



U.S. ARMY



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Connecting the **Army**. Working for **Soldiers**.

Mr. Joe Kobsar

Director, Applied Cyber Technologies, Defensive Cyber Operations

LTC Michael Lind

Product Manager, Cyber Platforms and Systems, Defensive Cyber Operations

AFCEA TechNet Augusta | 23 AUG 2019

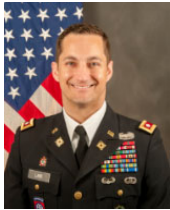
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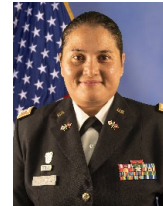
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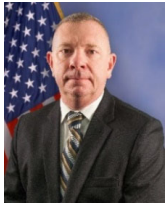
Project Manager: COL Chad Harris
Deputy Project Manager: Ms. Patricia Ocasio
Defensive Cyber Operations (DCO)
703-806-8626



Product Manager: LTC Michael E. Lind
Deputy Product Manager: Mr. Toney Howard
Cyber Platforms and Systems (CPS)
703-806-8822



Product Manager: LTC Leilani Tydingco-Amarante
Deputy Product Manager: Mr. Arthur Edgeson
Cyber Analytics and Detection (CAD)
703-806-1150

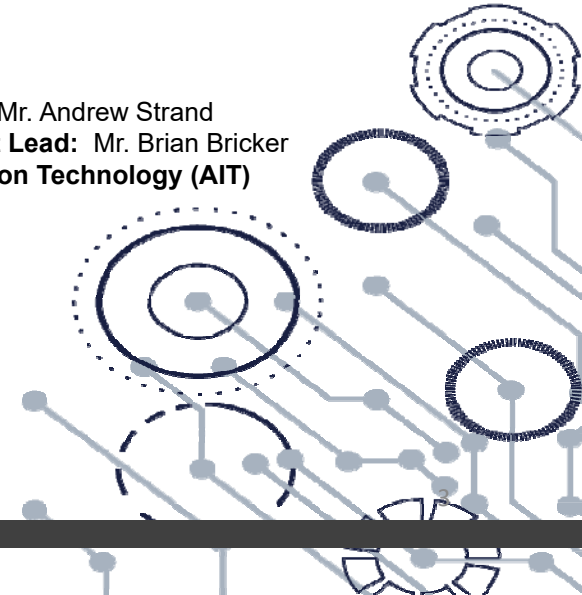


Director: Mr. Joe Kobsar
Applied Cyber Technologies (ACT)
Forge/Armory/DevSecOps
703-953-5648



Product Lead: Mr. Andrew Strand
Deputy Product Lead: Mr. Brian Bricker
Allied Information Technology (AIT)
703-806-3654

<https://www.eis.army.mil/programs/dco>





Mission and Vision



Mission

Continually deliver relevant Defensive Cyber Capability

Vision

Create a trusted, world class team that delivers dominant Defensive Cyber Operations capability

What We Do

- The Army's focal point for Defensive Cyber Operation material solutions
- Pursue the best in innovation through rapid and agile acquisition processes
- Maximize stakeholder collaboration throughout program lifecycle

The Magnitude

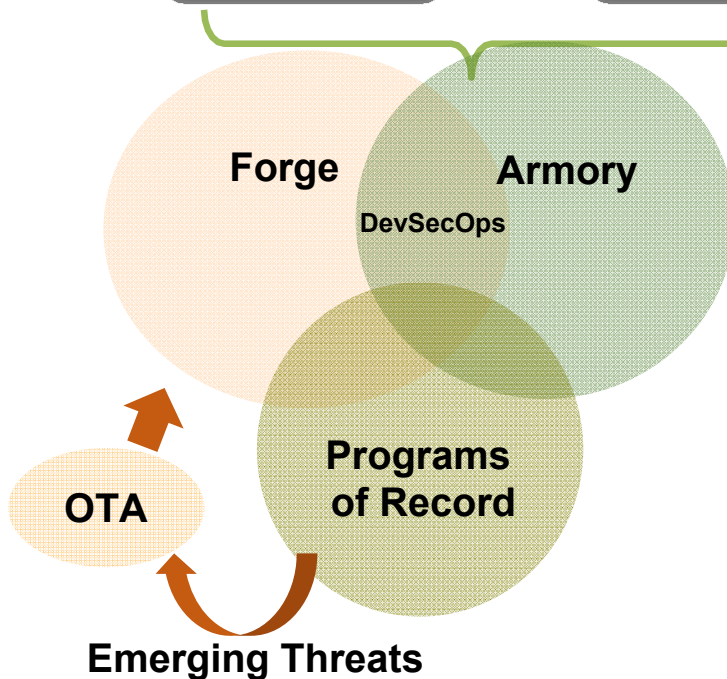
- 7 ACAT IV Programs of Record
- Support to 20 Active Duty, 11 ARNG and 10 USAR Cyber Protection Teams

