Heralding Next-gen Autonomous Applications
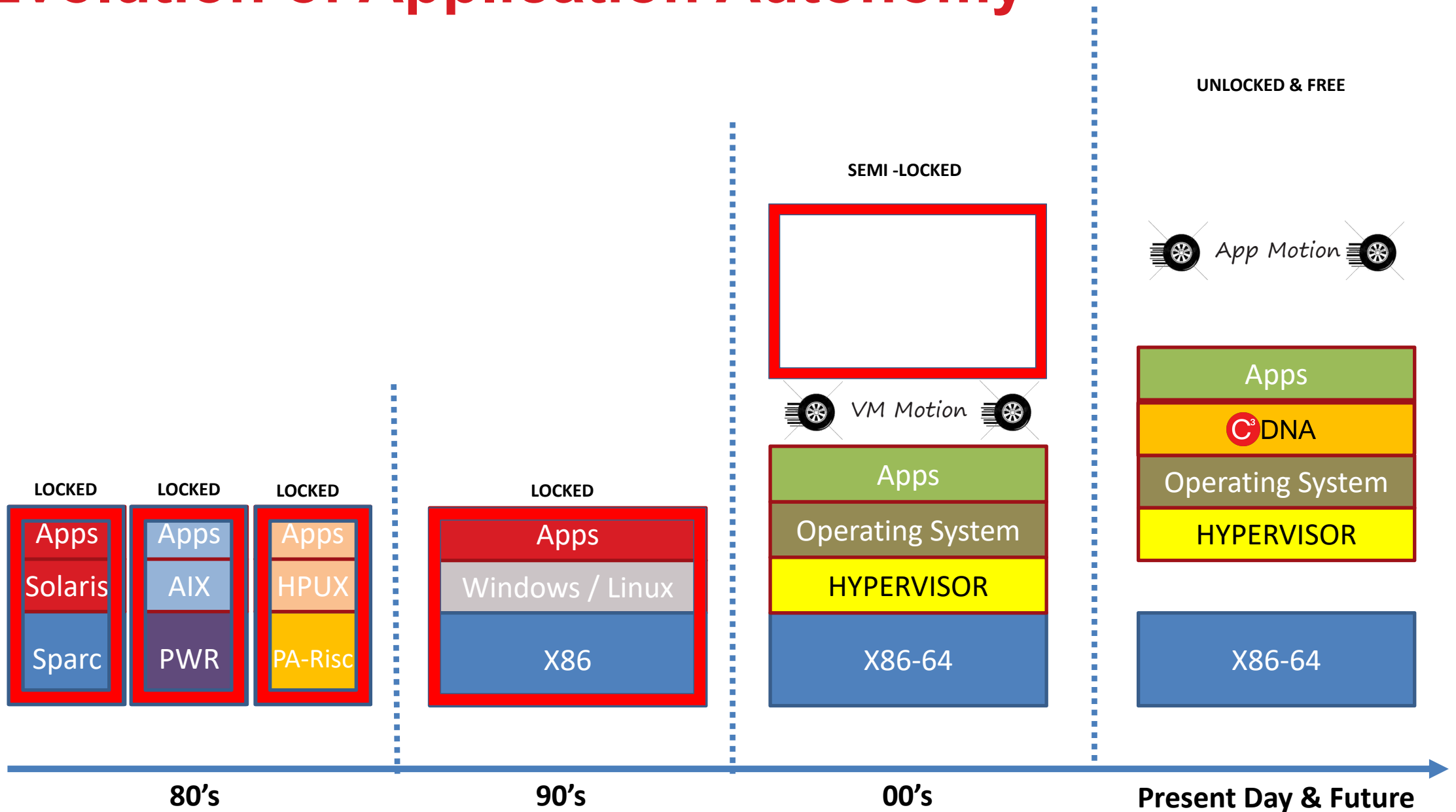
Our Mission

