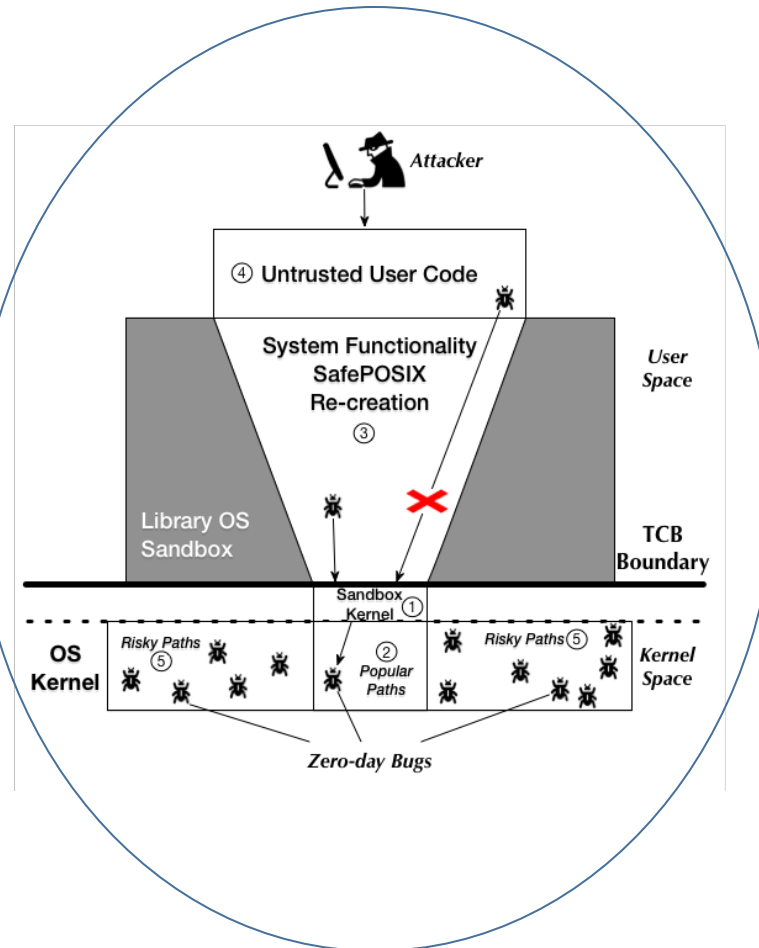


# Lind – A Secure Library OS VM

## Challenge:

- Software bugs are prevalent
- Locate bugs in the host kernel
- Which part of the kernel can be safely exposed?



## Solution:

- Access only the popular paths
- SafePOSIX – implement complex and risky OS functionality

## Scientific Impact:

- Developed a security metric – examine lines of code in the kernel that contain bugs
- Provide insight into how to design secure virtual machines – popular paths only!

## Broader Impact:

- Help users secure their systems when running untrusted code
- Help developers improve security of their systems
- Prevent cyber attacks on host systems