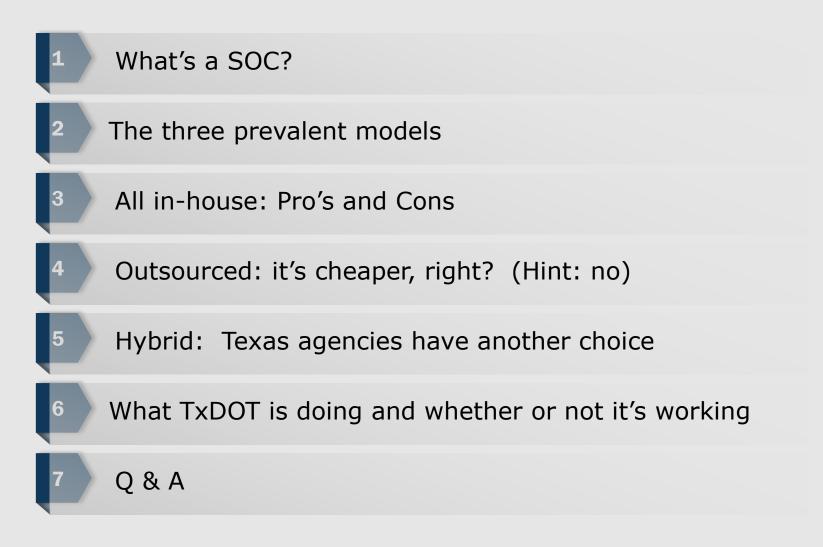
Cybersecurity Operations : *To Outsource or not Outsource?*

John Skaarup, CISSP, GSLC Cybersecurity Officer Texas Department of Transportation





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An information security operations center (ISOC) is a dedicated site where enterprise information systems (web sites, applications, databases, data centers and servers, networks, desktops and other endpoints) are monitored, assessed, and defended.

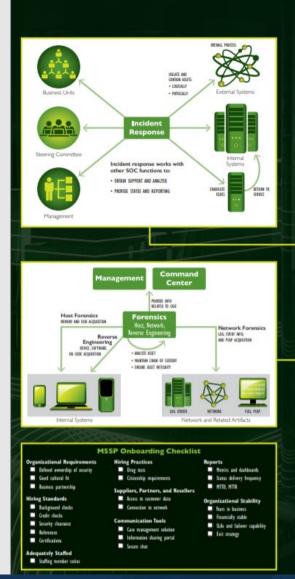
- Wikipedia "Security operations center"

It's where all the zombie techs turn the geek knobs

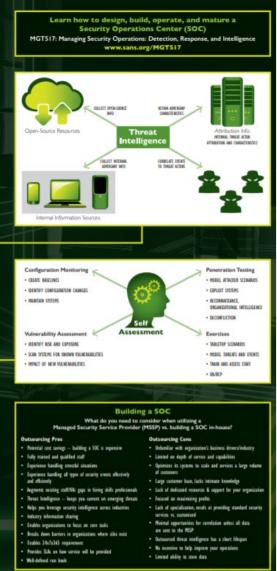


WHAT DO SOCS DO?

Security Operations Center (SOC) Essential Functions







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Network Security Monitoring Incident Response Forensics (or investigation support) Threat Intelligence



Internal / External / Correlation Events

Self Assessment

Config monitoring / Vulnerability Assessments / PenTests / Tabletop exercises, etc

Command Center Operations

Reports / Budgets / Daily management

Virtual SOC Multifunction SOC/NOC Co-managed SOC Dedicated SOC (in-sourced) Command SOC SOC-as-a-Service State of Texas Hybrid Model More as marketers are able to create them

Five Models of SOC







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Expensive



Talent

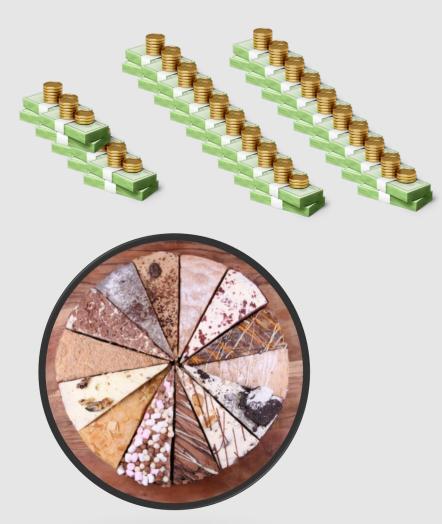


ALL IN-HOUSE: PROS AND CONS



Cheaper

Talent



- Lack of ownership: You're company is a `one-of-many' client that may not have the priority you think you do.
- Depending on where you are on your organizational chart, others may dictate your policies and/or your monitoring strategy



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"This is a major project of utmost importance, but it has no budget, no guidelines, no support staff, and it's due in 15 minutes. At last, here's your chance to really impress everyone!"



SUBCHAPTER C. NETWORK SECURITY CENTER

Sec. 2059.101. NETWORK SECURITY CENTER. The department shall establish a network security center to provide network security services to state agencies.

