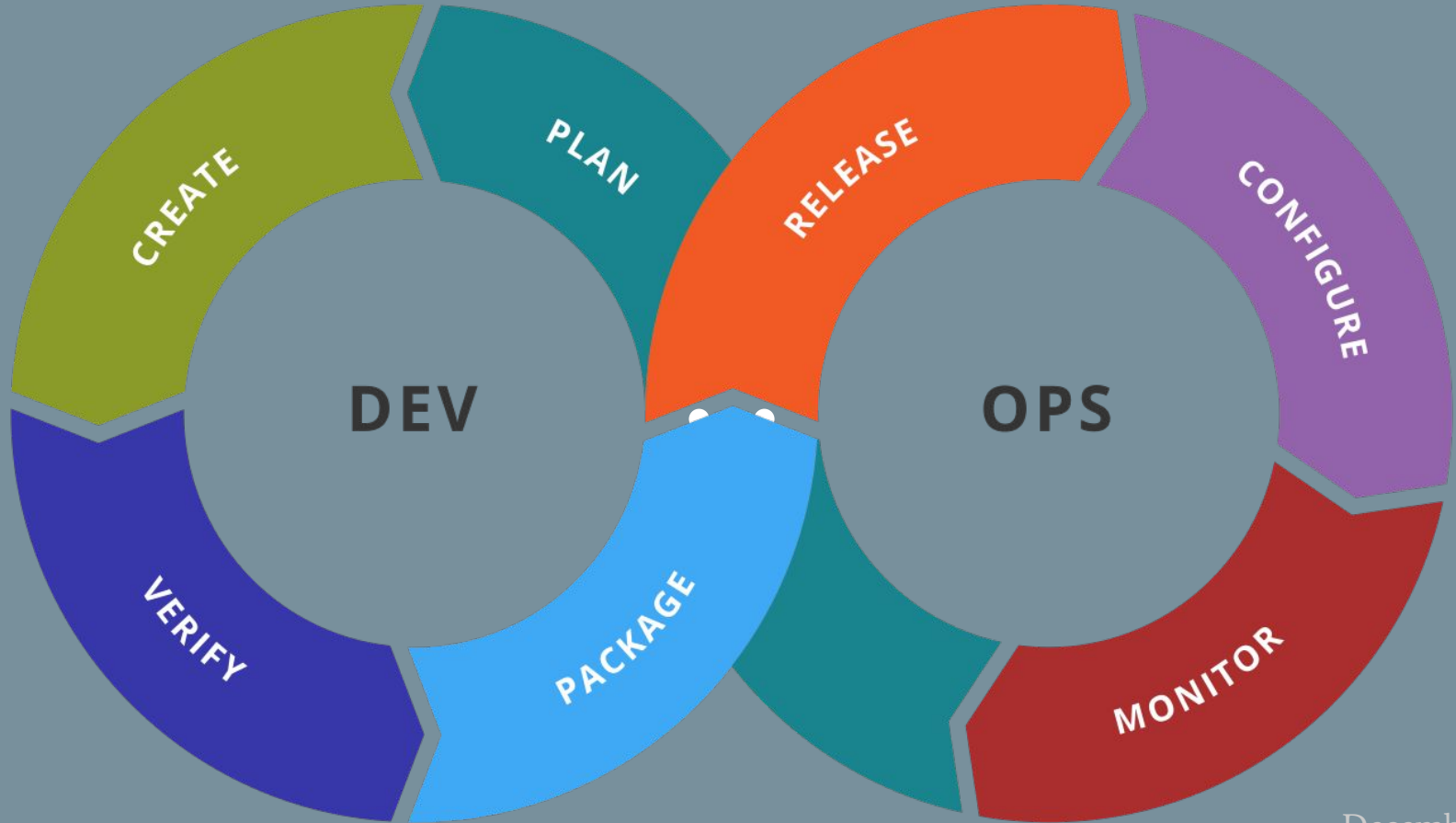


DevOps for Defense



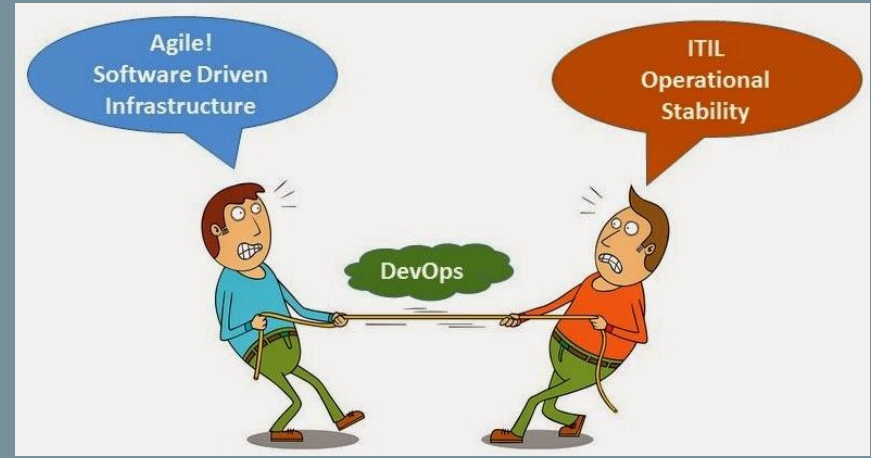
DevOps for Defense Meetup: Code of Conduct

- 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!



