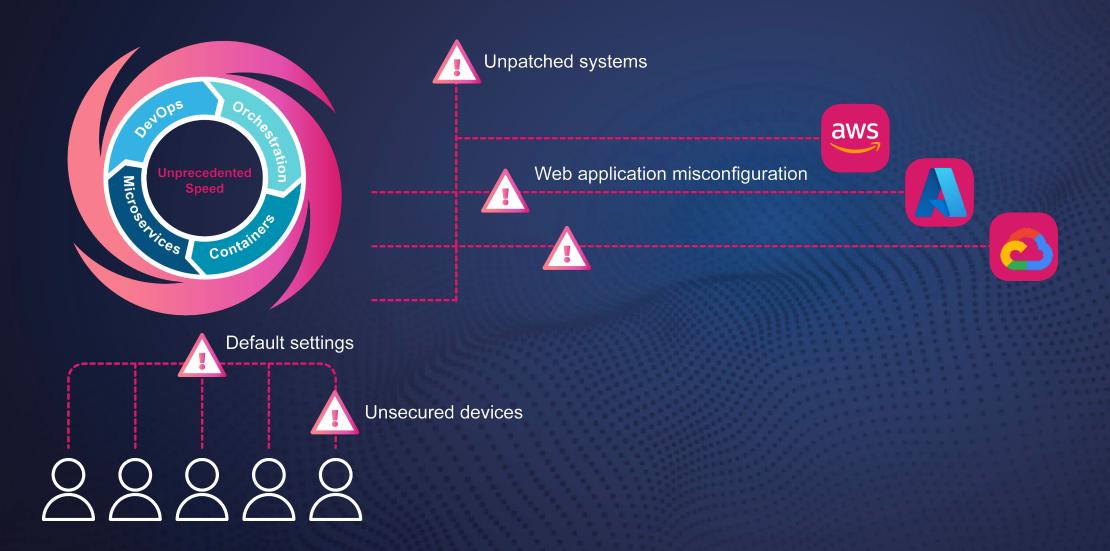


Balder Borup Security Engineer





Migrating applications to the Cloud





Mistakes create misconfigurations

EXCESSIVE PERMISSIONS

Thousands of IAM permissions to maintain

LACK OF VISIBILITY, **SECURITY GAPS**

Multi-cloud = multi-complexity

UNATTENDED SECURITY ISSUES

Due to insufficient time and resources









WHAT IS BLUEBLEED?

SOCRadar detected sensitive information of 150 000 companies leaked by 6 large public storage buckets

LEVEL O

Customer emails, SOW compared product offers, invoices, signed a sumeries and customer asset documents

ONWARD, UPWARD

One bucket contained 2.4 TB of data containing sensitive information belonging to Microsoft due to an **insecure** public Azure Blob Storage



The answer of the cyber security industry

Posture Management

Workload **Protection**

Threat Intelligence

Vulnerability Management

CIEM

Pipeline Security

Cloud-native Application Protection Platform (CNAPP)

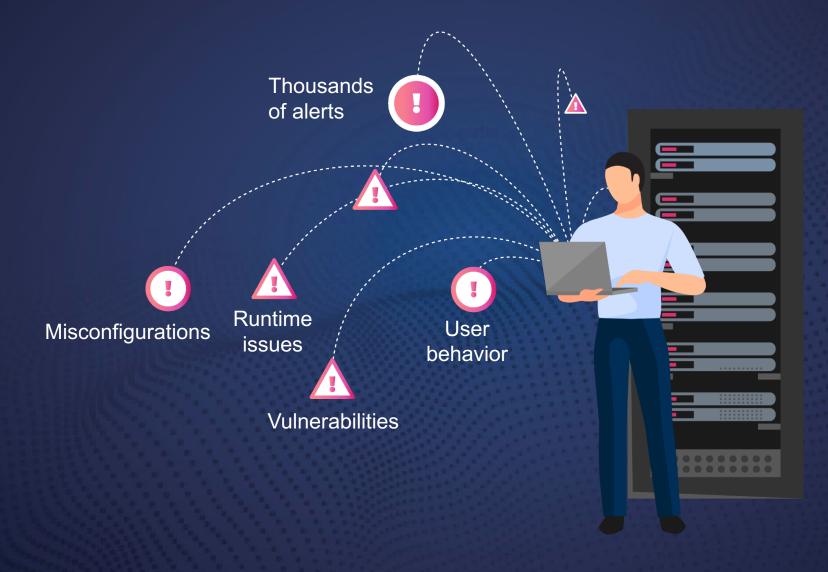


More visibility != more security?

