



Cloud Threat Report

1H 2021: The COVID-19 Conundrum



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About the report

The **largest** and **most global** threat research on cloud security **pre and post COVID-19 discovery**

Intel collected from **thousands of sensors** worldwide. **Not survey data!**

Data gathering Oct. 2019 - Feb. 2021

Download the full report:
cloudthreat.report/1h21



Why this topic?



Increased cloud
spend

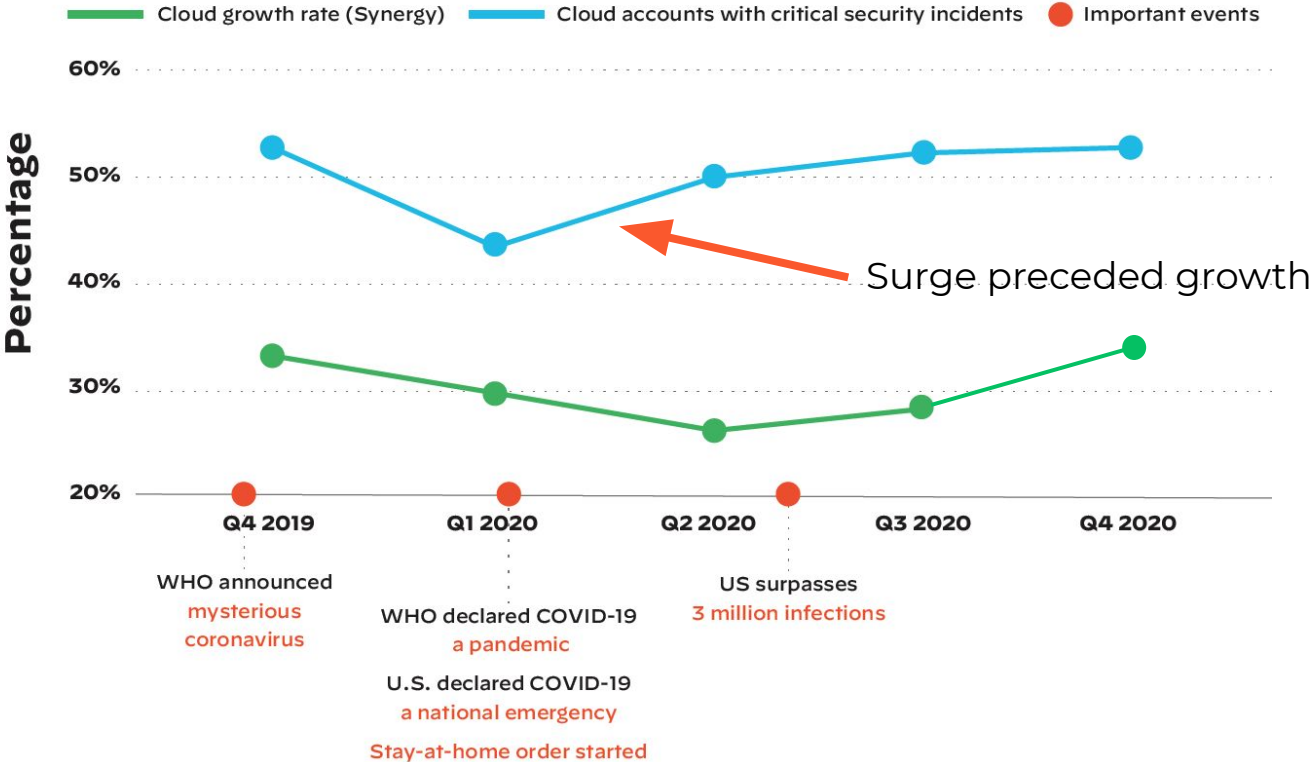


Mostly remote
workforce

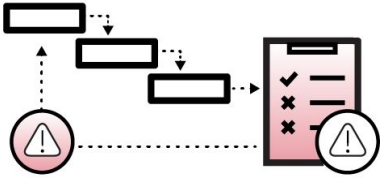


