

CLOUDNATIVE
SECURITYCON
NORTH AMERICA 2024

JUNE 26-27 | SEATTLE, WA #CNSCon

SaaC

- Security as a Culture - The Distributed Advocacy

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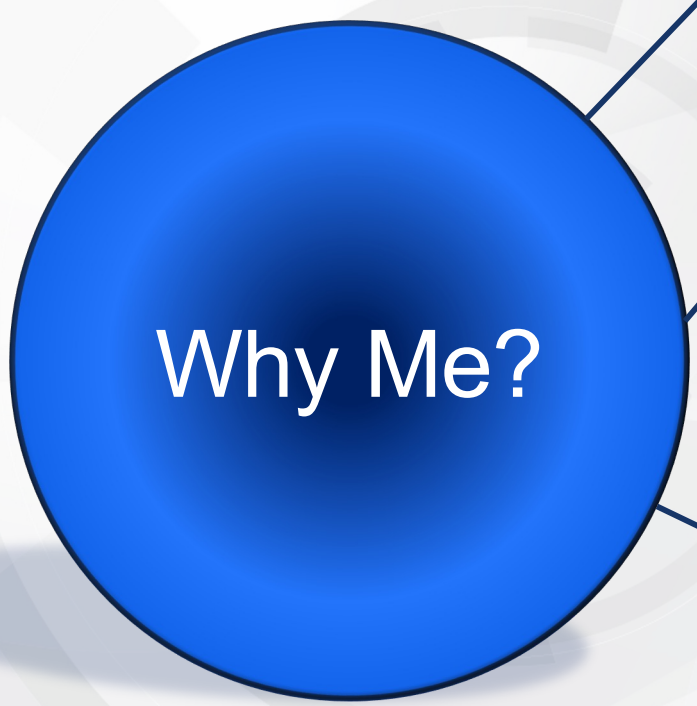
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In the past

