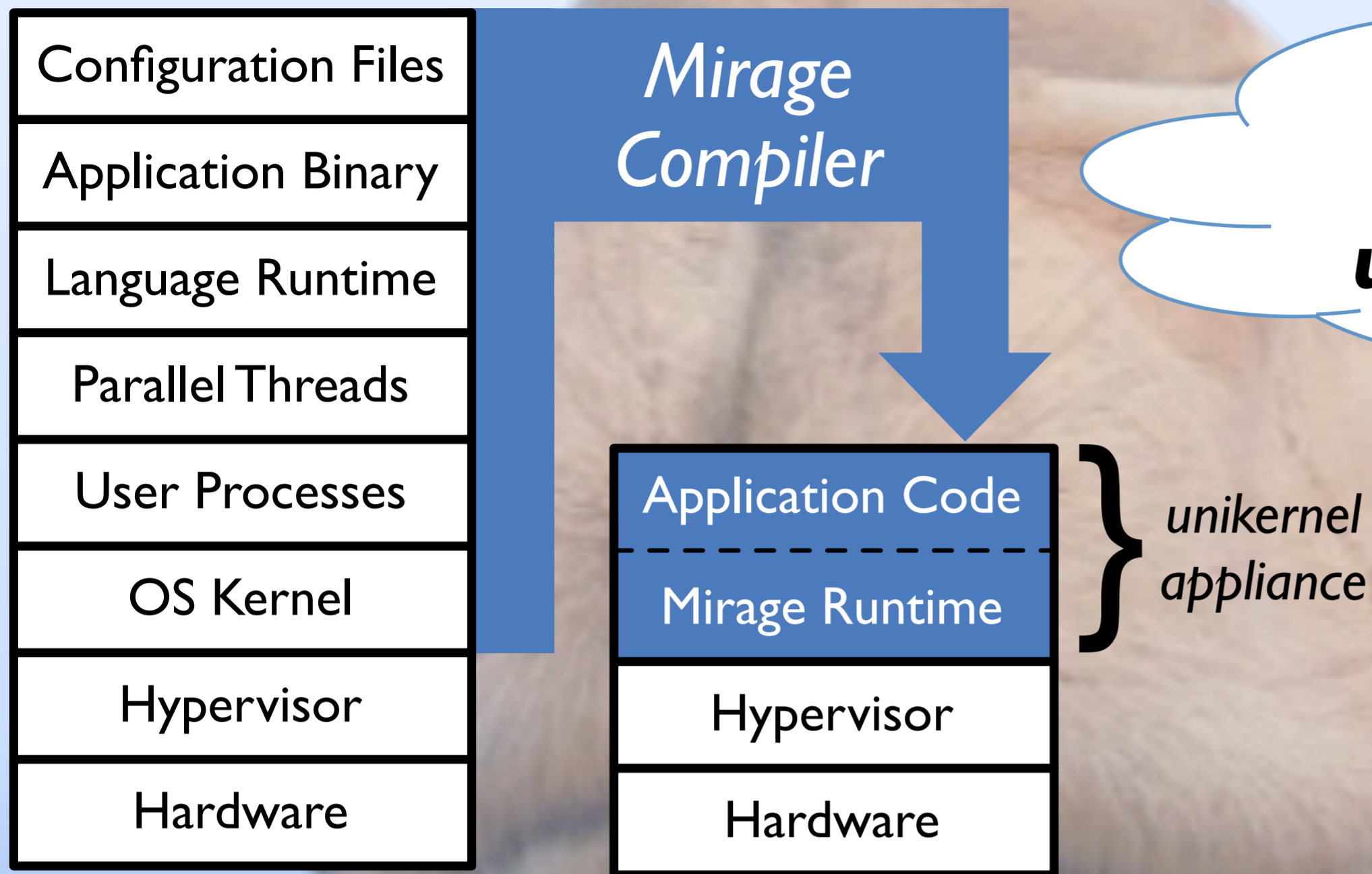