Crypto became
mainstream

Cloud growth vs. cloud security incidents

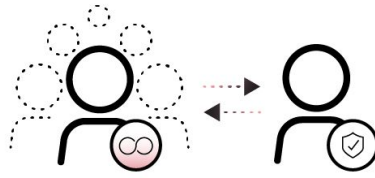


Top COVID-19 cloud security incidents worldwide



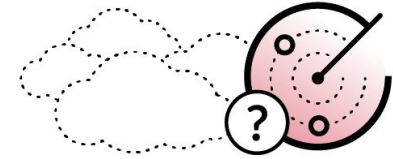
Unencrypted SQL databases

212%



Malicious port scans

185%



Unencrypted database snapshots

149%

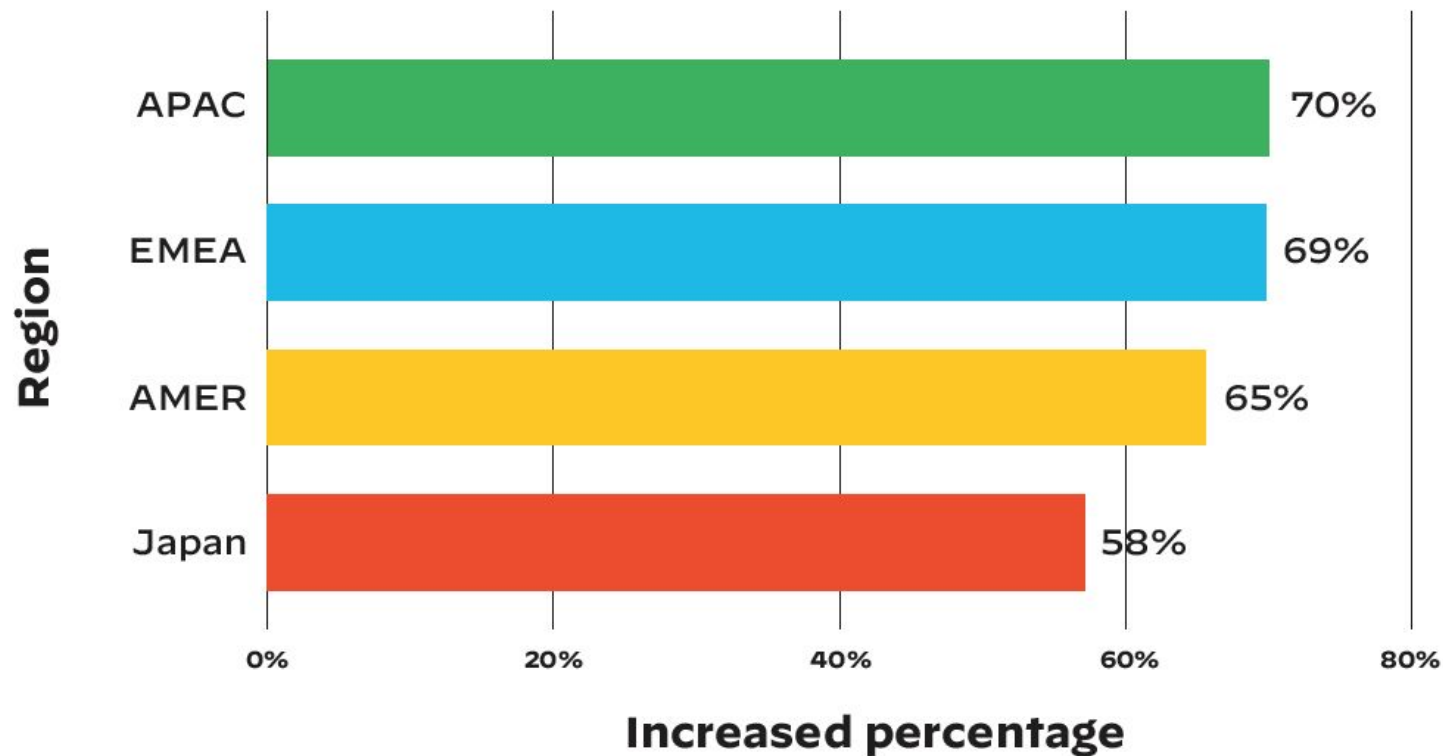
Increased percentage



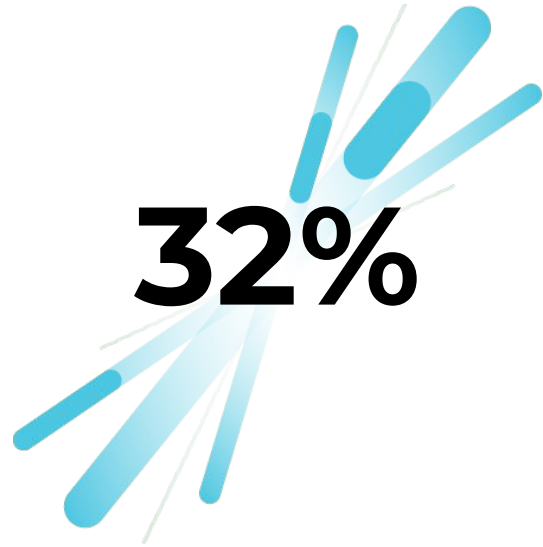
Without automation, sudden increases in cloud workloads lead to **dramatic increases** in security incidents...
Overwhelming security teams.

