

Fuzzing In-memory Code



Dr. Jared DeMott

CTO AND FOUNDER

@jareddemott www.vdalabs.com



Overview

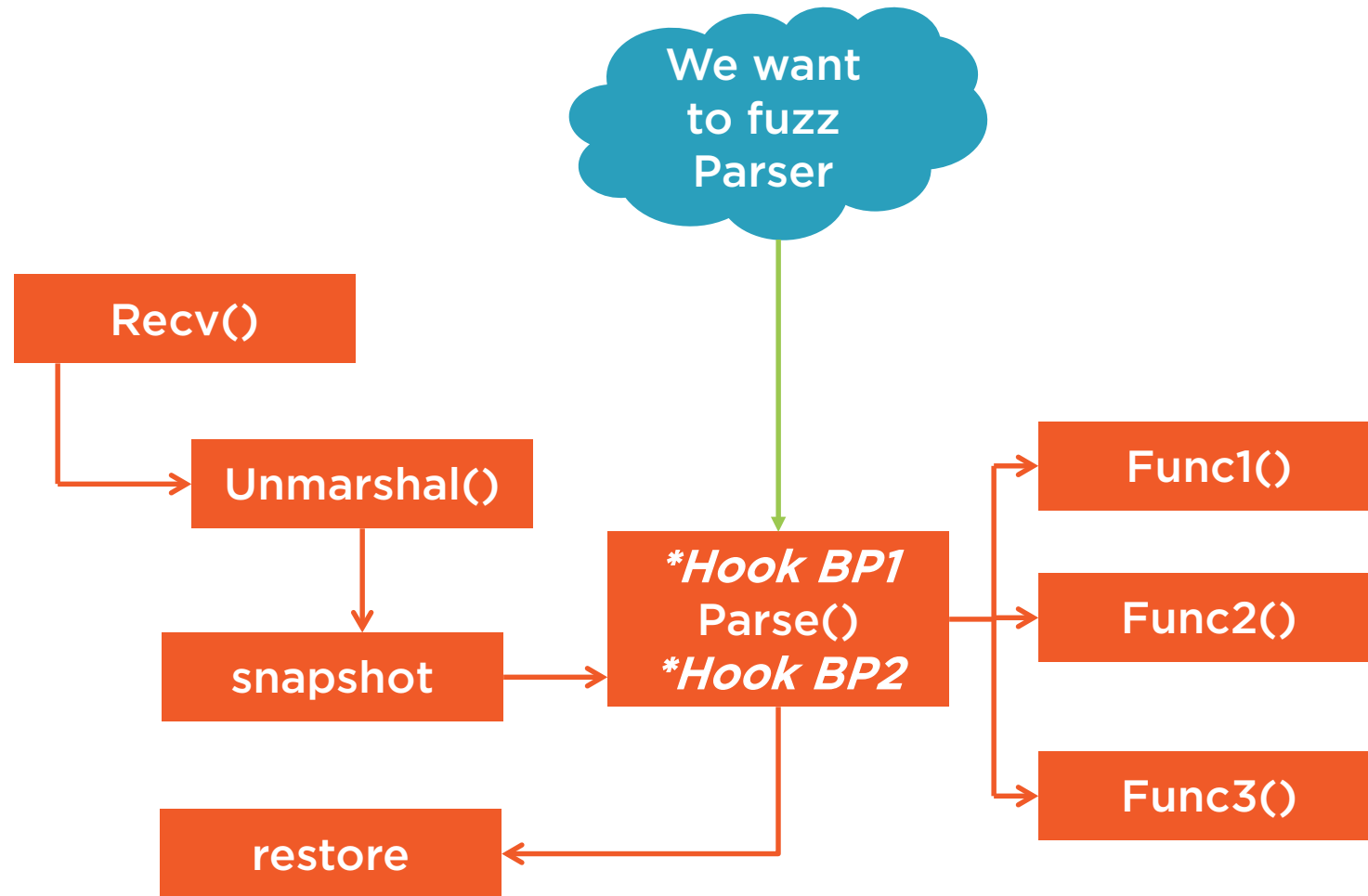


In-memory fuzzing

- Tools and techniques

Demo





Pros

Bypass fuzzing difficulties

- Encryption
- Poorly documented protocol
- Connection limits
- Built-in IDS



Cons

Black-box

- Poor system wide test
 - Quick check of key area
 - E.g. targeted unit test

Requires reverse engineering

- And hook/restore capability



Demo



In-memory fuzzing process



Summary



Used Pydbg and Immunity debugger to construct an in-memory fuzzing tool

Next up:

- Feedback fuzzers