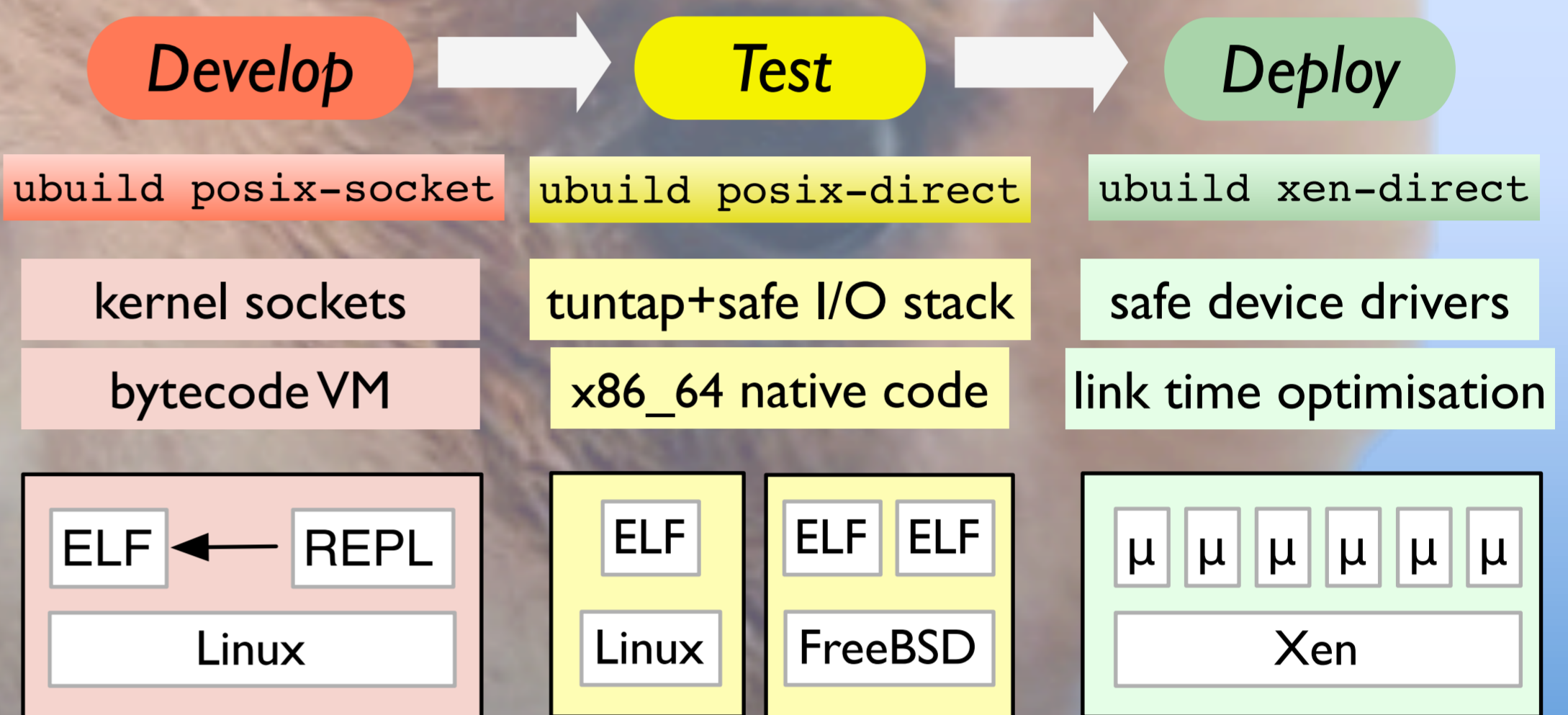


