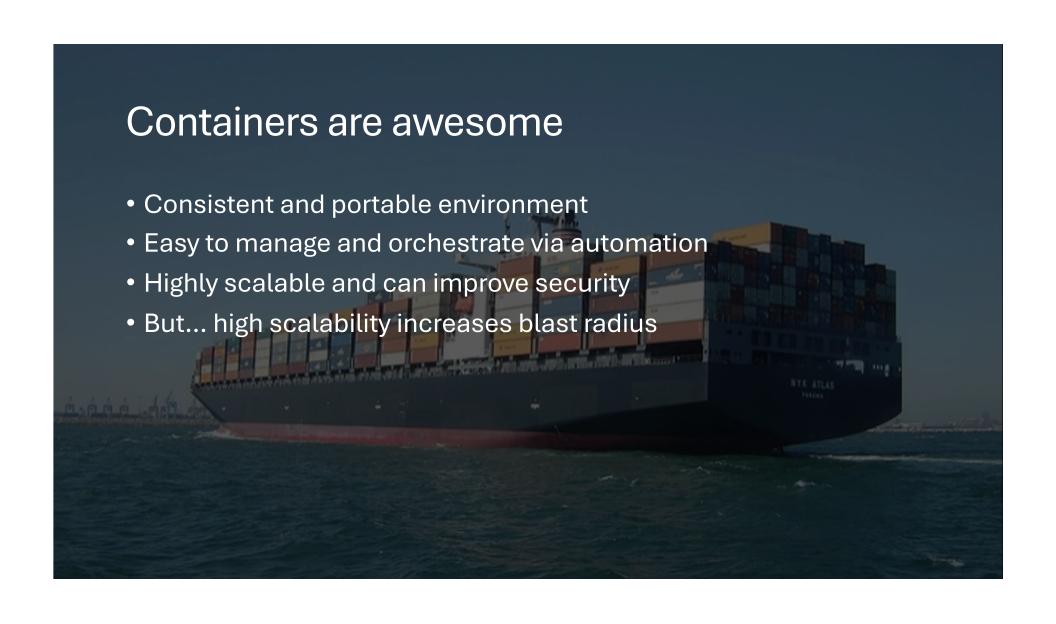
Strengthening the Secure Supply Chain with Open-Source Tools