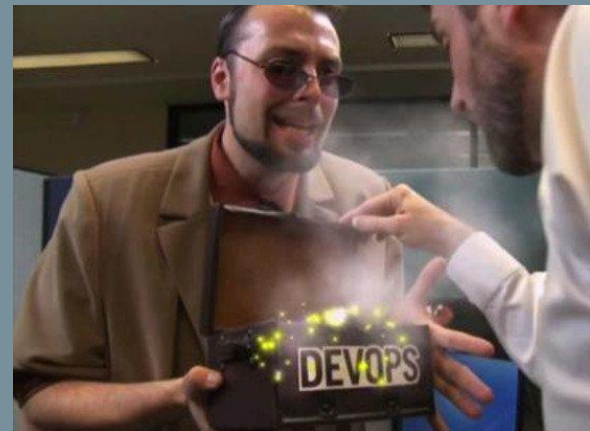
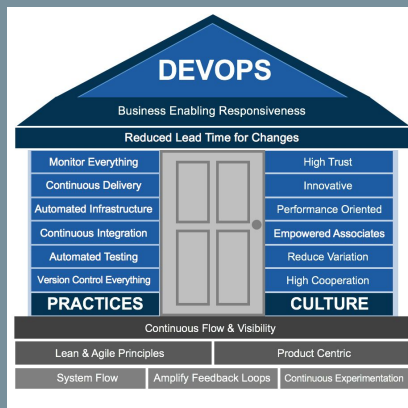
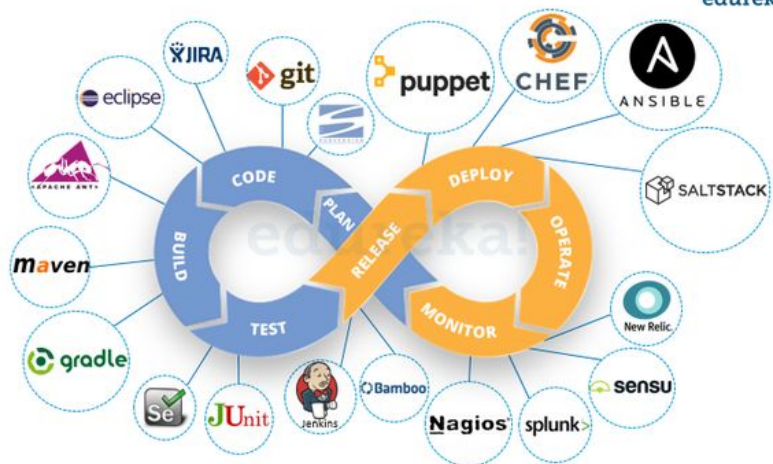
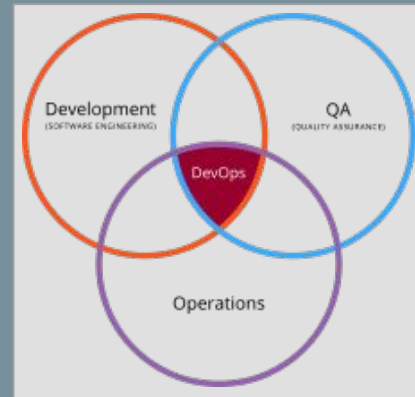
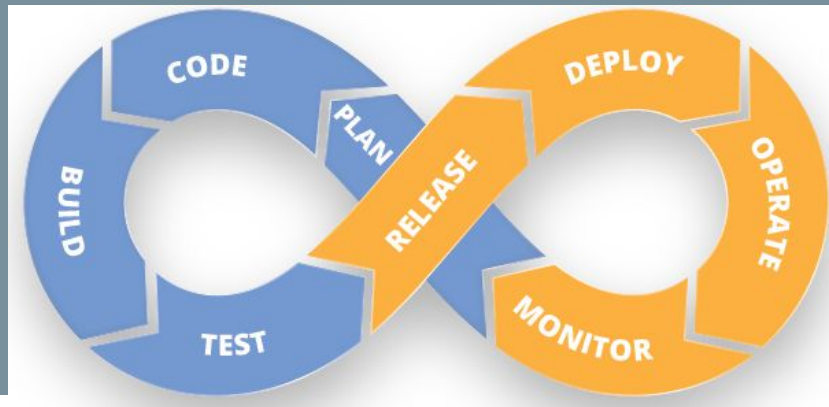
Note: Gene Kim likes Scotch Rocket

Dev vs Ops



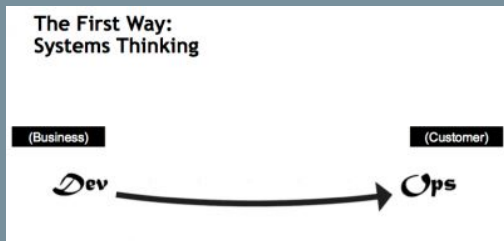
What is DevOps?

