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Modular and Adaptable Environment

The Modular Solutions Environment or MSE is a state-of-the-art, cloud-hosted, and fully accredited platform as a service with DevSecOps pipeline at Technical Readiness Level 7 specifically architected for impact level (IL) 4 and 6 networks across the Department of Defense (DoD).

Empowering Innovation

MSE hosts and supports numerous applications in multiple stages of development, testing, and production in a highly scalable, modular, and adaptable environment. By mimicking a DoD production environment, MSE validates the functionality of vendor software solutions on DoD networks before acquisition or release.

MSE is not proprietary. Unless required otherwise by vendor contracts, the MSE code and the code of all applications deployed through it are government-owned, as is all data collected and stored through MSE. The government can rapidly modify and adapt MSE to emerging and changing requirements to meet mission demands without the constraints of vendor-owned solutions.

Whether on-premises, hybrid, or at the edge in a Denied, Disrupted, Intermittent, and Limited Impact or DDIL environment, MSE tailors ready-made environments to your mission.

Accelerating Mission Success

MSE drastically decreases the time to achieve an Authority to Operate (ATO) by leveraging preexisting infrastructure as code proven to work on the DoD Information Technology Network.

Each application on MSE passes through the rigorously tested and standardized DevSecOps continuous integration and continuous delivery (CICD) pipeline with phases for planning, development, testing, staging, and production.

MSE handles many of the DoD standard security controls, including data encryption, network security, access controls, reporting, and documentation. Built-in automatic security tools give the government not just a final seal of approval, but detailed reports about why software is or is not secure, plans for issue remediation, and ongoing, continuous monitoring to keep software up-to-date and secure.

User-Focused and Highly Customizable

Users access MSE from a highly customizable, browser-based user interface (UI) that allows for a user experience that is tailored to the specific mission or requirement. The UI can include access to documentation, code repositories, and a data catalog as needed for the specific implementation of the MSE. Tightly moderated user authentication and authorization enable granular control of access to files, code repositories, data, and anything else in the environment.

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Once authenticated, MSE supports common access card and username and password log-in methods. A highly customizable landing page allows access to the different areas of MSE based on authorization level, including documentation, code repositories, shared folders, and any program-specific requirements. This single point of entry improves the user experience, reducing frustration and increasing productivity.

| Multi Cloud-Based Infrastructure	Government-Owned	Supports Hybrid Solution	Decreased Time to ATO	Accessed by a Web-Based UI	Rooted in Zero Trust	Architected for IL4 and IL6

Capability

LMI's state-of-the-art, cloud-hosted, and fully accredited MSE is specifically suited for the development and introduction of new solutions, capabilities, and applications. MSE hosts and supports numerous applications in all stages of development and testing.

MSE consists of a production-ready CICD pipeline, a data pipeline, and a platform for architecting, testing, and deploying applications into production.

With respect to the data layer, the MSE is highly scalable and modular allowing users to leverage pre-existing data sources via Application Programming Interface (API), to deploy a customizable data pipeline to ingest new data, or to store existing data for rapid access.

The MSE also hosts and makes available industry-standard, DoD-accredited tools and technologies as part of the platform, putting more power in the hands of innovators and further accelerating development.

Additionally, the MSE provides users with a common testing and evaluation environment that mimics a DoD production environment. This simulated production environment enables innovators to certify their software will function on DoD networks before release. Notoriously time-consuming processes, such as troubleshooting networking errors and establishing appropriate security controls, can be tested, and completed during the development process, ensuring functionality is delivered to users rapidly and securely.
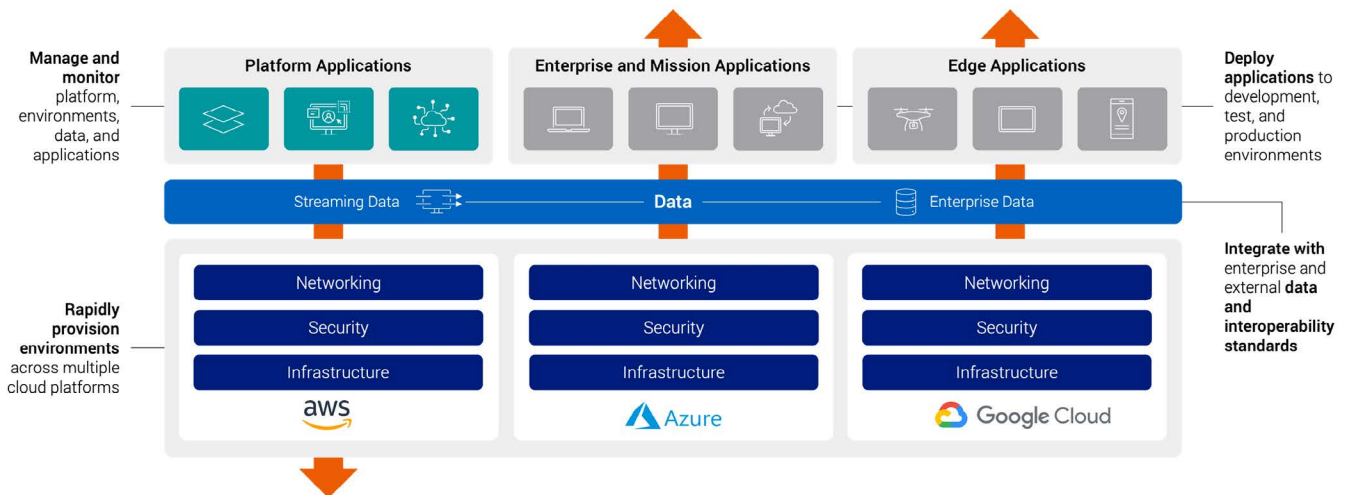
Software has become indispensable to nearly all military missions and operations. Military programs need to develop, deploy, and adapt software resiliently and rapidly to overcome the dynamic challenges of the modern battlefield. Legacy technology strategies' processes, policies, and hardware-based systems are incompatible with this reality. However, emerging technologies and practices must conform to the stringent security and operational requirements of DoD. MSE strikes the right balance between the flexibility and speed of industry offerings and the security and resilience that government needs.