Regional Intel

Increase in cloud workloads by region



Sometimes it pays to grow slowly



of Japanese organizations
had ***insecure network
configurations**



of organizations globally
had **insecure network
configurations**

*(TCP/UDP on any port to at least one workload)

RDP attacks grow dramatically with cloud scale



27%

Increase in **RDP exposure**
across all major cloud providers

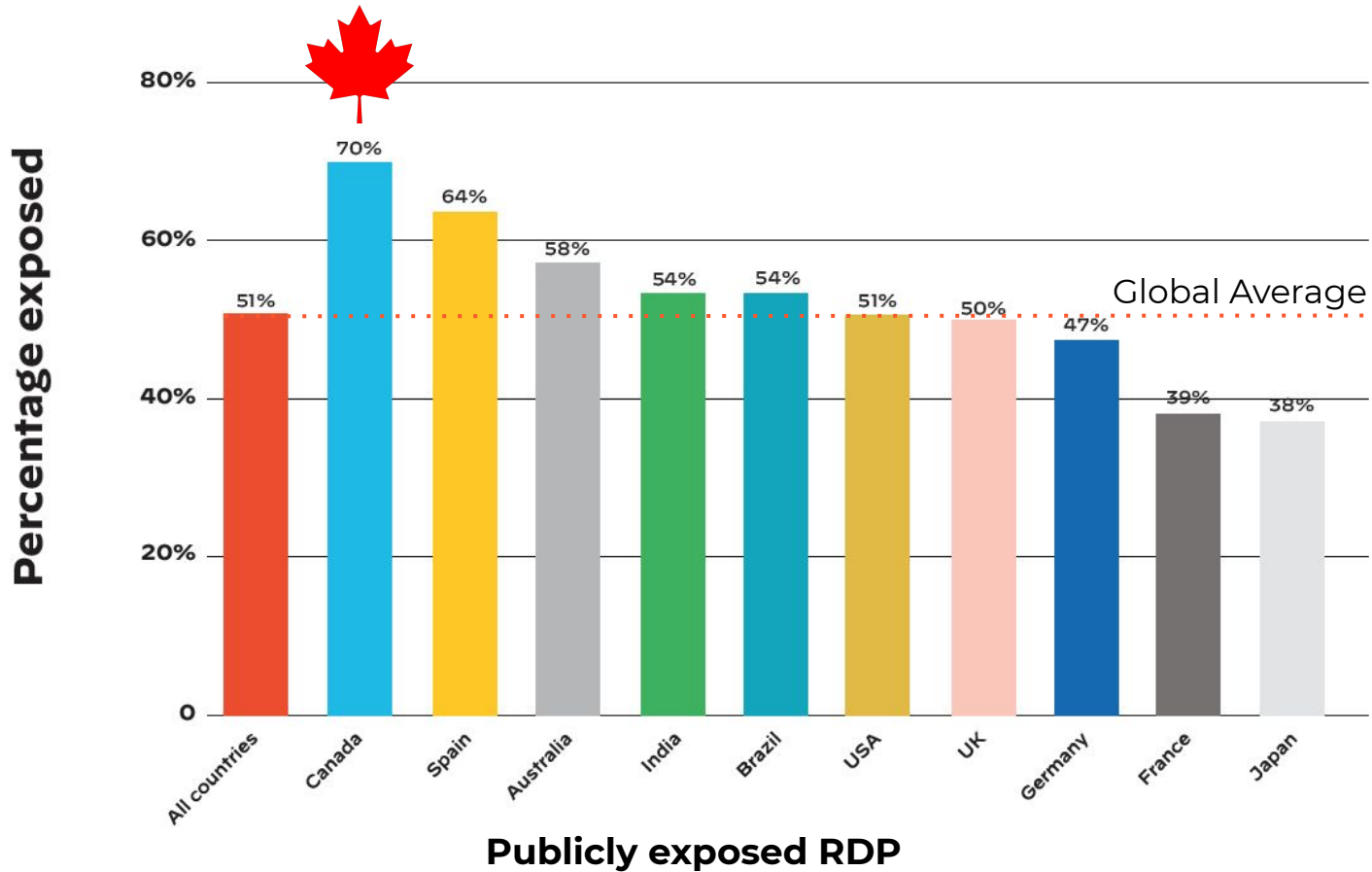


768%

Increase in **RDP attacks**
between Q1 and Q4 2020*

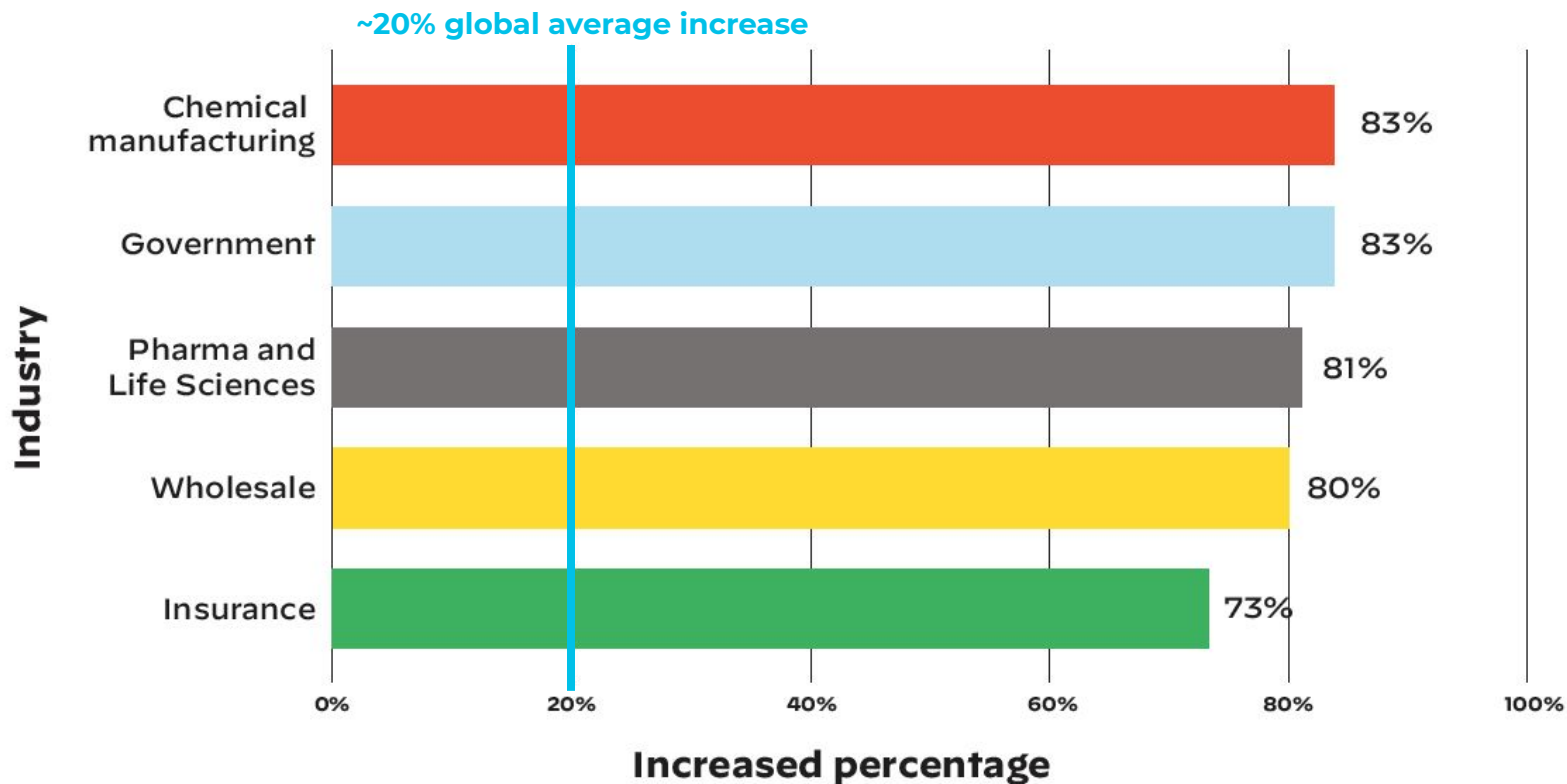