- Fiber in the loop
- GMPRS
- DSLAM
- Ethernet Switching/Routing

Now

- System, Software, and Application Security

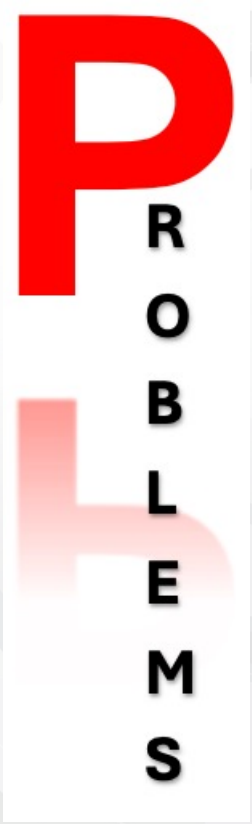


Security Architect, Developer, Champion

Standalone, Kubernetes Cluster, On-Prem/Cloud

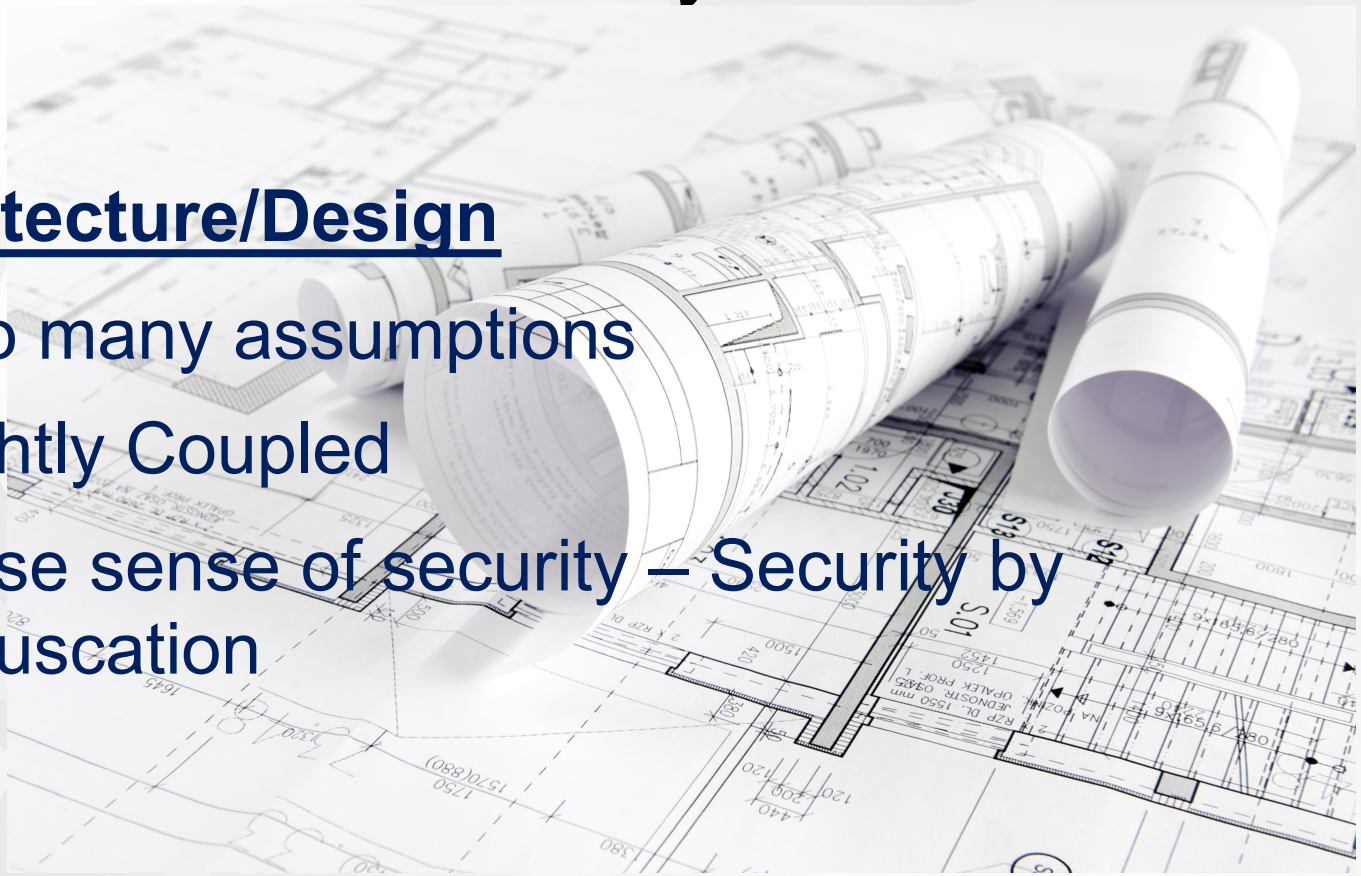
End-to-End Security

Why Security Advocacy? Common Problems



- Secrets - Password, Keys
- AuthN, AuthZ, APIs
- Ciphers, MACs, KexAlgos
- Webclient-Server
- Containers/Pods

