

GENERAL USE

Down with the CISO



DATADOG

The history of the CSO

Etymology of:

In 1989, [according to](#)
[Gizmodo](#), a word
entered the English
lexicon: cybersecurity.



Creeper

"I'm the creeper, catch me if you can!"

Bob Thomas - 1971

Reaper

(No cool tagline)

Ray Tomlinson - 1971



Information security as we know it today.

Violette Szabo.

'Carve Her Name With Pride' (1958), is a largely accurate portrayal of Szabo's wartime life, after the book of the same name.



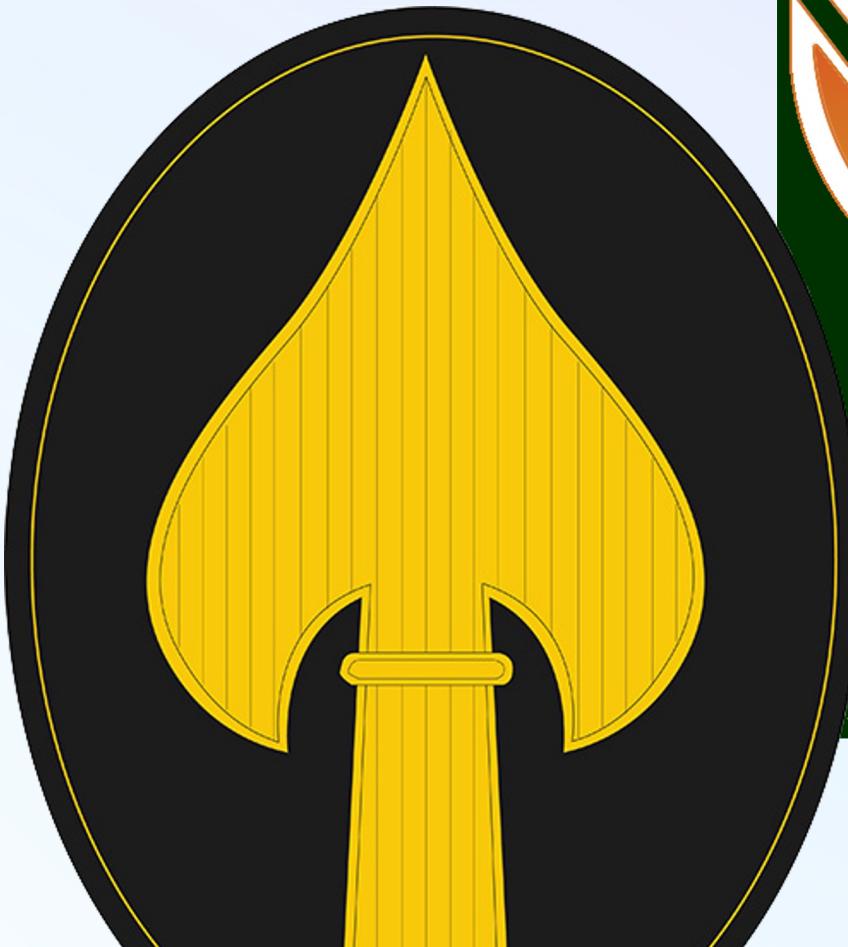
SOE and OSS

SOE

Special Operations Executive

OSS

Office of Strategic Services



SOE and OSS

Between Silk and Cyanide:
A Codemaker's War, 1941-1945