*ESET Threat Report Q4 2020

Remote work leads to risky practices...especially for Canadians

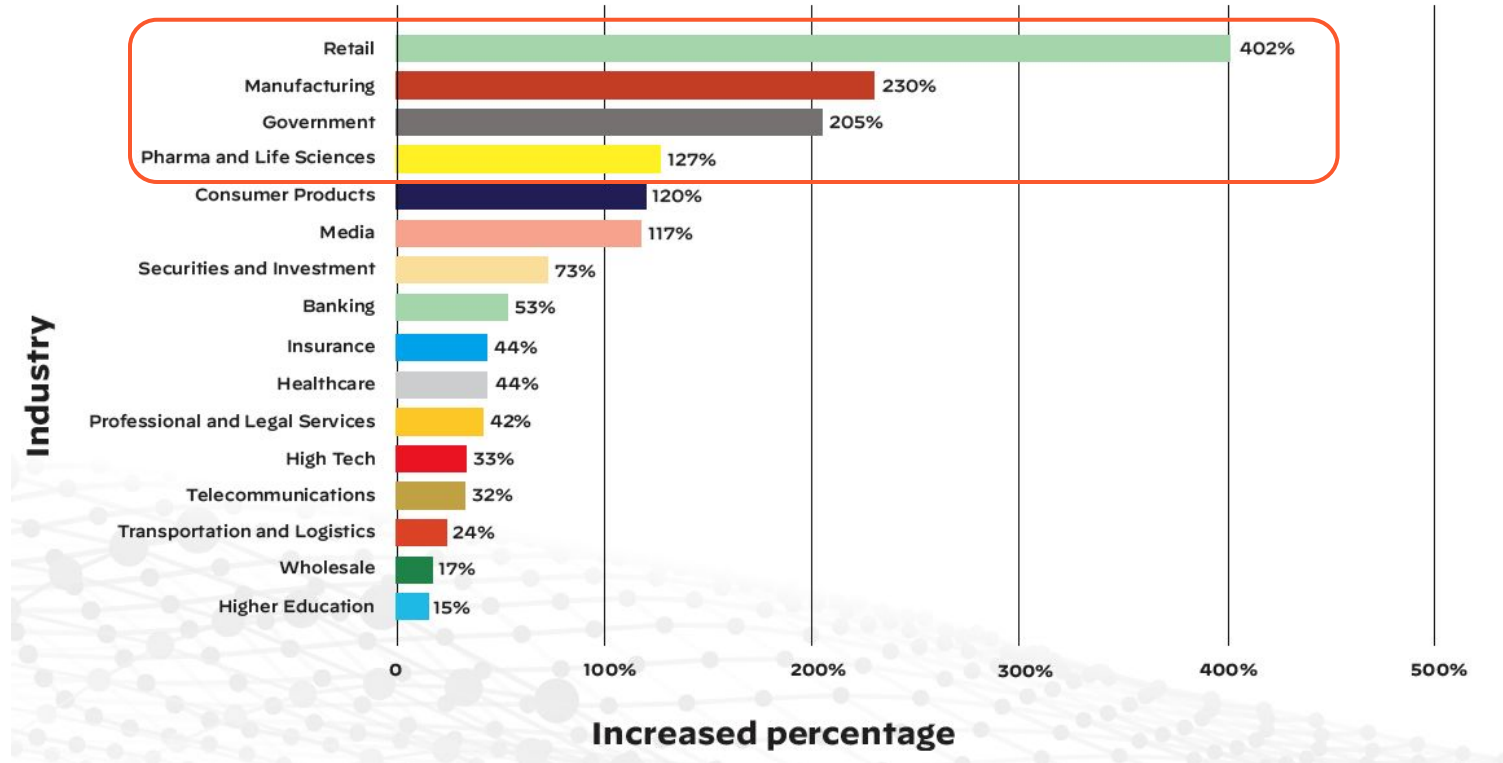


Industry Intel

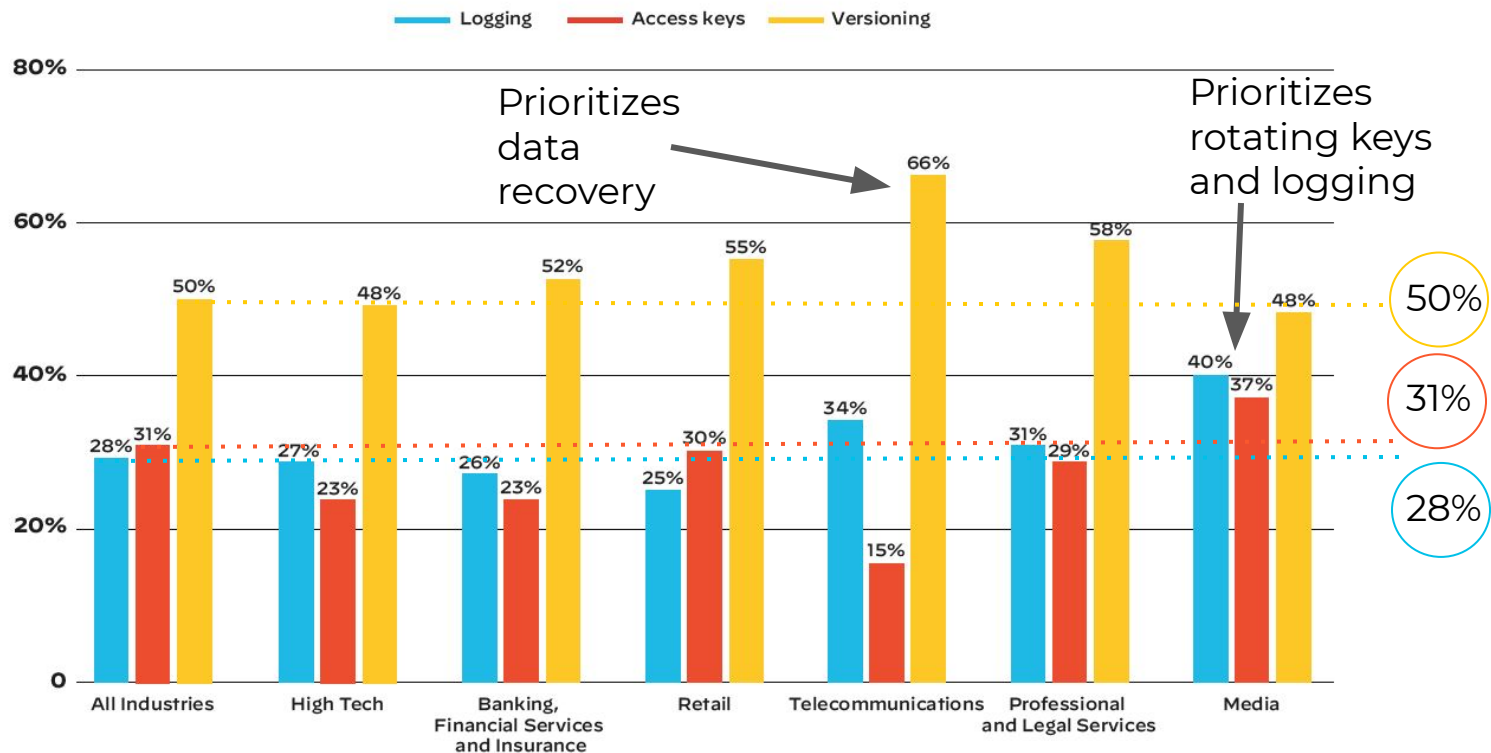
Industries experiencing the greatest growth in cloud workloads



