



ATOMICORP

## Workload Security with OSSEC

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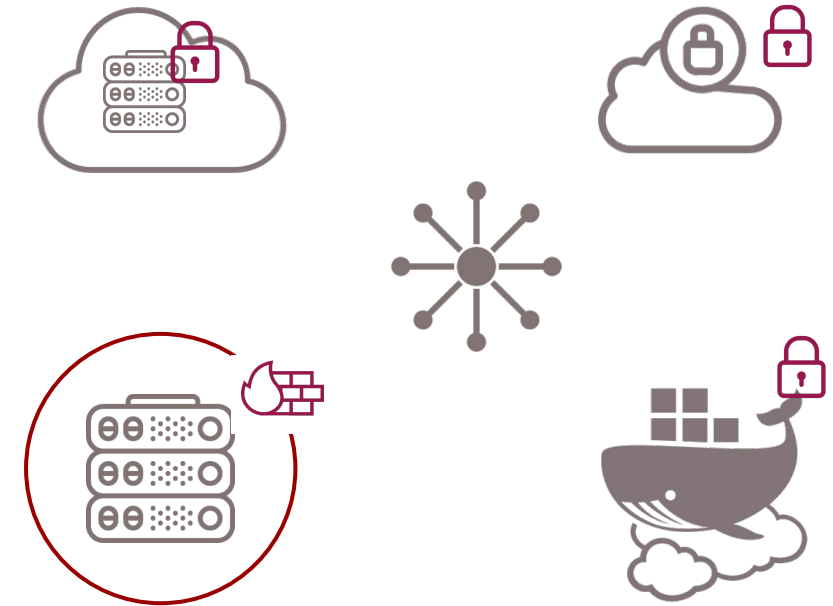
# Workload Security is Forever Changed