Paul Yu

Developer Advocate

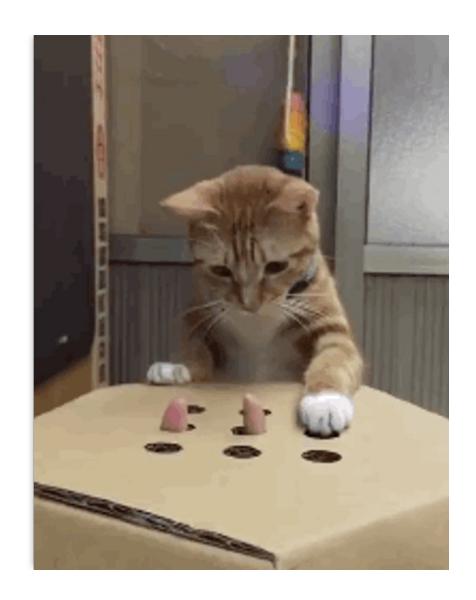
Microsoft

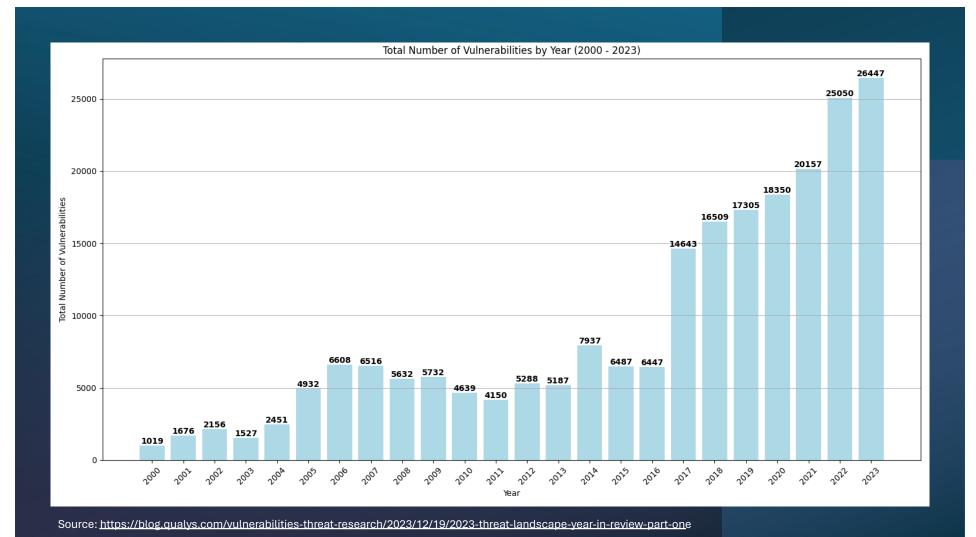
@pauldotyu | /in/yupaul

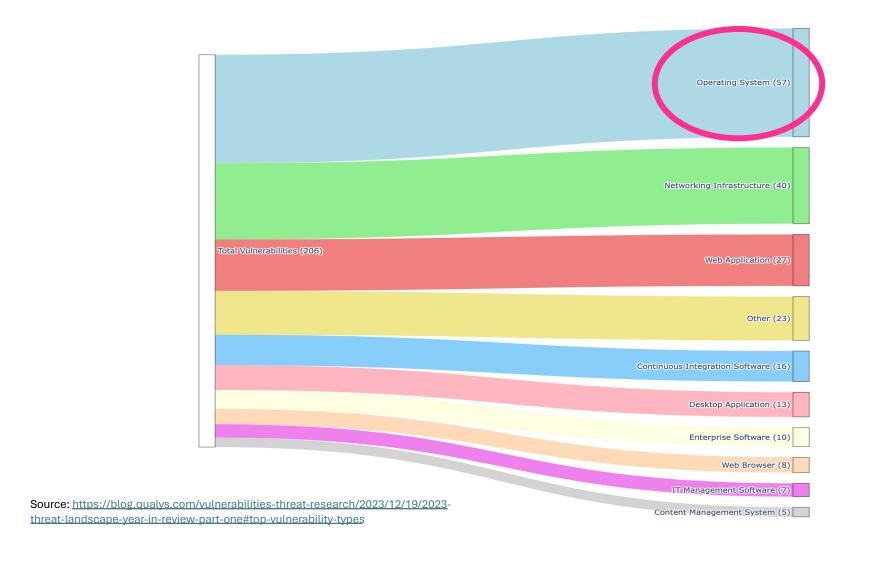


Security vulnerabilities galore

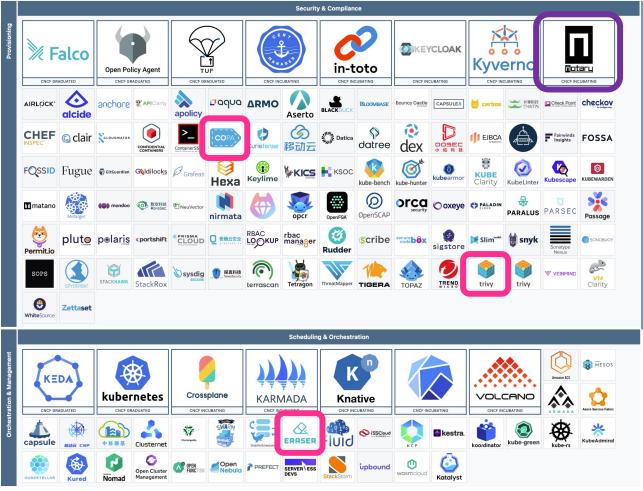
- 50+ CVEs reported daily
- Never ending game of whack-amole













Start here



GitHub Actions

- Continuous integration and continuous delivery platform
- Workflows trigger off an event
- Runners can be GitHub provided or self-hosted





Flux

- CNCF Graduated project (2022)
- Continuous delivery solution via GitOps
- Image update automation to detect and deploy new images



