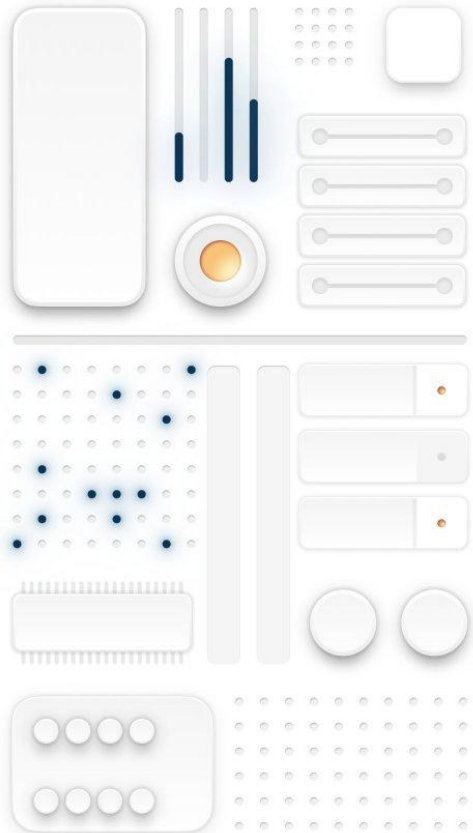


# SECURE-I-OUS SOLUTIONS

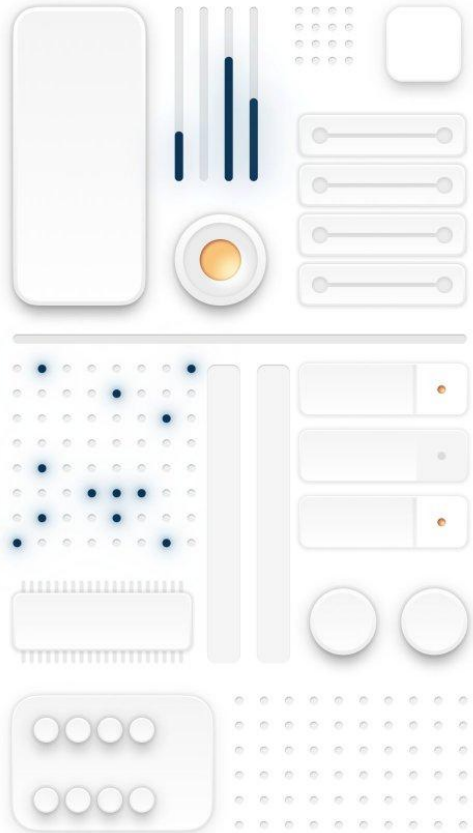
Secret to CloudNative Security

Venue : Microsoft, Gurgaon | Date : 19th October 2024





Modern? What modern?



