



# IS YOUR SOFTWARE SUPPLY CHAIN SECURE?

By Shiva Swaroop N K

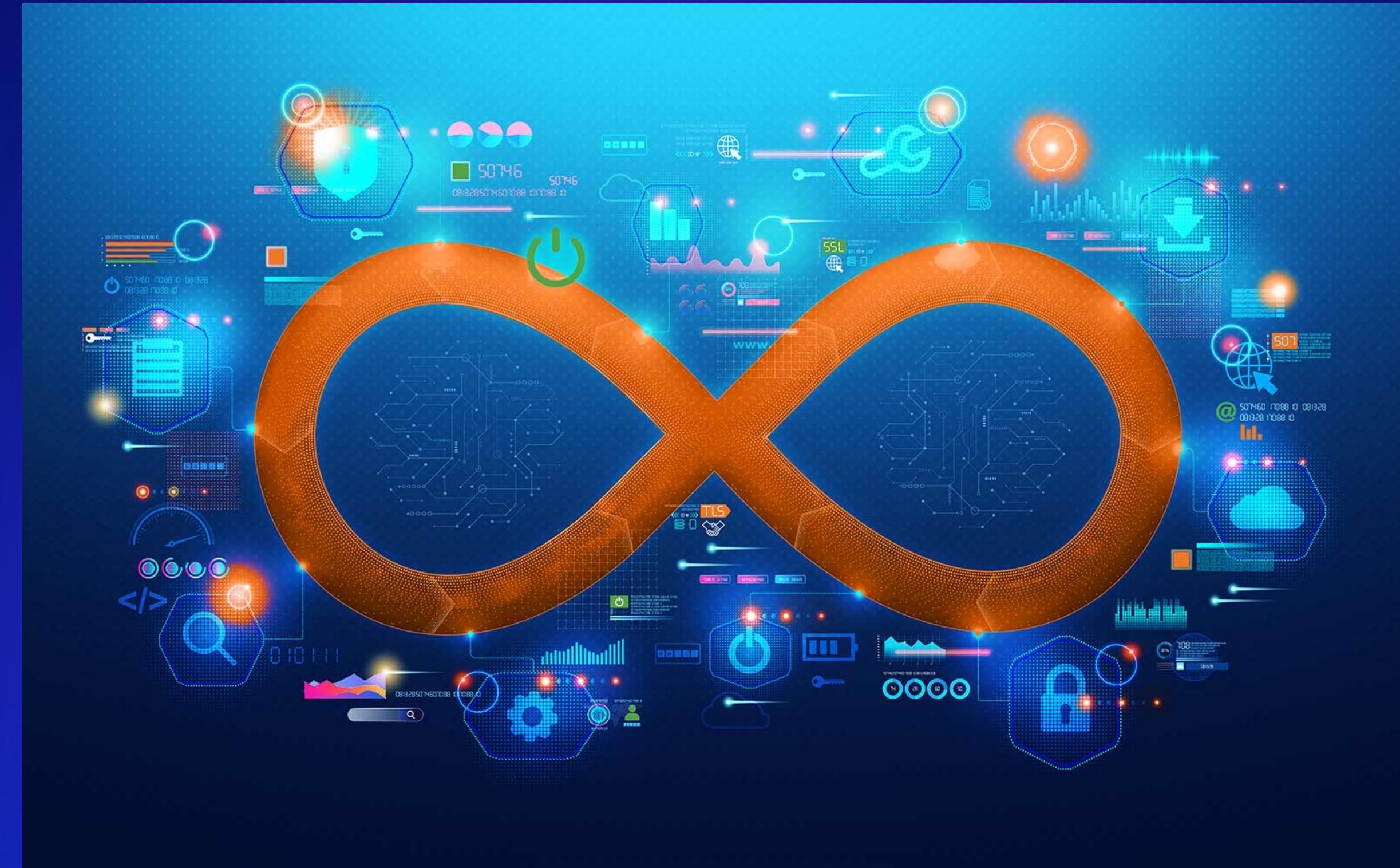
LINKEDIN



GITHUB



# What is a Software Supply Chain?



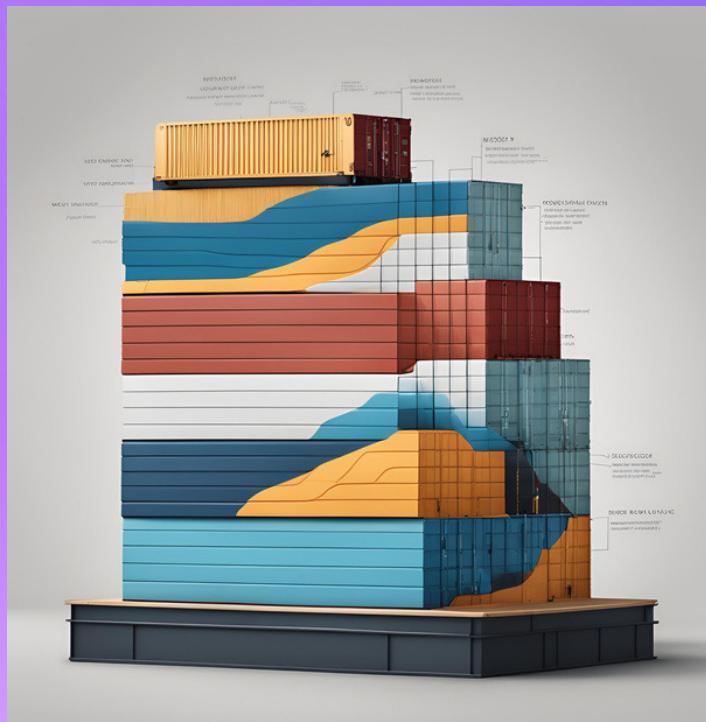
# WHAT IF YOUR SOFTWARE SUPPLY CHAIN WAS COMPROMISED TOMORROW?

Vulnerability	Main Damage	Impact
Windows 10	System compromise, RCE, data theft	Enterprise systems vulnerable
Log4j	RCE, botnets, cryptojacking, supply chain attacks	Global, Widespread impact
XZ Utils	Code execution, DoS	Targeted Linux Systems
Heartbleed	Data leakage (keys, passwords)	Millions of Websites affected