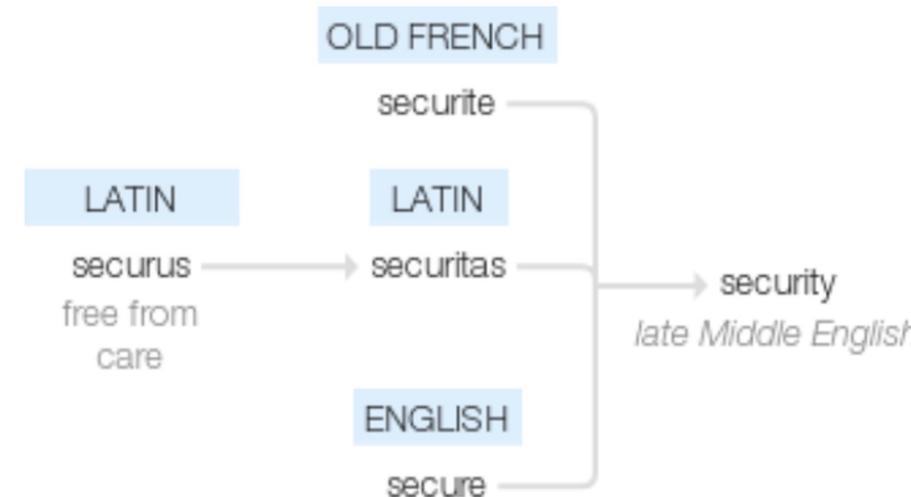


Etymology of:

Security

‘free from care’

Origin



late Middle English: from Old French *securite* or Latin *securitas*, from *securus* ‘free from care’ (see secure).

Security

Risk

Physical Injury

Attack

Failure

Development

Risk

Chief Information Security Officer

What does it mean today?

Creeper

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The Silos



Development



Security



Operations

Security

Risk

Physical Injury

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Operations

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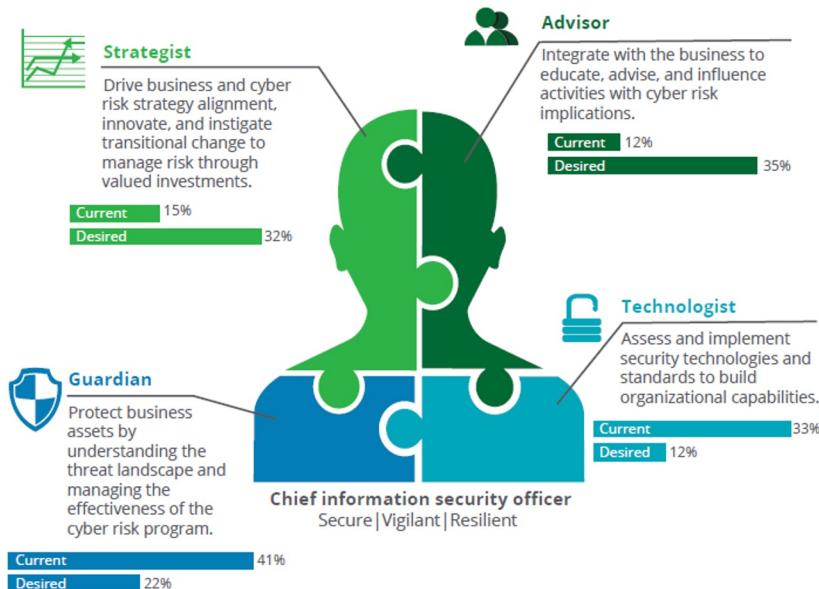
Failure

Development

Risk

What Skills does CISO need.