# Examine tech evolution

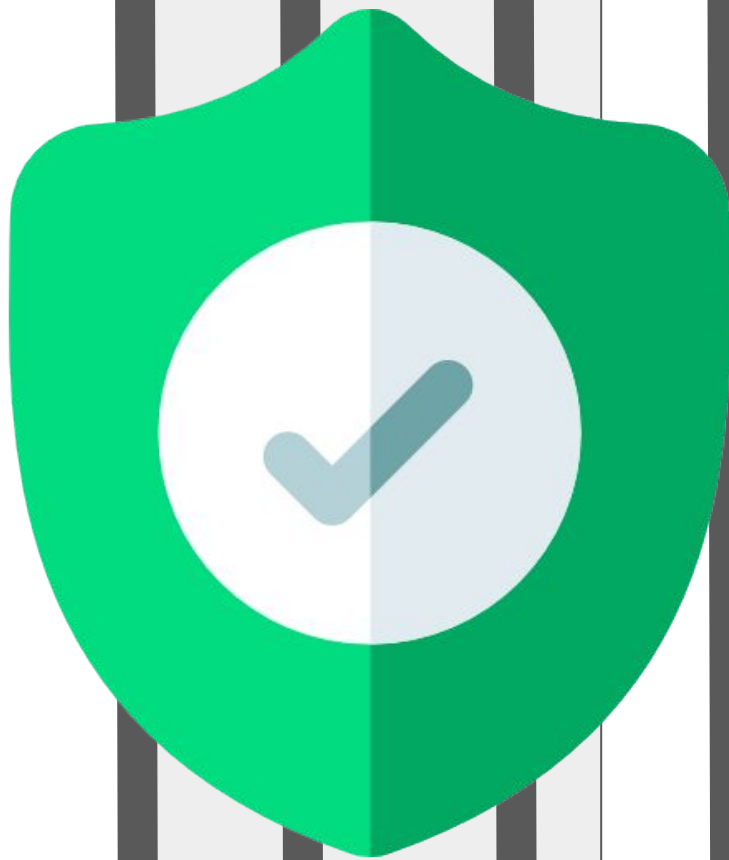


Computer

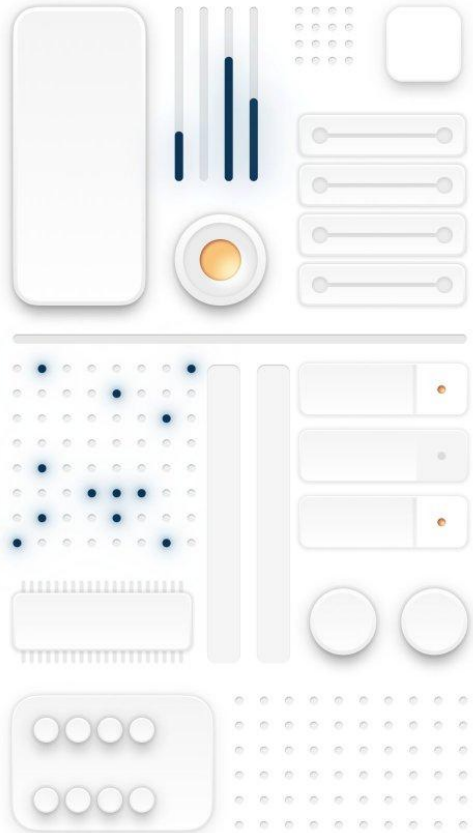


Compute





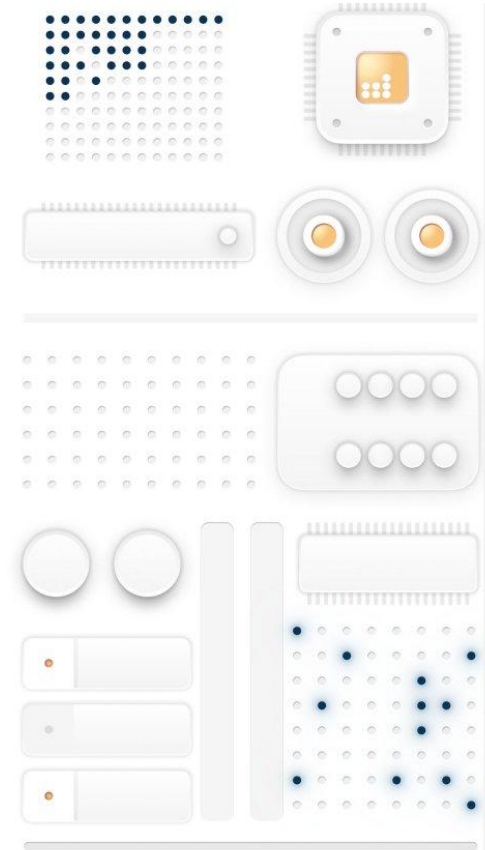




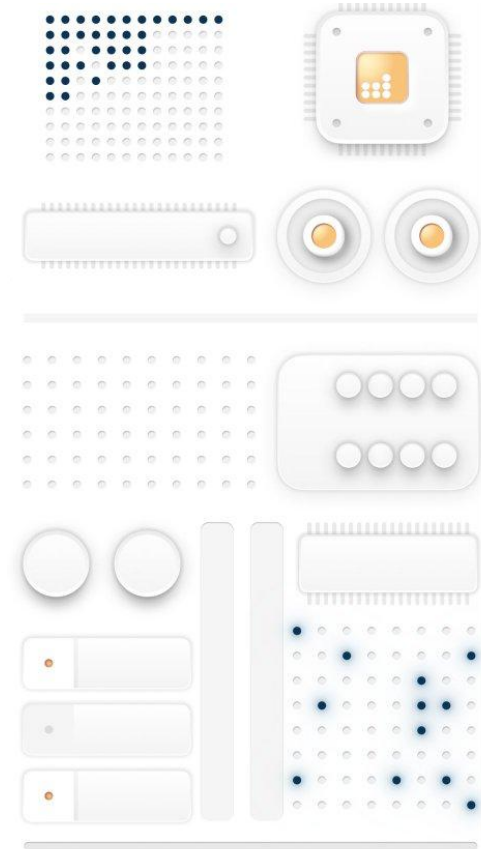
# Connected computers



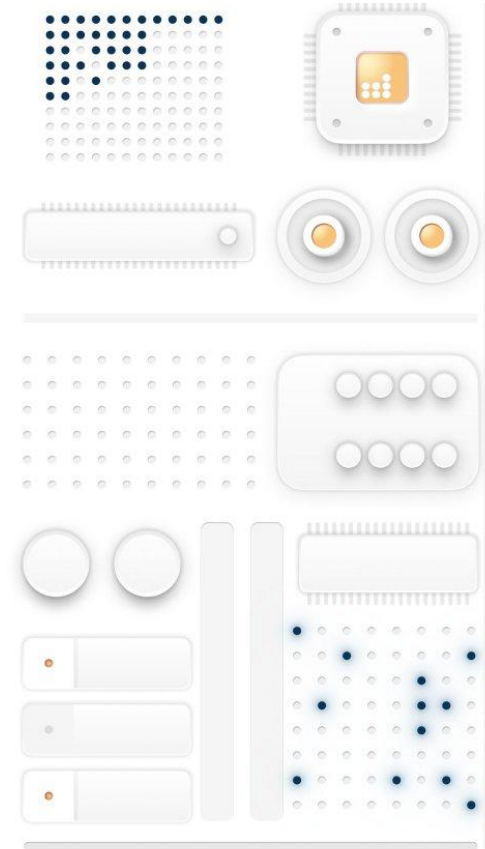
- Ingress & exfil

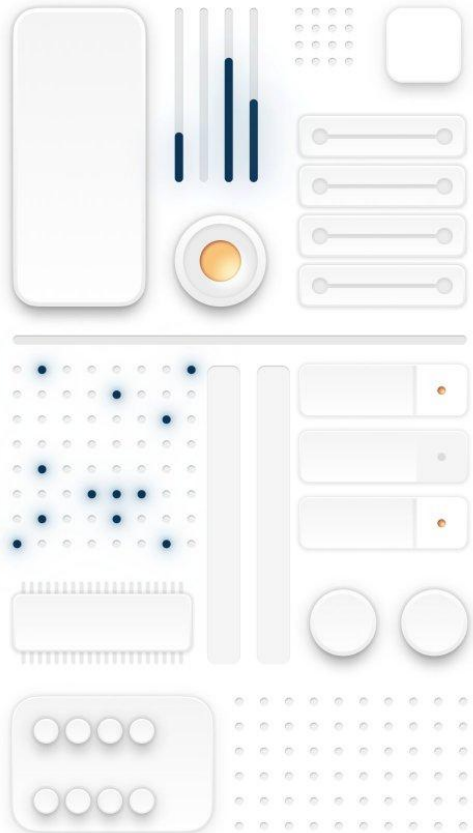


- Ingress & exfil
- Additional perimeter

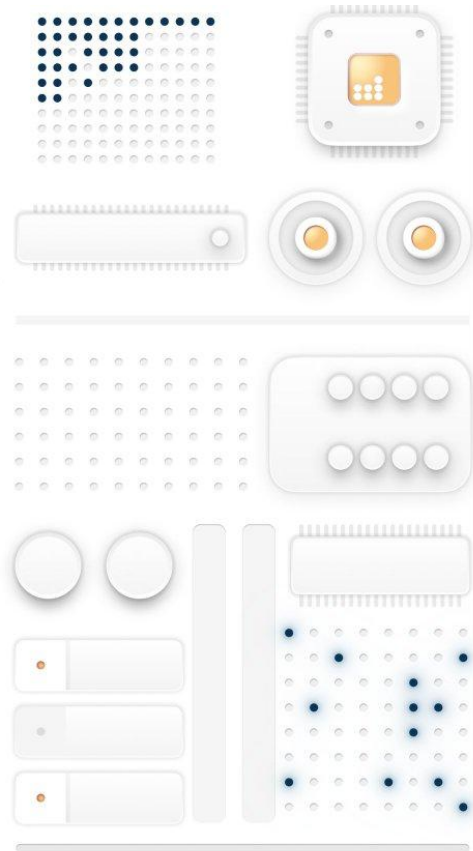


- Ingress & exfil
- Additional perimeter