Agile++
NoOps
Wild West

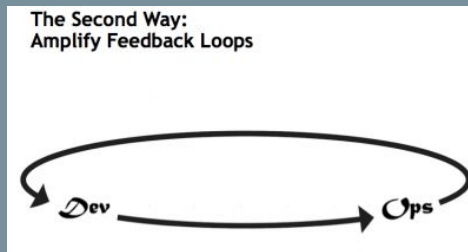


Core of DevOps

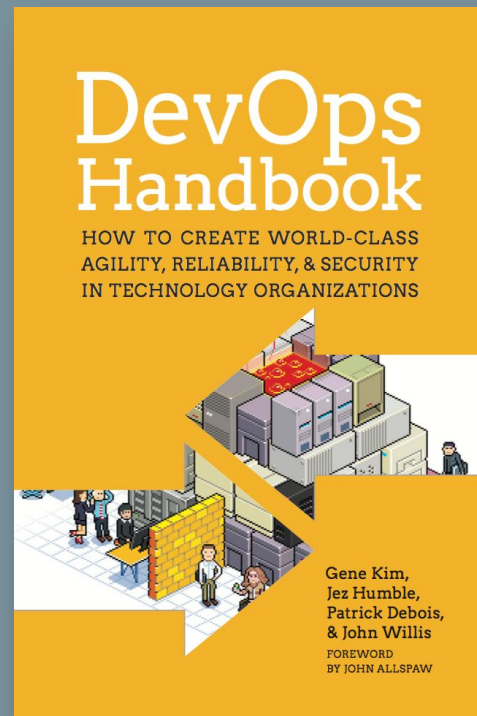
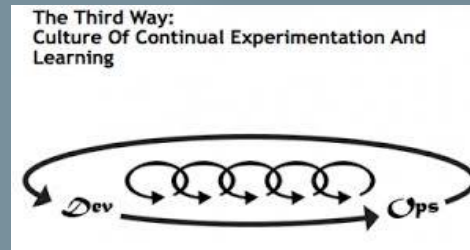
The 1st Way: Systems Thinking & Flow



The 2nd Way: Feedback



The 3rd Way: Experimentation & Learning



What is the Goal of DevOps?

**When we can safely, quickly,
reliably, securely achieve
all the needs, goals, dreams and
aspirations of everyone we serve...**

**...especially our citizens
and warfighters**

Why DevOps?

High Performers Are More Agile

46x

more frequent
deployments

440x

faster lead times
than their peers

Source: Puppet DORA 2017 State Of DevOps Report: <https://puppet.com/resources/whitepaper/state-of-devops-report>

@PuppetGenie

High Performers Are More Reliable

5x

lower change
failure rate

96x

faster mean time
to recover (MTTR)

Source: Puppet DORA 2017 State Of DevOps Report: <https://puppet.com/resources/whitepaper/state-of-devops-report>

@PuppetGenie

High Performers Are More Secure And Controlled

2x

less time spent
remediating
security issues

29%

more time spent
on new work

Source: Puppet Labs 2016 State Of DevOps Report: <https://puppet.com/resources/whitepaper/2016-state-of-devops-report>

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High Performers Win In The Marketplace

2x

more likely to
exceed profitability,
market share &
productivity goals

2x

more likely to achieve
organizational and
mission goals, customer
satisfaction, quantity &
quality goals

Source: Puppet DORA 2017 State Of DevOps Report: <https://puppet.com/resources/whitepaper/state-of-devops-report>

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High Performers Win In The Marketplace

2.2x

higher employee
Net Promoter Score

50%

higher market
capitalization growth
over 3 years*

Source: Puppet Labs 2016 State Of DevOps Report: <https://puppet.com/resources/whitepaper/2016-state-of-devops-report>

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How do we get to DevOps?



