often provide even better security than most enterprise data centers. In fact, Gartner predicts that through 2020, public cloud infrastructure as a service (IaaS) workloads will experience at least 60% fewer security incidents than those in traditional data centers.3

#### As you consider cloud providers, look for these 5 security must-haves:

Ready to move to the cloud?

### **Identity and Access Controls** Identity and access controls are critical to ensuring that only authorized users, groups,

or applications can access internal resources. Your provider should give you access to define, enforce, and audit user permissions across services, actions, and resources.





## **Detective Controls**

Your cloud provider should offer you the visibility you need to spot issues before they impact the business, improve your security posture, and reduce the risk profile of your environment.



You should be able to set up automated monitoring, alerting, and robust logging.

Your logs should be stored in durable storage that prevents unauthorized access.

### The right infrastructure security controls will enable you to reduce the surface area you need to manage and increase privacy for and control of your overall cloud infrastructure.

**Infrastructure Security Controls** 



**Data Protection Controls** 

You should have access to automatic data encryption and management services,

including data management, data security, and encryption key storage.





**Incident Response Controls** 

During an incident, containing the event and returning to a known good state are important elements of

a response plan. Your cloud provider should offer tools to automate all aspects of this key best practice.



# **READY FOR THE NEXT STEP?**

**Amazon Web Services** With security as our top priority, Amazon Web Services (AWS) protects millions of active customers around the world. Our customers represent diverse industries with a wide range of use cases, including large enterprises, start-ups,

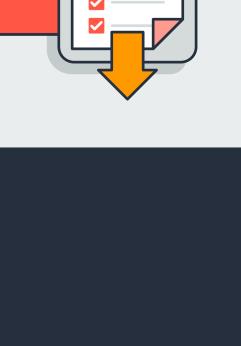
educational institutions, and government organizations. We depend on the

same infrastructure and security services that we provide our clients, and we

can help simplify meeting your own security and regulatory requirements.

To learn more, and for an expanded list of cloud security considerations, download **Security in the Cloud:** A Checklist for Cloud Buyers.

**DOWNLOAD THE CHECKLIST** 







<sup>1</sup> "Diving into IT Cloud Services," *Spiceworks*, 2016. https://www.spiceworks.com/marketing/reports/it-cloud-services/ <sup>2</sup> Jay Heiser, "Clouds Are Secure: Are You Using Them Securely?" Gartner, September 22, 2015.

https://www.gartner.com/doc/3134527/clouds-secure-using-securely <sup>3</sup> Kasey Panetta, "Is the Cloud Secure?" *Gartner*, January 23, 2017. http://www.gartner.com/smarterwithgartner/is-the-cloud-secure/