Skills List



Skills Desired

Strategist : 32%

Advisor : 35%

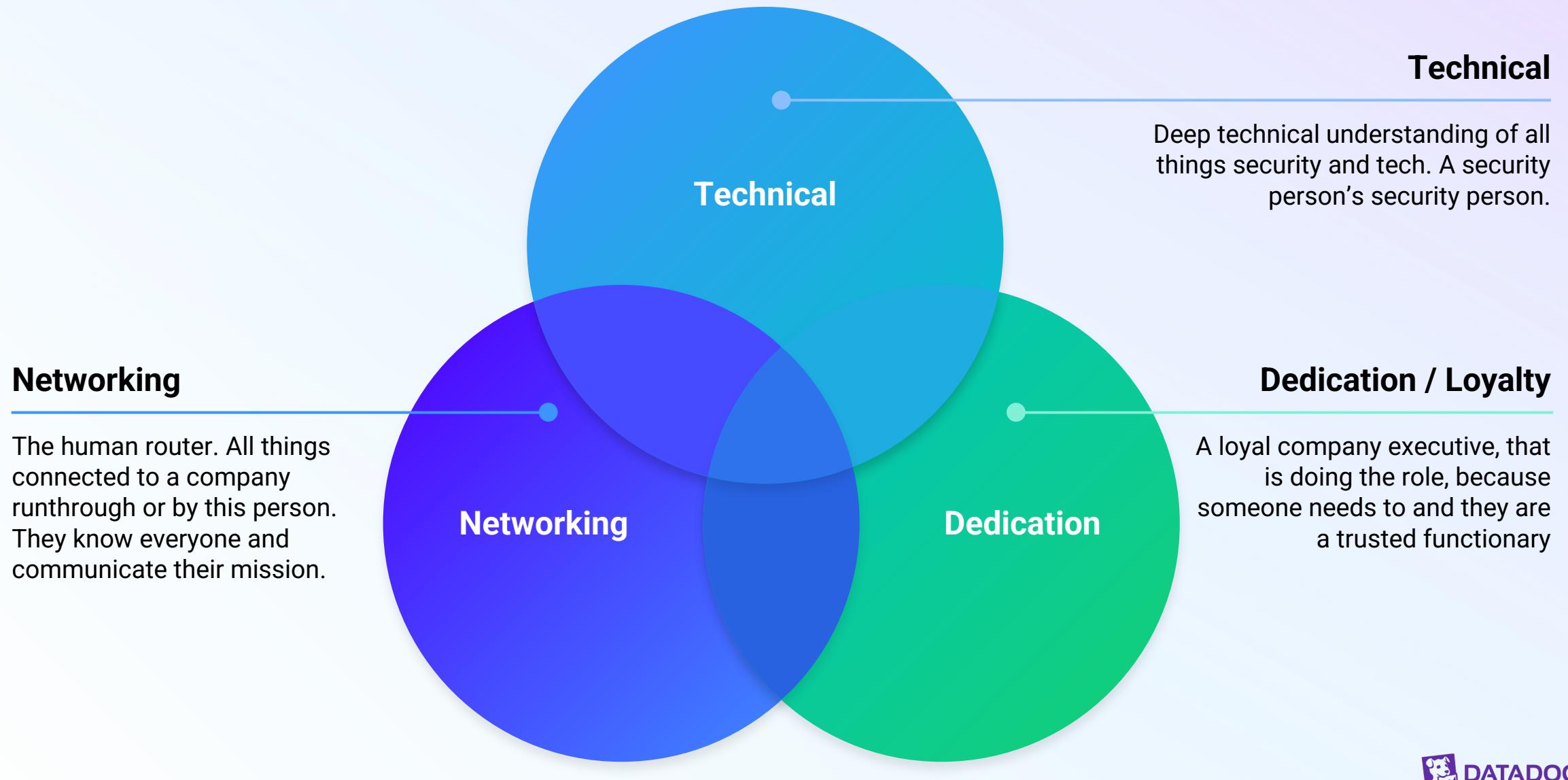
Technologist : 12%

Guardian : 22%

Currently :

Guardian : 41%

What skill does a CISO need?



