



Run Your VMware Apps Faster on Public Cloud Than On-Prem

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ORACLE
Cloud Infrastructure
Ravello Service

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CLEVELAND PUBLIC AUDITORIUM, CLEVELAND, OHIO

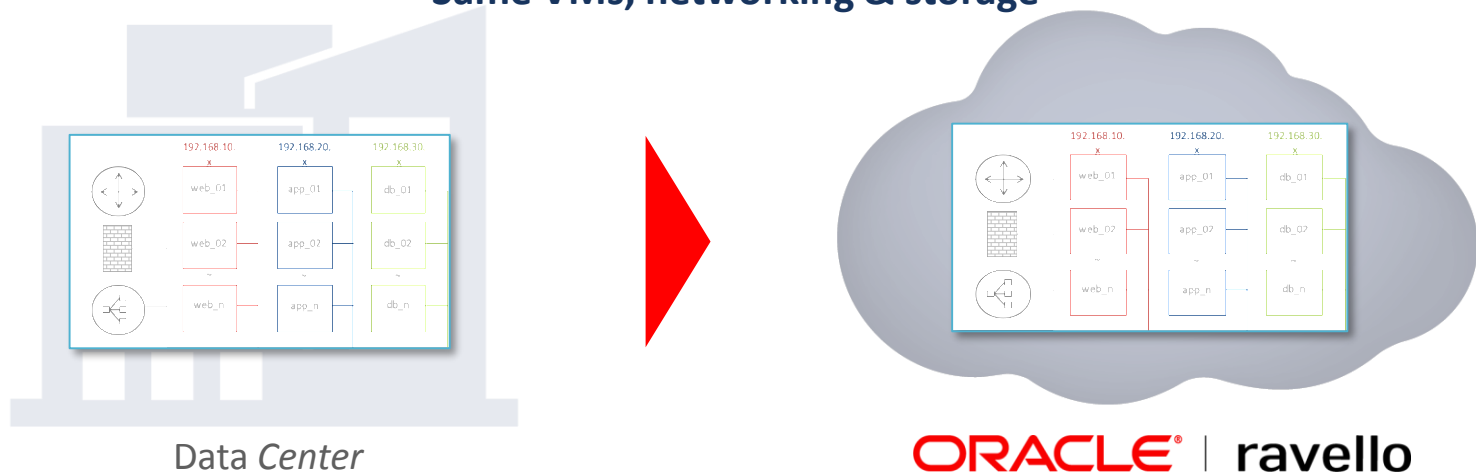
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Ravello brings data-center capabilities to public cloud