Free your applications from the shackles of infrastructure

by

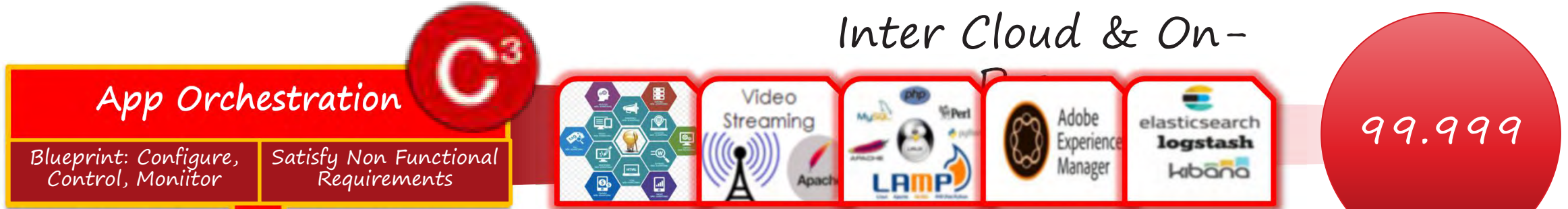Making them self-aware and self-managing by infusing consciousness

Evolution of Application Autonomy

UNLOCKED & FREE

SEMI -LOCKED

App Motion

VM Motion

LOCKED	LOCKED	LOCKED
Apps	Apps	Apps
Solaris	AIX	HPUX
Sparc	PWR	PA-Risc

LOCKED

Apps
Windows / Linux
X86

Apps
Operating System
HYPERVISOR
X86-64

Apps
C³DNA
Operating System
HYPERVISOR
X86-64

80's   **90's**   **00's**   **Present Day & Future**

Introducing Cognitive Application Area Networks

Inter Cloud & On-

App Orchestration

Blueprint: Configure, Control, Monitor

Satisfy Non Functional Requirements

C³

Video Streaming

Adobe Experience Manager

elasticsearch logstash kibana

99.999

Cognitive Application Layer

PAAS

Orchestrate RUNTIME & MIDDLEWARE | Provision to ANY Hardware

JUJU

CLOUD FOUNDRY

HP Helion

CliQr

MESOS

IBM Bluemix™

IAAS

Operating System | Network, Storage, Servers, Network,

Windows Azure

amazon web services

Google Cloud Platform

vmware

ORACLE

openstack

HUAWEI

Infrastructure

Cloud | Dis-Aggregated

maxta

cisco HyperFlex

VCE

Hewlett Packard Enterprise

vmware EVO RAIL

NUTANIX

simplivity

IBM SOFTLAYER

FusionCube

Beam me up Scotty (Application Teleportation)

