

RSA®Conference2018

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SESSION ID: PDAC-T10

PROTECTING CONTAINERS FROM HOST-LEVEL ATTACKS



#RSAC

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PANELISTS:

Ambuj Kumar

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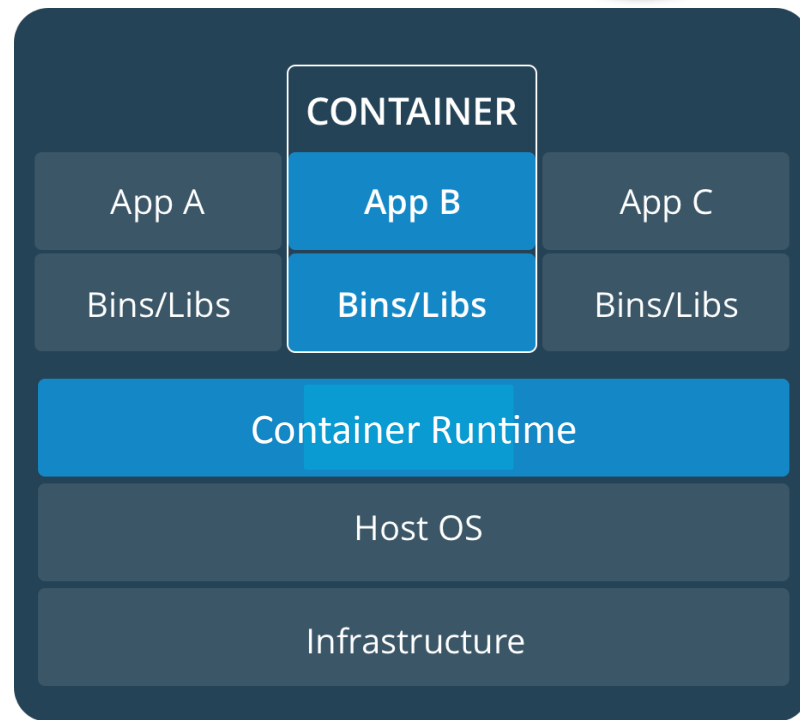
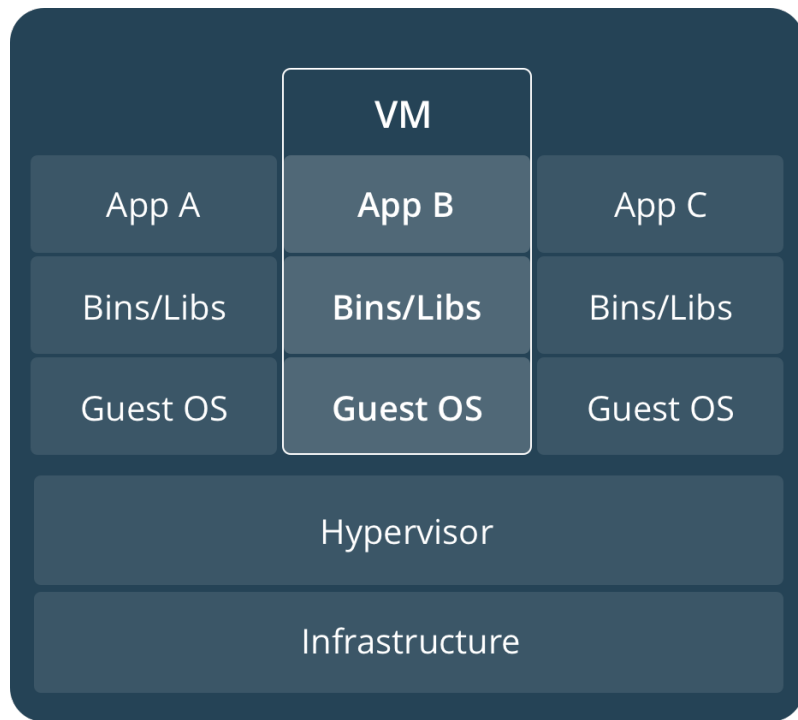
David Lawrence