Key Capabilities that Drive High Performance

Technology and automation

- Version control
- Deployment automation
- Continuous integration
- Trunk-based development
- Test automation
- Test data management
- Shift left on security
- Continuous delivery
- Loosely-coupled architecture
- Architect for empowered teams

@nicolefv



Process

- Gather and implement customer feedback
- Work in small batches
- Lightweight change approval process
- Team experimentation

@nicolefv



Measurement and Monitoring

- Visual management
- Monitoring for business decisions
- Check system health proactively
- WIP limits
- Visualizations

@nicolefv



Culture

- Westrum organizational culture
- Climate for learning
- Collaboration among teams
- Make work meaningful
- Transformational leadership

@nicolefv



DevOps Seems Easy...Right?

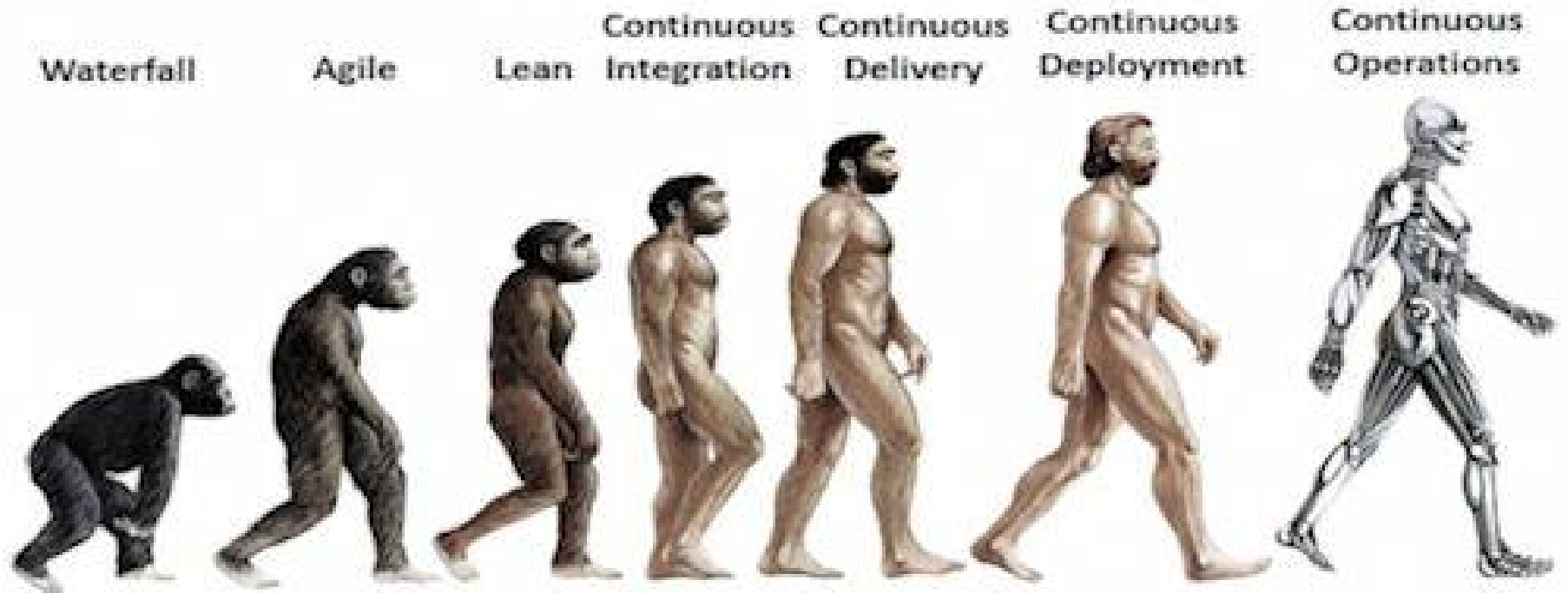
“Risk is a consequence of progress.”

- Grier Wilt - EVA Flight Controller

“It takes a change in people, a change in thinking, a change in culture...”

- Chris Kraft - Flight Director, MSC/JSC Director

Where are we today?



What Are The Biggest Obstacles to DevOps in Defense?

- Take two note cards and a marker.
- On each card, write down one obstacle.
- Lay all the cards on a table.
- Take a few minutes to read the cards (stack duplicates you see).
- With your marker, vote by putting a dot on the top 3 obstacles you see to achieving DevOps in Defense.

DevOps Resources

Books / Publications:

- The Phoenix Project
- The DevOps Handbook
- Continuous Delivery
- Lean Enterprise
- Lean Startup
- The State of DevOps Report

Conference Presentations (YouTube):

- DevOps Enterprise Summit (DOES)
- Velocity
- GoTo

Thank You for Attending DevOps for Defense!

We'll meet again on January 4th.

Send me your feedback and ideas...volunteer to present a topic or lead a breakout!

Special thanks to those I “liberally borrowed” material from:

Gene Kim, Nicole Forsgren, Jez Humble, anyone who puts DevOps images on the internet!

Take some time to talk with the people around you. Meet 1 new person today!

Thank Rocket Republic for hosting us! Tip your bartenders!!!