consciousness

Application-1	Application-2
Operating System	
Hypervisor	

C³DNA
Teleporter

harmonize
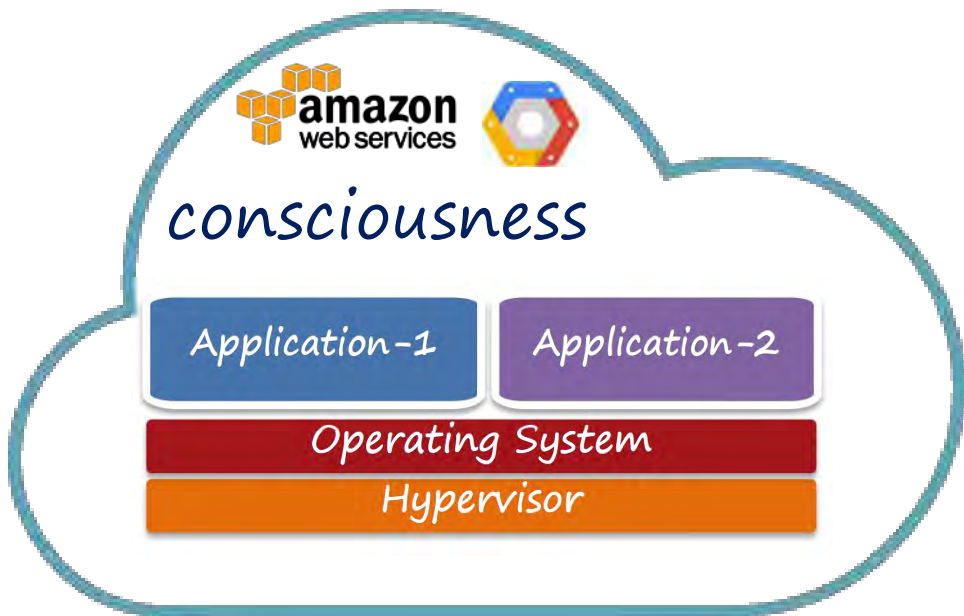
Operating System
Hypervisor
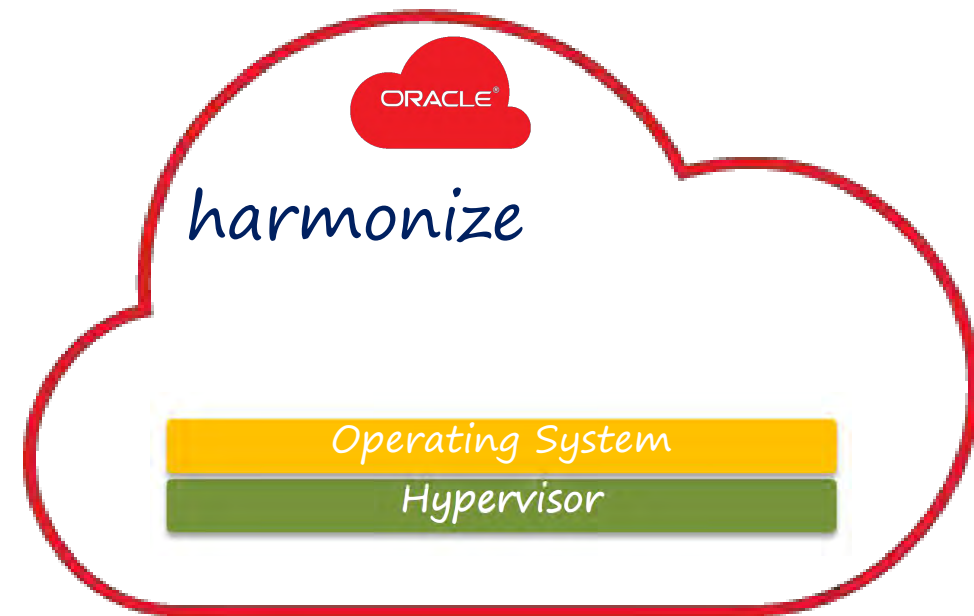
For live demo of C3DNA teleporter, please stop by our kiosk – SOA│045

New Approach, Application Teleportation

Application teleportation at the Application layer, the "Source"

- Deliver application layer visibility & control
  - ✓ Visibility from the app not from the infrastructure
  - ✓ Get true application profile from the source, the Application
  - ✓ Application Dependencies, Characteristics, App resources consumption
- Eliminate the need for complex VM replication & infrastructure centric migration
- Simple and Fast: migrate JUST the application

