

OptiBase | Database STIG Compliance & Operational Optimization


KALVIS
 Secure Application Generation


ASTRA
 Infrastructure & DevSecOps Automation


OPTIBASE
 Database STIG Compliance


VELES
 ATO Evidence Validation

OptiBase serves as the database intelligence, security compliance, and performance optimization engine within the DSD Forge™ modular ecosystem. It unifies security compliance, performance diagnostics, and AI-driven remediation into a single platform—eliminating fragmented tooling and allowing teams to move rapidly from vulnerability detection to active remediation across SQL Server and database infrastructure environments.

CORE FUNCTIONALITY

- AUTOMATED STIG COMPLIANCE SCANNING**
 Executes automated security checks and interprets DISA STIG compliance findings across SQL Server database environments.
- AI-DRIVEN REMEDIATION GENERATION**
 Interprets complex STIG guidance and automatically generates actionable, executable SQL remediation scripts to correct configuration gaps.
- PERFORMANCE DIAGNOSTICS & RELIABILITY**
 Resolves critical database bottlenecks via advanced wait statistics analysis, missing index identification, and deadlock detection.
- SECURE AIR-GAPPED EXECUTION**
 Operates with zero cloud dependency for disconnected, classified, or highly regulated defense contexts.

MISSION IMPACT

OptiBase eliminates database compliance backlogs and prevents costly operational outages by replacing manual DBA auditing with instant, AI-driven STIG remediation and proactive health monitoring across secure environments.

WHERE OPTIBASE IS USED IN DSD FORGE™

GOAL PHASE	REQUIREMENTS	DESIGN & DEVELOPMENT	BUILD & INTEGRATE	TEST & SECURE	DEPLOY, AUTHORIZE, OPERATE & MONITOR
OPTIBASE	Define system & security requirements <i>Astra gathers initial parameters via standardized questionnaires</i> <i>Kalvis refines requirements with SMEs.</i>	Define architecture & security patterns; write secure code <i>Astra defines compliant cloud architecture templates and embeds NIST 800-53 controls into infrastructure design.</i> <i>Kalvis decomposes work into structured components</i>	Automate building, testing, and packaging <i>Astra generates IaC, builds pipelines, and applies secure configuration baselines.</i> <i>IL2-IL4 compliant.</i>	Validate functionality and enforce security <i>Scans databases for STIG compliance, interprets guidance, and generates remediation SQL if needed.</i> <i>Astra automates scanning, runs compliance validation, and enforces NIST 800-53.</i> <i>Kalvis runs functional checks and validation.</i>	Release; prove secure operation; monitor & maintain compliance <i>Executes ongoing STIG compliance validation, tracks remediation, and monitors interventions continuously.</i> <i>Astra maintains pipeline integrity.</i> <i>Veles ingests outputs, evaluates evidence, and validates artifacts.</i>
	 	 		  	  

CONTACT US FOR A DEMO