## Yesterday: A Secure Network of Servers



*Secure the Network to Protect the Workload*

## Tomorrow: A Network of Secure Workloads



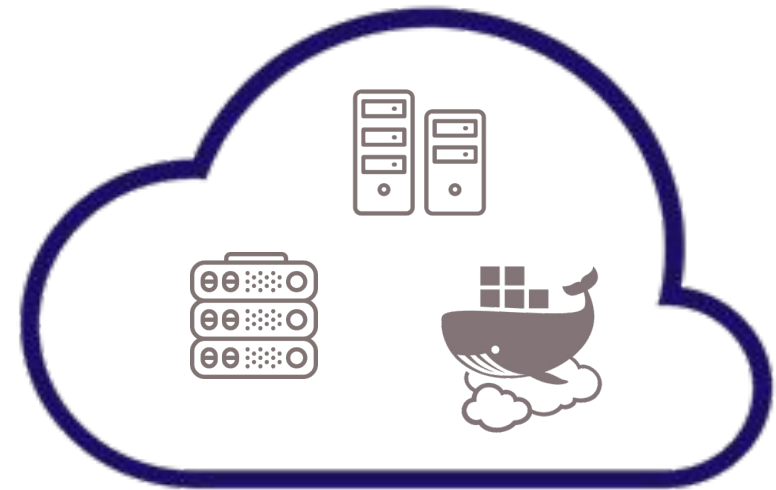
*Workloads Themselves Must be Secured*

# But I Thought My Cloud Provider Did That...

Cloud Provider: Security OF the Cloud



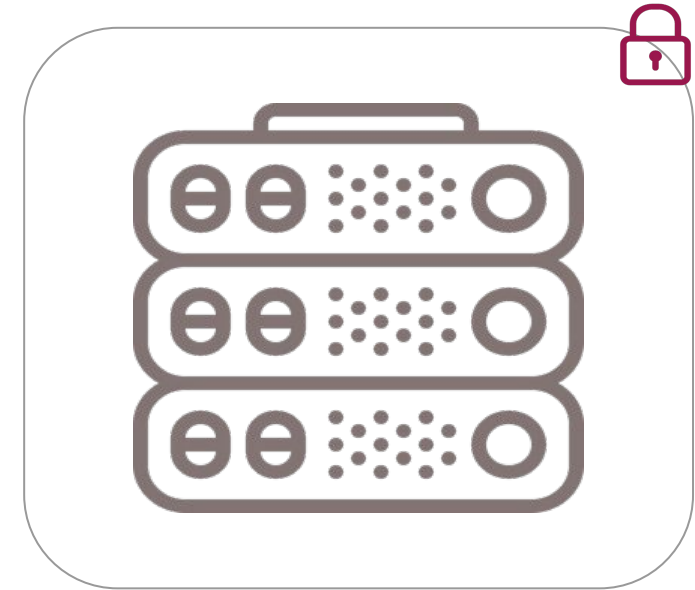
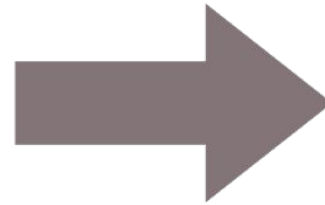
Customer: Security IN the Cloud



**Gartner**

“Through 2023 at least 99% of cloud security failures will be the customer's fault.”

# Security must be Baked in to Every Workload



**Gartner** *Market Guide for Cloud Workload Protection Platforms*

# Critical Requirements for Workload Security

## Comprehensive

Address key security and compliance requirements without requiring a suite of point solutions.

## Cross Platform

Protect workloads across physical and virtual machines, containers, and multiple public clouds with a single management interface.

## Cost Effective

Scale cost effectively in dynamic public cloud environments where costs are driven by resource utilization.

# Active response

Three way we find out about and respond to events in OSSEC

## Logs

*See Something, Say Something*

## External integration

*Let someone else handle it, but be informed*

Examples:

Atomic WAF, ClamAV, Integrator

## Internal Integration

*Do it yourself*

Examples:

syscheck, rootcheck

# Pros and Cons of internal integration

## Pros

Possibly more secure (isolation and separation)

Possibly faster

Better data



## Cons

Harder/Higher LOE :

- you have to write code
- you have to maintain it

Possibly less secure (monolithic)



# Pros and Cons of logs

## Pros

Quick, really really quick to integrate

Support for almost anything

No need to write code (easier)

Big Picture



## Cons

Security of stream, users injecting logs

Decoders

Obfuscation of attacks (eg web attacks)

Reliant on the ability of the application to “detect” an attack

Need to write a response mechanism

lack of logs :-) (FIM)





# Pros and Cons of external integration

## Pros

If they can generate logs/readable out (eg API), really quick integration!

No need to write code

Specialization (eg WAF, kernel)

Possibly more secure (isolation and separation)

Integration with other platforms/projects

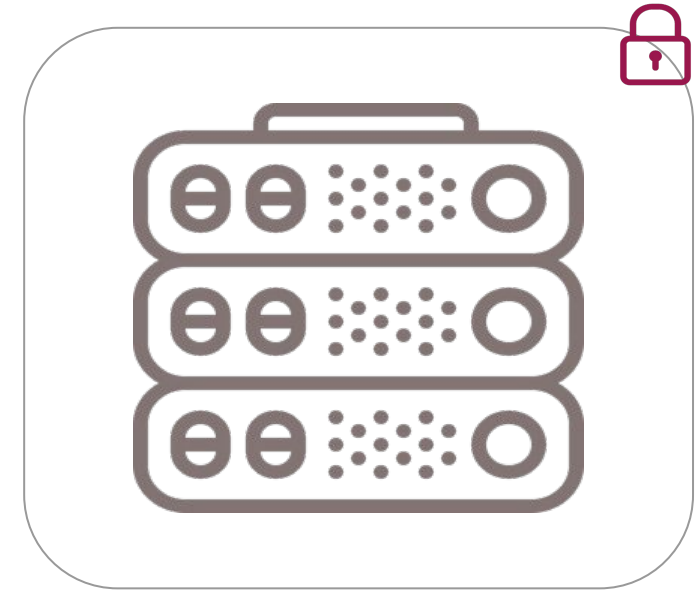
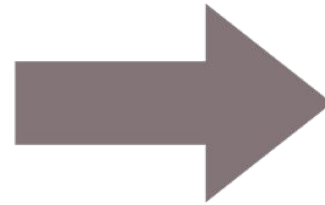
## Cons