Benefits

Lift and Shift

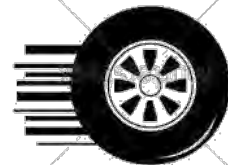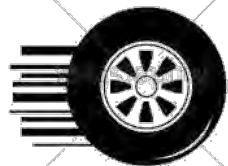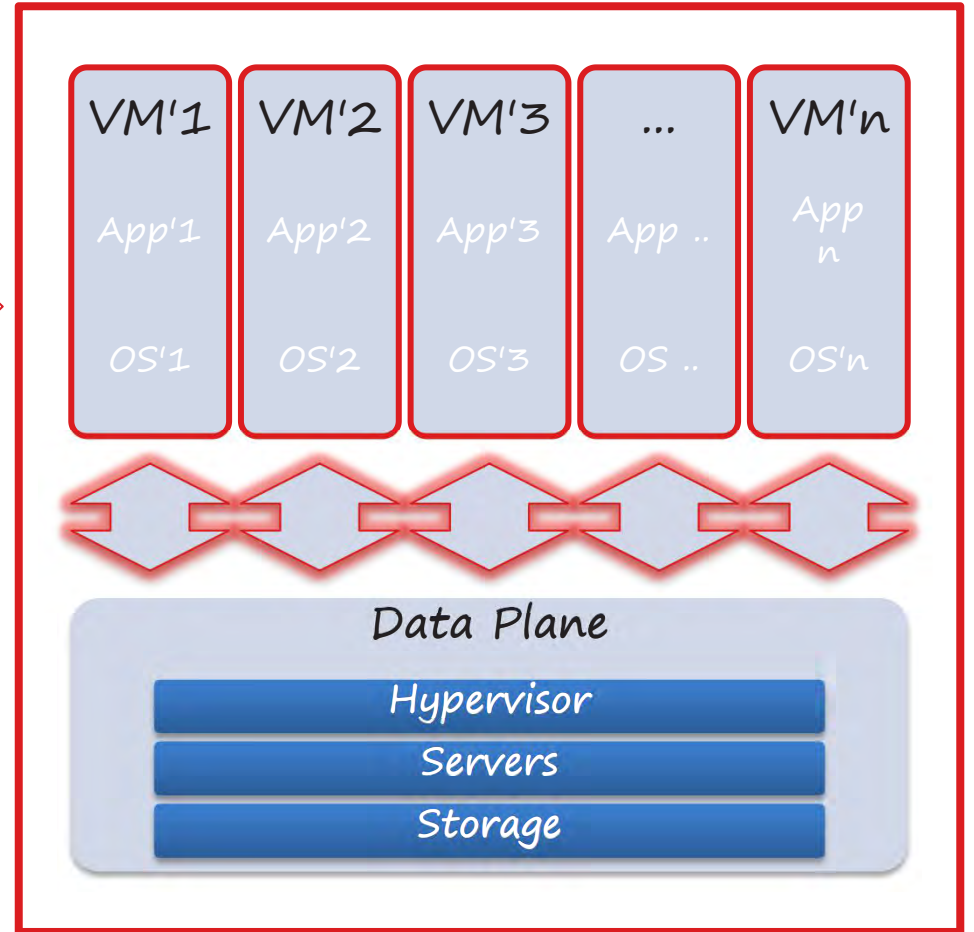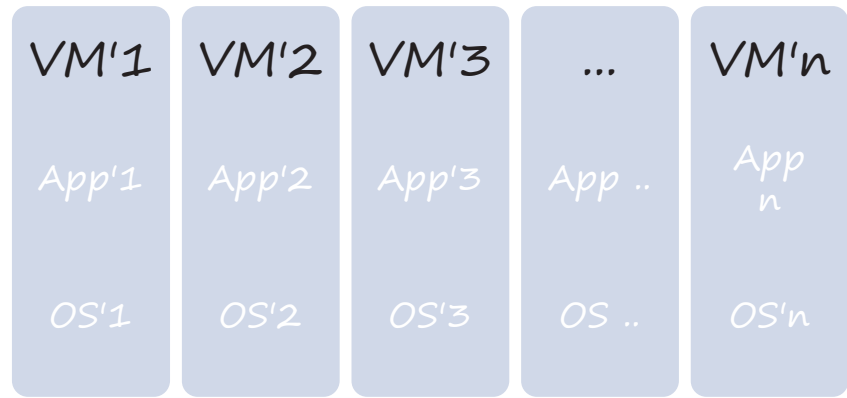Any App even in Active State

