

SANS 2022 Securing Containers in Your Ops Workflow Report

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Publication Date: **June 15th, 2022**

Analyst Program 

OVERVIEW

Every day, organizations implement newer and more efficient development life cycles. Over the last few years, we have seen significant adoption of container technology, for example, to allow developers to easily build and deploy applications across vast cloud platforms with integrated scalability. However, containers introduce their own complex security issues as many teams struggle to define and secure containers as fast as the development team can deploy them.

MEET THE AUTHOR



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Matt Bromiley is a principal incident response consultant at a top digital forensics and incident response (DFIR) firm, where he assists clients with incident response, digital forensics, and litigation support. He also serves as a GIAC Advisory Board member, a subject-matter expert for SANS Security Awareness, and a technical writer for the SANS Analyst Program. Matt brings his passion for digital forensics to the classroom as a SANS Instructor for FOR508: Advanced Incident Response, Threat Hunting and Digital Forensics, and FOR572: Advanced Network Forensics, where he focuses on providing students with implementable tools and concepts.

In this whitepaper, we examine containers from the perspective of information security. In particular, we look at: security issues posed by insecure or unmonitored containers can pose, as well as security practices that developers can adopt to ensure security visibility. We also explore tools and solutions available for organizations can employ to monitor and secure their containers.

Via a set of case studies, we also look at how adversaries have abused containers in the past and what security measures would have mitigated these attacks. If your organization is building on container technology, but your security team has little insight or input, this paper will help your team develop a plan to successfully integrate and secure these assets.

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