Cloud-Native Security and Usage Report 2022

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Key 2022 Themes

1. Container adoption is maturing beyond early adopters
2. Lots of talk, not enough action on shifting security left
3. We’re bringing our bad habits with us to the cloud

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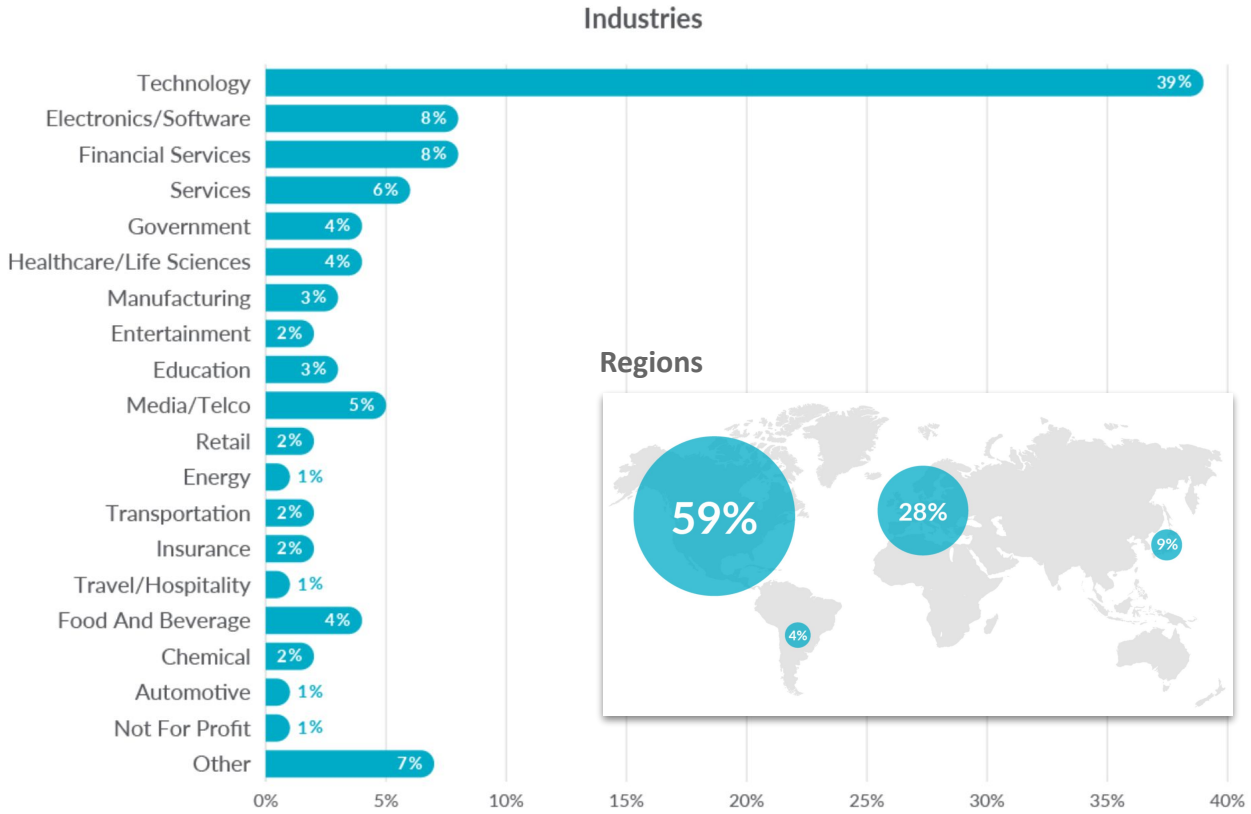
Data Sources

Real world analysis
of
running containers
and dozens of
industries globally



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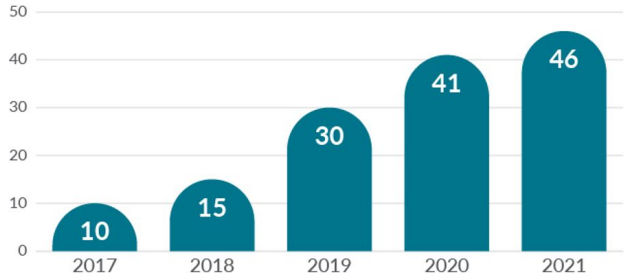
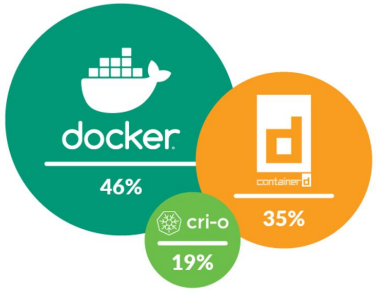
Container statistics

