

DevOps for Defense

April 2019

DevSecOps

Frank Cohee



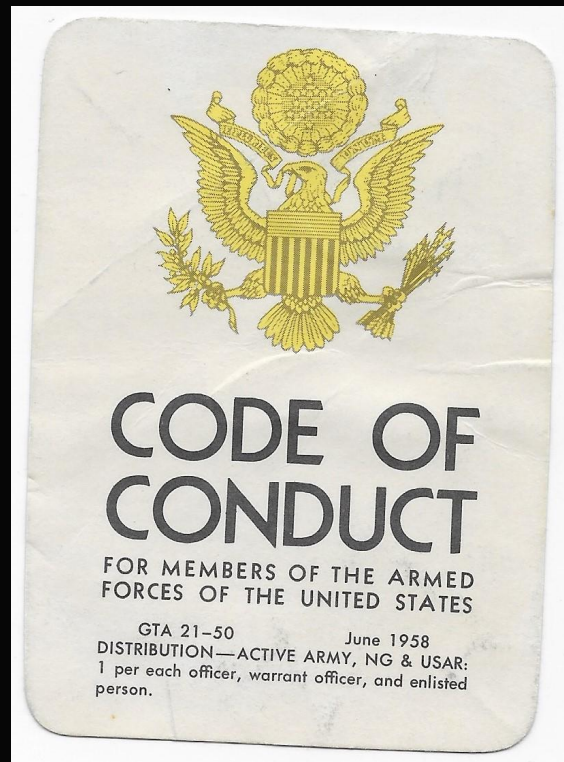
Sponsored by:



<https://www.meetup.com/DevOps-for-Defense/>
<https://github.com/jondavid-black/DevOpsForDefense>
devopsfordefense@gmail.com
<https://twitter.com/devops4defense>

DevOps for Defense Meetup: Code of Conduct

- UNCLASSIFIED ONLY!!!!
- Treat each other with respect and professionalism.
- Do not talk about private, sensitive, or proprietary work.
- Do talk about your experiences, needs, desires to improve work in our domain.
- Do share your thoughts.
- Do learn from others.
- Do respect & tip your bartenders!



Be Heard!

What would you like to do in future months?

Presentations:

- Write a topic on a card & add it to the table in the Presentation area.
- If you'd like to volunteer to present the topic, add "Volunteer: [**YOUR NAME**]".

Books:

- Write the title & author on a card & add it to the table in the Book Club area.

Activities:

- Write a short name & description of the activity on a card & add it to the table in the Activity area.



Please be an Active Part of our Meetup Success!

Announcement!

DevOpsDays Nashville 2019

Music City Center

May 9-10th, 2019



From startups to banking and publishing, Nashville is home to a very large and awesome tech community. We're proud to bring back DevOpsDays Nashville for the third year at the Music City Center in 2019! DevOpsDays Nashville will bring 325+ development, operations, security, and management professionals together to discuss the culture, processes, and tools to enable better organizations and innovative products.

Tickets are on sale now for \$179.50 USD.

Announcement!

<https://werockitconf.com/>

A premier event. WeRockIT Conf is an annual two-day conference that features all disciplines of technology and shows how they all can interconnect. We'll highlight a wide range of speakers to educate and inspire our guests. Our mission is to showcase and grow diverse voices in technology. This conference is being organized by a group of passionate developers who are dedicated to enriching the Huntsville, AL tech community. WeRockIT Conf will include a mix of panel discussions, keynotes, speakers, and hands-on workshops.

WeRockIT Conf 2019

Developers Conference

Cloud Computing | Big Data | Web Development | Cybersecurity | Embedded Systems

May 3-4, 2019

Huntsville, AL

DEVSECOPS

*A fantastic voyage of discovery
across uncharted domains while
wearing a parachute.*