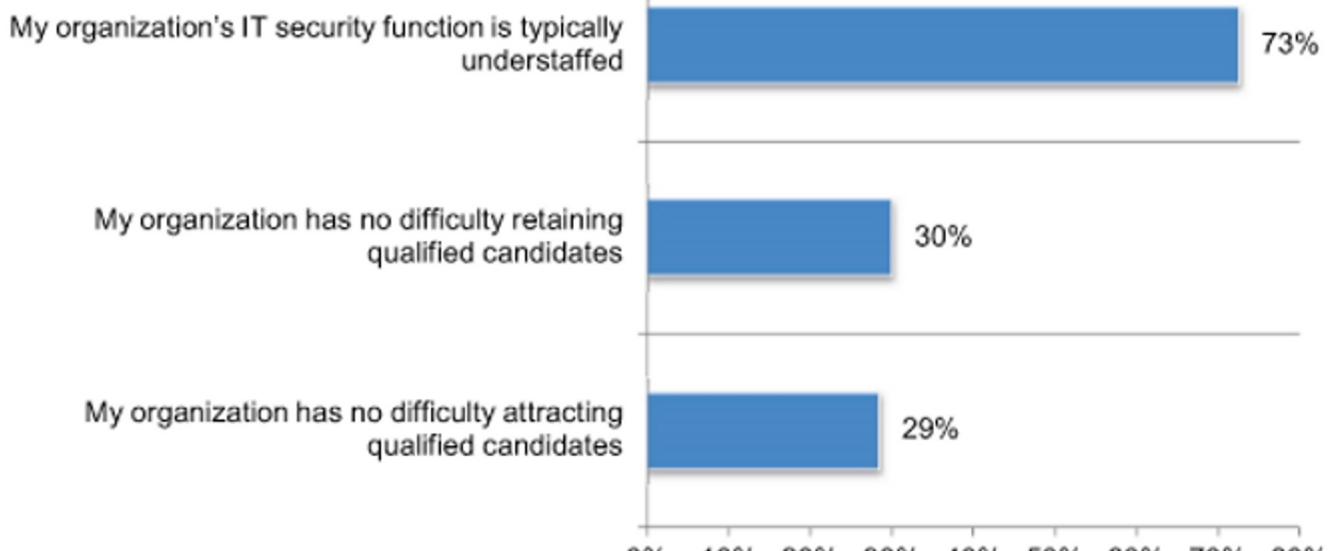
Metrics: Security

Longevity : 8 months to 1.5 year

Burnout : 48% (nbc)

Security Team Burnout : 85%

Strongly agree and Agree responses combined



Source Ponemon Institute, 2019

The Silos



Development



Security



Operations

Silos and the abdication of security

The plan for failure.