Enables running **VMware** workloads on public cloud

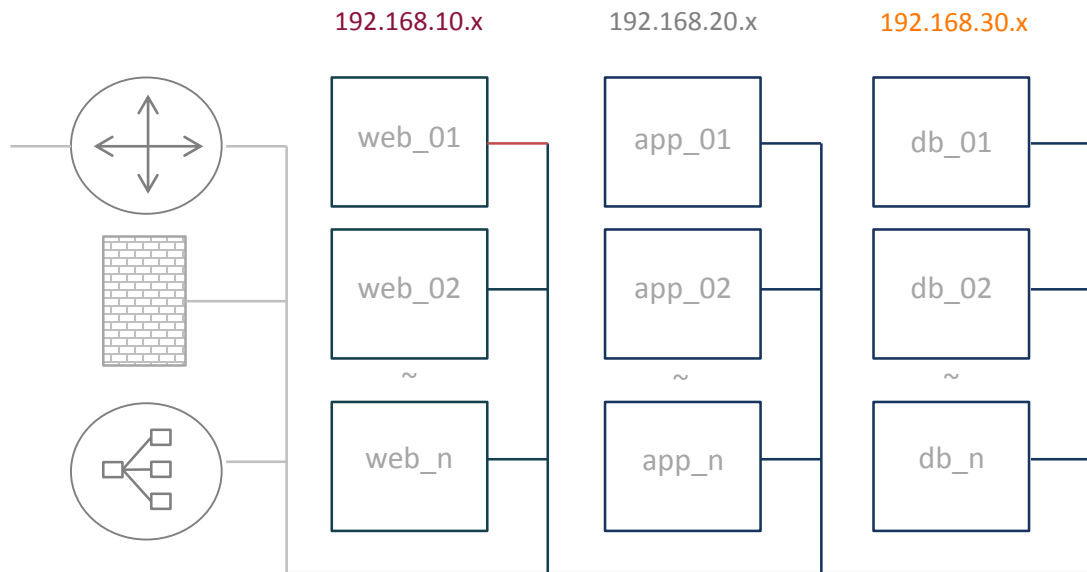
without **any changes**

Same VMs, networking & storage



No workload changes → Data-center to cloud in **a Day**

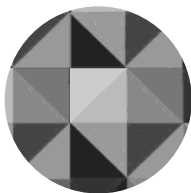
Complex application environment in data-centers



Always need more environments for
development, manual testing, automated testing, staging, UAT, security testing ...

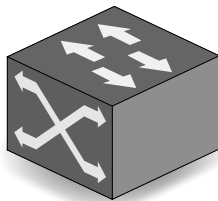
Challenges with the alternatives to Ravello

*Public cloud is very **different** from data-center*



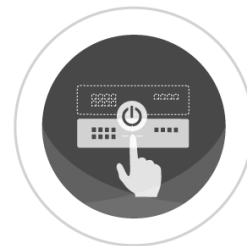
VMware VMs *can't run* on most public cloud