Genesis of Security Issues

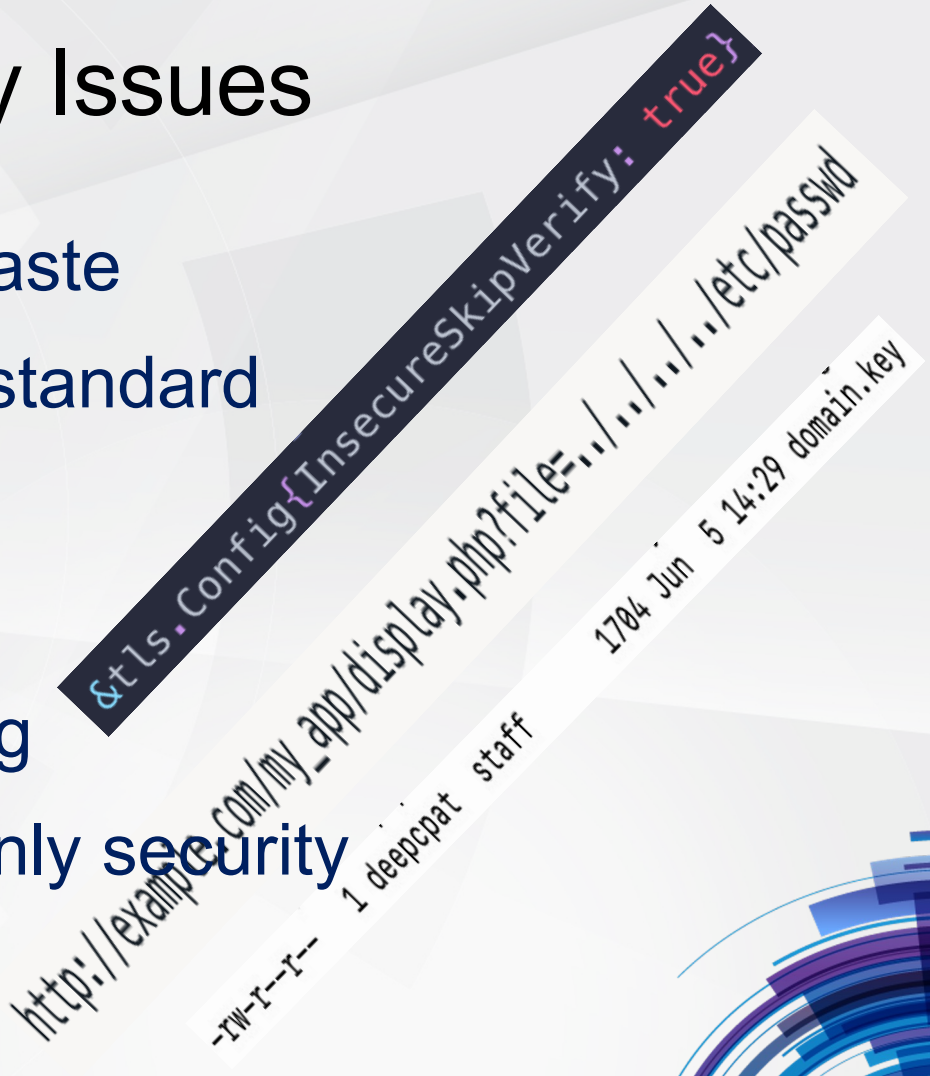


Architecture/Design

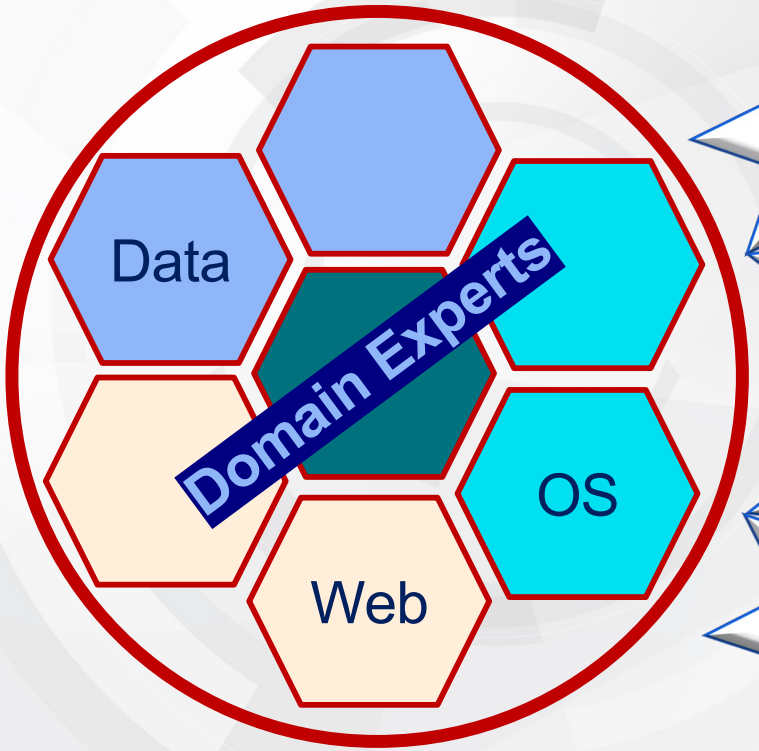
- Too many assumptions
- Tightly Coupled
- False sense of security – Security by obfuscation

Genesis of Security Issues

- Borrowed code / Cut-n-Paste
- Bad example – De facto standard
- Collateral damage
- Lack of guidance
- Developers' bias in testing
- No security framework, only security bug fixes