Modern cloud applications comprise millions of lines of code and complex configuration

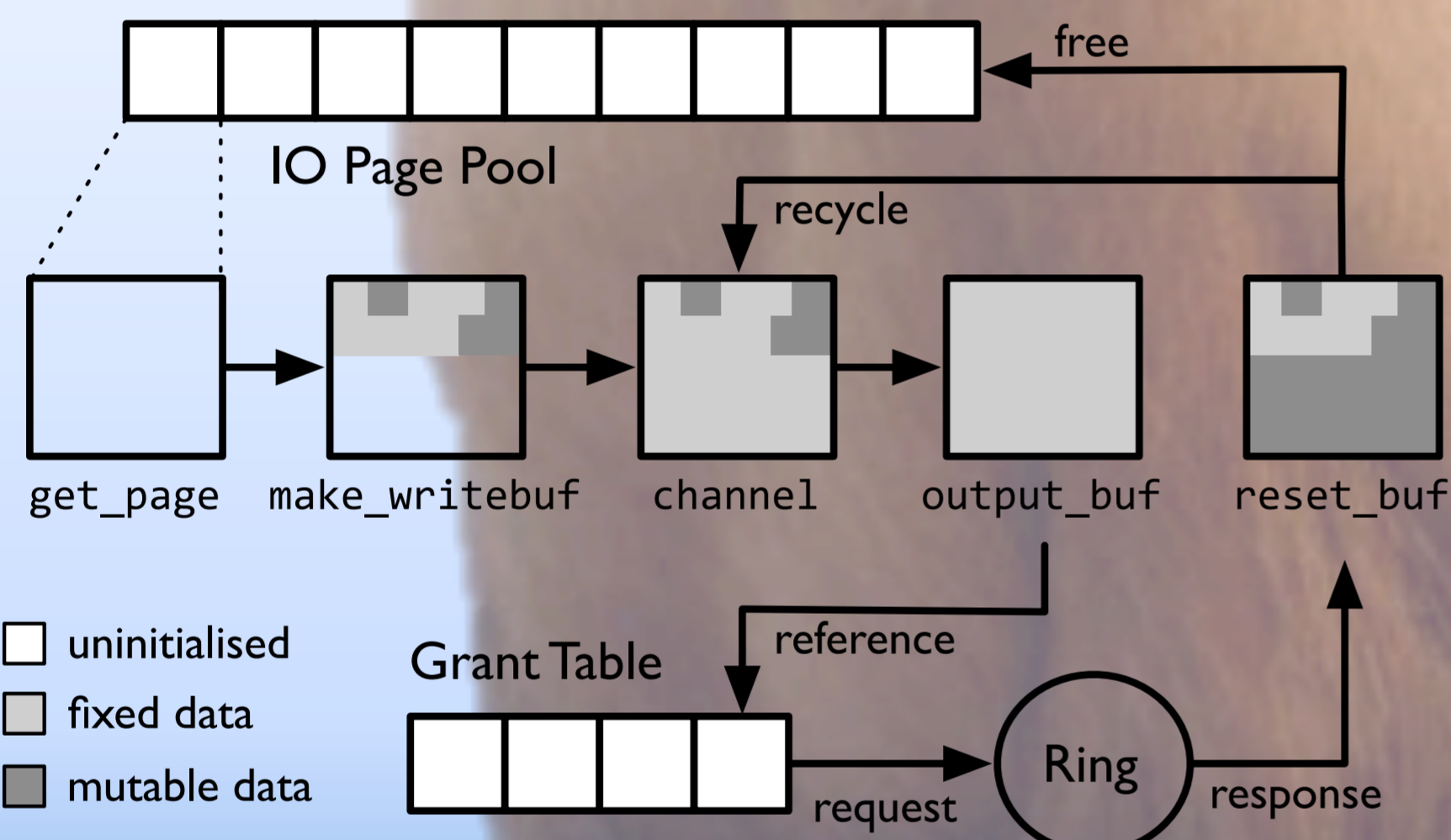


Cloud applications, hosted in multi-tenant datacenters, are under constant network attack