Re-platforming



Layer 2 networking *not supported*

Re-networking

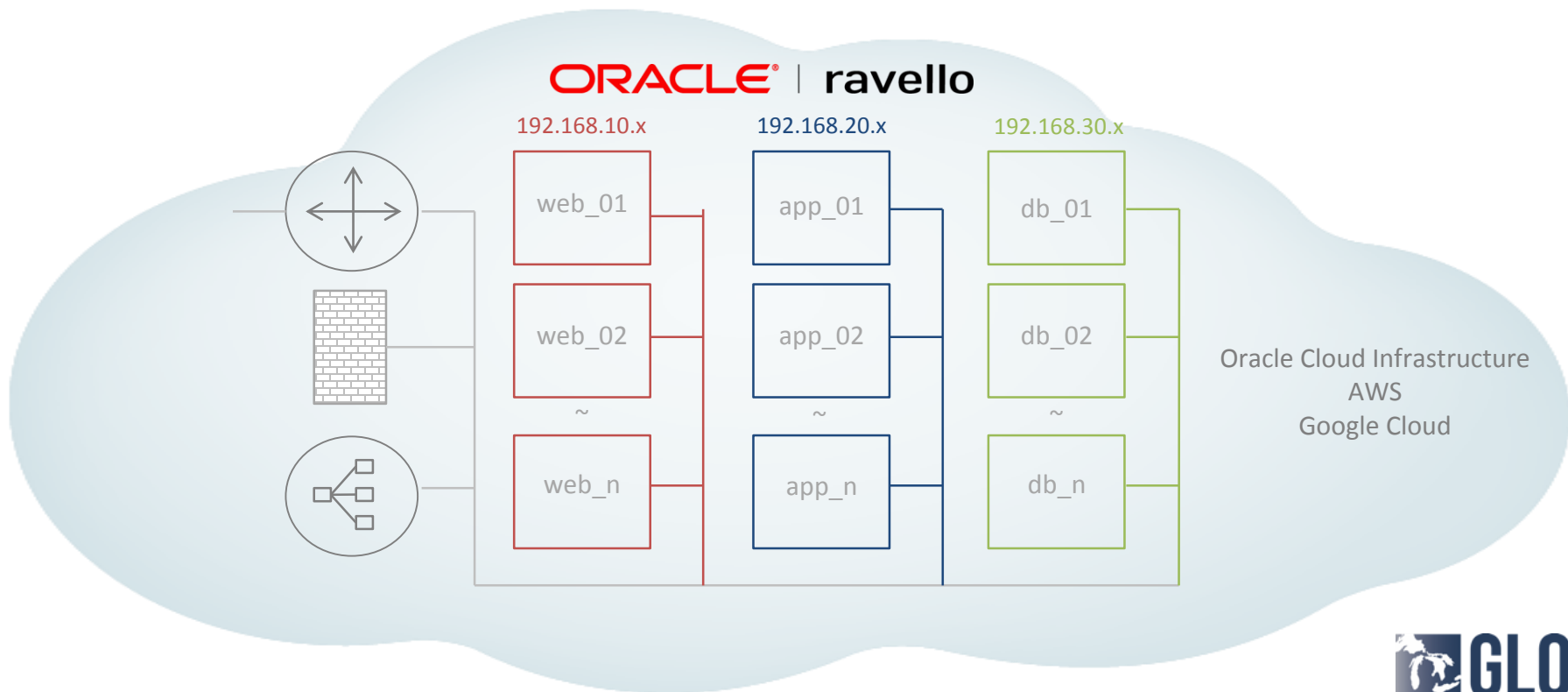


Cloud network & security appliances *different from data-center*

Re-configuration

Migration requires application re-writes, re-platforming, re-networking –
expensive & time consuming

Change nothing – run it in the cloud



Ravello accelerates the move to cloud



VMware app “as-is”
cloud based app a high fidelity replica of on premise



Datacenter-like Layer 2 networking
broadcast / multicast etc. works; same network configuration as on premise app



Blueprinting
no setup overhead with one click replica & move between cloud regions



Geographical reach
run workloads across 29 regions around the world across multiple clouds