Today's Cloud Posture Management tools focus on misconfigurations



"More alerts create more noise which generates an alert fatigue"



It's time to put your cloud security in context

So how can we do better?

More Context, Better Security, Faster

NEW! Effective Risk Management & Auto-Remediation

Posture Management

Workload **Protection**

Threat Intelligence

Vulnerability Management

CIEM

Pipeline Security

Cloud-native Application Protection Platform (CNAPP)

Misconfigurations need context to identify risks



Security Parameters Misconfigurations Vulnerabilities Malware



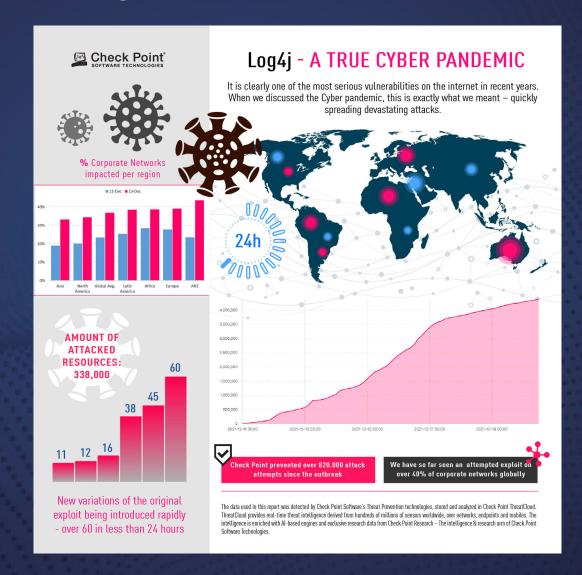
Contextual Parameters Network Exposure Runtime Protection Status Entity Status



Impact Parameters IAM Risk **Business Priorities**

Log4j use case – a true cyber pandemic

- Most popular java log library. over 400,000 GitHub downloads
- Used by a vast number of companies worldwide
- Easily exploited Remote Code **Execution (RCE)**
- Started: December 10th 2021
- CVE severity score: 10.0 / 10.0

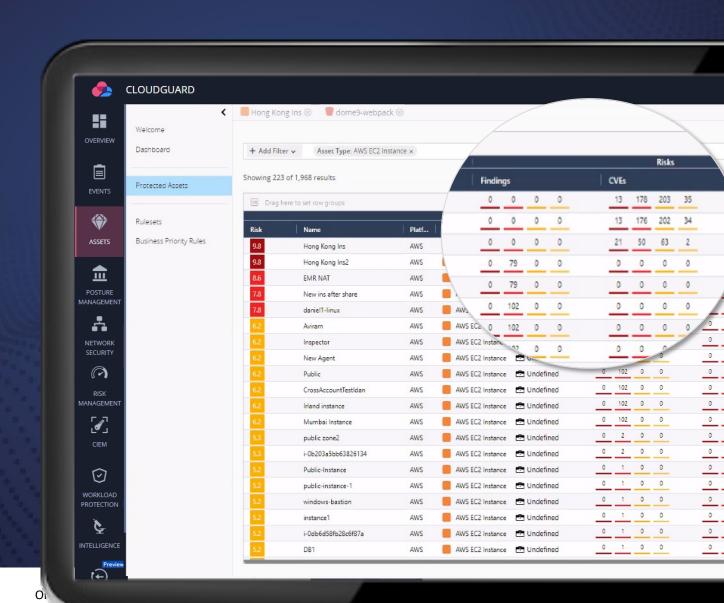


How to mitigate the next "cyber pandemic" in the cloud?

Find out if you are vulnerable

Vulnerability Management

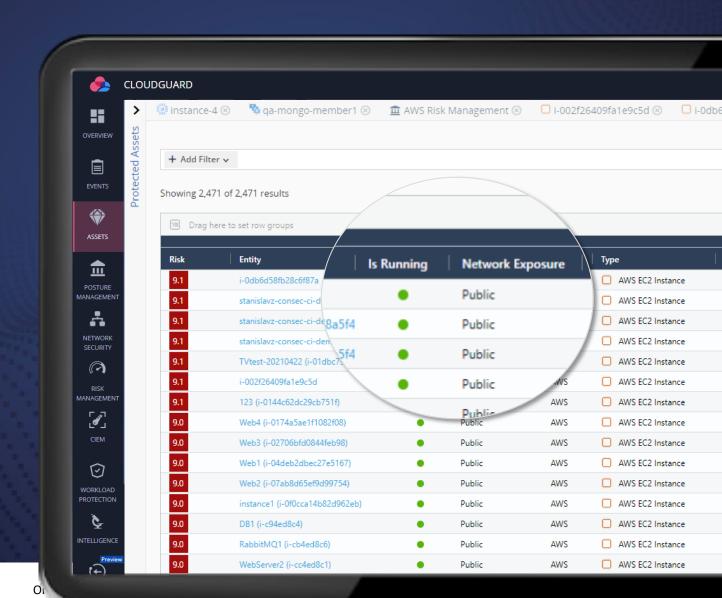
- VMs
- Container images
- Serverless code