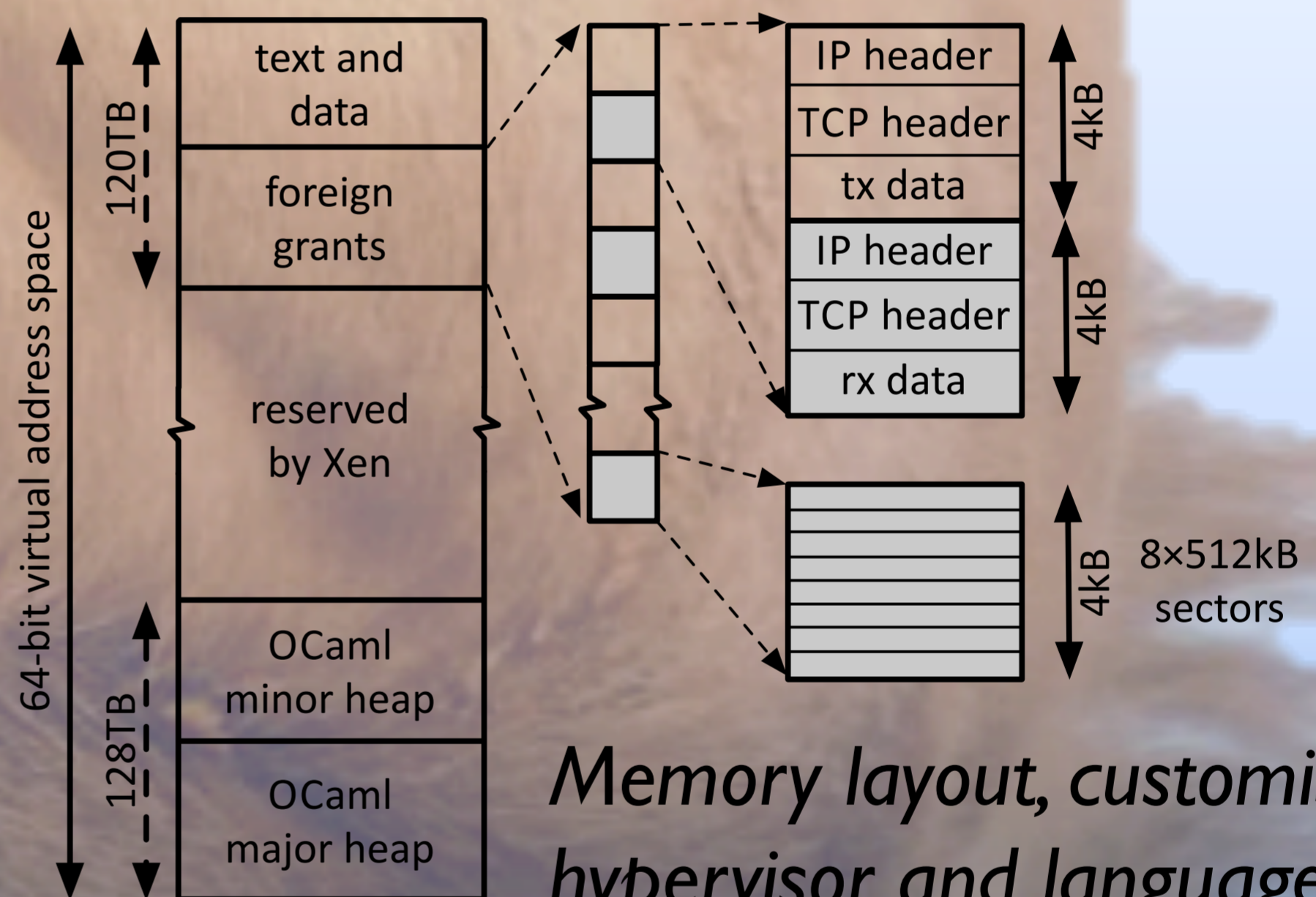
Mirage builds the whole system into a single type-safe virtual machine image



