



Accelerating Secure Software Delivery with a Three-Step Approach

Executive Summary

The rapid evolution of cloud-native architectures has ushered in unprecedented agility and scalability for organizations. However, this transformation has also introduced a complex landscape of security challenges. The distributed nature of microservices, the accelerating pace of software development, and the intricate supply chain ecosystem create an environment ripe for vulnerabilities to exploit. To mitigate these risks and ensure the integrity of cloud-native applications, a comprehensive and proactive approach to security is imperative.

RapidFort offers a transformative solution to address these challenges. Our platform provides a three-step methodology to accelerate secure software delivery while maintaining the highest standards of protection. By leveraging curated, zero CVE base images, automating vulnerability assessment and remediation, and implementing continuous monitoring, organizations can significantly reduce their attack surface, enhance compliance, and accelerate time-to-market.

This whitepaper delves into the intricacies of cloud-native security, highlighting the specific challenges faced by large enterprises. It provides a detailed exploration of RapidFort's three-step approach, showcasing how our platform empowers organizations to achieve a 95% reduction in software vulnerabilities, streamline DevOps processes, and build a robust security posture.



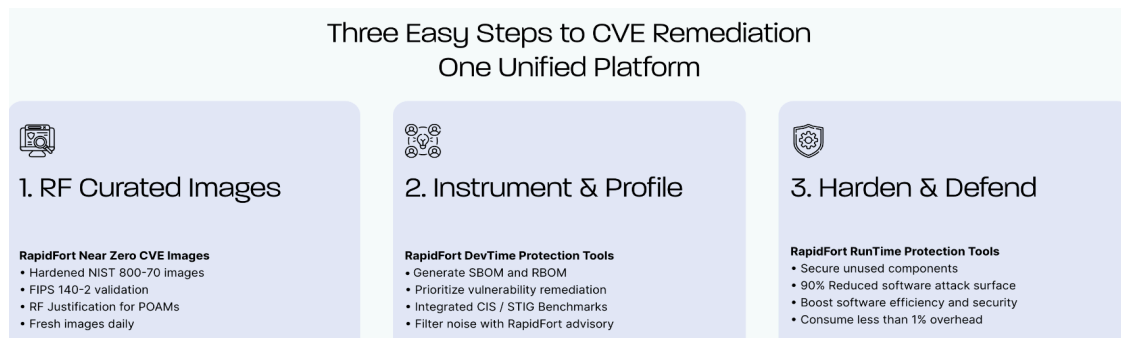
The Evolving Threat Landscape

The cloud-native paradigm has fundamentally altered the way software is developed, deployed, and managed. While offering numerous benefits, it has also introduced a new set of security challenges:

- **Complex attack surface:** The distributed nature of microservices creates a vast and intricate attack surface, making it difficult to identify and protect vulnerabilities.
- **Supply chain risks:** The reliance on third-party components and open-source software introduces potential vulnerabilities that can propagate throughout the application ecosystem.
- **Rapid development cycles:** The accelerated pace of development can lead to security being overlooked in favor of speed, increasing the risk of vulnerabilities being introduced.
- **Dynamic environments:** Cloud-native applications operate in highly dynamic environments, making it challenging to maintain consistent security controls.

To effectively address these challenges, organizations must adopt a holistic approach that encompasses the entire software development lifecycle.

RapidFort's Three-Step Approach to Secure Software Delivery



RapidFort offers a proven methodology to secure cloud-native applications, consisting of three key steps:

Step 1: Build on a Solid Foundation

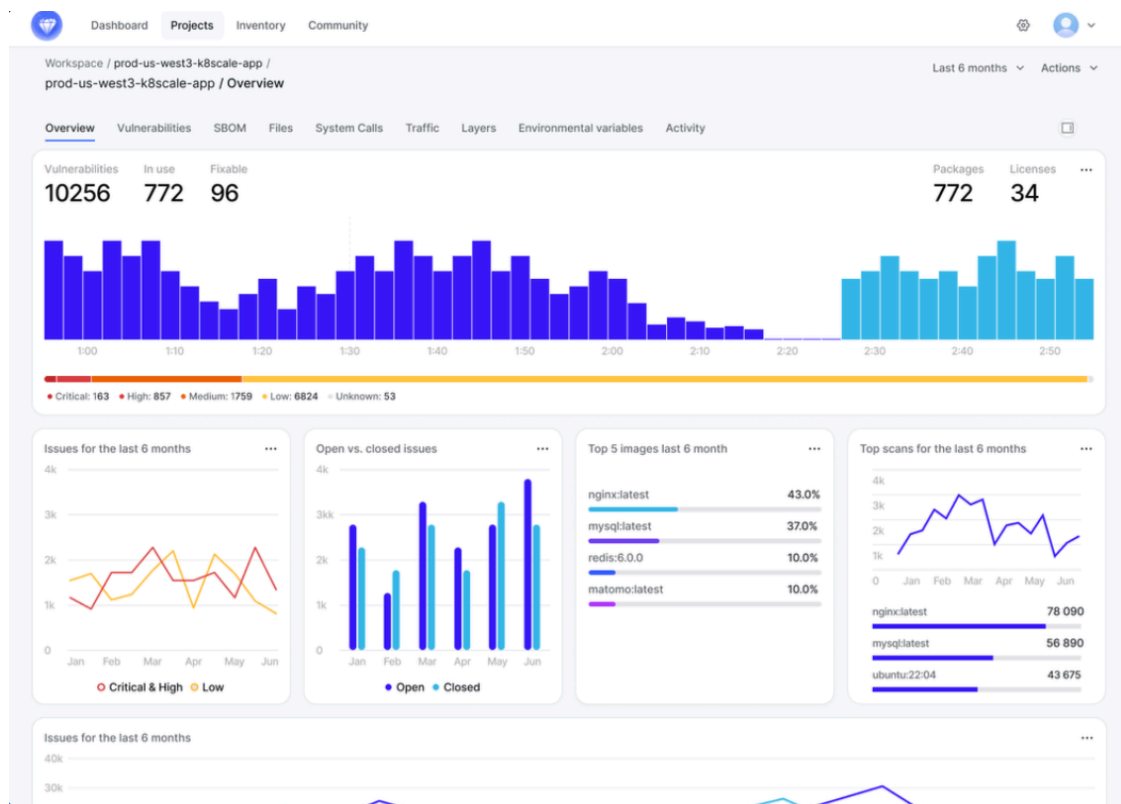
The cornerstone of secure software development is a robust and trusted foundation. RapidFort provides curated, zero CVE base images that serve as the starting point for application development. These images undergo rigorous security testing and hardening, eliminating common vulnerabilities and reducing the attack surface from the outset. By leveraging these curated images, organizations can accelerate development while ensuring a higher level of security.