- Democratized access

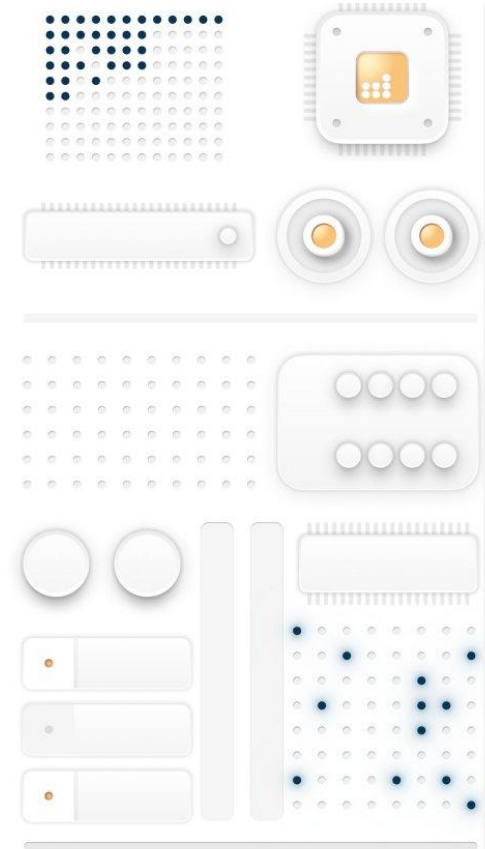




Along came the cloud

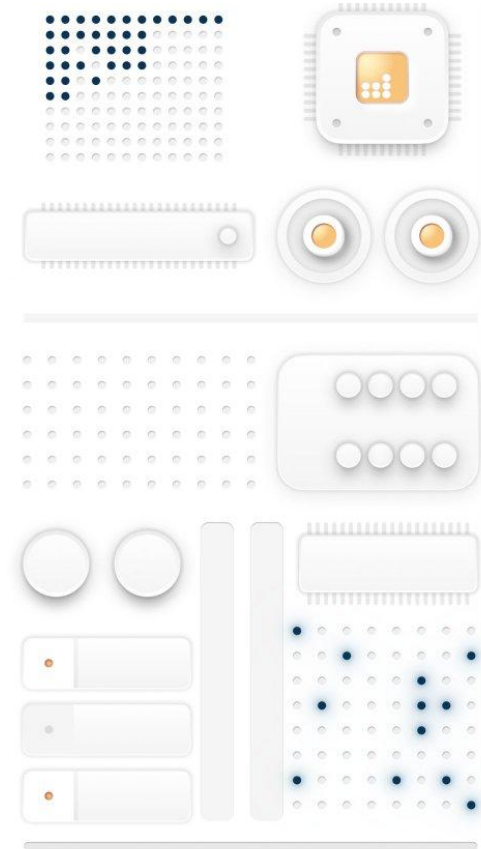


- Physical vs logical

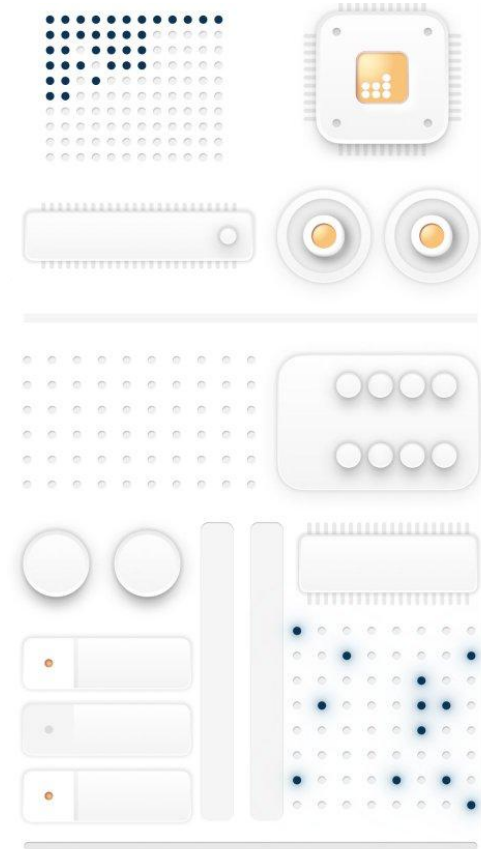


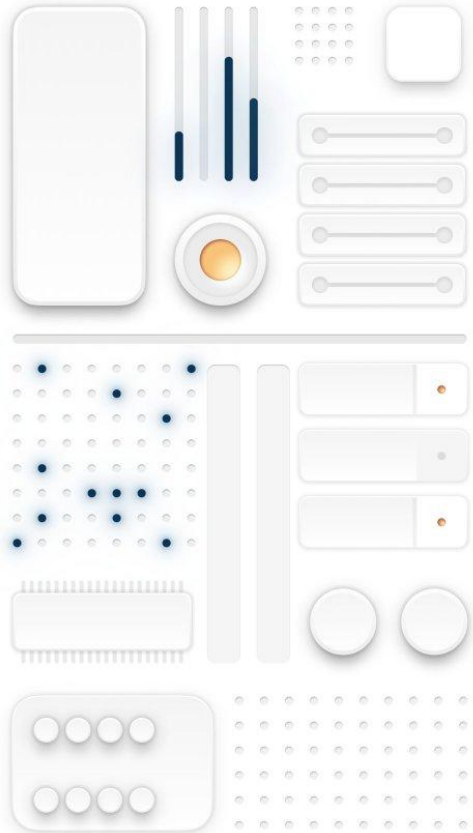


- Physical vs logical
- Massive attack surface



- Physical vs logical
- Massive attack surface
- Co-location & tenancy





Now we have cloud native



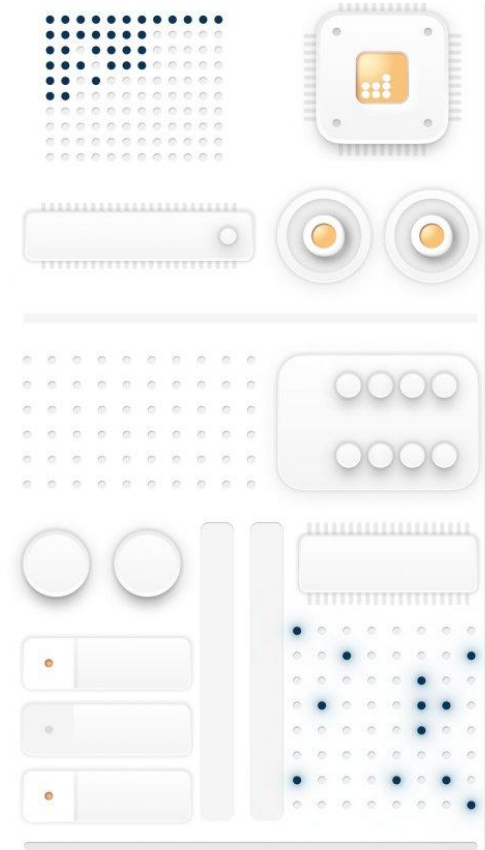
- Containers