\$WHOAMI

Frank Cohee

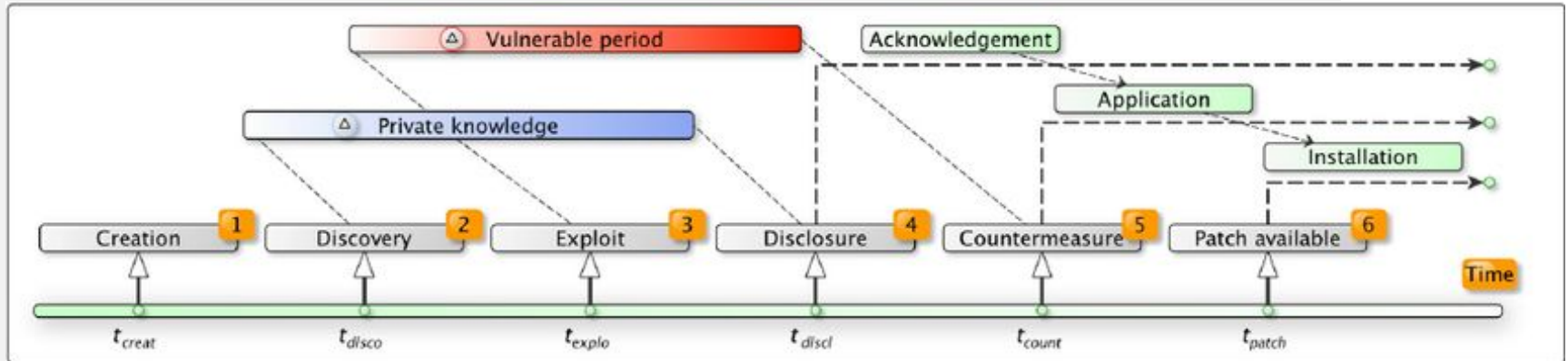
Current Role: Synapse Wireless

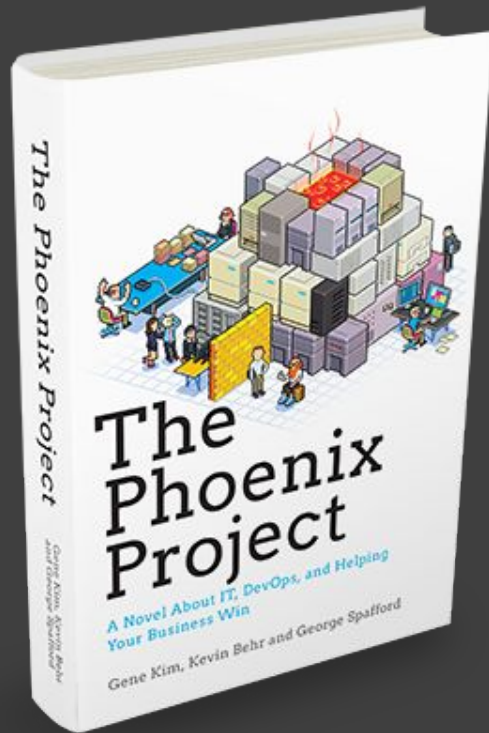
- IoT Cyber Security Architect
 - Security Researcher
 - Technology Consultant
-
- 20 years working with US Army, MDA, US Navy, Commercial Power & Energy, and a bunch of three-letters.





FLAW LIFECYCLE





•*How did I get here?*

DEVSECOPS

Goal: Ruggedness over compliance

Mission: Enable development to go as fast as they want.

Key Values:

- Detect and Resolve FAST
- Enlist and Enable the Organization
- Small bites

This is the end of Security as we know it.

Josh Corman

COMPARISON

Klaatu barada nikto

Traditional Models

- Frameworks for continuous review
- Mandated Standardized Controls
- Gated Processes
- Accountability through Reporting

DevSecOps

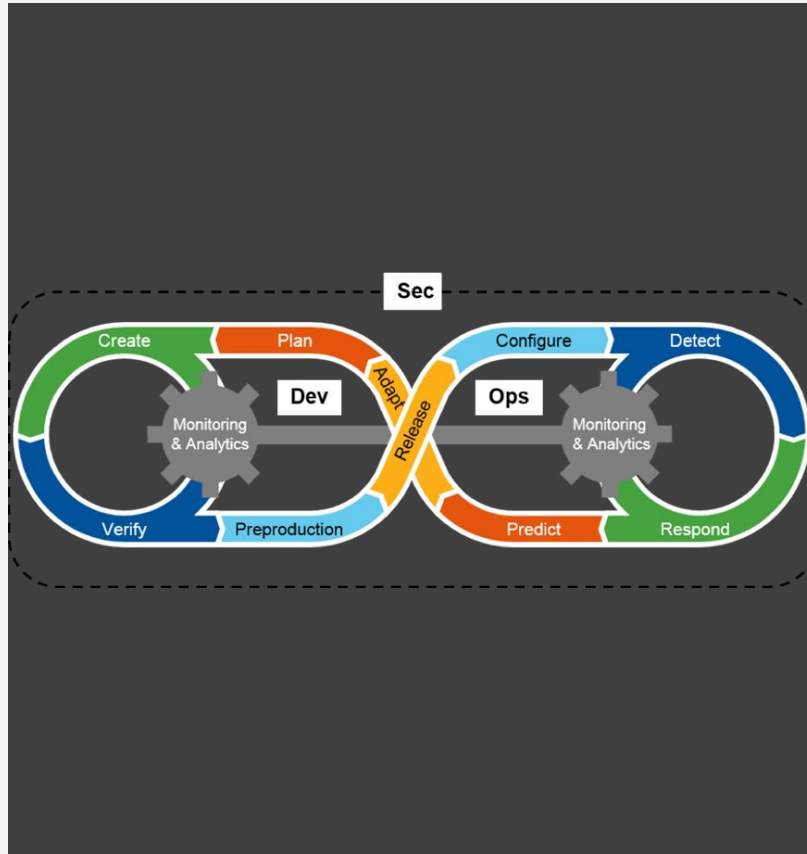
- Visualization is King
- Automated Tooling
- Peer Review
- Business Driven Security
- Chaos Engineering
- Real-risk Measurement
- Gateless Development