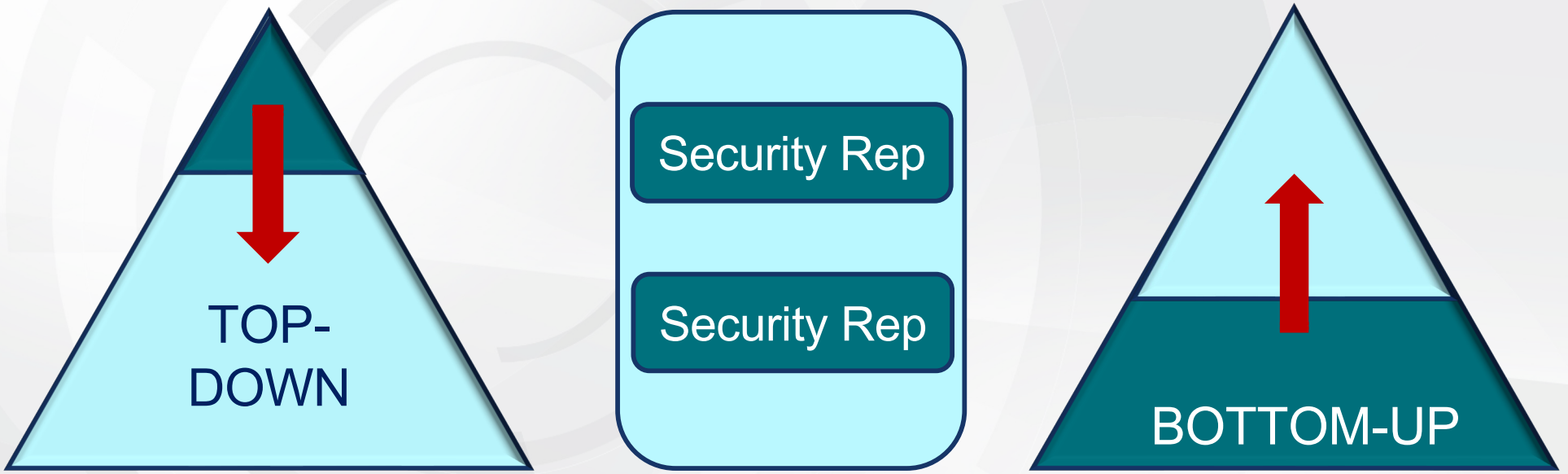


A Typical Team Composition

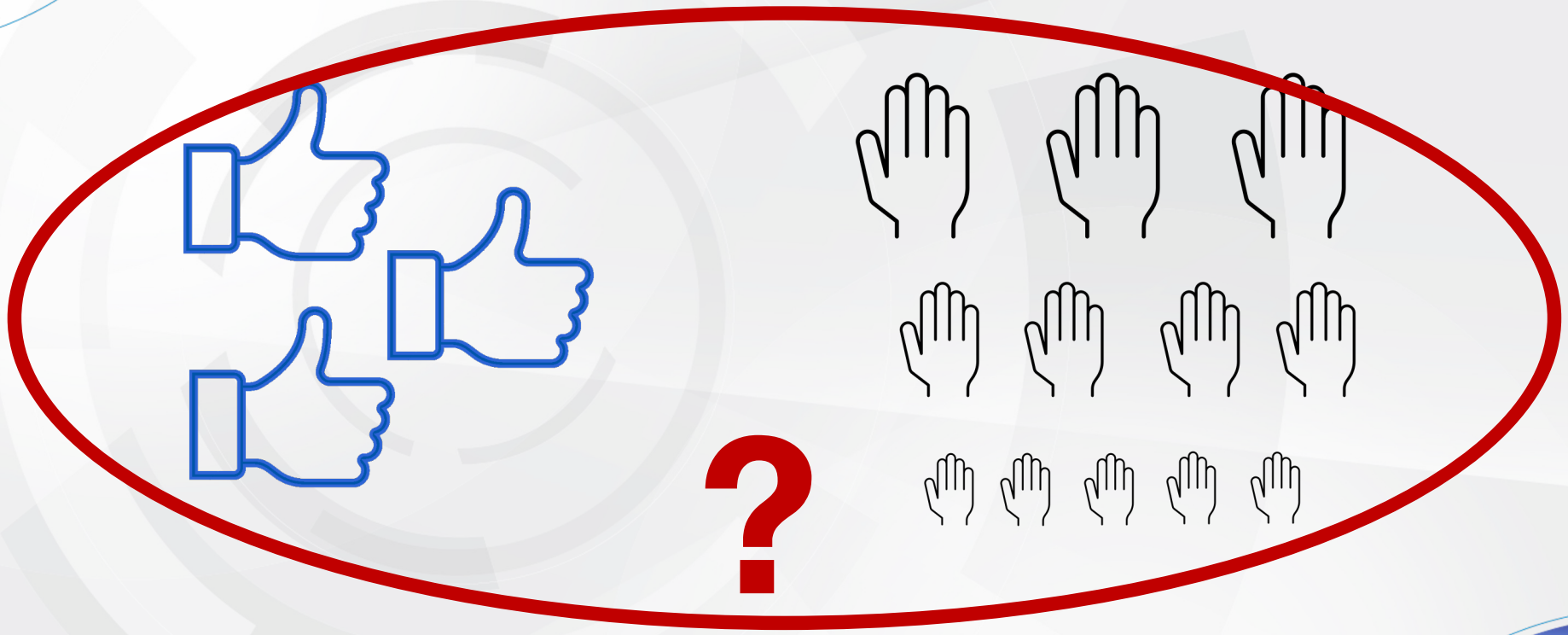


- Not Security Experts
- Core functionality focus
- Security is a mere layer
- Product vs Security

Typical Approach(es)



Committed vs Others



Human Psychology – Something inherently good about it



- Security is ‘COOL’
- Birds of feather flock together
- Team of Heroes vs a few Saviors
- Variety of exposures, skills
- Individual shame vs collective responsibility
- Rope in Dev, QA, Field

What should you do for The Distributed Advocacy

LEADERSHIP

- No Top-Down
- No Security Layer
- Time and Resources

DEVELOPERS

- Spread the Knowledge
- Share the Blame
- No Heroes or Zeroes

Above creates a culture – SaaC!



Conclusion

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Issues can add up quickly!

Bottom-up works!

Adding is awesome

nt pool

SaaC

Distributed Advocacy a winning proposition


Q & A
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Thank you!