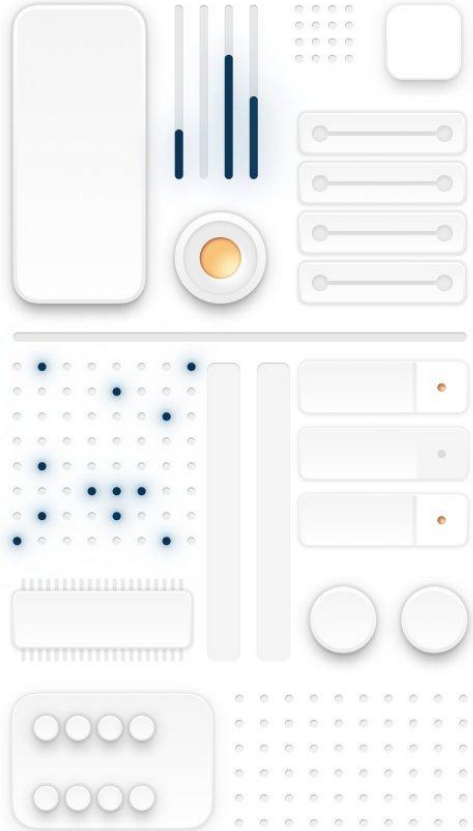


- Containers
- Open source



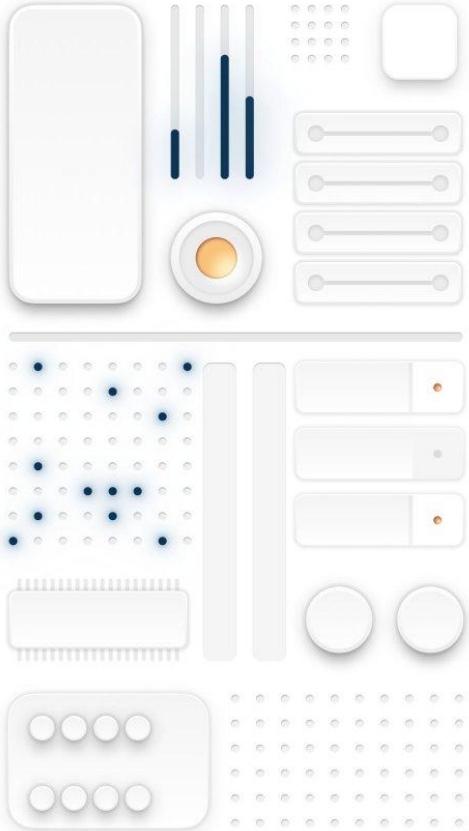
- Containers
- Open source
- Orchestrated





More, indeterminate,  
distributed.



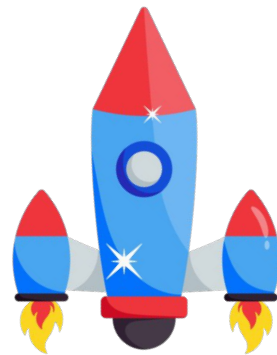
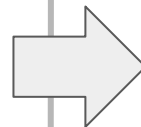
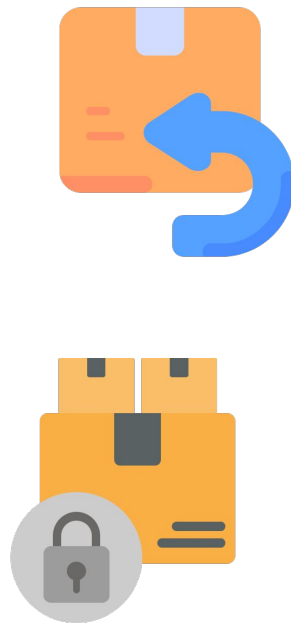
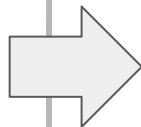
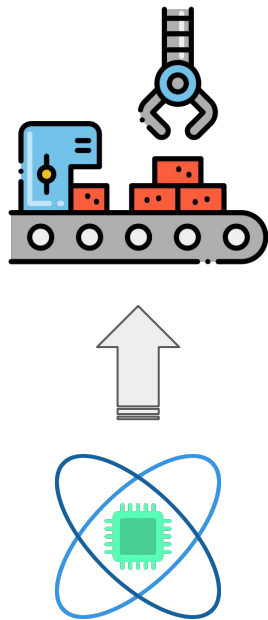
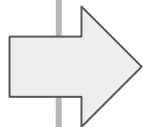
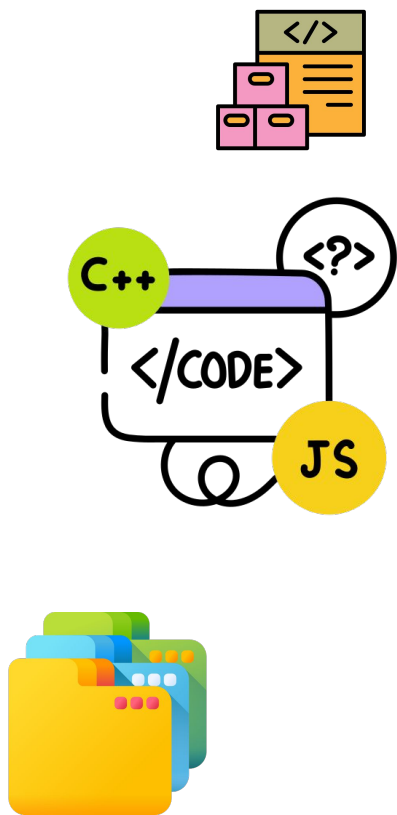