Eraser

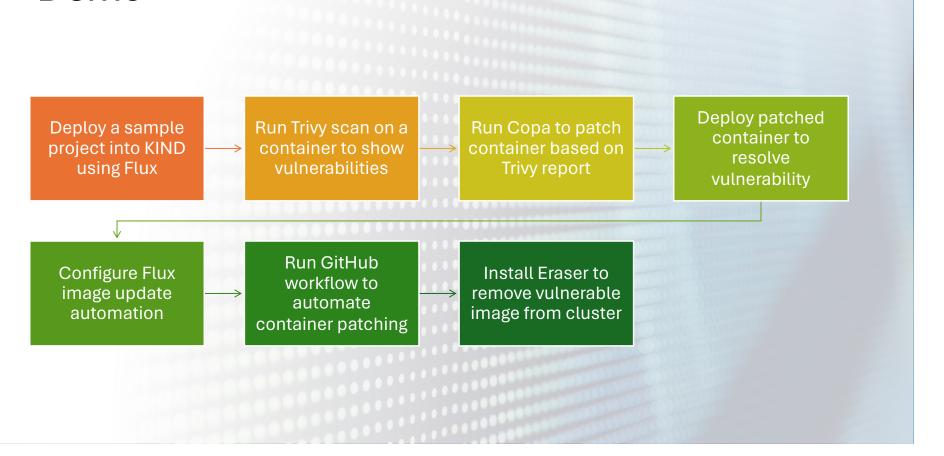
- CNCF Sandbox project (2023)
- Removes non-running images based on vulnerability scans
- Supports Trivy but can integrate with others



Project Copacetic

- CNCF Sandbox project (2023)
- Patch container images based on vulnerability scans
- Supports Trivy but can integrate with others

Demo



Summary



Containers are the best thing since sliced bread



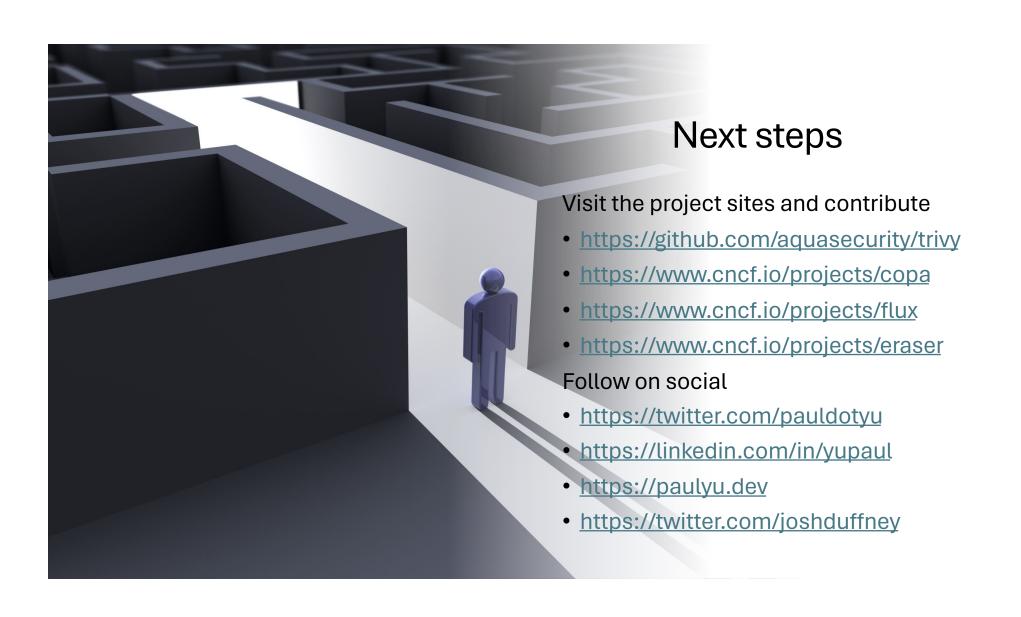
Keeping up with container security is challenging



Open-source tools can help to strengthen the secure supply chain



Supply chain security is just one aspect



https://aka.ms/cloudnative/JoinOSSDiscord