Security Lead
Docker

[@endophage](#)



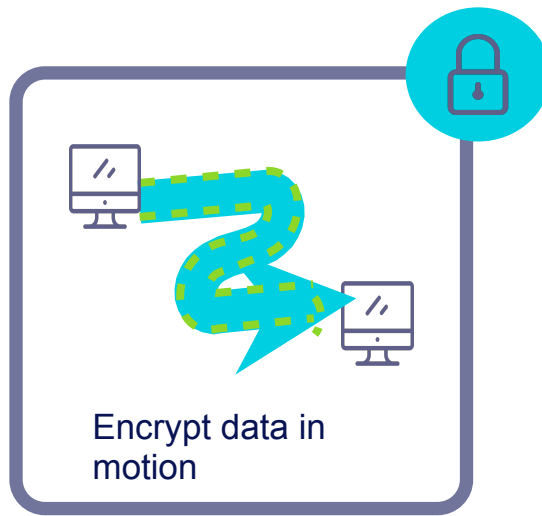
What are Containers?



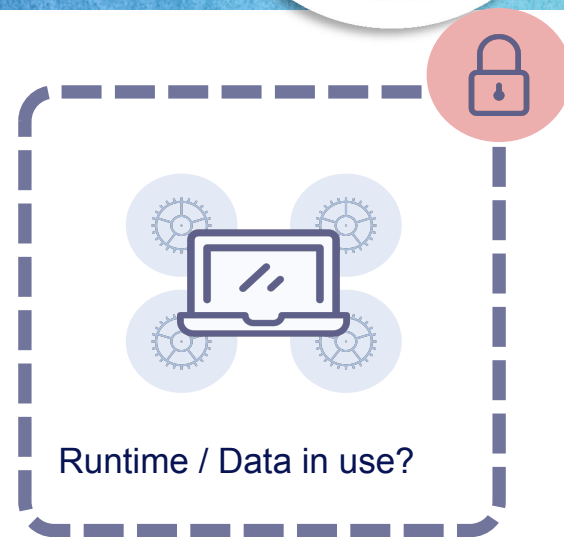
Missing gap in data protection



Prevent disk theft and
image theft



Prevent snooping and
unauthorized accesses



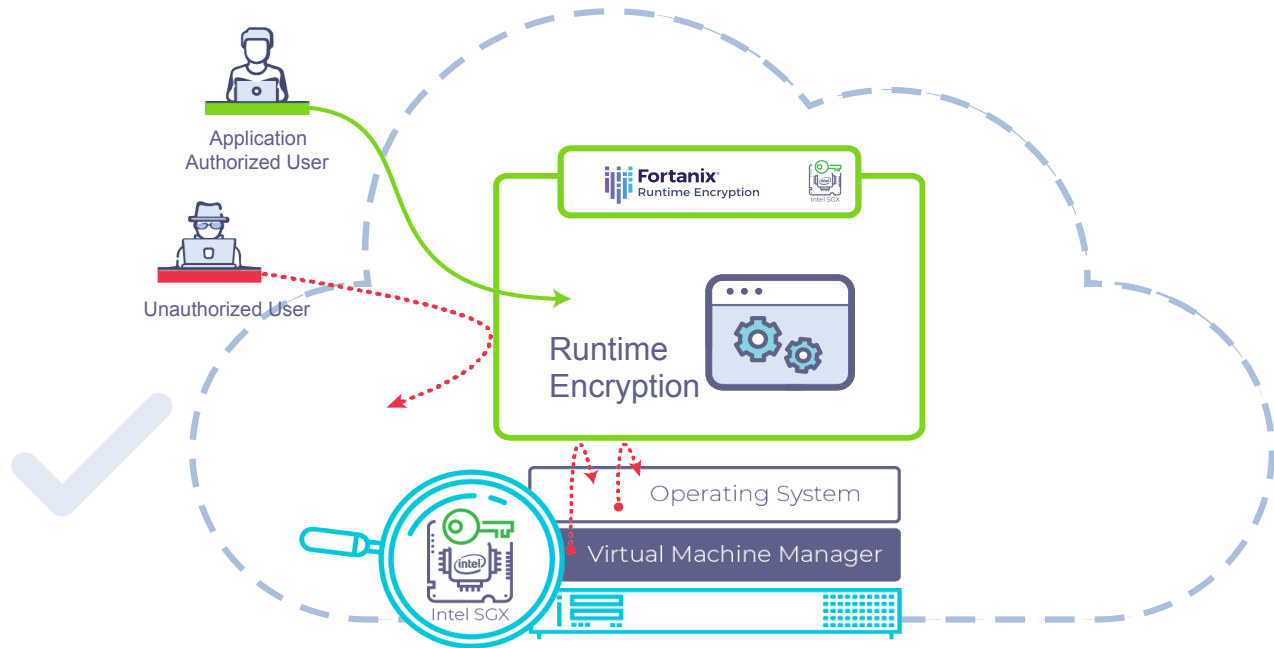
Vulnerable to misuse from
attackers and insiders