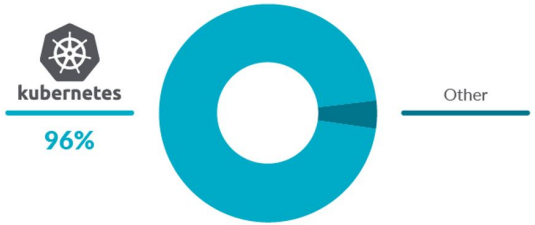
Median containers per host



Runtimes



Orchestrations



Base Image OS

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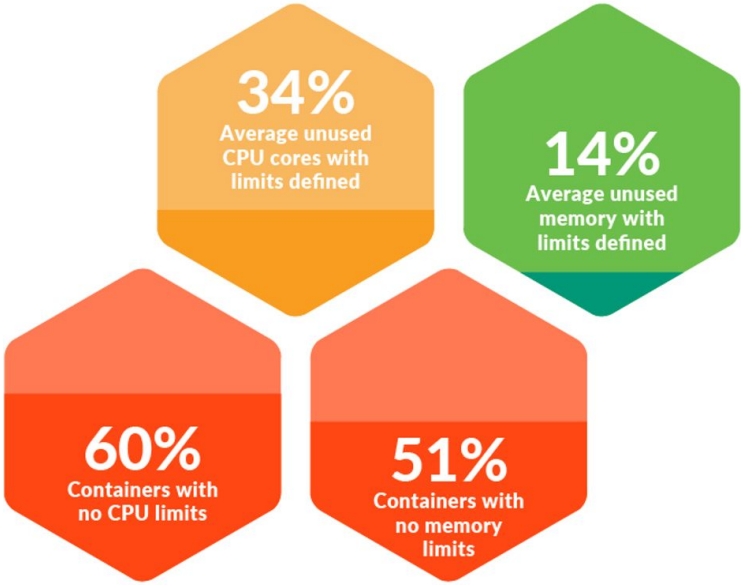
Container statistics



- 50% have no limits defined
- 75% running with high or critical vulnerabilities
- 76% running as root

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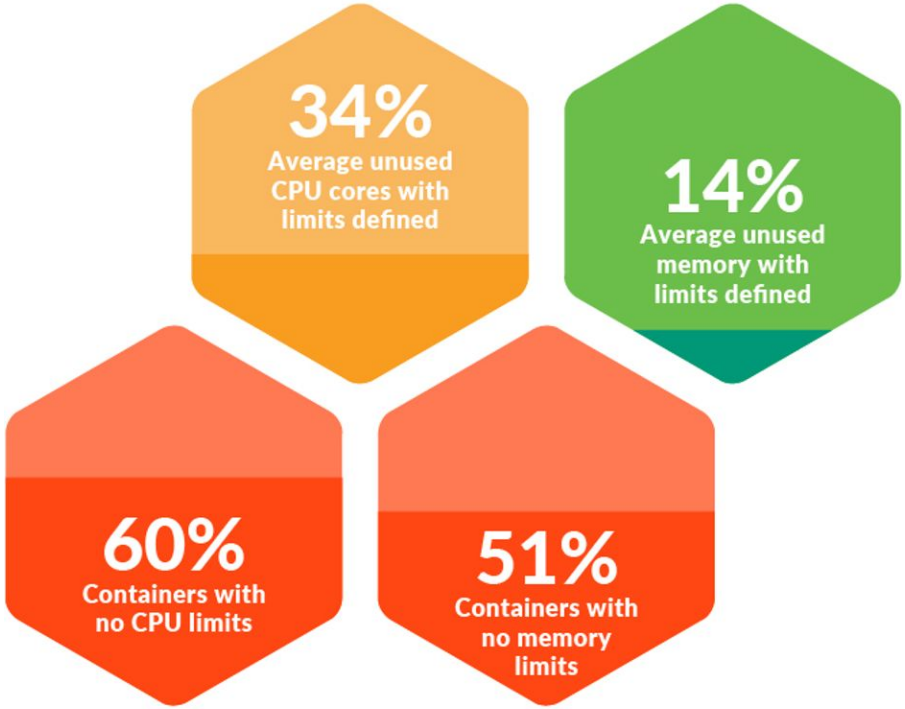
Capacity planning