Understand the context

Get answers to the questions

- Is it running?
- Publicly exposed?
- Runtime Protection enabled?
- Protected by the WAF?

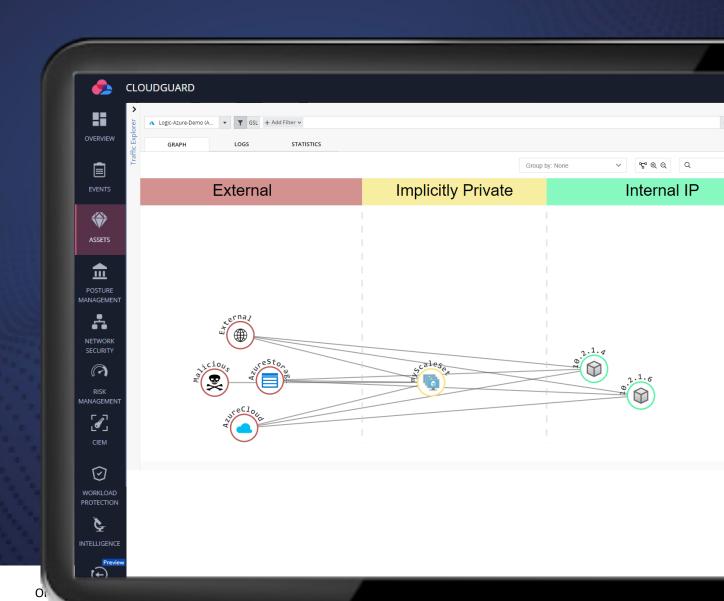




Understand the impact

Use CIEM and Intelligence to analyze

- Who has access to what?
- Excessive permissions?
- Any suspicious behavior?