Industries with the greatest increases in security incidents

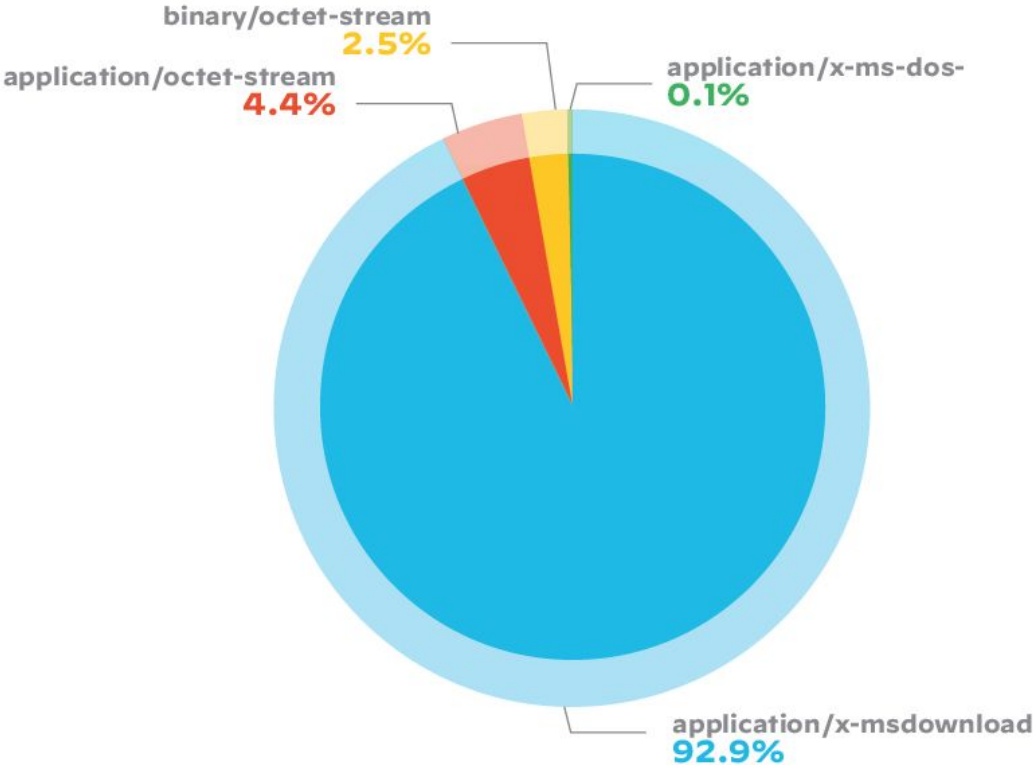


Some industries do better than others enabling critical controls



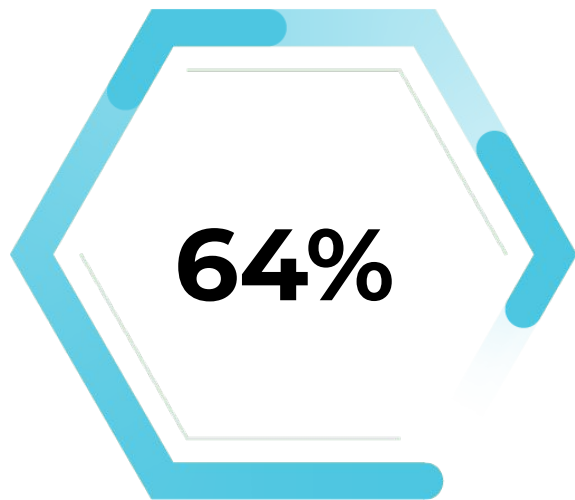
COVID-19 and Data Security

Cloud storage and malware...good news

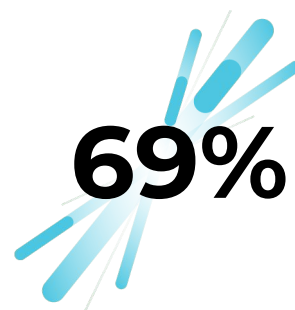


Malware found in cloud storage data

What's being stored in the cloud?