The Silos



Development



Security



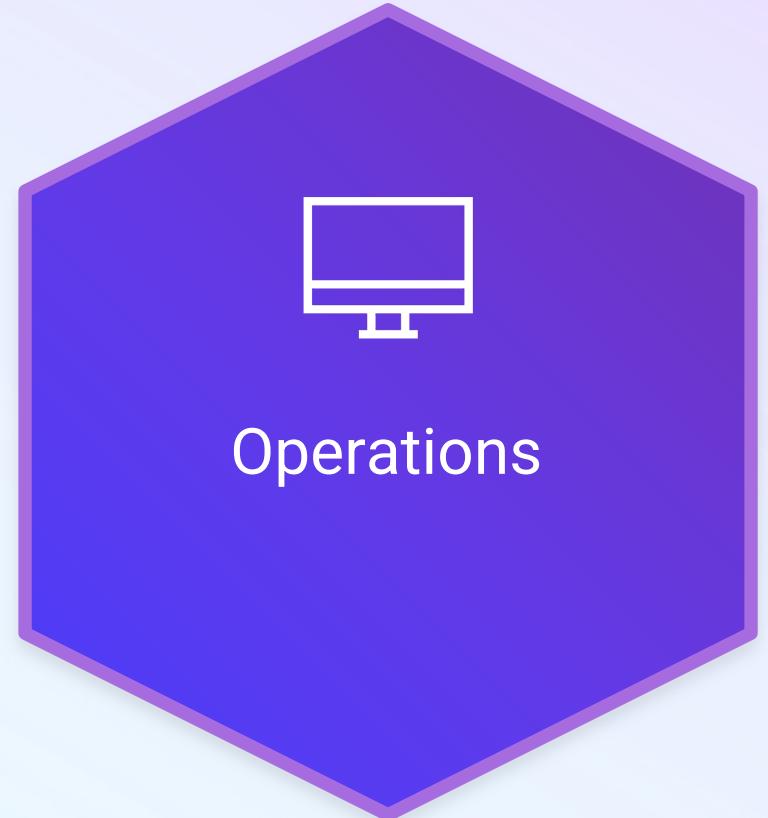
Operations

The Silos



Development

The Silos



The Silos

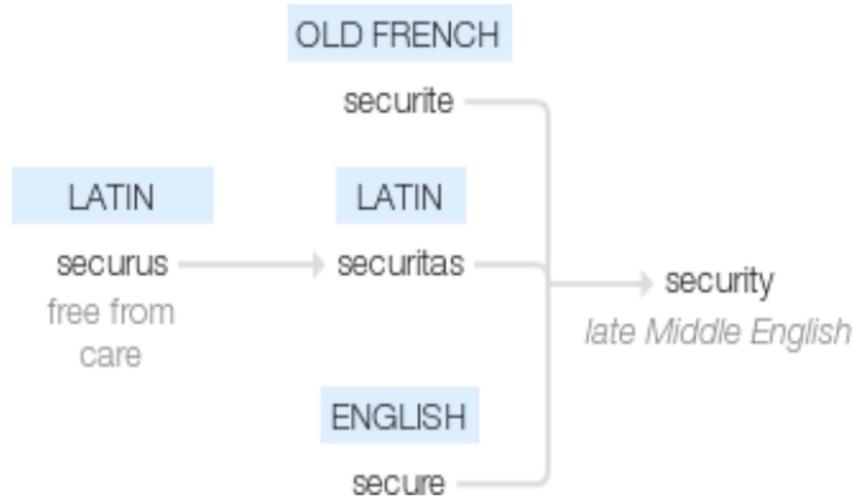


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How many Security engineers are there in the US?

Management occupations (18,564,000)

Business and financial operations occupations (8,578,000)

Computer and mathematical occupations (5,603,000)

Architecture and engineering occupations (3,169,000)

Life, physical, and social science occupations (1,627,000)

Community and social service occupations (2,717,000)

Legal occupations (1,882,000)

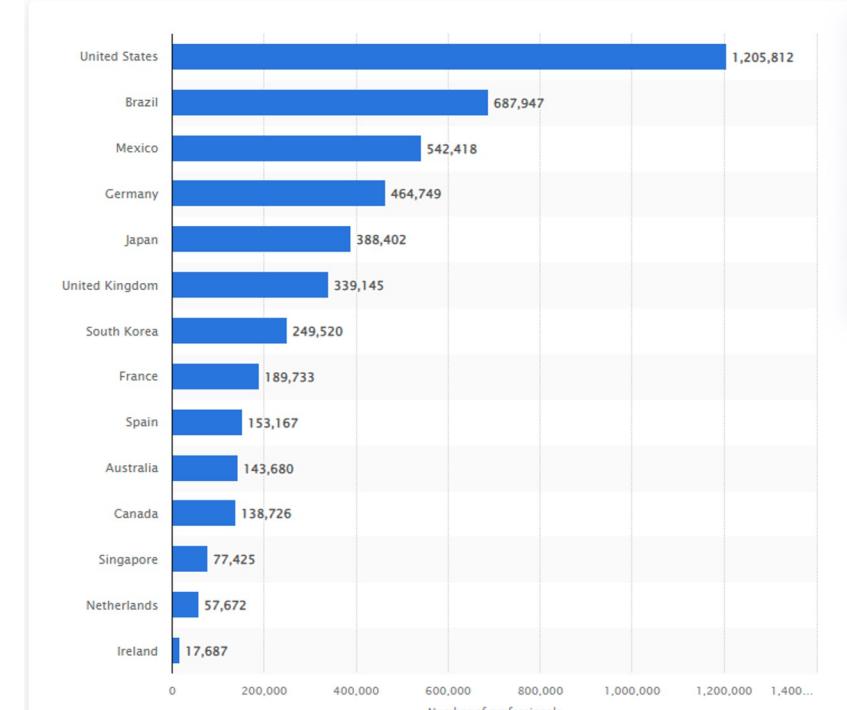
Education, training, and library occupations (8,902,000)

Arts occupations (3,042,000)

Healthcare practitioner and technical occupations (9,559,000).

88.4 million people

Size of cybersecurity workforce worldwide in 2022, by country



Collapse statistic

© Statista 2023
Show source

How many Security engineers are there in the US?

1.2 million security people / 88.4 million people = 1.3% of the workforce

You are outnumbered.

So what.