DCO must leverage industry partnerships and expertise to accomplish its mission



DCO Evolutionary Acquisition

A New Paradigm to Deliver Dominate Cyber Capability at the Speed of Relevance



- **Rapid and agile** acquisition solutions
- **Close capability gaps**
- Providing **collaboration and synchronization** opportunity to the enterprise
- Leveraging **industry and academia expertise**
- Continuously **innovate**
- **Collocate** contracting, test, industry, academia, user and materiel developer in single location

Collaboration Absolutely Necessary

Provide Cyber Soldiers the tools, innovation and solutions to ensure they are ready to fight tonight against an unseen threat



DCO Contract Solutions and Awards



PROTOTYPING

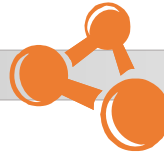
INTEGRATION

PRODUCTION

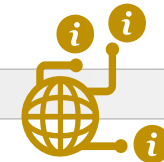
Program Activity



FY19
\$35M
25 OTA Awards



FY19
\$50M
34 FAR Awards



OTA Agreement

Multiple Award IDIQs

Production BPAs

Acquisition Method

- Non-FAR-Based Other Transaction Authorities (OTA) Agreement, 2016 NDAA Section 815
- PM DCO will utilize COBRA OTA
- OTA completed prototypes will feed Integration and Production contract vehicles

- FAR-based multiple-award IDIQ
- Full and Open Competition for initial IDIQ award pool of vendors
- Vendor pool includes periodic on-ramps
- Fair Opportunity competition on task orders
- Base period is 3 years with 2 one-year options

- FAR-Based multiple award BPAs per FAR 13.303-2(c)(1)
- Vendor pool includes periodic on-ramps (OTA performance)
- All individual production requirements will be competed among all BPA holders
- Individual BPA Calls will not exceed \$13M each IAW FAR 13.500(c) Class Deviation 2018-O0018

*May award Production OTAs as bridging strategy

IDIQ timeline: 18-24 months

In Development: Tools
In Selection: Services (Eagle Shield)



Acquisition Evolution Opportunities



Acquisition Innovation

PM DCO Cyberspace Coliseum Event Announcement – AFCEA Belvoir Industry Day

Project Manager Defensive Cyber Operations is pleased to announce our first Coliseum event focused on procuring capabilities to support Army Cyber Command and our Soldiers

What is a Coliseum? A coliseum is an information, assessment or competitive event that is not directly managed by PM DCO but is of interest to Government users for potential review and acquisition of prototypes.

How to Participate? Entities interested in participating in the Coliseum event shall fill out the registration form, and submit it with their quad chart and any other pertinent information, information no later than 15 March 2018 to:

Stephanie.Watson33.civ@mail.mil or Brian.N.Jackson14.civ@mail.mil

Why have Coliseums? Take advantage of resources already being spent to support other activities both from a Government and industry perspective; we take advantage of activities already occurring and use them as a part of a selection/competition acquisition process.

MARCH 21-22, 2018 - GAYLORD NATIONAL HISTORIC INN CONFERENCE & RESORT ON MARCH 20, 2018

www.fbcinc.com/AFCEABelvoir

Capabilities under consideration:

- High Speed Data Transport Software
- Advanced Cyber Sensor Software
- Deployable Kit Operating System
- User Activity Monitoring
- Threat Emulation Software
- Counter infiltration tools
- Cyber Intel tools
- SCADA Tools

Booked Reception 1 MAR 18
Quad Chart Due 23 MAR 18
One on One scheduled 29 MAR 18
AFCEA Review 21-22 MAR 18
Event Starts 27 MAR 18
Request for white papers 1 APR 18

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DCO Evolutionary Acquisition

Critical Enablers

- Co-located teams (Test, Contract, Industry, Soldier User)
- Dedicated physical location for prototype assessments and test (Forge)
- Other transactional authorities: leveraging best in industry innovation at the speed of relevance
- Flexible resources

Successes

- Operationally responsive
- Leveraging DARPA technology
- Hands on soldier assessments
- Incorporating soldier feedback