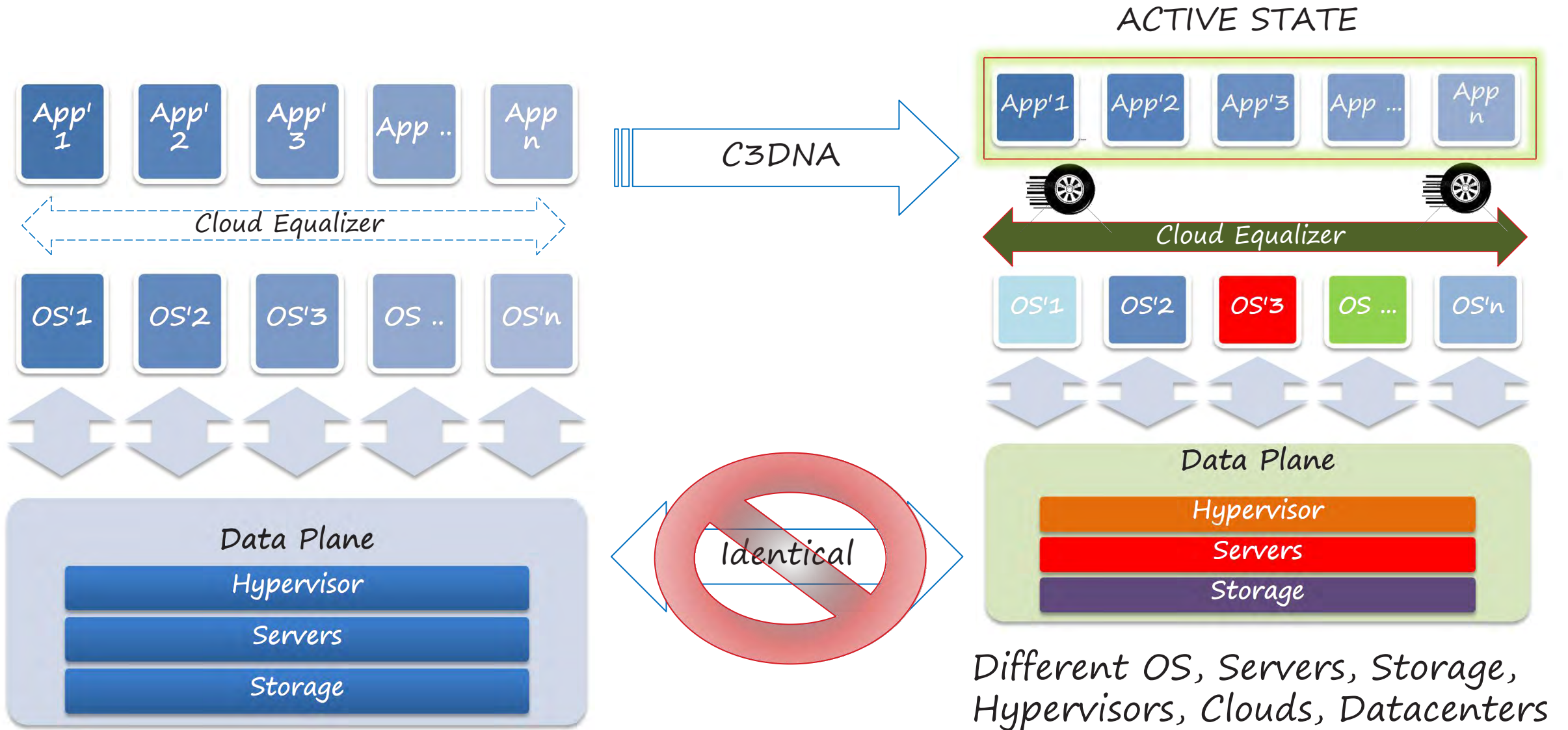Vendor Independence

User Control

User Managed

No Modifications Apps, OS. Infrastructure

50 % LESS OPEX ANY INFRASTRUCTURE

Others Migrate VMs (VMotion)

C3DNA Migrates Apps and Workloads (WMotion)

ACTIVE STATE

C3DNA

App'1 App'2 App'3 App .. App n

Cloud Equalizer

OS'1 OS'2 OS'3 OS ... OS'n

Data Plane
Hypervisor
Servers
Storage

App' 1 App' 2 App' 3 App .. App n

Cloud Equalizer

OS'1 OS'2 OS'3 OS .. OS'n

Data Plane
Hypervisor
Servers
Storage

Identical

Different OS, Servers, Storage, Hypervisors, Clouds, Datacenters

Thank You

"It's very likely that on the basis of philosophy that every error has to be caught, explained, and corrected, a system of the complexity of the living organism would not run for a millisecond."

----- von Neumann, Papers of John von Neumann on Computing and Computing Theory, Hixon Symposium, September 20, 1948, Pasadena, CA, The MIT Press, 1987, p474

C³DNA's composed hierarchical temporal information pattern and process management C: Allows global knowledge to manage the evolution of a distributed process at scale with optimal resource utilization in real time even in the face of fluctuations both in the available resources and demands from the environment. It puts safety and survival of application/service first and allows sectionalizing, isolation, diagnosis and fixing of errors at leisure.