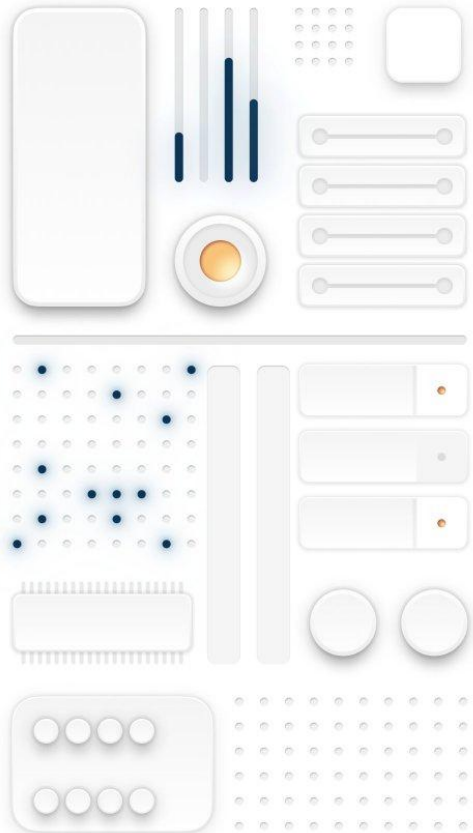
# Modern Security Paradigms



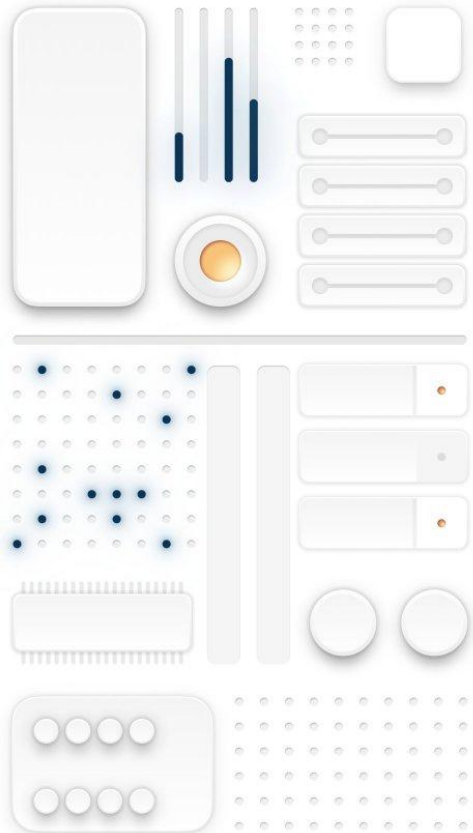
# Modern Security Paradigms

Ram Iyengar  
Security Evangelist, OpenSSF

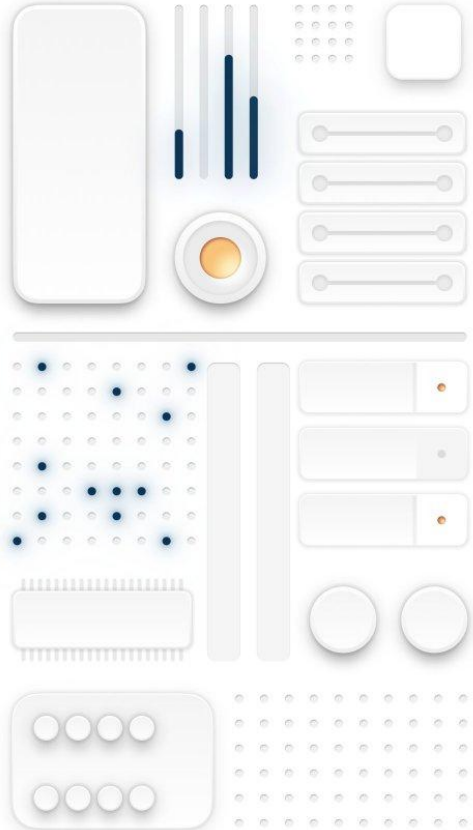




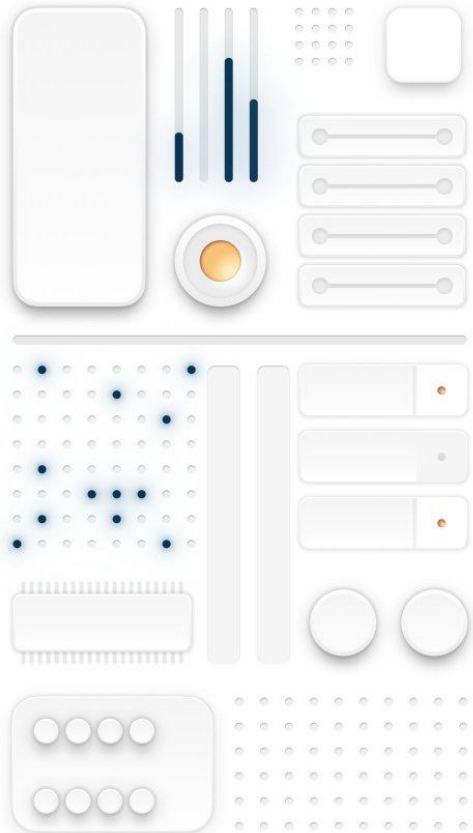
# DevOps



DevOps + Sec?



DevOps + Sec = DevSecOps



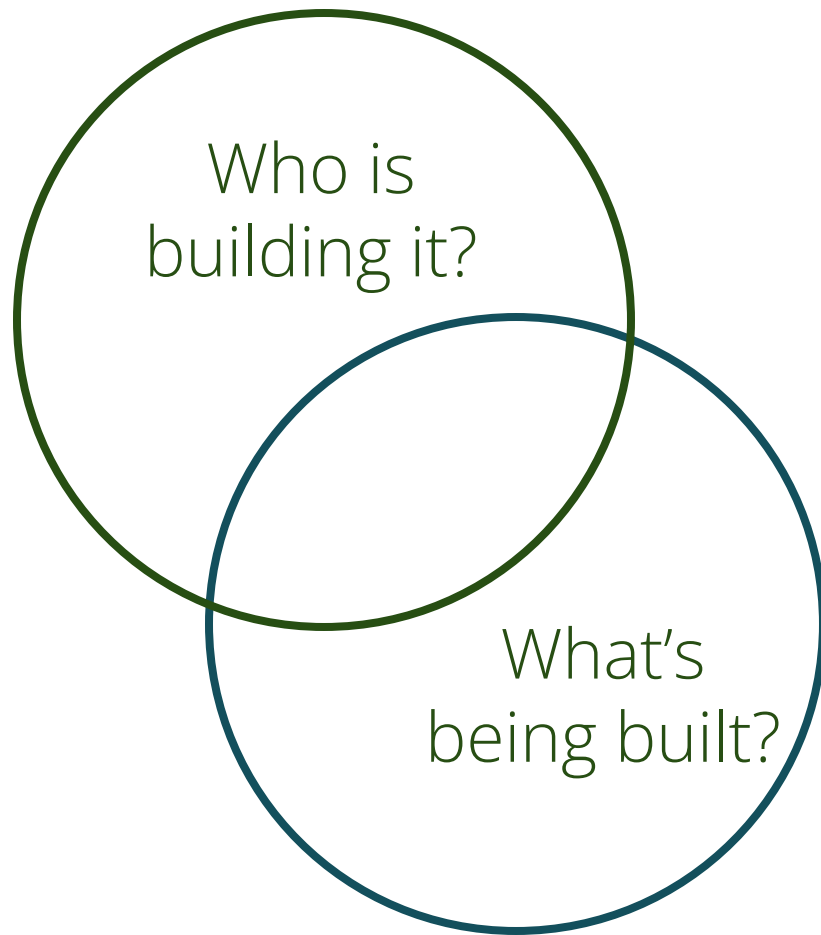
Dev+SecOps?