30 Day Prototype Process

The diagram shows a progression of hardware and capabilities over time:

- Initial Prototype (2016 (ONS))**: Feedback: Need More Compute, Need More Storage, Improve Ruggedness. Capability Increase: 2X Compute, 2X Storage.
- Enhanced Prototype (2017)**: Feedback: Too Large (3 Cases), Need Airline Carry-on. Capability Increase: Improved transport case.
- Program of Record (2018 (RDP))**: Feedback: Need for modular configuration, Smaller plane Carry-on. Capability Increase: 3X Compute and Storage, 1/8 Size.
- Capability Drop DDS Modular (2019 (MAR))**: Capability Increase: (8) Nodes, Reduced Size, Backup Power.

Deployable DCO System (DDS) Example

Lessons Learned



Evolution Initiative: The Coliseum



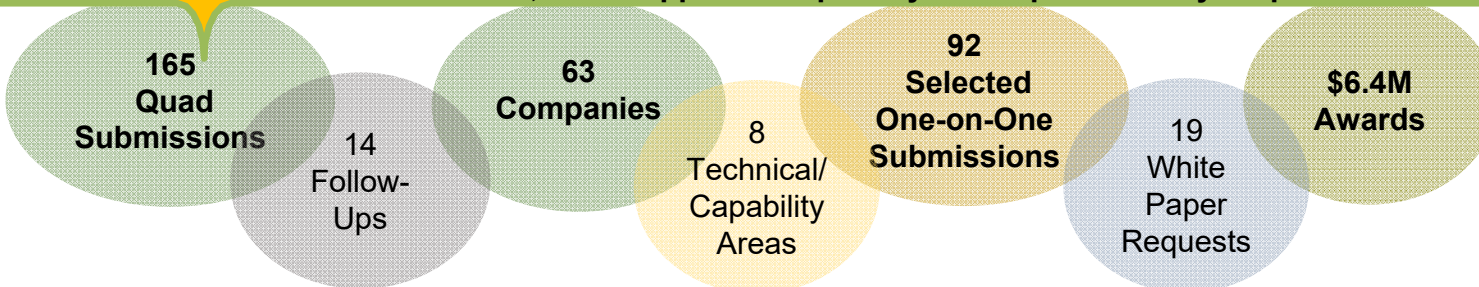
These are multi-phased, competitive procurement events where interested industry parties present new or provocative solutions to government stakeholders in a **one-on-one** assessment environment. The goal of a Coliseum is to enter into agreements for potential prototypes of defensive cyber capabilities. The government may enter into noncompetitive follow-up agreements and production contracts as a result of the multi-phased, competitive Coliseum approach. Coliseums leverage existing resources or events—such as industry trade shows and engagements—as part of the selection/competition acquisition process.

One-on-One Assessments

Government and user representatives meet with interested parties at predetermined and/or ad-hoc times. Prototype capabilities are based on the following criteria:

- Technical Merit
- Relevancy of Proposed Solution
- Reasonable Cost and Schedule
- Cybersecurity Assessments
- Previous Successful Pilots
- User Feedback

The first Coliseum event on March 21-22, 2019 supported capability development for cyber protection teams at AFCEA:



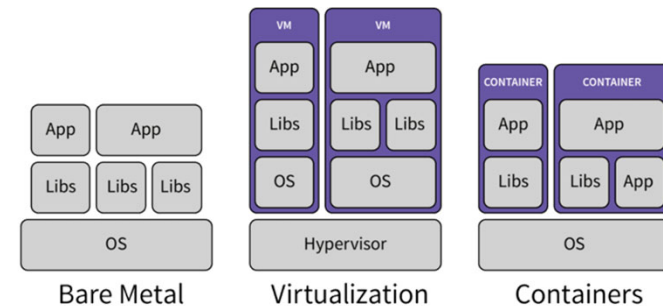


Technology Evolution Opportunities



Where have we been?

- Focused on Infrastructure, Operating System and VMs
- Spending Time on:
 - Tool development
 - Automation
 - Integration support
 - System specifications



Where are we going?

