"TechSur Solutions' DevSecOps Approach to Strengthening FEMA's Cybersecurity Program"

Case Study by: TechSur Solutions, an 8(a) EDWOSB Transforming Emergency Management with Emerging Technologies

In this case study, we will:
- Detail a successful project where TechSur Solutions implemented DevSecOps to enhance an organization's cybersecurity posture.
- Highlight the best practices and lessons learned in integrating security measures throughout the software development lifecycle.
- Discuss the relevance and applicability of these insights to FEMA's cybersecurity objectives.

"When the requirements for a new software application are developed, the security requirements should be included. We all know this, but why haven't we embraced this more fully? It's the trust factor, and it's the timelines. Sometimes it's difficult to wedge in security in those milestones. Understanding that security will affect the implementation timeline [means] we have to talk about software development."

— Gregory Edwards, *FEMA CISO*

Introduction

TechSur Solutions successfully implemented DevSecOps at the Government Accountability Office (GAO) to enhance their cybersecurity posture. The project involved the implementation of a DevSecOps platform for 85+ applications using Java, PHP, and Cold Fusion platforms. The best practices and lessons learned from this project include:

- **Integration of security measures throughout the software development lifecycle**: TechSur Solutions implemented a CI/CD pipeline using Ansible, Jenkins, Nexus, Sonar, and Selenium, which integrated security measures at every stage of the software development lifecycle.

- **Containerization of applications**: TechSur initiated the containerization of current applications and completed three applications, which improved the security and scalability of the applications.

- **Implementation of continuous security**: TechSur's DevSecOps specialists implemented continuous security to ensure highly-secure DevSecOps operations, which helped the GAO to achieve their cybersecurity objectives.

The insights from this project are relevant and applicable to FEMA's cybersecurity objectives. FEMA can benefit from TechSur Solutions' expertise in DevSecOps to enhance their cybersecurity posture and ensure the security of their applications. By implementing DevSecOps and integrating security measures throughout the software development lifecycle, FEMA can ensure that their applications are secure and meet their cybersecurity objectives.

TechSur Solutions offers a comprehensive [DevSecOps platform](#) that helps organizations to integrate security measures throughout the software development lifecycle. The platform includes a range of tools and services, including security automation, continuous security testing, and DevSecOps implementation. The platform helps organizations to improve their security and compliance, reduce time to market, and enhance collaboration between development and security teams. TechSur Solutions' DevSecOps platform is designed to meet the unique needs of each organization, ensuring that they can achieve their DevSecOps objectives and enhance their cybersecurity posture. Download our DevSecOps Platform one-pager [here](#).

Conclusion:
TechSur Solutions' DevSecOps approach has proven to be successful in strengthening the GAO's cybersecurity program. The best practices and lessons learned from this project can be applied to other organizations, including FEMA, to enhance their cybersecurity posture and achieve their cybersecurity objectives.