Dirty Pipe	Privilege Escalation, Server Compromise	Critical Linux Environments



# PRIMARY OBJECTIVES

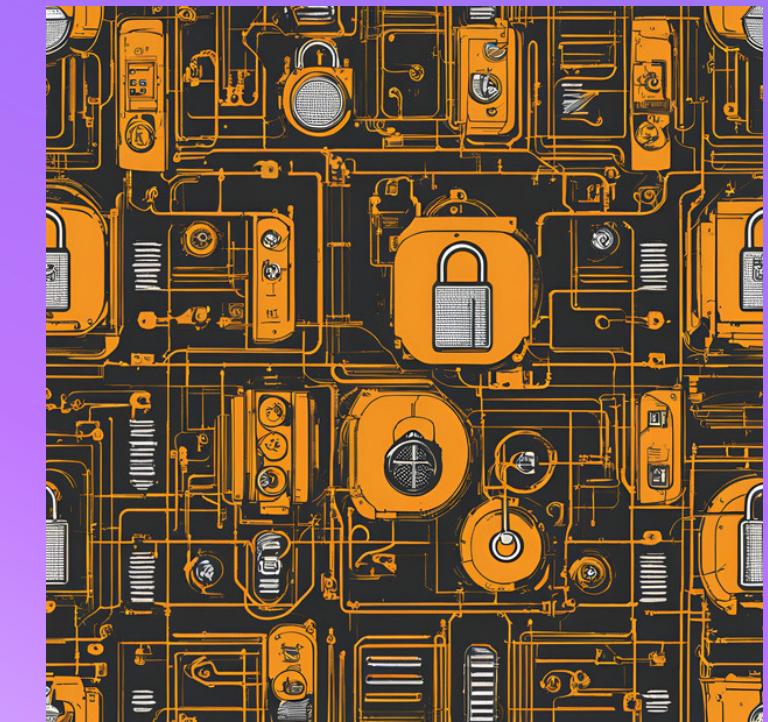
# O CVE BASE IMAGE



# ROBUST BUILD SYSTEMS



# SIGNED AND VERIFIED ARTIFACTS



# CAN WE ACHIEVE (almost) 0 CVE?

- CHAINGUARD
- BUILDSAFE
- TRIVY/SNYK



# ARE OUR SYSTEMS SECURE?

- NETWORK ISOLATION
- RBAC
- ACL



# WHAT DOES SIGNING AN ARTEFACT ACHIEVE?

AUTHENTICITY

INTEGRITY



DEMO TIME



## ADDITIONALLY...

- SBOM
- ATTESTATIONS
- LLMS
- Exposure Queries



# THANK YOU!

LINKEDIN



GITHUB



# REFERENCES

- LinkedIn: Saiyam Pathak Newsletter
- Sigstore with Kyverno
- Buildsafe

# AI Amuse