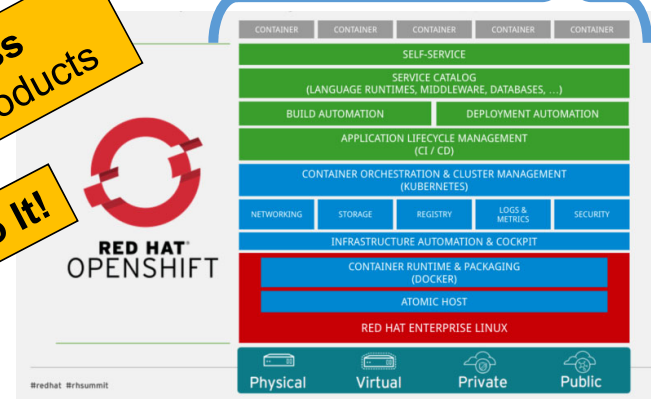
- Containerization
- Spending Time on:
 - Assessments
 - Operations
 - Improvements

Additional Benefits

- Platform independence: Build it once, run it anywhere
- Speed: Start, create, replicate or destroy containers in seconds
- Effective isolation and resource sharing
- Resource efficiency and density

Key to Success
Containerized Products

Just Do It!



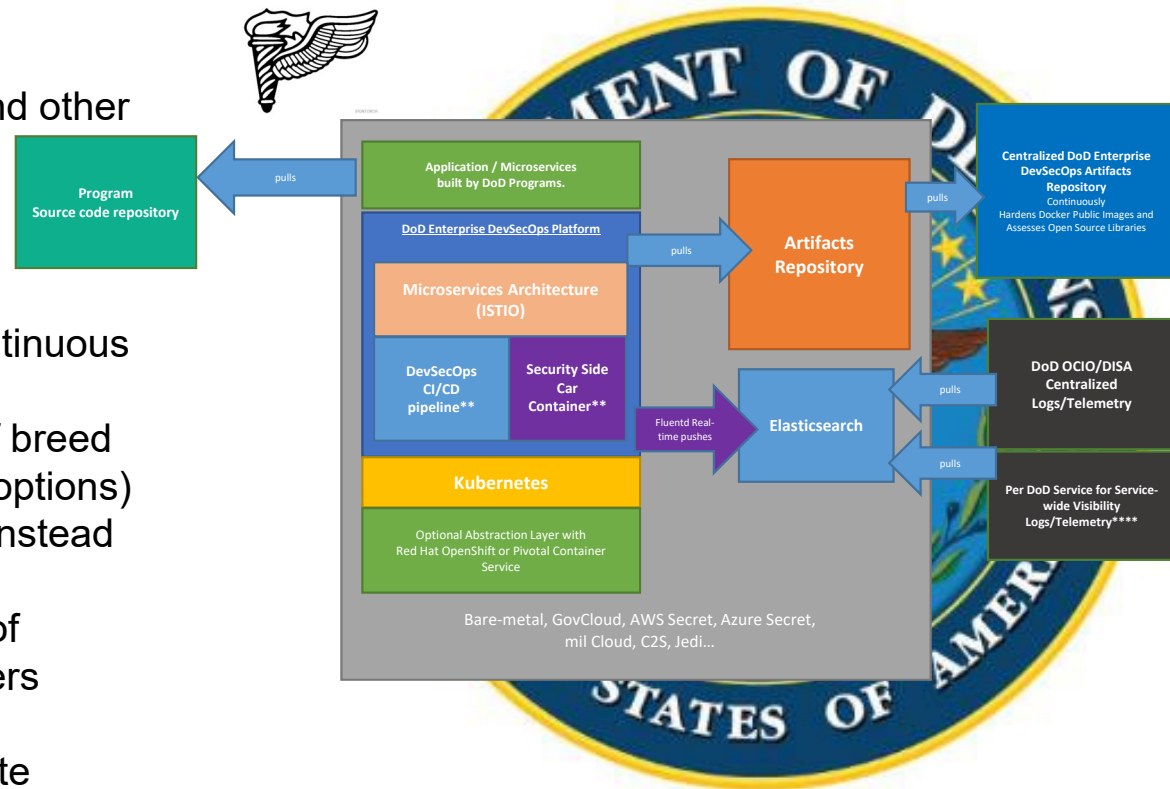


Evolution Initiative: DoD DevSecOps



- One of 34 Pathfinders in the Joint Program with OUSD(A&S), DoD CIO, U.S. Air Force, DISA and other Military Services

- ✓ Standardize metrics and define acceptable thresholds for test coverage, security, documentation etc. to enable complete continuous deployment with pre-ATO embedded.
- ✓ Selecting, certifying, and packaging best of breed development tools and services (over 100 options)
- ✓ Enables bug and security fixes in minutes instead of weeks/months.
- ✓ Creating a Centralized artifacts repository of hardened and centrally authorized containers
- ✓ Enables automated testing and security.
- ✓ Enables continuous Authorization to Operate (ATO) process for rapid deployment and scalability. Authorize ONCE, use MANY times!