Step 2: Gain Deep Visibility and Control

Understanding the composition and dependencies of an application is crucial for effective vulnerability management. RapidFort's advanced instrumentation and profiling capabilities generate detailed software bills of materials (SBOMs) and risk-based bills of materials (RBOMs). This granular visibility enables organizations to identify potential vulnerabilities, prioritize remediation efforts, and make informed decisions about software components.

Step 3: Automate, Harden, and Protect

Continuous hardening and monitoring are essential for maintaining a secure application environment. RapidFort automates the process of identifying and remediating vulnerabilities, ensuring that applications are always up-to-date with the latest security patches. By integrating seamlessly with CI/CD pipelines, RapidFort ensures that security is embedded into the development process. Additionally, the platform provides robust monitoring capabilities to detect and respond to emerging threats.



Reducing the Burden on DevOps Teams

DevOps teams are under constant pressure to deliver software faster while maintaining high quality. The manual process of patching vulnerabilities is time-consuming and error-prone. RapidFort automates vulnerability remediation, freeing up DevOps teams to focus on delivering new features and improving application performance.

By adopting a preventative rather than reactive approach to security, organizations can significantly reduce the risk of breaches and minimize the impact of incidents. RapidFort's platform empowers DevOps teams to build and maintain secure software without compromising speed or agility.

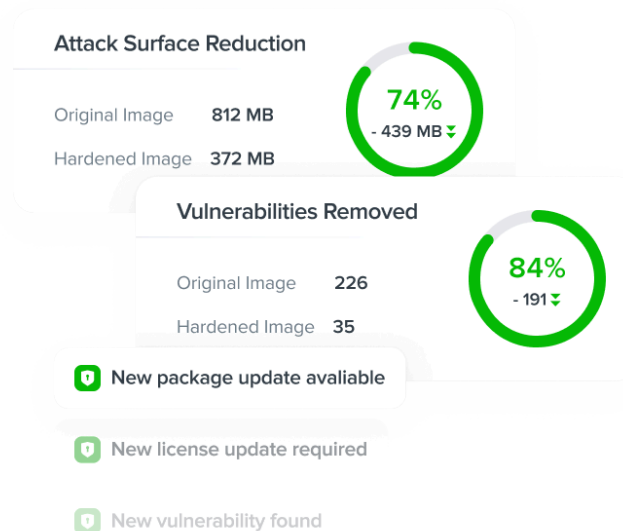
Accelerating Secure Software Delivery for Large Organizations

Large organizations face unique challenges in securing their complex IT environments. The need to comply with stringent regulations, protect sensitive data, and manage multiple development teams necessitates a comprehensive and scalable security solution.

RapidFort addresses the specific needs of large organizations by providing:

- **Centralized visibility:** Gain insights into the security posture of your entire application portfolio.
- **Scalability:** Handle increasing workloads and growing application complexity.
- **Compliance support:** Meet industry standards and regulations with ease.
- **Integration capabilities:** Seamlessly integrate with existing security tools and infrastructure.

By adopting RapidFort, large organizations can streamline their security operations, reduce costs, and mitigate risks effectively.



Conclusion

In today's threat landscape, securing cloud-native applications is no longer an option but a necessity. RapidFort offers a comprehensive and effective solution to address the challenges faced by organizations of all sizes. By combining advanced technology with a deep understanding of security best practices, RapidFort empowers organizations to accelerate secure software delivery while maintaining the highest level of protection.

To learn more about how RapidFort can help your organization achieve its security objectives, request a demo or free trial today. Our experts will work closely with you to understand your specific needs and develop a tailored solution.

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