If you're relying on logs, the same problems as logs

Synchronization (eg rule ids between projects, snort to ossec, modsecurity to ossec)

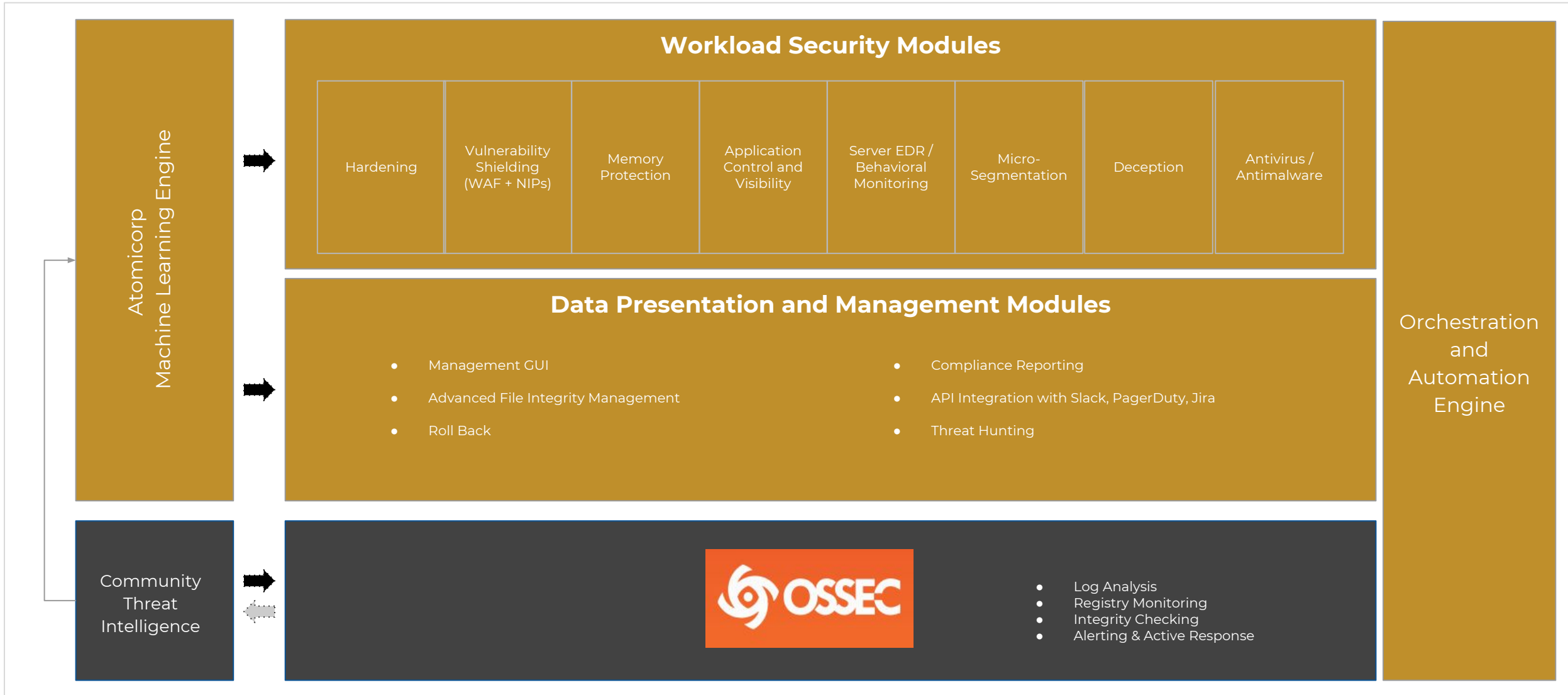
Overhead

# To Repeat Myself: Security must be Baked in to Every Workload



**Gartner** *Market Guide for Cloud Workload Protection Platforms*

# Atomicorp OSSEC Platform



Questions?