

## The Rise of Containers and DevOps

In today's ever dynamic business environment, speed, agility, and innovation are requirements to remain competitive. Companies often practice agile DevOps methodologies and utilize technologies, like containers and PaaS, which allow them to quickly deliver quality applications to customers. While this practice creates a more agile development lifecycle, it often puts a huge strain on security. Typical security efforts do not permit the agility that container security demands. Traditional security methods risk potential deployment delays due to the necessity and lengthy process of verifying the security. This often adds days of delays and defeats the intent of utilizing containers in the first place. In order to correctly secure containers, companies must understand the risks and implement a new approach to security practices.



## The Threat to Containers

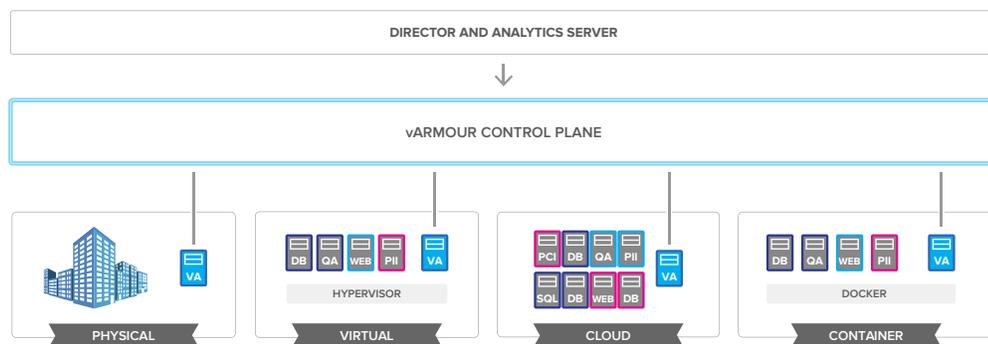
Utilizing the basic container and PaaS security frameworks may leave companies exposed since these tools often lack critical controls. In addition, most security systems are not consistent with those deployed elsewhere in data centers or in the cloud, making it difficult to integrate with the rest of your security architecture. It is virtually impossible for traditional firewall-based policies to enforce the agile nature of containers while simultaneously providing visibility to understand relationships between them. Traditional host-based security agents also lack proper context to enforce different policies on different containers within the same host. You can't protect what you can't see, so without visibility, it is practically impossible to assure that your container environment is secure while accommodating the rapid velocity of Agile and DevOps-enabled lifecycles.

## The Solution: Securing your Containers with vArmour

vArmour's agentless security solution developed for containers helps achieve automated security by integrating with applications intent and workflows. The vArmour solution is easy to deploy and seamlessly integrates directly with popular DevOps orchestration tools and application metadata. It integrates with the

Red Hat OpenShift Platform, with broader support for other container ecosystems to follow. vArmour's security is built in, not 'bolted on' at the last minute, whereby providing full visibility over all of the container workloads being deployed. With full visibility, vArmour performs auto-discovery and labeling to group workloads in trusted and untrusted groups so operators can securely accommodate multiple business and threat models within the same infrastructure. For additional context and security, vArmour offers the ability to both ingest and describe application deployments using labels. This forms a policy that is both network and infrastructure agnostic as well as application focused forming the basis of automated security policy. In addition, vArmour's solution allows operators to validate their policies and test for efficacy before inline deployment. When the policy meets companies needs, vArmour is ready to microsegment the application deployments and enforce the policies.

vArmour's solution ensures best security practice which can be applied across the entire enterprise attack surface, wherever and however applications are instantiated. The ability to bridge the gap between DevOps and Security teams means that businesses can encourage the efficiency of containers and create value for customers in a secure yet agile fashion.



**vArmour Solution:** Securing your Containers with vArmour

## About vARMOUR

vArmour, the data center and cloud security company, delivers agentless integrated security services to auto-discover application communications, optimize policy modeling, and protect critical applications and workloads across multi-clouds. Based in Mountain View, CA, the company was founded in 2011 and is backed by top investors including Highland Capital Partners, Menlo Ventures, Columbus Nova Technology Partners, Work-Bench Ventures, Allegis Capital, Redline Capital, and Telstra. The vArmour DSS Distributed Security System is deployed across the world's largest banks, telecom service providers, government agencies, healthcare providers, and retailers. Partnering with companies including AWS, Cisco, HPE and VMware, vArmour builds security into modern infrastructures with a simple and scalable approach that drives unparalleled agility and operational efficiency.