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Protect Data in Use: Runtime Encryption and Intel SGX



PAYMENTS



DATABASES



KEY MANAGEMENT



AI/ANALYTICS



BLOCKCHAIN

- Intel Software Guard Extensions (SGX) technology runs apps inside secure enclaves
- Runtime Encryption protects applications even when the infrastructure is compromised



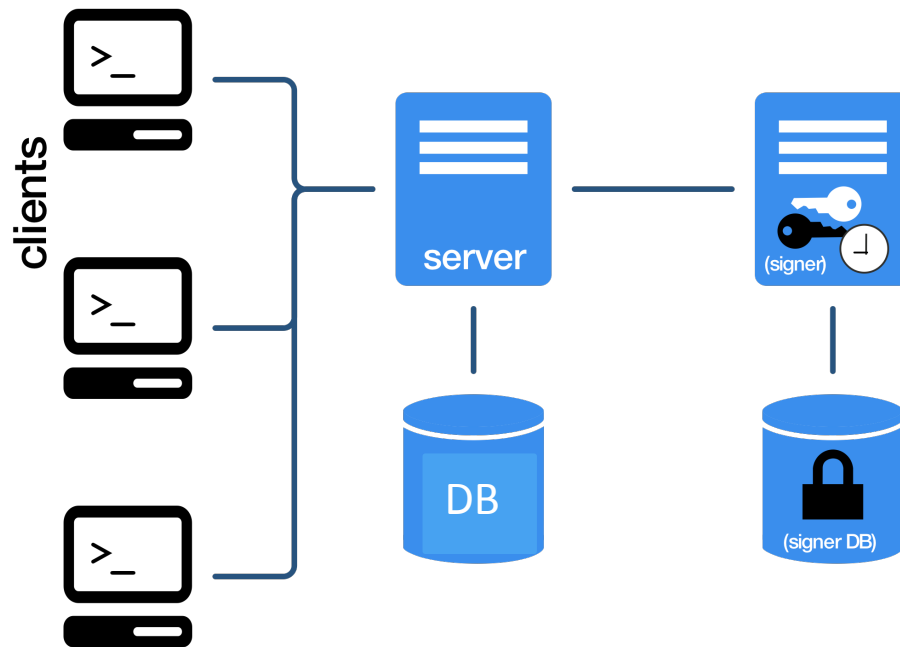
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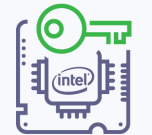
Data in Use Protection for Apache Webserver



Notary Architecture



Docker Notary



Intel SGX



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Q&A

Apply What You Have Learned Today



- Identify which containers you run today need runtime encryption
- Learn more about Intel SGX – visit the Intel booth at RSA
- Research cloud providers with SGX support – IBM Cloud, Microsoft Azure, and Equinix