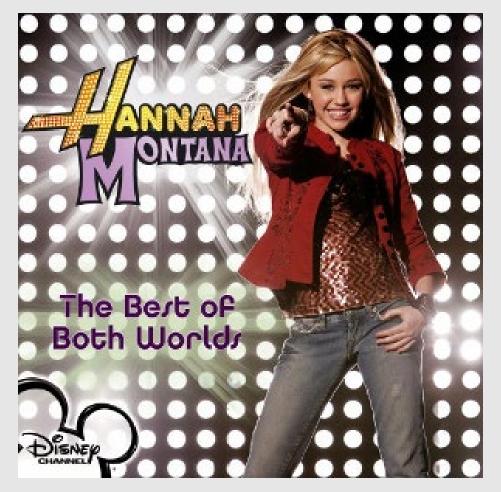
• NSOC was authorized by the Texas Legislature in 2007

HYBRID: BUILT TO NEED



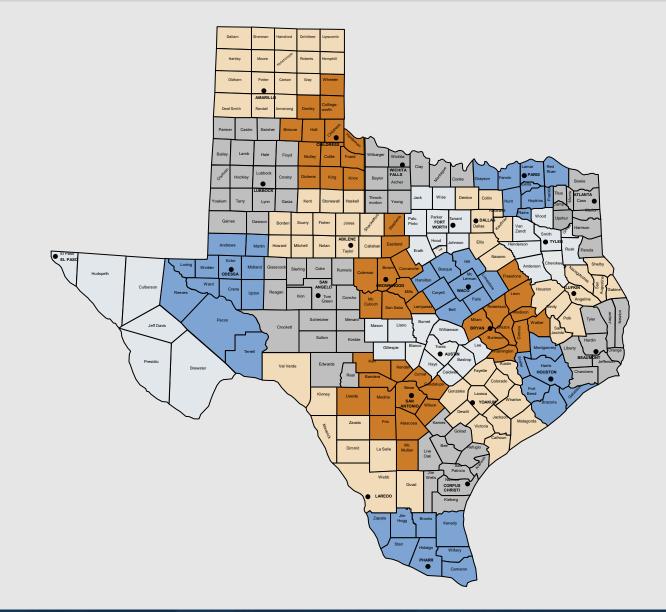
• Hybrid model to build a "best of both worlds"

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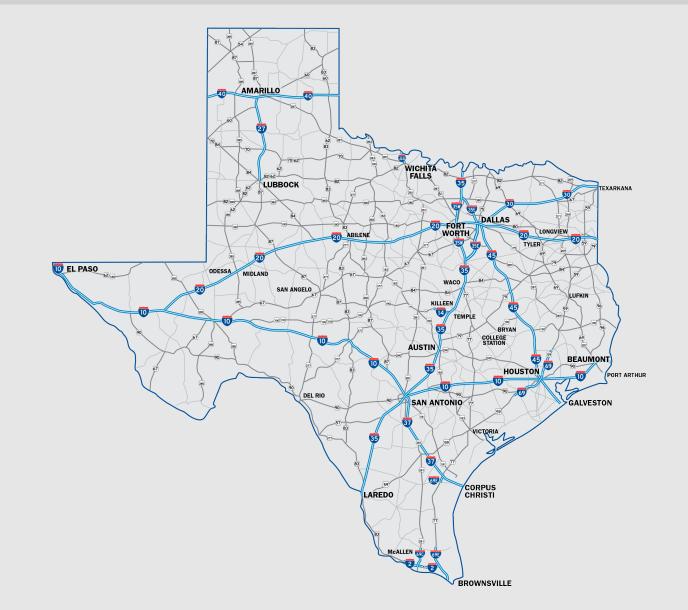


- Hybrid model to build a "best of both worlds"
- Scalable cost applicable to our mission/funds
- We wanted on-site personnel (ownership) that could be incorporated into the business
- Also wanted affordable 24/7 operations
- Apparently, the bad guys don't only attack while we're at work
 - -Rude

TxDOT districts



Texas Transportation System

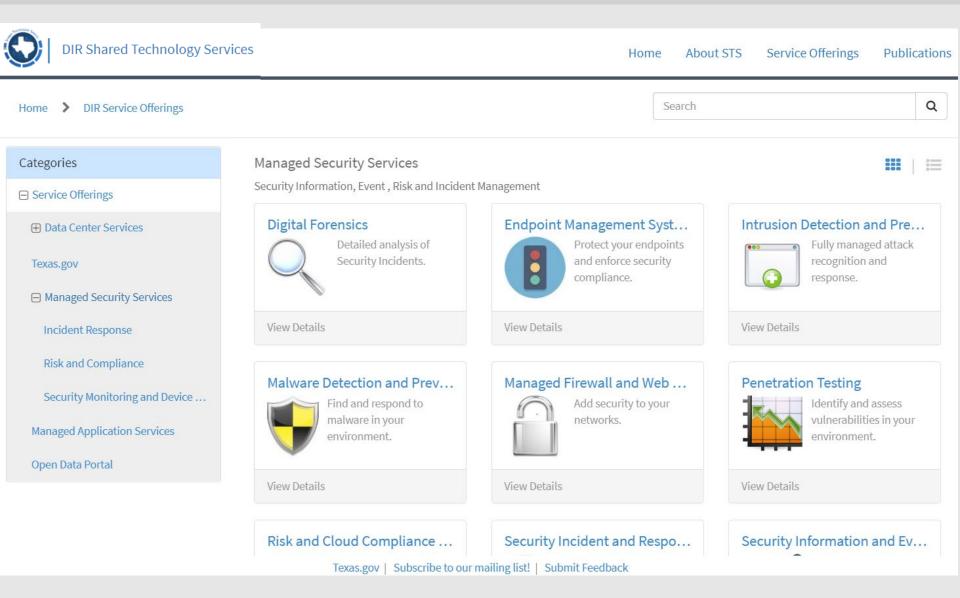


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DISCUSSION

