



Domenix DevSecOps Platform (D2SOP)

D2SOP is an enterprise DevSecOps Software Factory that provides all key components necessary for consistent configuration-managed development, evaluation, maturation, and positioning for the deployment of software (i.e., source code, firmware, data sets, common components, AI/ML capabilities, containers, plug-ins, algorithms, visualizations, and associated documentation). It supports diverse Linux and Windows cloud-based, desktop, handheld, and wearable firmware, software, and data sets. For each customer, we provide a common set of project and issue templates, tailorable CI/CD pipelines, governance, and business rules to:

- **Organize the software in 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 and Wikis detailing key aspects of maturity, run-time and deployment specifications, and information safeguarding and dissemination requirements.
- **Segregate the software** into Impact Levels (IL) 2, 4, and 5 “boundaries” utilizing combinations and configuration of Group and Role Based Access Permissions (RBAC) and MFA (user name, password, and authenticator apps) and MFA (CAC/PIV) smart-card authentication.
- **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 to be utilized across multiple projects.
- **Scan the software** using DISA approved scanning tools and provide results to performers to resolve vulnerabilities to “harden” the software.
- **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 to meet the requirements of DoD approved app storefronts.
- **Software as a Service** - D2SOP is hosted 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.
- **Self-Hosted Option** - for customers that want their own instance on their servers or cloud environment, Domenix has packaged D2SOP to be deployable and configurable to meet your unique requirements. That comes with a complete set of cybersecurity documentation, workflows, and checklist to support continuous monitoring.
- **Continuously Monitor**: D2SOP implements the Risk Management Framework (RMF) security control baseline for a MODERATE impact system.

Domenix provides a centralized repository, for software applications, code, and associated data sets and containerization and hardening in accordance with DISA guidelines that will serve as the foundation of a Digital Laboratory and enable AI/ML capabilities..

D2 provides 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.

Why D2SOP?

D2SOP is an off-the-shelf software platform that helps organizations speed up their software development while maintaining security. It covers all stages of the Software Development Lifecycle (SDLC) and provides tools to reduce risks and enhance IT capabilities. You can use D2SOP on commercial, government clouds and meets the FIPS 199 Moderate Level security standards. For more information, download our capability sheet or email us at d2@domenix.com.

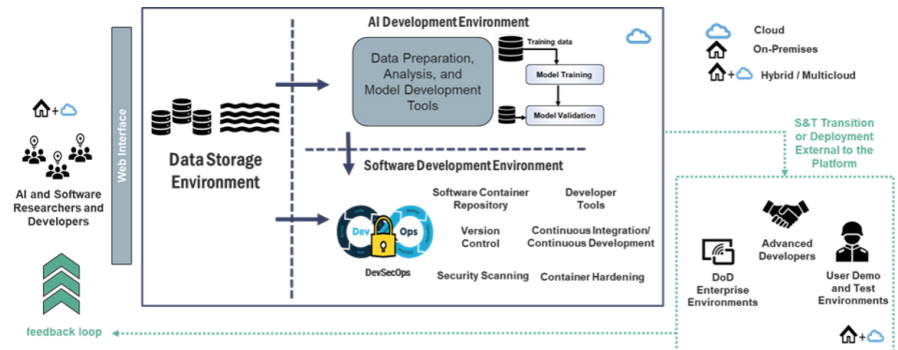
D2SOP provides executives, program, and product managers with the insight they need to make intelligent investment decisions earlier in the product lifecycle and the engineering team the integrated collaborative proven capabilities they need to perform efficient development integration, delivery, and product sustainment and evolution.

- **Improved organization and consistency of knowledge** about the system – Leading to better informed and more rapid decision making.
- **Enhanced consistency and efficiency of data** integration among disciplines – leading to better engineered systems and system-of-system integration.
- **Systems that better meet mission needs** to enable early and frequent verification of requirement/design closure.
- **Provides early warning of disconnects** to reduce risk of costly redesign schedule setbacks.
- **Early discovery and mitigation of SE problems** to examine completeness and consistency of the design at every stage.
- **Reduces the risk of propagating inconsistencies** to provide a means of identifying a needed focus for unresolved design aspects and to improve lower-level design closure with system-level design.
- **Improved rationale and validation** to enable traceability amongst all related system artifacts throughout its life cycle.

D2 Project Management

The shift-left movement in DevSecOps development makes integration security considerations essential to every development iteration and sprint. DevSecOps is the addition of security considerations and practices to an organization’s CI/CD workflow.

D2 Vision: A Digital Laboratory: Unified DevSecOps Software Factory, AI/ML and Big Data Platform



DevSecOps, spans development, cybersecurity, QA testing, IT operations and support teams

D2 Insights:

- **Hosted in a (US) Virtual Private Cloud (VPC).** The D2 VPC consists primarily of a D2 Host Platform (CHP) plus Linux and Windows servers that support assessment, prototyping, development, integration, testing, and evaluation.
- **Supports IL2, IL4, and IL5** and is planning for an IL6 instantiation in the near future.
- **Uses GitLab Ultimate** to manage and execute D2, utilizing the Agile methodology.
- **Improves understanding** of composition and capabilities of the CBRND enterprise.
- **Identifies interdependencies** among components of the enterprise.
- **Integrates knowledge** across the enterprise, reducing stovepipes and duplication of effort.
- **Increases standardization** and integration at the system level.
- **Provides integrated data science, AI/ML,** and software development functions within a consolidated development, security, and operations (DevSecOps) environment.

What’s Next?

Connect with us to schedule a live D2 demo. Hear how D2 can establish an integrated digital approach that uses authoritative sources of system data and models as a continuum across disciplines to support life cycle activities.

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