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DTRA
DEFENSE THREAT REDUCTION AGENCY
Detect. Deter. Defeat.

Chemical, Biological, Radiological, and Nuclear Common Operating Repository (CBRN CORe)

In support of the Defense Threat Reduction Agency (DTRA) RD-CBI, Domenix was awarded a contract to provide a centralized repository, "CORe" for CBI software applications, code, and associated data and containerization and hardening in accordance with DISA guidelines.

CBRN CORe provides a Development, Security, and Operations (DevSecOps) Continuous Delivery Continuous Integration (CI/CD) capability for the consistent and reproducible collection, organization, shared library management, assessment, sustainment, and transition of the enterprise software and data inventory.

The CORe enterprise solution provides all key components in the CI/CD pipeline necessary for consistent configuration managed development, evaluation, maturation, and transition. Domenix is collecting a variety of diverse Windows, Linux, and handheld software and data from a variety of providers and performers and for each, we use a common set of GitLab Ultimate project and issue templates and business rules to:

- **Organize the software in GitLab Ultimate projects**, using project templates to standardize the organization, format, and presentation of all items in the inventory format so all items in the inventory have a common look and feel.
- **Instantiate the software into a CI/CD pipeline** based on DISA requirements, such that the automated process of building and scanning is uniform across the entire inventory.
- **Assess the software** in terms of its maturity, independent reproducibility (from source code), and the robustness of its documentation and determine whether the component should be a shared component or library that can be utilized across multiple projects.
- **Scan the software** using DISA approved scanning tools and provide results to performers to resolve vulnerabilities.
- **Containerize and Harden the software** where appropriate. DISA provides guides for Linux. DISA support for Windows containerization and hardening continues to evolve. For handhelds, we position those apps and plugins for meeting requirements of DoD approved app storefronts.
- **Host the software in a secure AWS GovCloud environment** that allows the entire environment to be portable to other FedRAMP Authorized providers (e.g. Microsoft Azure) or other government or DoD cloud environment (DISA Stratus) with no vendor lock-in and no vendor-specific capabilities.

Shared libraries and components establish a source of common code and data for rapid development of software applications. The prototype will establish a platform for multiple applications to be developed from shared code, including shared code libraries for Tactical Assault Kit (TAK) plugins.

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CORe Project Management

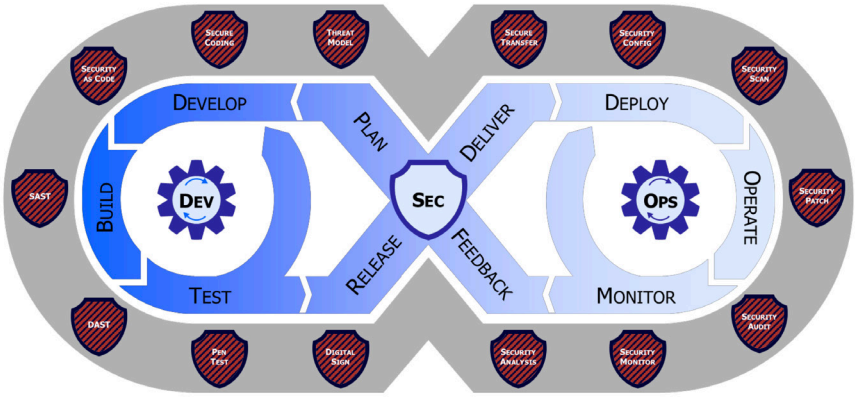
GitLab Ultimate is used to manage and execute all work in the customer inventory utilizing the Agile methodology. The CORe Virtual Private Cloud (VPC) consists primarily of a Core Host Platform (CHP) plus Linux and Windows servers that support assessment and evaluation.

CORe is managed and driven directly from GitLab Ultimate for:

- *Software inventory projects lifecycle execution*
- *Robust permissions management*
- *Demonstrations*
- *Evaluations*
- *Iteration reviews*
- *Onboarding information*
- *CORe program management*
- *Deliverables*
- *Risks*
- *Key Correspondence and Meeting Minutes*
- *Technical information*
- *Pipeline Configuration*
- *System integration*

INSIGHTS:

- Gitlab provides a one stop shop for the entire software inventory and CORe program management with transparency for the customer.
- A very robust Role Based Access Control (RBAC) is derived from GitLab Ultimate to setup groups with permissions across groups, individuals, and users with quotas and sign-up pages with privileges.
- The DevSecOps environment mimics the DoD Gold Standard for a CI/CD (Platform One and Party Bus) efficiently for S&T and for advanced development before cutting over to production and fielding.



DevSecOps Distinct Lifecycle Phases and Philosophies

CORe is positioning the software inventory for DevSecOps per the Department of Defense's Software Modernization Strategy and Implementation of Software Factories.

CORe is hosted in an AWS GovCloud (FedRAMP Authorized) Virtual Private Cloud (VPC):

The foundation of CORe enterprise solution manages all key components in development, evaluation, transition, and fielding. Domenix is collecting all of the software from a variety of providers in the RD-CBI inventory.

- **Utilizes Multi-Factor Authentication (MFA)** for accessibility and security.
- **Builds upon secure environments** based on DISA STIGs and associated cyber security requirements.
- **Provides a robust continuity of operations implementation** with multi-region copies of all servers and their associated software and data.

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