The Pain of Software Vulnerability: 900 minutes of interviews in 15 minutes of presentation :) 

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Chainguard Labs
How much time do organizations* spend on vulnerability management?

And why is vulnerability management* so painful?

* Organizations that build or operate container-based applications.
* Identifying, triaging, and remediating known vulnerabilities in containers.
Methodology

~10 interviews with software professionals

- All interviewees do vulnerability management as part of their day-to-day job.
- All interviewees work at organizations that build or operate containers.
- 3 pre-interviews. 9 full interviews.
- 60-90 minutes.
- Recorded. Rewatched.
- Analyzed for themes.
- Paid interviewees a flat fee.

ACKNOWLEDGEMENT: Accurately understanding how software professionals spend their time is a software engineering research holy grail. I have not found this particular holy grail :(
Some companies spend A LOT of time on vulnerability management. But not all.

<table>
<thead>
<tr>
<th>Company</th>
<th>Estimated # of Employees</th>
<th>Estimate of Total Annual Direct Staff Hours Spent on Vulnerability Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Logistics</td>
<td>10,000s</td>
<td>~20,000 hours</td>
</tr>
<tr>
<td>U.S. Military Organization</td>
<td>100s</td>
<td>~15,000</td>
</tr>
<tr>
<td>Software provider</td>
<td>1000s</td>
<td>~1250 hours</td>
</tr>
<tr>
<td>Software provider</td>
<td>100s</td>
<td>~1000</td>
</tr>
<tr>
<td>Software provider</td>
<td>100s</td>
<td>~1000 hours</td>
</tr>
<tr>
<td>Software provider</td>
<td>1000s</td>
<td>~200</td>
</tr>
<tr>
<td>Software provider</td>
<td>10s</td>
<td>~100 hours</td>
</tr>
<tr>
<td>Software provider</td>
<td>100s</td>
<td>~150</td>
</tr>
</tbody>
</table>
Vulnerability Management Pain Points (a few of them)

1. App developers impose "externalities" on platform team when choosing base images.
2. False positives are annoying. Interviewees expressed interest organically in VEX.
Should organizations analyze their vulnerabilities? Or try to reduce them? (Or both?)
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