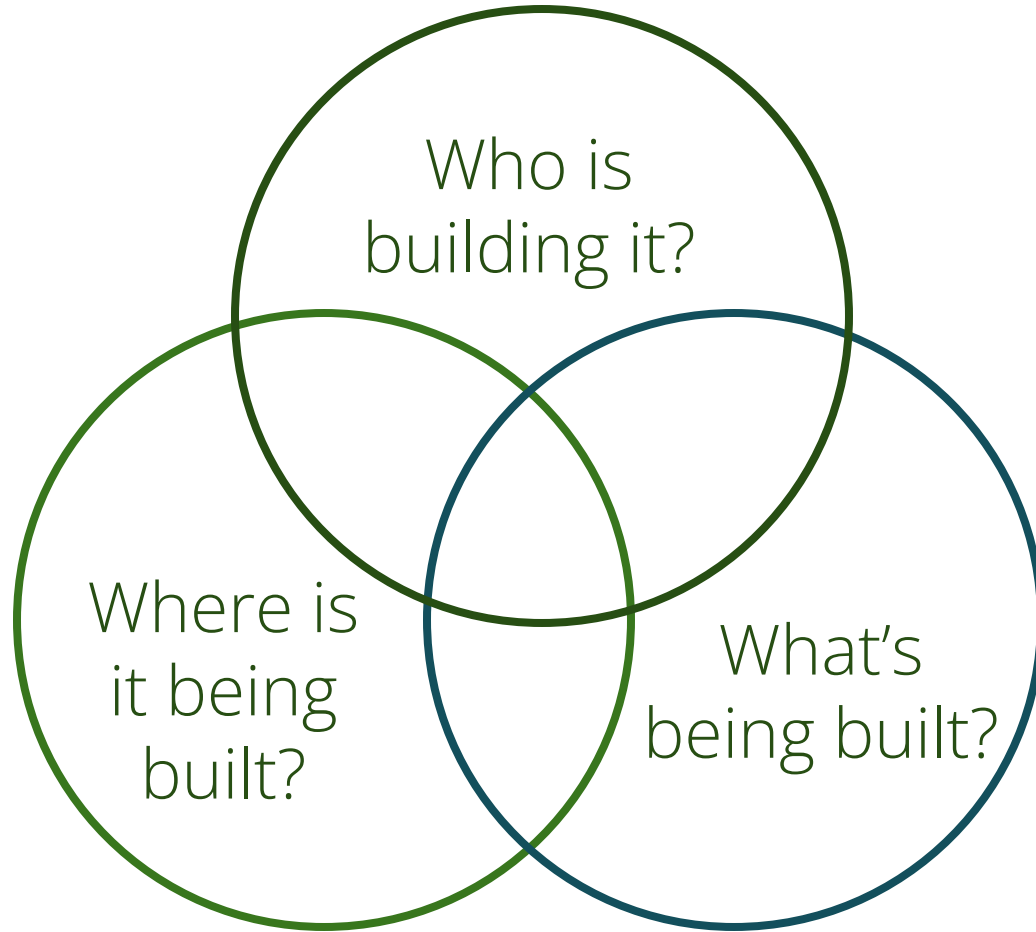


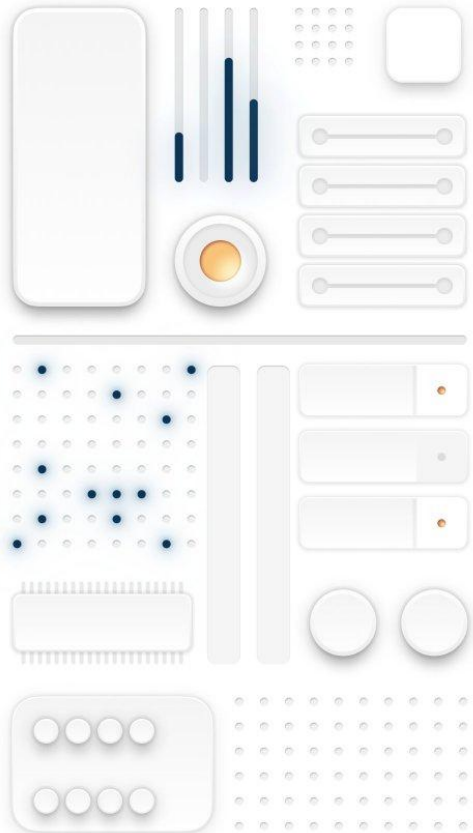




What's  
being built?

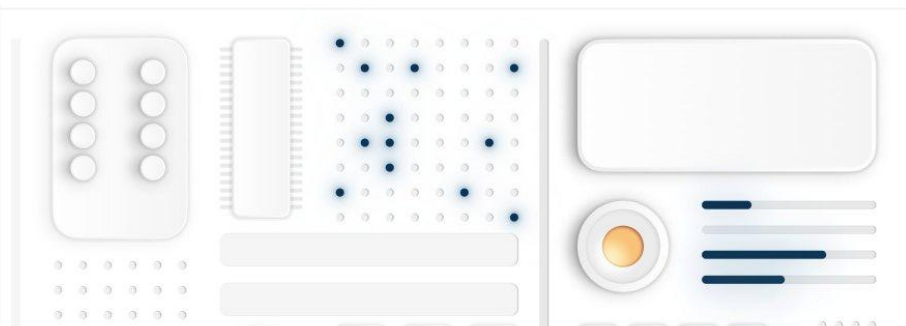


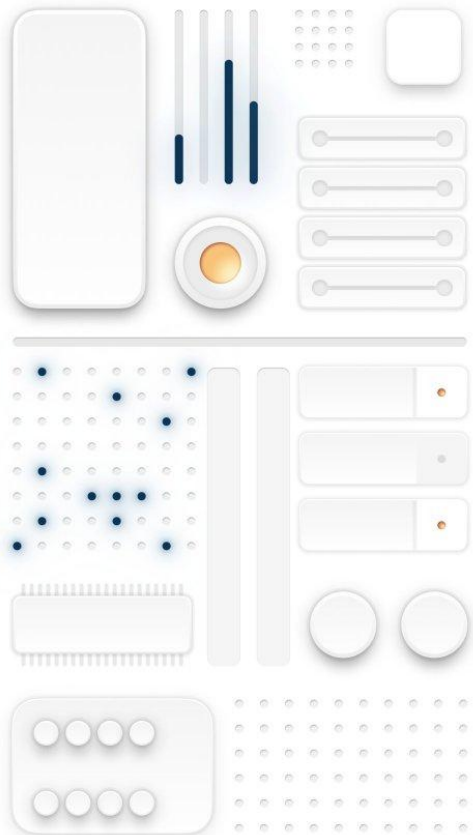




# Composite software.

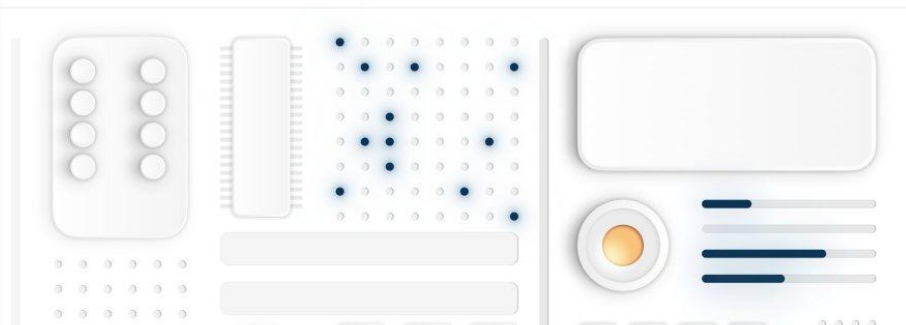
# Demo 1: ~~Remove~~ Reduce CVEs

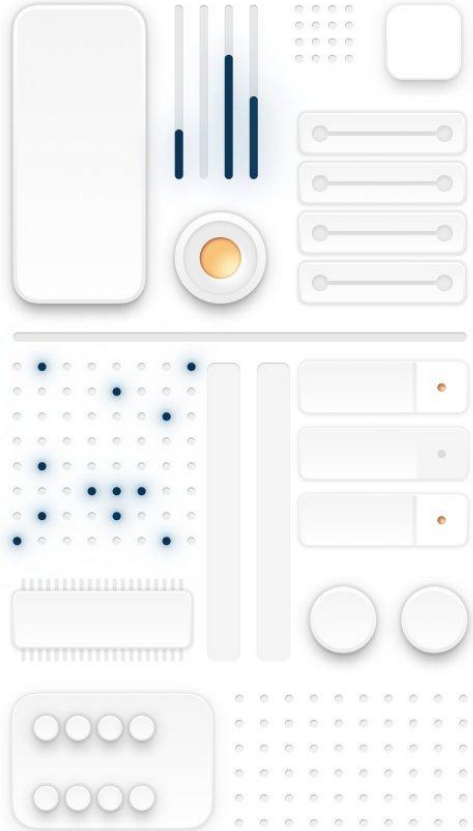




Sane defaults.

