



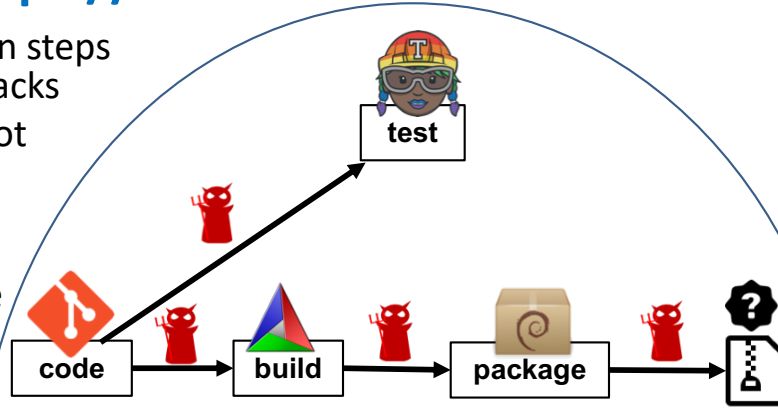
# in-toto: Securing the Software Supply Chain



## Challenge:

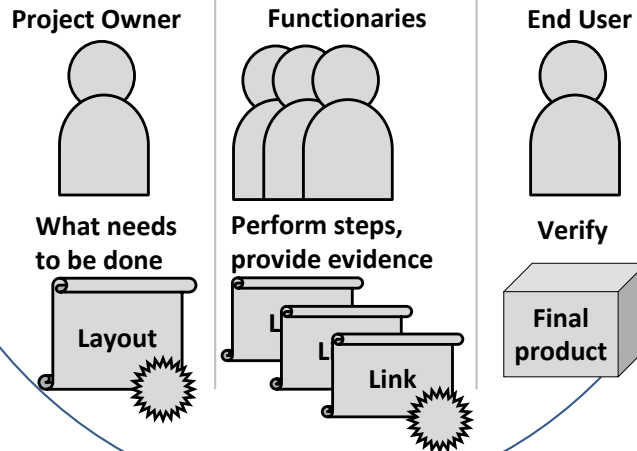
- Software supply chain steps are vulnerable to attacks
- Point solutions are not enough
- No comprehensive framework to systematically secure the entire chain
- Diversity of supply chains

<https://in-toto.io>



## Solution:

- Generate cryptographically signed metadata for each step in the chain, and link together and carry these metadata throughout the entire chain
- Tool agnostic, seamless integration, expressive enough for any supply chain, compromise resilience



## Scientific Impact:

- Raise the bar significantly for many classes of attacks
- Make the software development process transparent and publicly verifiable
- Incentivize developers to follow safe software practices

## Broader Impact:



Through integrations, used by thousands of companies and improves the security of millions of users



Justin Cappos (jcappos@nyu.edu)  
NYU Tandon School of Engineering

Reza Curtmola (crix@njit.edu)  
New Jersey Institute of Technology