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The way forward - Recapturing Security

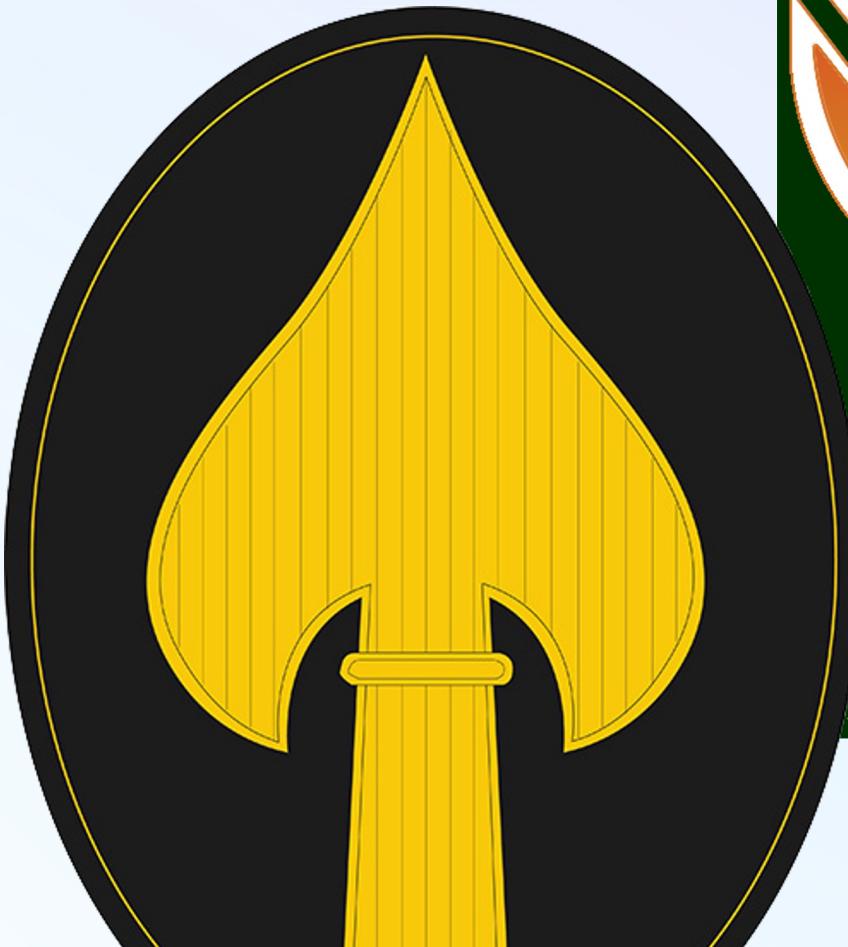
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Inclusion, does not mean:

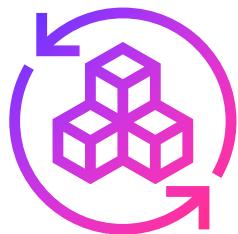
Warning signs:

- “Cultural Fit”
- “No Background”
- “Needs to learn our lingo”
- “This is a huge risk”
- [A-Z*0-9] Regulation
- Aggressive commanding tone

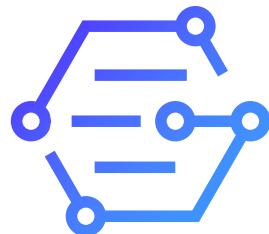
- Making security approachable
- Use words that don't sound military
- Build a dictionary
- Define a process to change
- Embrace it
- Engage

DevOps + Sec

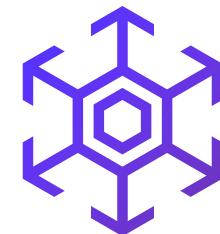
Building Security back into your development org, means enabling observability and tooling for Development. Not telling them what to do. Your Security team is your development and Operations team.



Metrics are visible to everyone



Visibility into the full stack, for everyone



Control and Compliance agreement with
input from everyone

Observability is key.

Observability is the first step on the path to security in development.

- Teaching Everyone in your company to be actively involved in security is key
- Building ways to engage everyone
- Functional requirements in stories that include building observability based on threat models
- Everyone gets a seat at the table.

Reliability is a community goal. (response)

Everyone is involved in the response to an event. Regardless of event being a security or any other kind of event.

- Development teams include security
- Remember that because of the attacker tactics, attack will look like actual employees
- All events are just events and not designated security or not until proof is available
 - Often this mean you have to get to the end of the event before knowing
- Working as a singular team mean you security team members are embedded with developers
- Response time is key to any event. Build ways to communicate in simple ways quick ways, to evaluate user actions.

Closing

To Do's

Build a culture of inclusion

Build functional security

**Use and OSS Champion
Program!**

Feedback url

tinyurl.com/27ru2hu7