SECURITY AS CODE

- Bugs (Code)
- Configuration (Implementation of Code)
- Straight up force (Code)

*Here's a hacker
hoodie.*



- Continuous Analysis
- Testing and Instrumentation
- Collaboration
- Leveraging Existing Development Environments

SO WHY THOUGH?

- Improved security through speed
- Faster response times
- Blameless security
- Security as added value



THANK YOU

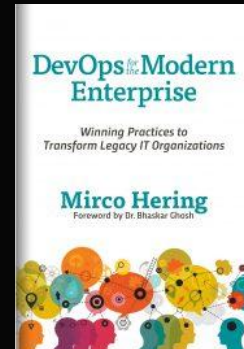
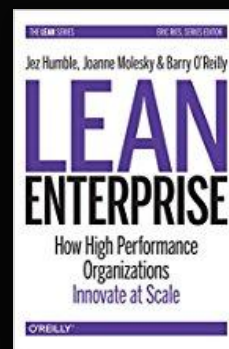
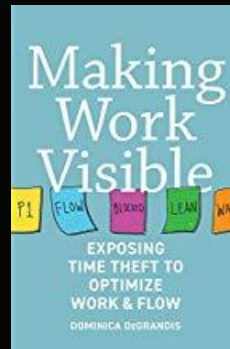
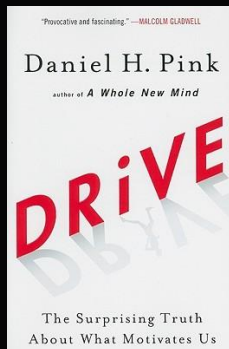
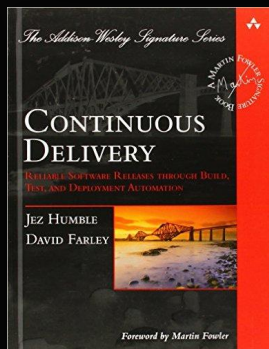
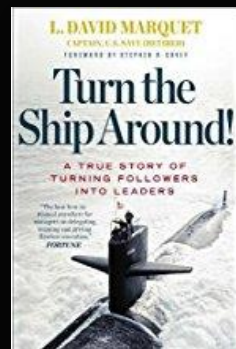
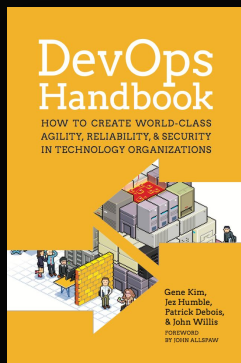
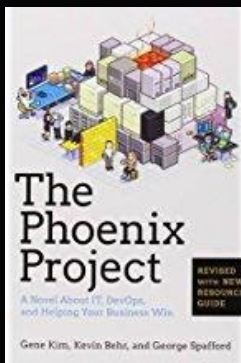
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DevOps Resources

Books / Publications:



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<https://github.com/jondavid-black/DevOpsForDefense>
devopsfordefense@gmail.com

Conference Presentations (YouTube):

- DevOps Enterprise Summit (DOES)
- IT Revolution
- Velocity
- GoTo



Group Exercise: Lean Coffee & Book Club

Book Club:

- Review & Discuss “The Phoenix Project”

1. Each table has a facilitator.
2. The facilitator has a short introduction.
3. Everyone write down questions or topics for discussion on the subject. Place them in the middle of the table.
4. The group votes on each question or topic by placing a dot on the card. 3 votes per person.
5. Cards with most dots goes first. Set a timer for 5 minutes and discuss.
6. After 5 minutes, either vote (thumbs up/down) to keep going or move on to the next card.



Topics: “Cyber Pipeline”, “Security Relevant”, and “Cyber Hurdles”