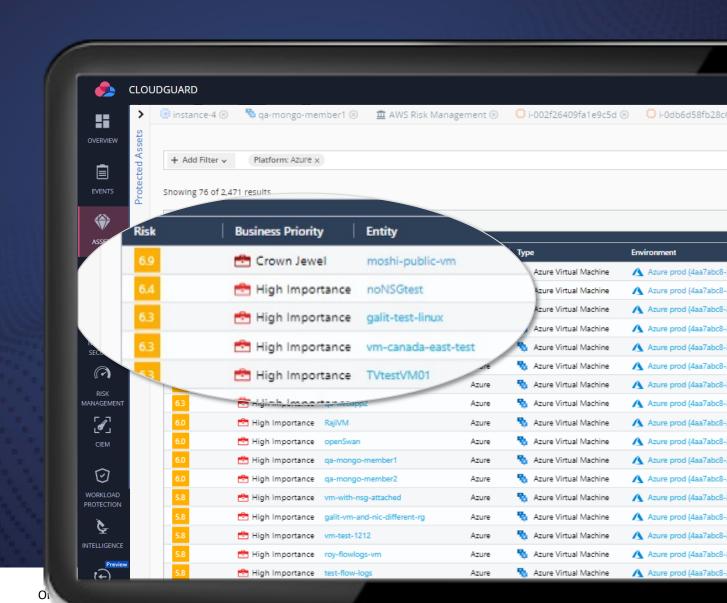


Understand the impact

Correlate with business priorities

Categorize assets based on

- Tags
- Cloud account
- Asset name

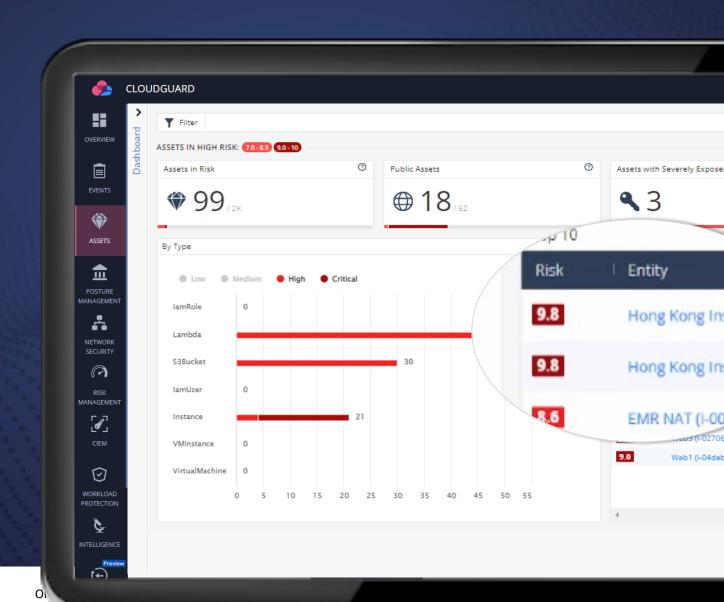




Final scoring to prioritize risk

Focus on the 1% of risks that matter

- Apply contextual AI and risk scoring
- Reduce attack surface with focus on the highest priority risks
- Auto-Remediate using the "minimal effective dose" principle



What other preventive measures can I take?

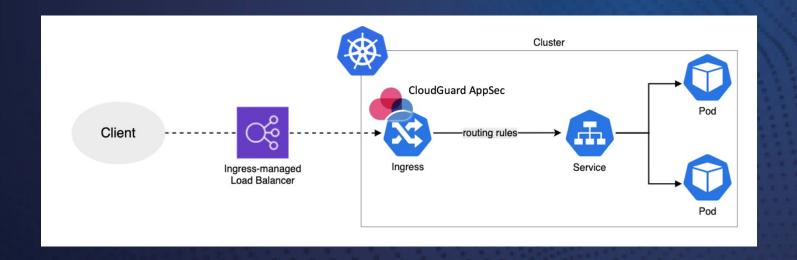
Use runtime protection for containers and serverless

Entity	Environment	Type ↑	Runtime Protection	Protection Mode
azurefunctiontest-chris	⚠ Christopher Dome9 demo 01 (d039a90b-ebd4-4439-b548-ecac32978	Azure Function App		
MyNewLambda-Elimo	▲ Logic-Azure-Demo (cc9f6b3f-a7b2-45a5-b259-be9a765aed96)	Azure Function App		
WinPrinter	▲ Logic-Azure-Demo (cc9f6b3f-a7b2-45a5-b259-be9a765aed96)	Azure Function App		
ServerlessSlackChatBot	▲ ServelessDemo (bf449c98-693c-4316-9da6-079f0851c458)	Azure Function App	Protected	Prevent
CovidStatsDemo	▲ ServelessDemo (bf449c98-693c-4316-9da6-079f0851c458)	Azure Function App	Protected	Detect
CloudguardServerlessDemo	▲ ServelessDemo (bf449c98-693c-4316-9da6-079f0851c458)	Azure Function App	Protected	Prevent
CloudguardScanScheduler	▲ ServelessDemo (bf449c98-693c-4316-9da6-079f0851c458)	Azure Function App		
ltayFunctionApp	A ServelessDemo (bf449c98-693c-4316-9da6-079f0851c458)	Azure Function App	Protected	Detect



What other preventive measures can I take?

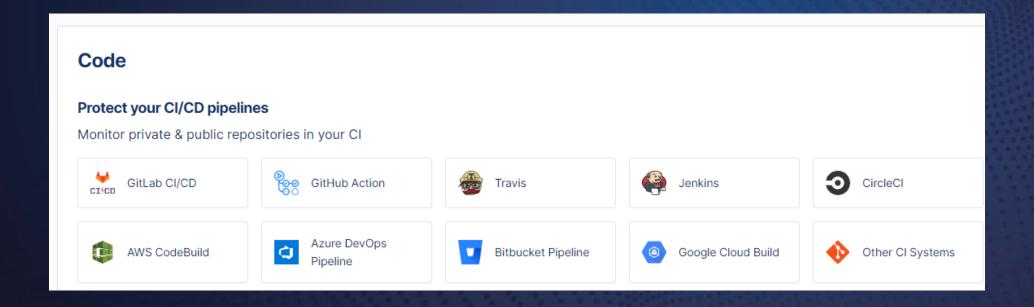
Apply WebApp & API security with pre-emptive protection against zero-days





What other preventive measures can I take?

Implement security at the build phase (shift security left)



Concluding thoughts

Use context to identify risks Integrated platform approach provides complete visibility for more context



Focus on the 1% risks that matter Prioritize based on business critical risk





Real-time prevention where you can Implement technologies that prevent attacks



Inank you!