# Demo 2: Users

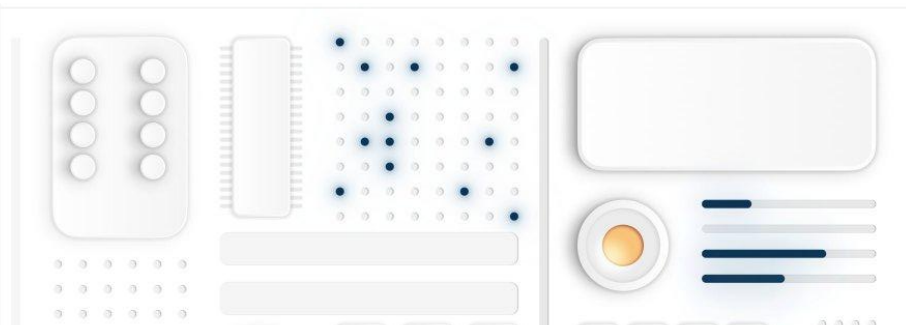


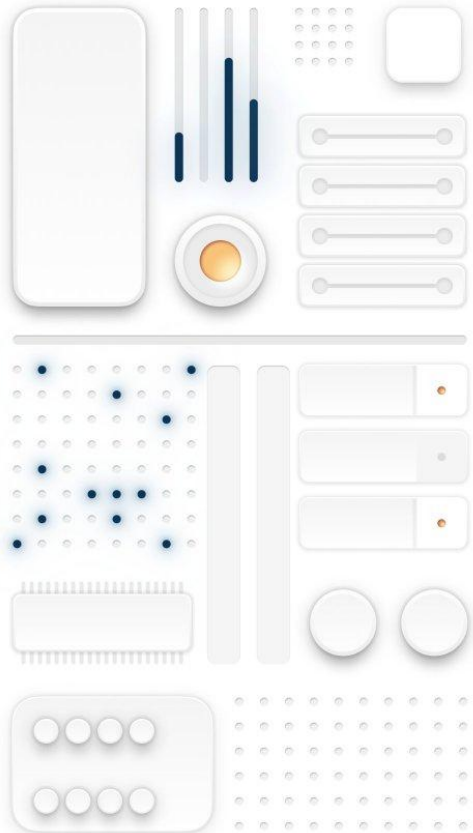


Transparency is key.



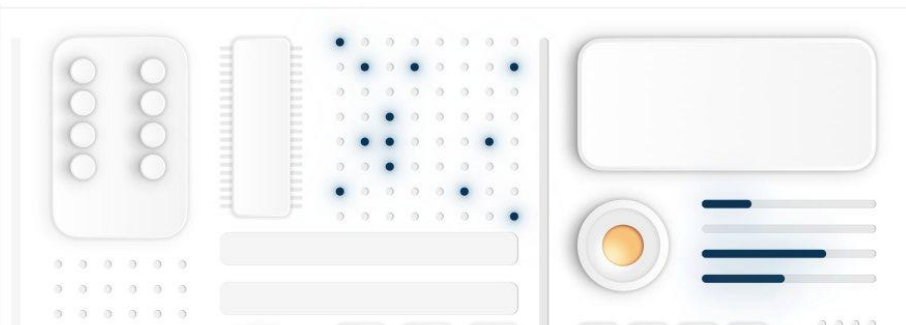
# Demo 3: SBOMs

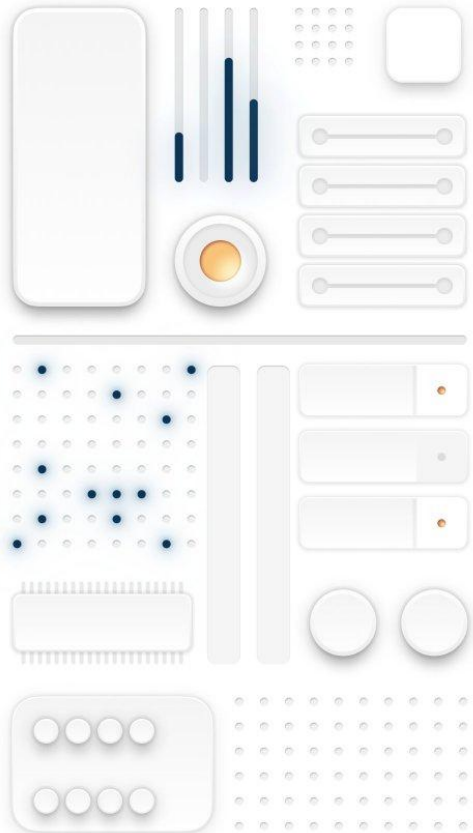




## Attestation & provenance.

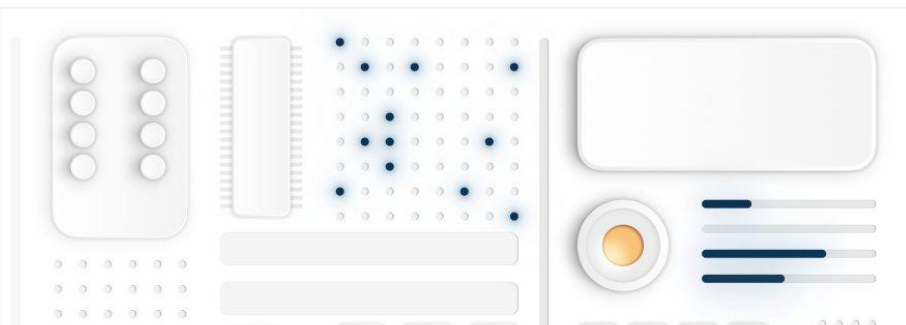
# Demo 4: Autographs

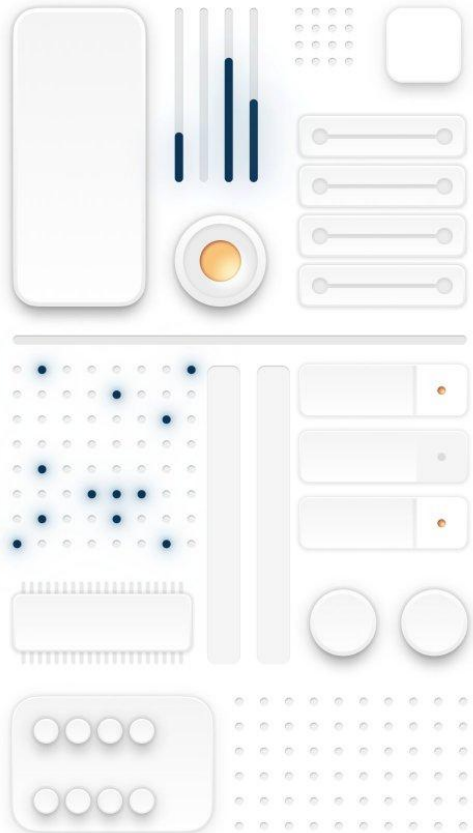




Gatekeeping, eternally.