of cloud data contains
sensitive information



Contains PII



Contains IP



30%

allow **public access** to
sensitive data

No **auth** required



Cloud, COVID-19 and Cryptocurrency

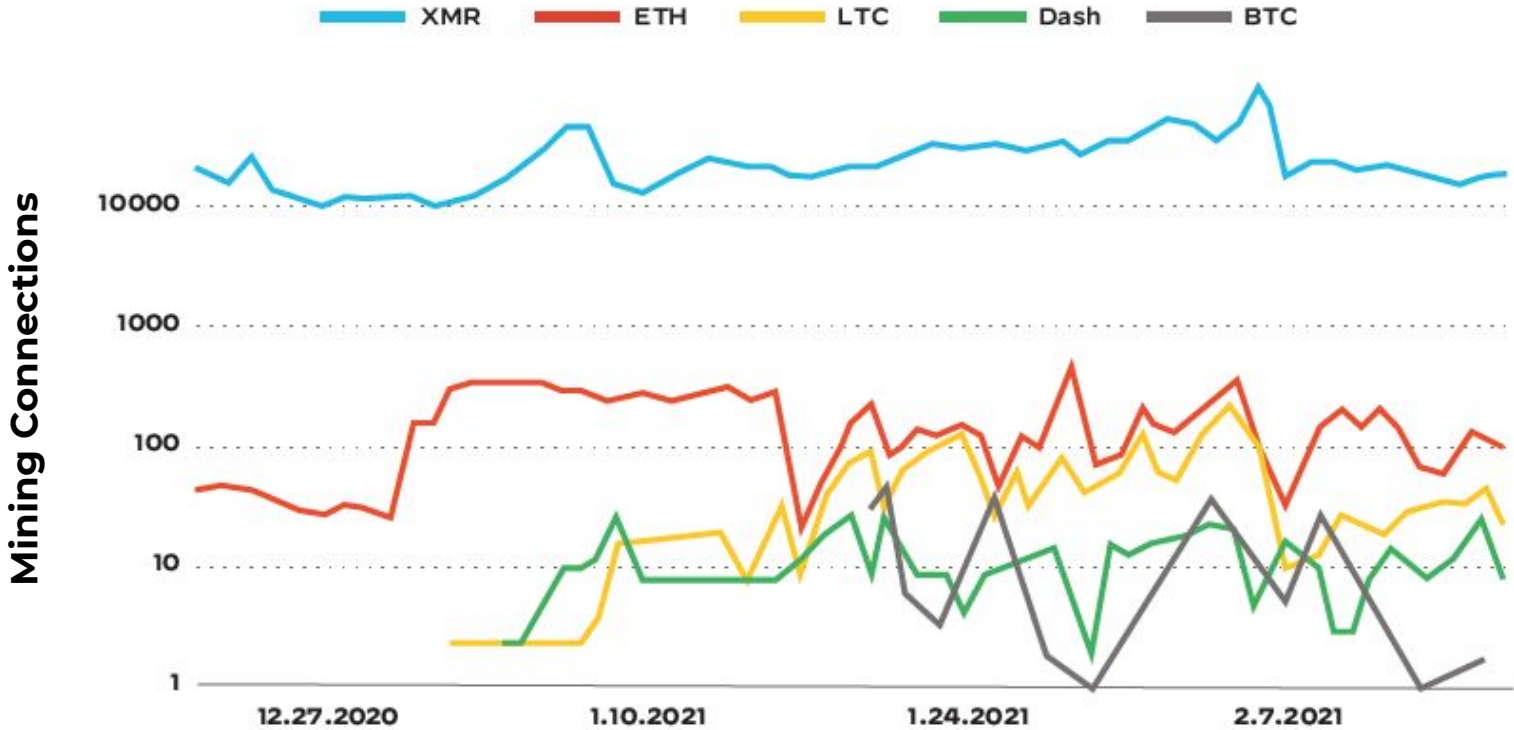
COVID-19 enabled crypto to go mainstream



Source: Visual Capitalist

Pandemic declared by WHO

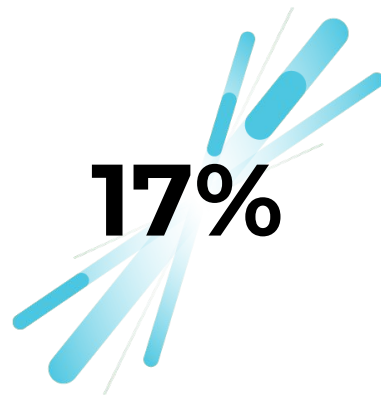
Monero (XMR) dominates cloud mining traffic



Cryptojacking is on the decline



of organizations
globally experienced
cryptojacking
July - Sept. 2020



of organizations
globally experienced
cryptojacking
Dec. - Feb. 2021

Cryptojacking = unauthorized use of infrastructure for cryptomining

Mitigation

Organizations have
neglected to invest in
the **automated cloud**
governance necessary
to ensure workloads
remain secure.