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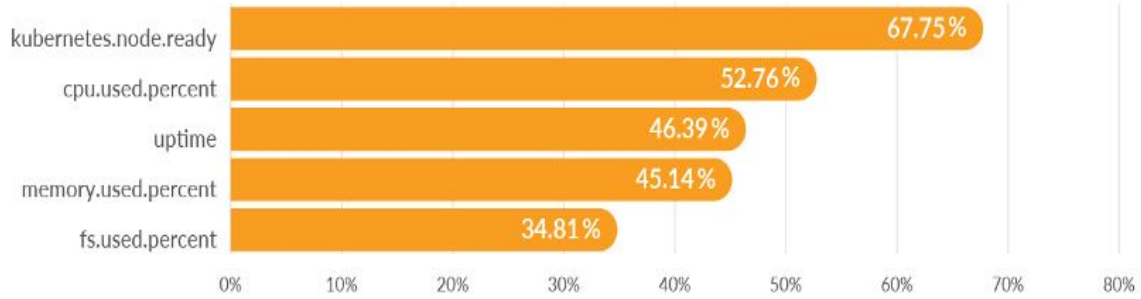
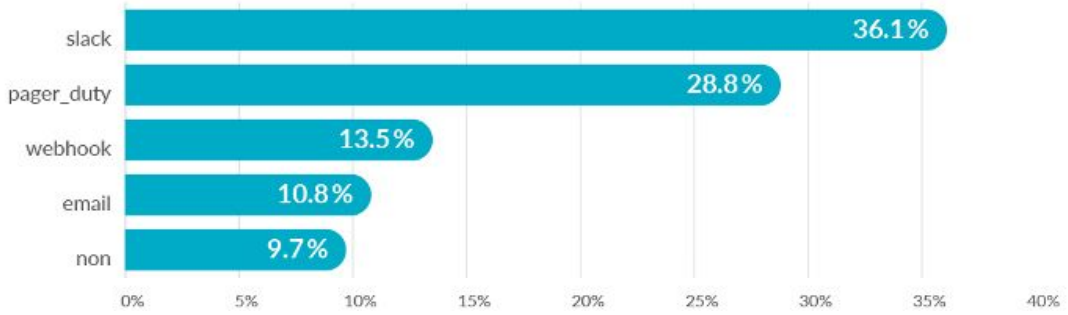
Container alerting