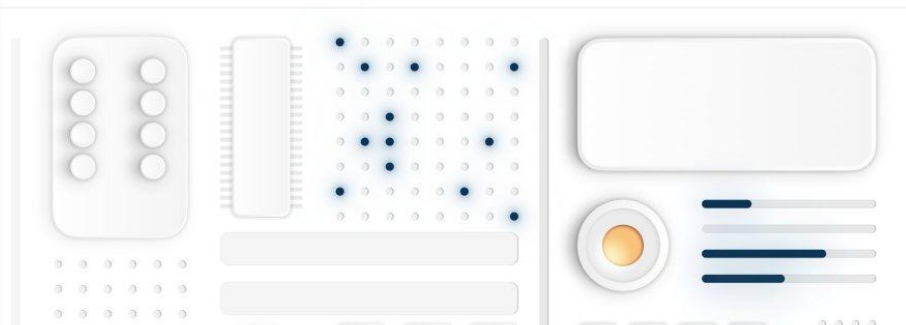
# Demo 5: Admission control

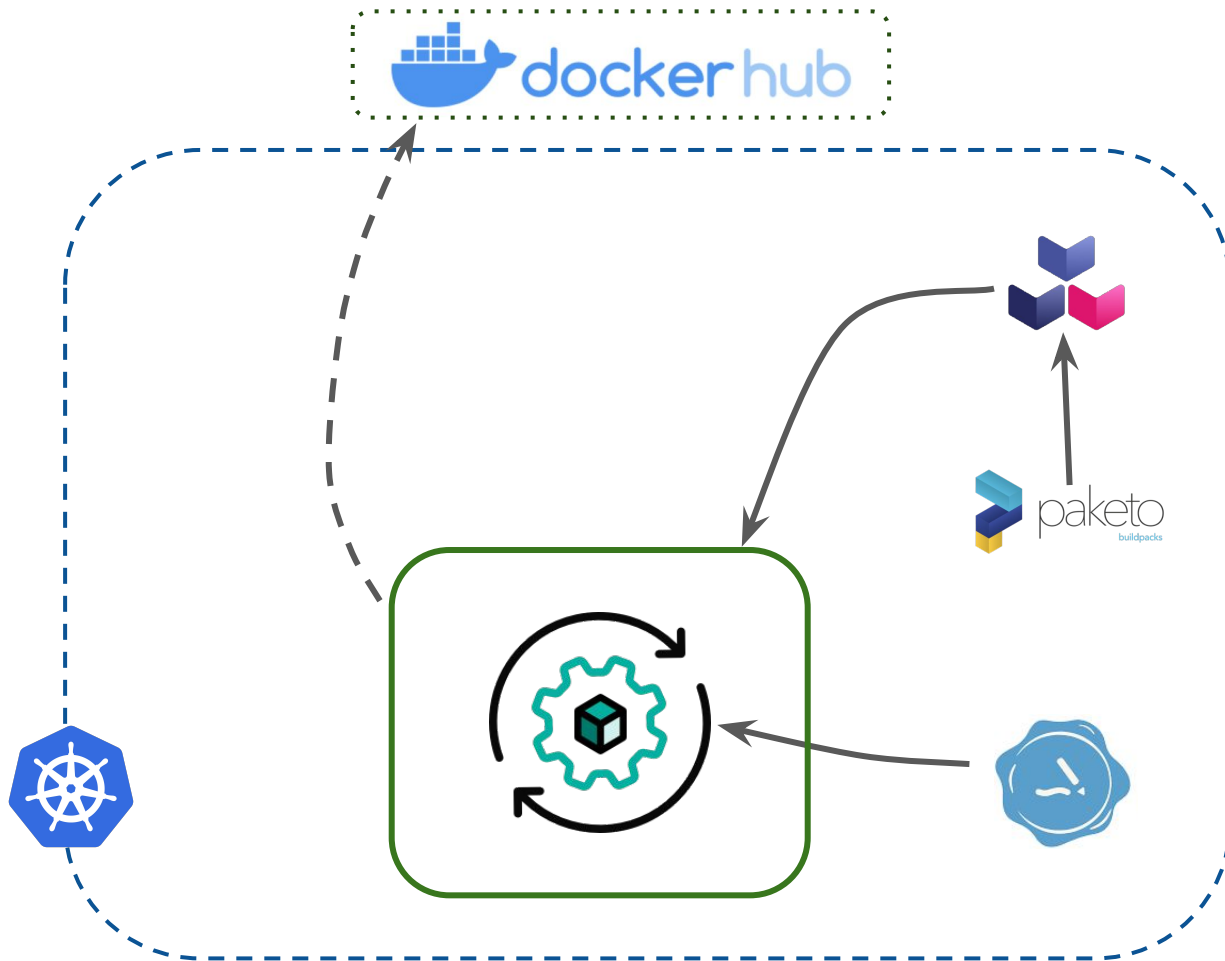




# The secret sauce: Automation

# Demo 6: (k)pack a punch!









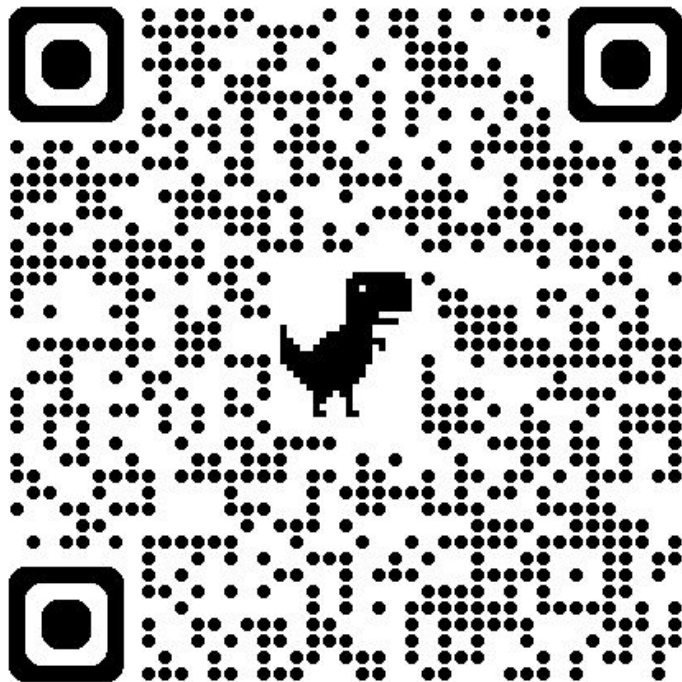
**CNCF TAG Security**

[tag-security.cncf.io](https://tag-security.cncf.io)

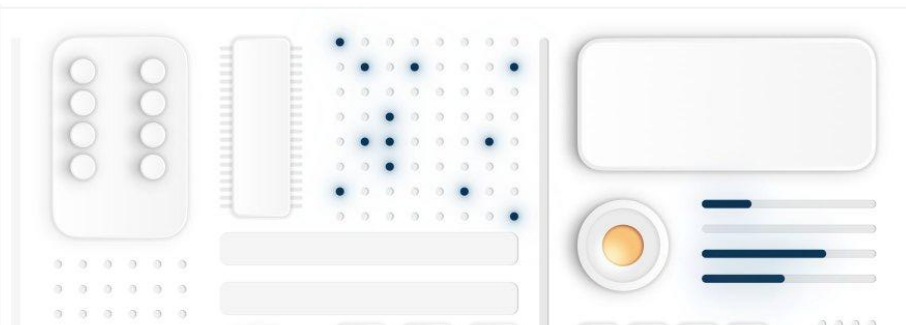


**Open Source Security Foundation –  
Linux Foundatio...**

[openssf.org](https://openssf.org)



# SOSS Community Day: India



@ramiyengar

