

Hackproof Your Cloud

Mitigate risks and threats by understanding the cloud security paradigm

When your data infrastructure was physical, security was simple. Now, you use off-premise data resources that you can't touch or see. How do you protect yourself on the cloud?

KEY DIFFERENCES BETWEEN THE CLOUD & ON-PREMISE SECURITY

1



THE CLOUD IS MORE SECURE BY DEFAULT

“Cloud computing is often far **more secure** than traditional computing.”

– Former U.S. federal chief information officer (CIO) Vivek Kundra

2



WHAT YOU PROTECT IS DIFFERENT

AWS is responsible for security **OF** the cloud.

You are responsible for security **IN** the cloud.

3



HOW YOU MONITOR IS DIFFERENT

Infrastructure is shared with other tenants, so you cannot scan it all whenever you want.

You must know where to look and gain permission to do so.

4



THE TOOLS YOU USE ARE DIFFERENT

You can't do the deep packet content inspection.

You can't use network devices for intrusion detection systems (IDS) or intrusion prevention systems (IPS) because they create a network bottleneck.

Agent-based security is impractical with dynamic scaling.

CLOUD SECURITY TIPS

USE BOTH LAYERS OF VPC SECURITY



CREATE PATCH TEMPLATES



Create an image of all the settings of one of your workloads.



Scan it in a test environment to identify vulnerabilities.



Fix them, and update with the latest security patches.



Use that image as a template to apply to future workloads.

LEARN ALL ABOUT THE AWS SERVICES YOU USE

Amazon Relational Database Service (RDS)

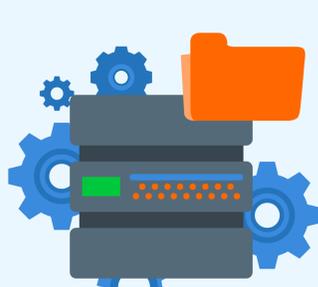
RDS has the option to be publicly accessible, which leaves it vulnerable. Make sure this option is not enabled.

Amazon Simple Storage Service (Amazon S3)

Put "endpoints" for S3 on your VPC (creating a private connection between them).

Amazon Simple Queue Services (SQS) and Amazon Simple Notification Service (SNS)

SQS and SNS don't have the option for an endpoint like S3. They're simply public URLs. Set service policies to specify who can access them.



USE THE RIGHT SECURITY TOOLS

If you want a platform that unifies all AWS security tools and makes cloud security safer and less time-consuming, consider CloudCheckr, an AWS-certified Advanced Technology Partner.



SECURITY ACTIONS TO TAKE TODAY

