

Astra | Cloud Infrastructure & DevSecOps Automation



KALVIS

Secure Application Generation



ASTRA

Infrastructure & DevSecOps Automation



OPTIBASE

Database STIG Compliance



VELES

ATO Evidence Validation

Astra is the cloud infrastructure provisioning and DevSecOps pipeline automation engine within the DSD Forge™ platform. It standardizes delivery and accelerates secure deployments across multi-cloud and high-impact environments (IL2–IL6) by generating Infrastructure as Code (IaC), building CI/CD pipelines, and enforcing security controls.

CORE FUNCTIONALITY

MULTI-CLOUD & HIGH-IMPACT ENABLEMENT

AWS, Azure, and GCP-ready architectures configured for DoD Cloud One IL2–IL6 workloads.

EMBEDDED SECURITY & NIST 800-53 CONTROLS

Embeds compliance into infrastructure templates and automates SAST/DAST scanning.

AUTOMATED IAC & CI/CD PIPELINES

Generates standardized Terraform scripts and builds scalable GitLab CI/CD pipelines.

CONTINUOUS COMPLIANCE & RMF TRACEABILITY

Compresses transition timelines from months to weeks.

MISSION IMPACT

Astra delivers portable/scalable cloud architectures across DoD portfolios, reduces engineering friction by eliminating manual setup errors, guarantees compliance baselines from day one, and accelerates large-scale cloud migrations.

WHERE ASTRA IS USED IN DSD FORGE™

GOAL PHASE

ASTRA

REQUIREMENTS

Define system & security requirements

Gathers initial parameters via standardized questionnaires

Kalvis refines requirements with SMEs.



DESIGN & DEVELOPMENT

Define architecture & security patterns; write secure code

Defines compliant cloud architecture templates.

Embeds NIST 800-53 controls into infrastructure design.

Kalvis decomposes work into structured components



BUILD & INTEGRATE

Automate building, testing, and packaging

Generates IaC, builds pipelines, and applies secure configuration baselines.

IL2–IL4 compliant.



TEST & SECURE

Validate functionality and enforce security

Automates SAST/DAST scanning, runs compliance validation, and enforces NIST 800-53.

Kalvis runs functional checks and validation.

Optibase scans STIG compliance.



DEPLOY, AUTHORIZE, OPERATE & MONITOR

Release; prove secure operation; monitor & maintain compliance

Astra maintains DevSecOps pipeline integrity.

Veles ingests outputs, evaluates evidence, and validates artifacts.

Optibase runs ongoing compliance validation



CONTACT US FOR A DEMO



info@dsdlabs.com
dsdlabs.com/forge

HEADQUARTERS

950 N Washington Street
Alexandria, VA 22314

MONTGOMERY OFFICE

6765 Taylor Circle
Montgomery, AL 36117

CAGE: 0ABU8

UIE: MBMHMGJMQFC7

UTAH OFFICE

Workbox – 132 S State Street
Salt Lake City, UT 84111

