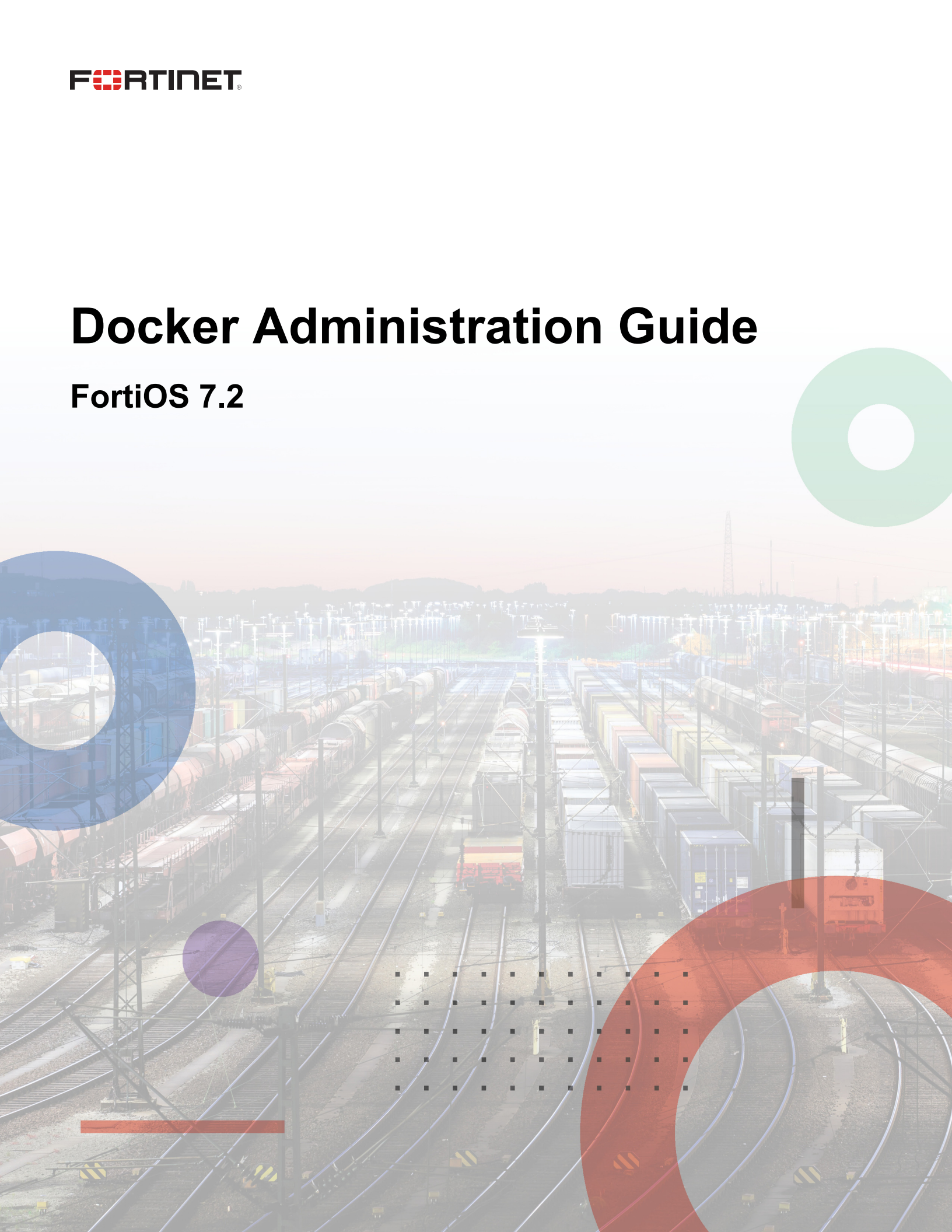


Docker Administration Guide

FortiOS 7.2



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FortiOS 7.2 Docker Administration Guide

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FortiGate-VM on a Docker environment

Unlike FortiWeb-VM, you cannot deploy FortiGate-VM as a Docker container. However, FortiGate-VM can protect various resources in the Docker environment.

Docker's popularity has seen an increasing volume of activities of downloading and uploading Docker images and their manifests over the Internet. Since the majority of the Docker images in the public registries are vulnerable, ensuring that you only download images from a source where they have already been scanned for vulnerabilities is important. To help enforce this policy, FortiGate application control has added signatures for Docker traffic:

Application control signature	Indication of an attempt to:
Docker	Access Docker.
Docker_Pull.Blob	Pull a blob from Docker.
Docker_Push.Blob	Push a blob onto Docker.
Docker_Pull.Manifest	Pull a manifest from Docker.
Docker_Push.Manifest	Push a manifest onto Docker.

By updating the signature after initial FortiGate deployment, you should see the Docker-related application controls when you go to *Security Profiles > Application Control*.

The screenshot displays the FortiGate Application Control interface. On the left, the 'New Application Sensor' configuration page is visible, showing a list of categories such as Business, Email, Mobile, Proxy, Storage.Backup, and VoIP. The main area shows the 'View Application Signatures' window, which includes three donut charts for Category (2134 Total), Technology (2253 Total), and Risk (2134 Total). Below the charts is a table of application signatures.

Name	Category	Technology	Popularity	Risk
Distributed.Net	General.Interest	Client-Server	★★★★☆	Low
Dlited	Social.Media	Browser-Based	★★★★☆	Low
Docker	Collaboration	Client-Server	★★★★☆	Low
• Docker_Pull.Blob	Collaboration	Client-Server	★★★★☆	Low
• Docker_Pull.Manifest	Collaboration	Client-Server	★★★★☆	Low
• Docker_Push.Blob	Collaboration	Client-Server	★★★★☆	Low
• Docker_Push.Manifest	Collaboration	Client-Server	★★★★☆	Low

You can configure firewall policies to allow pulls and pushes with known clean private Docker registries using their IP addresses (or IP addresses except for malicious and blocklisted ones) as sources or destinations while having awareness of Docker-related application in traffic.

Apart from application control, the FortiGate also scans all traffic in the Docker environment for vulnerabilities and file-based threats using the Intrusion Prevention Service and Advanced Malware Protection.

Change log

Date	Change Description
2022-03-31	Initial release.



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