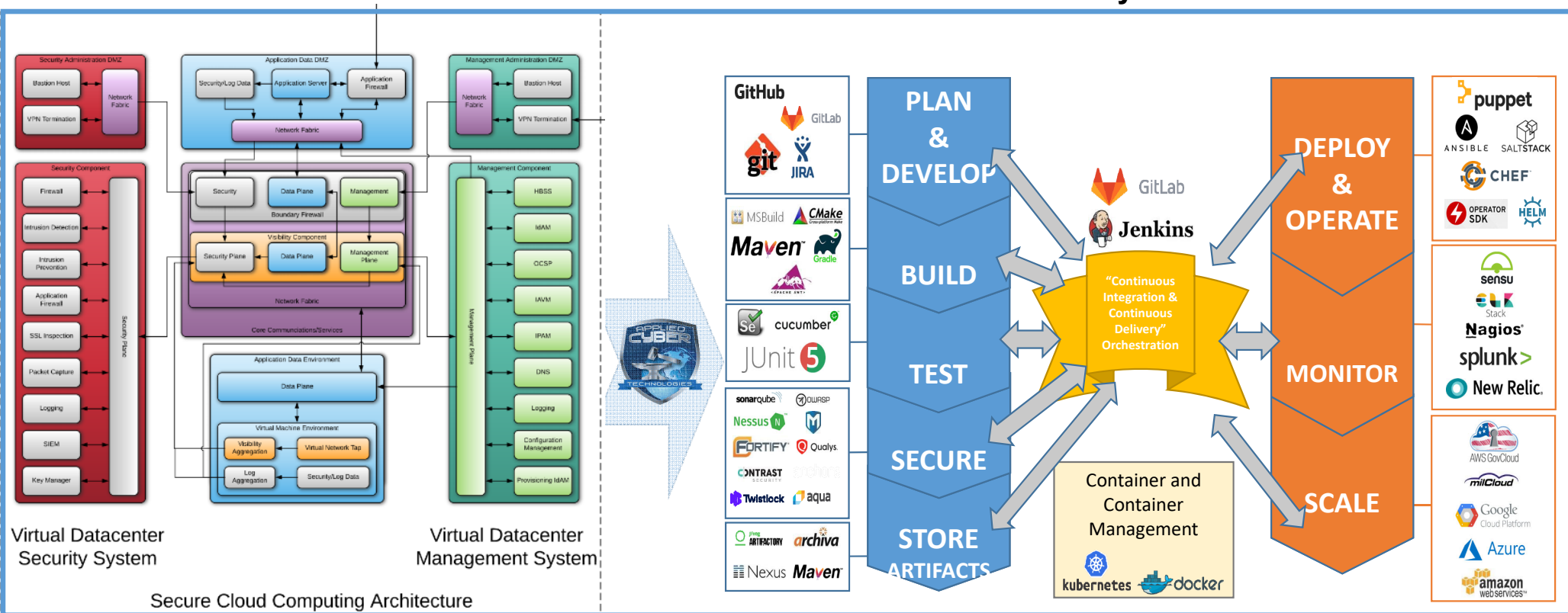


Evolution Initiative: Forge Transformation



Current Forge DevOps On-Prem

Future Forge DevSecOps Hybrid





Industry Opportunities



Recent Activity and Accomplishments

Exercised option for additional licensing of Endgame software

- Identifies unusual activity, remediates and retains activity, and isolates defective devices

COBRA OTA Award for Advanced Sensors/Deployable DCO System (DDS)

Modular prototype

- Will inform solutions for DDS Program of Record



Industry Opportunities on the Horizon

• Near Term:

- Discovery
- Event Correlation
- Forensic & Malware Triage
- Vulnerability Analysis (Network)
- Cross Domain Solution
- Cyber Situational Awareness (Cyber SU)
- New Equipment Training (NET)
- Cloud Hosting
- Advanced Sensors

• Far Term:

- Architect Transmission from CFC to GN
- Hybrid Performance Data Repository
- Hybrid Data Repository
- DDS MOD Data isolation and purge

Role of Industry

- Leveraging industry expertise in the latest technology, identification of capability gaps, and continuous innovation
- A critical partner in ensuring Army cyber warfighters and capability to stay ahead of the ever evolving cyber threat



Questions