Top 5 Alerts



Top 5 Alert Channels



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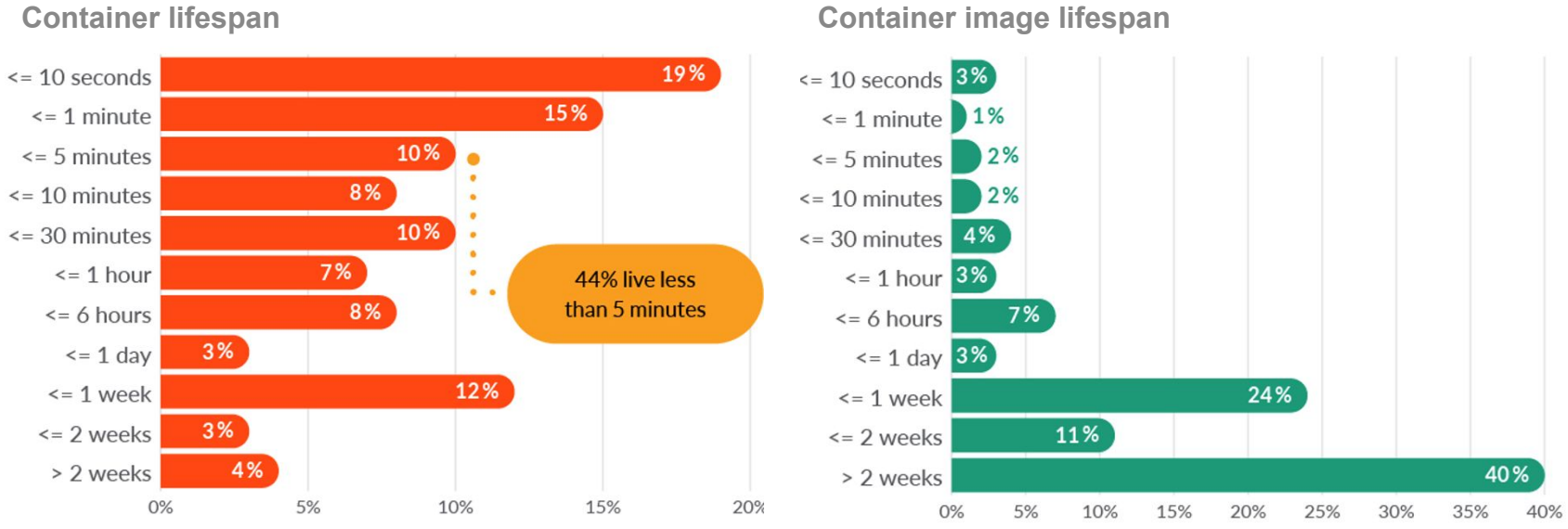
Increasing container lifespan..



…provides more time for attackers to play around

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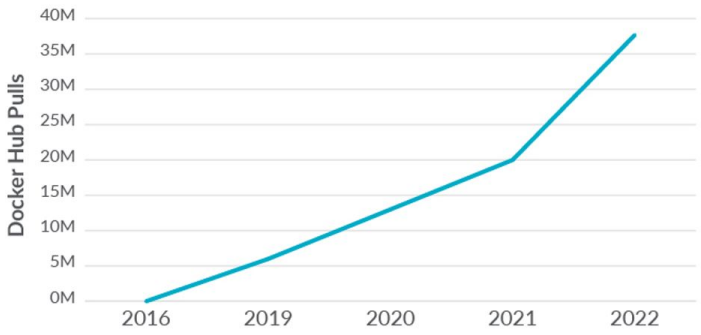
Runtime security

Growth of Falco



927 contributers

13.132 code commits

4.648 stars

25K contributions

Runtime security alerts

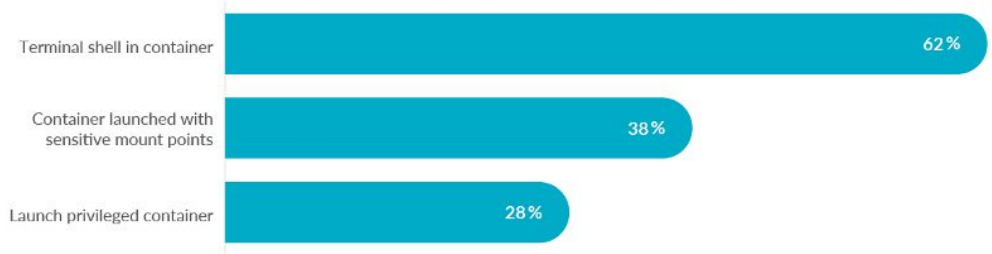


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Image scanning

OS vulnerability by severity

Where are images scanned

Non-OS vulnerability by severity

Patchable vulnerabilities in Runtime

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Cloud Security and Identity

Cloud Identity and Access

27%

of customers use the root user account for administrative tasks

48%

of customers don't have MFA enabled on the root user account

Cloud Users and Roles

- 73% contain publicly exposed S3 buckets
- 36% of all S3 buckets is open for public access
- In AWS public access is disabled by default

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In summary

- Insecure behaviors like containers running as root and cloud accounts having excessive privileges without MFA.
- Shift left – Start scanning your images early in the pipeline
- Scanning containers is not enough, runtime protection is absolutely required.
- Continued growth of Falco indicates that organizations are leveraging cloud security tools to try to improve their posture.

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Seeing is Securing