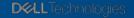


# Security Domains-And Why We Need Them

Michal Davidson

Conf42 DevSecOps 2023



Internal Use - Confidential

### Michal Davidson



Software & Security Architect NDS, HP, IBM, Cisco, Synamedia Msc. CS in Cyber Security

Lecturer – Cyber Security JerusalemCollege of Technology, Azrieli College Courses: Intro to Cyber Security, Agile SDLC

Software Architect @ Dell Technologies Leading Public Cloud & Security for PowerRex

# Security Domains



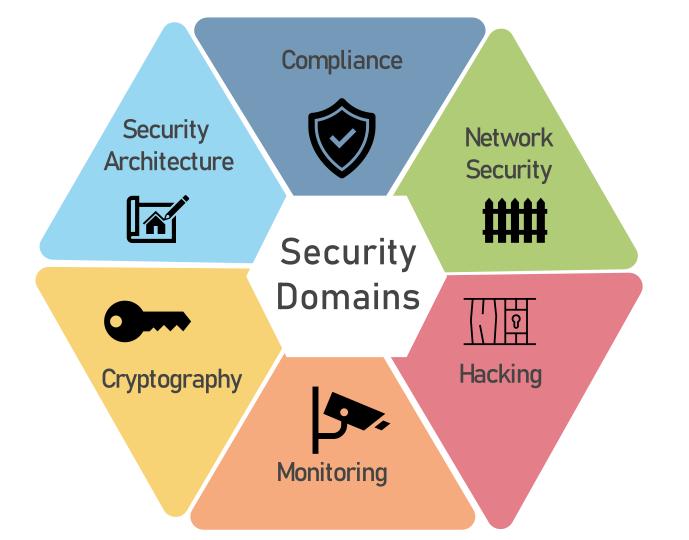
# Motivation



**Diversity** 

Career & Community

Holistic Security





#### Compliance –3<sup>rd</sup> Party Standards

- FedRamp
- E0
- SOC 2/3
- ISO 27001
- DISA STIG
- HIPPAA
- PCI-DSS
- EL1-3
- GDPR



#### Protecting Network, Data & Resources



Authenticating -> Who? Authorizing-> What? Why?

**Firewalls** 





#### Monitoring- Detecting Cyber Threats & Breaches

- Anomaly Detection
- Intrusion Detection System (IDS)
- Intrusion Prevention System (IPS)

Expertise: Data Science, A.I, M.L.

Techniques for Secure Communication & Info Math & Algorithm Based





Protection, TPM

Embedded

Security

Secure Boot

TEE Cryptanalysis

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Cryptography = Foundation of Cyber Security



Security Architecture



Using security elements to enforce security policies within and between domains

ڑ ک Security Review \ Threat Modeling



Secure Protocols

- SSL\TLS
- IPSec

...

Using Security Building Blocks

Identifying & exploiting weaknesses in a computer system/network





**Pen-Testing** 

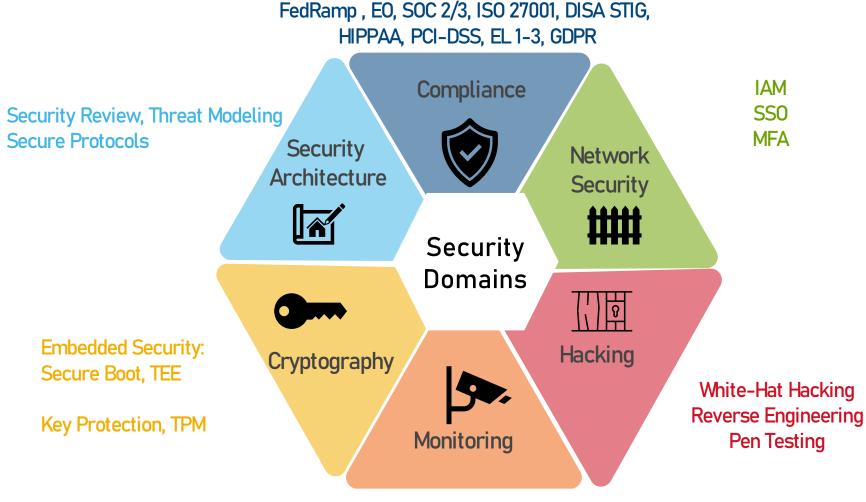




Reverse Engineering

### Time & Patience Required!





Anomaly Detection, ML, IDS & IDP

## **Additional Resources**

- Cryptography (Coursera)
- <u>Software Security (Coursera)</u>
- Penetration Testing & Ethical Hacking(Cybrary)
- Taimur Ijlal- Cloud Security Guy (Medium)
- Prof. Bill Buchanan (Medium)

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## Thank You



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