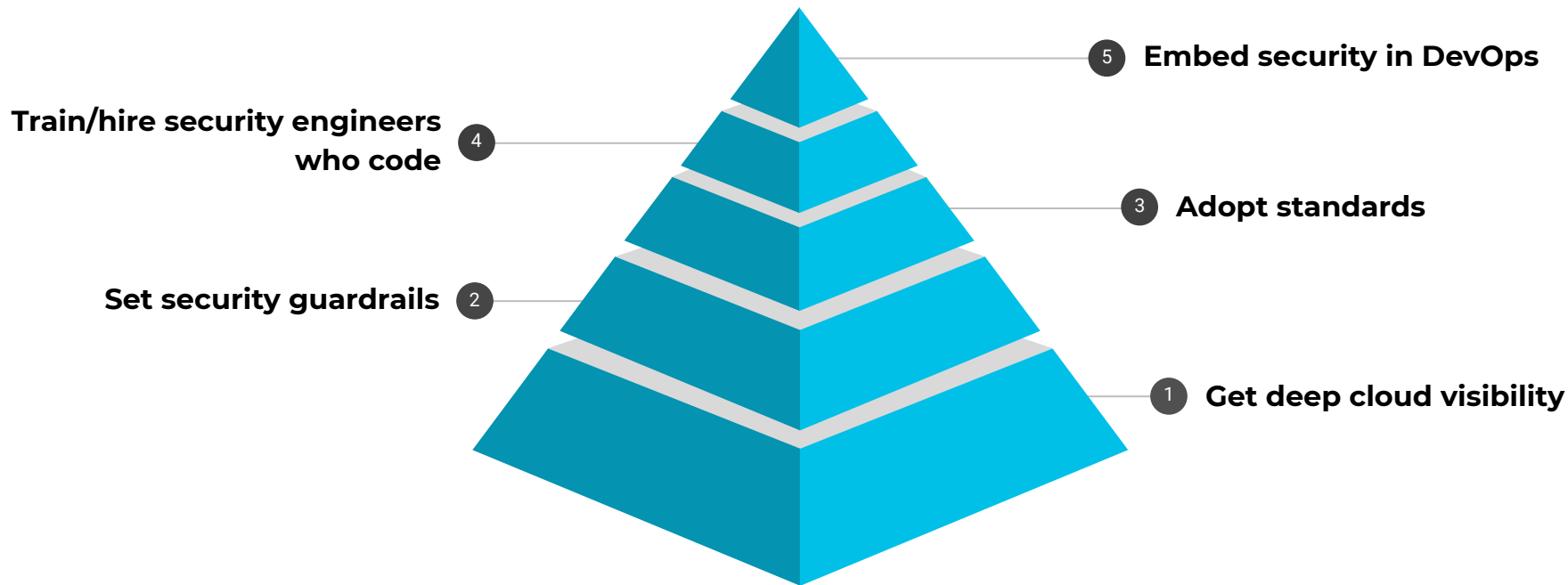




“Less than 5% of the global IT spend is in the cloud at this point. That’s going to substantially change in the coming years.”

- Andy Jassy, CEO Amazon (March 2021)

The Big Cloud 5 - patterns of cloud security excellence



Blog: cloudthreat.report/bc5

How Prisma Cloud Can Help

Prisma Cloud: Our Vision for Public Cloud Security



Comprehensive

Consistency across tech stacks, clouds, and app components



Best-in-Class

Each capability best by itself, and made better through integration



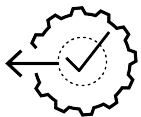
Full Application Lifecycle

Integrated from left to right, not only at runtime



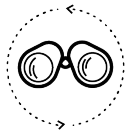
Prisma Cloud

Comprehensive cloud native security across the entire application lifecycle



DevSecOps

Integrate and perform infrastructure and application security in the CI/CD pipeline



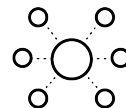
Cloud Security Posture Management

Monitor posture, detect and respond to threats, maintain compliance



Cloud Workload Protection

Secure hosts, containers, and serverless across the application cycle



Cloud Network Security

Monitor and secure cloud networks, enforce microsegmentation



Cloud Infrastructure Entitlement Management

Enforce permissions and secure identities across workloads and clouds

Prisma Cloud Comprehensive Cloud Native Security.

Full Lifecycle. For Any Cloud.