Design



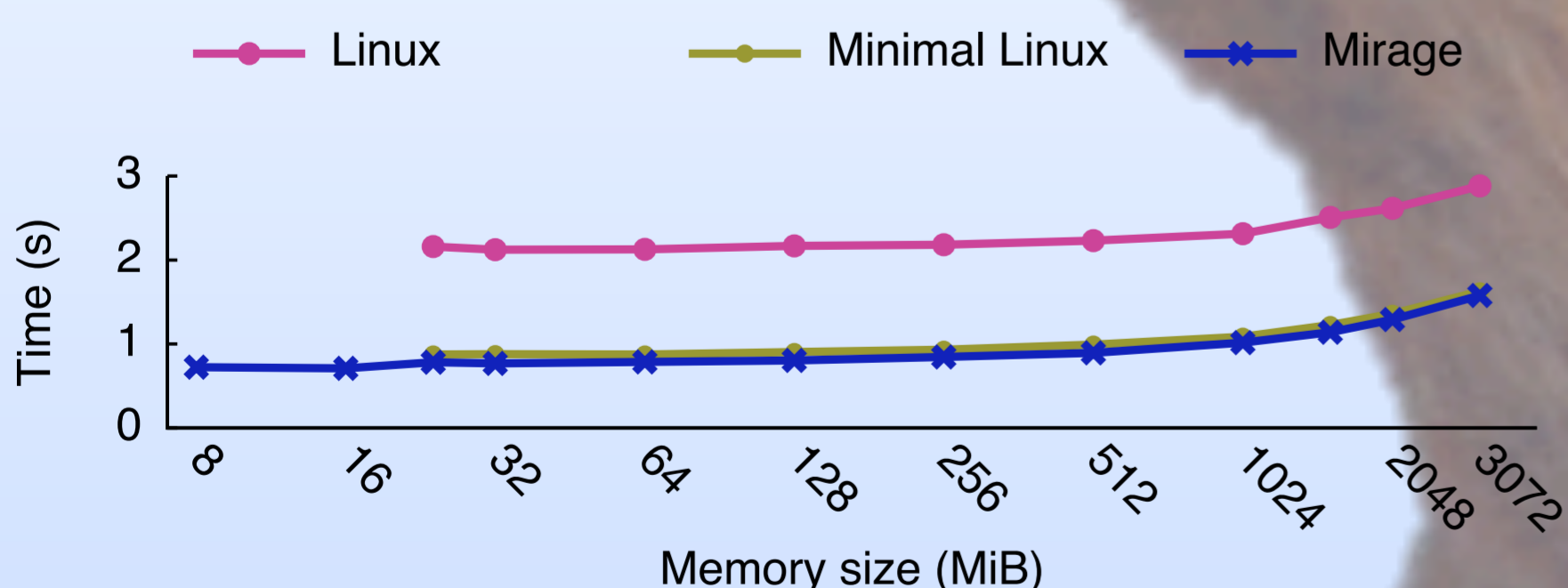
Careful management of memory for IO



Memory layout, customised to hypervisor and language runtime

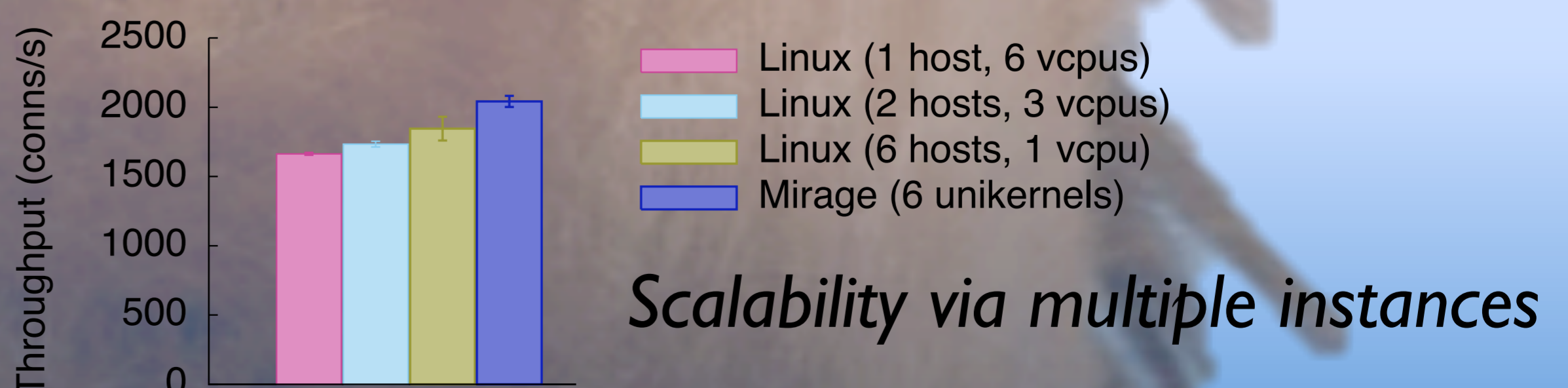
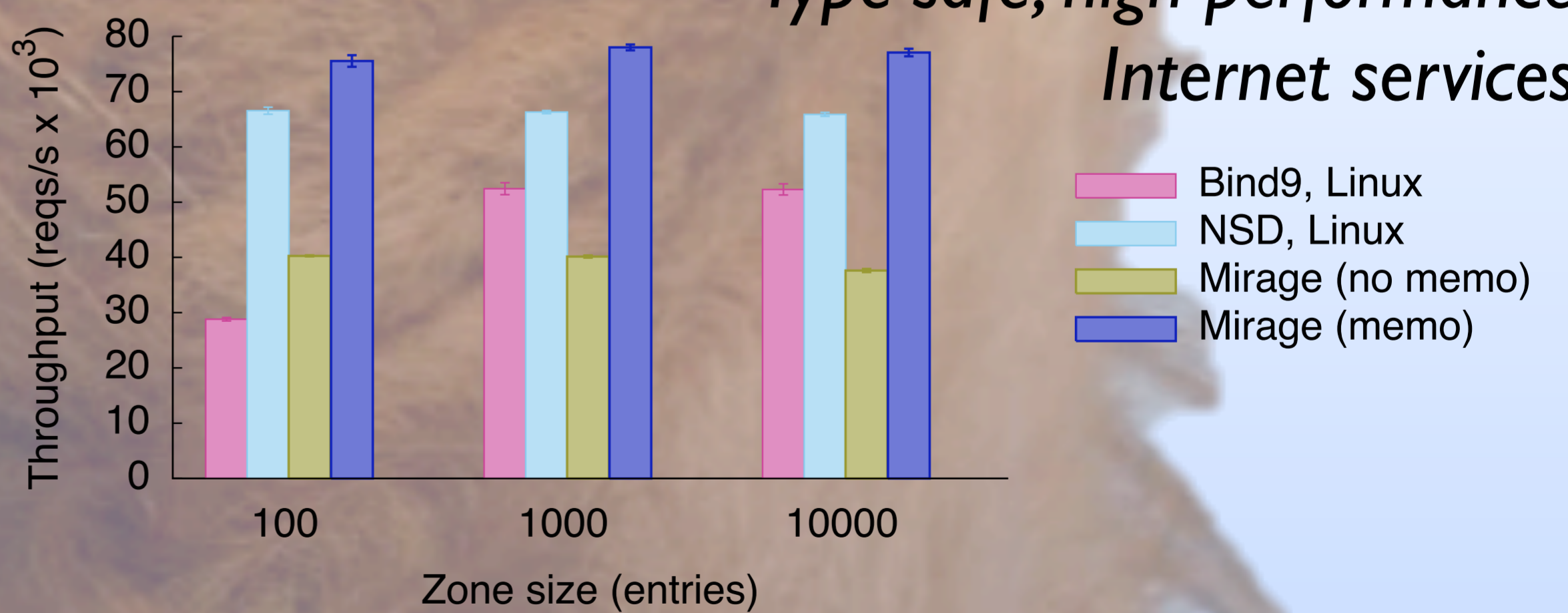
Code

Reduced memory footprint and boot times



```
let main () =
  lwt zones = read key "zones" "zone.db" in
  Net.Manager.bind (fun mgr dev ->
    let src = 'any_addr, 53 in
    Dns.Server.listen dev src zones)
```

Type-safe, high-performance Internet services



Scalability via multiple instances

Win!