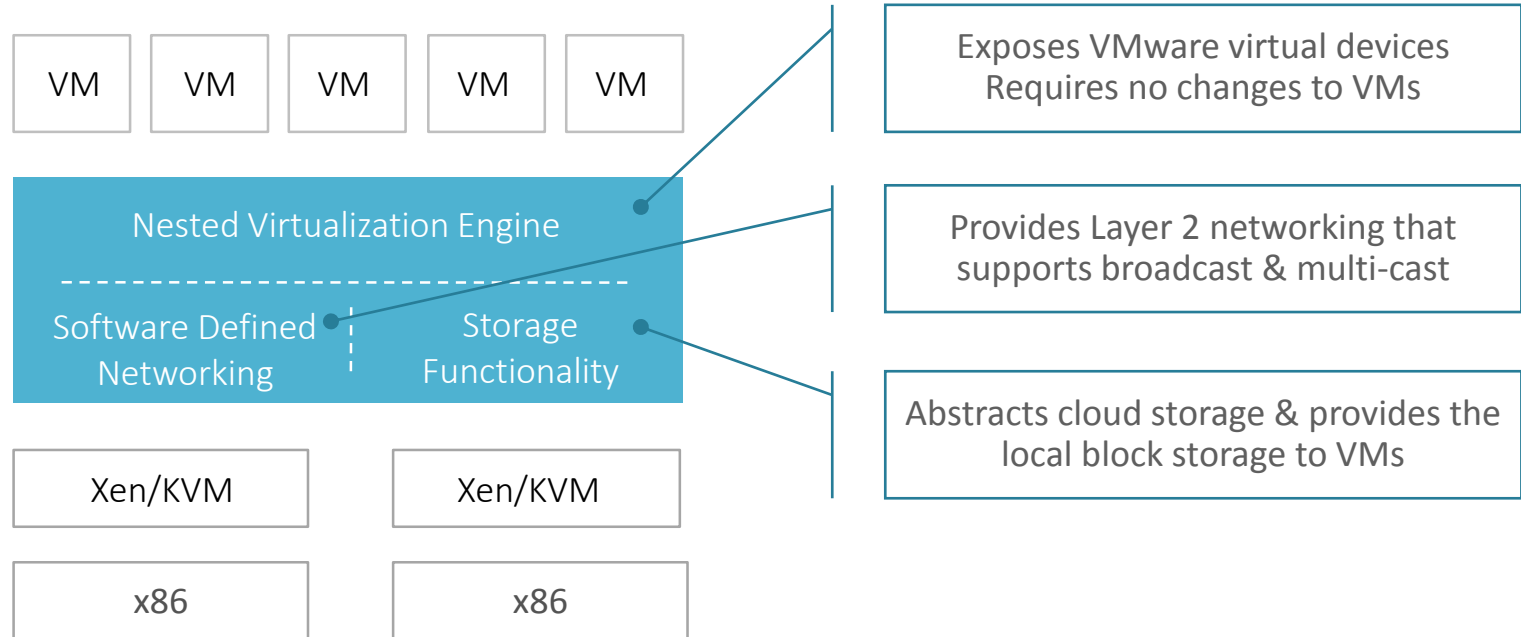
Live-demo 1

1. Upload your VMs (VMware or KVM)
2. Ravello auto-discovers the network {Edit if needed}
3. Deploy to public cloud

Spin up as many isolated copies as you need



Technology overview - HVX

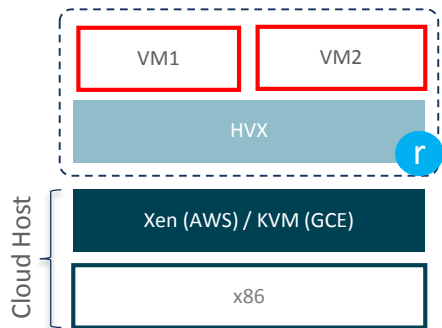


Ravello on Oracle Cloud Infrastructure

- Leverages the unique access that Ravello has on OCI together with the state-of-the-art platform to offer a far superior user experience
 - Utilize **Hardware support for nested virtualization**
 - Utilize **bare-metal instances** where applicable
 - Utilize **deep network integration** to natively peer Ravello environments with OCI's Virtual Cloud Networks (VCN)

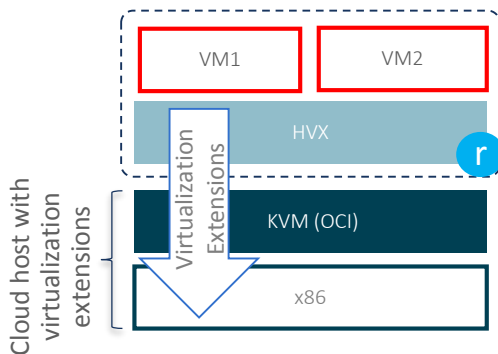
Flavors of nested virtualization

Software based nested virtualization

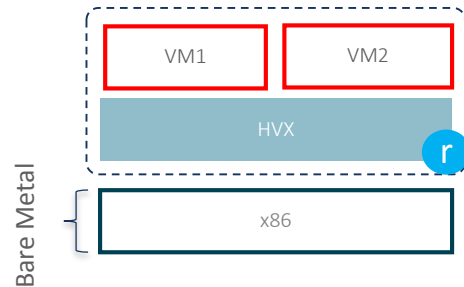


Oracle Cloud Infrastructure

Hardware assisted nested virtualization



Running directly on bare-metal



Ravello on Oracle Cloud Infrastructure (OCI)



**Up to 14X
performance boost**
compared to Ravello on
other clouds



Enhanced Network Services
VPN, FastConnect, Internal
connectivity Oracle PaaS/IaaS



4X bigger VMs
compared to Ravello on
other clouds
(up to 32vCPUs/VM)



Availability Groups
Host anti-affinity to spread mission
critical workloads across availability
domains

Live Performance Test

Ravello on Oracle Cloud Infrastructure vs. Other Public Clouds



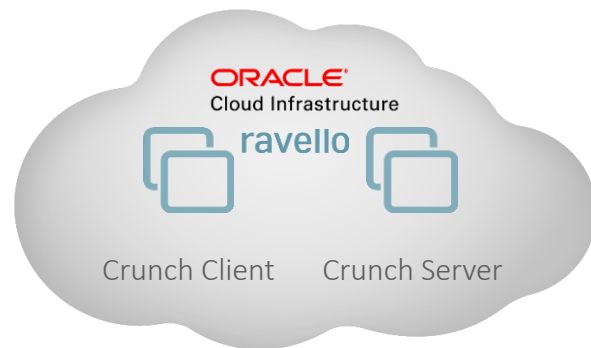
Performance Test Setup

Crunch Client

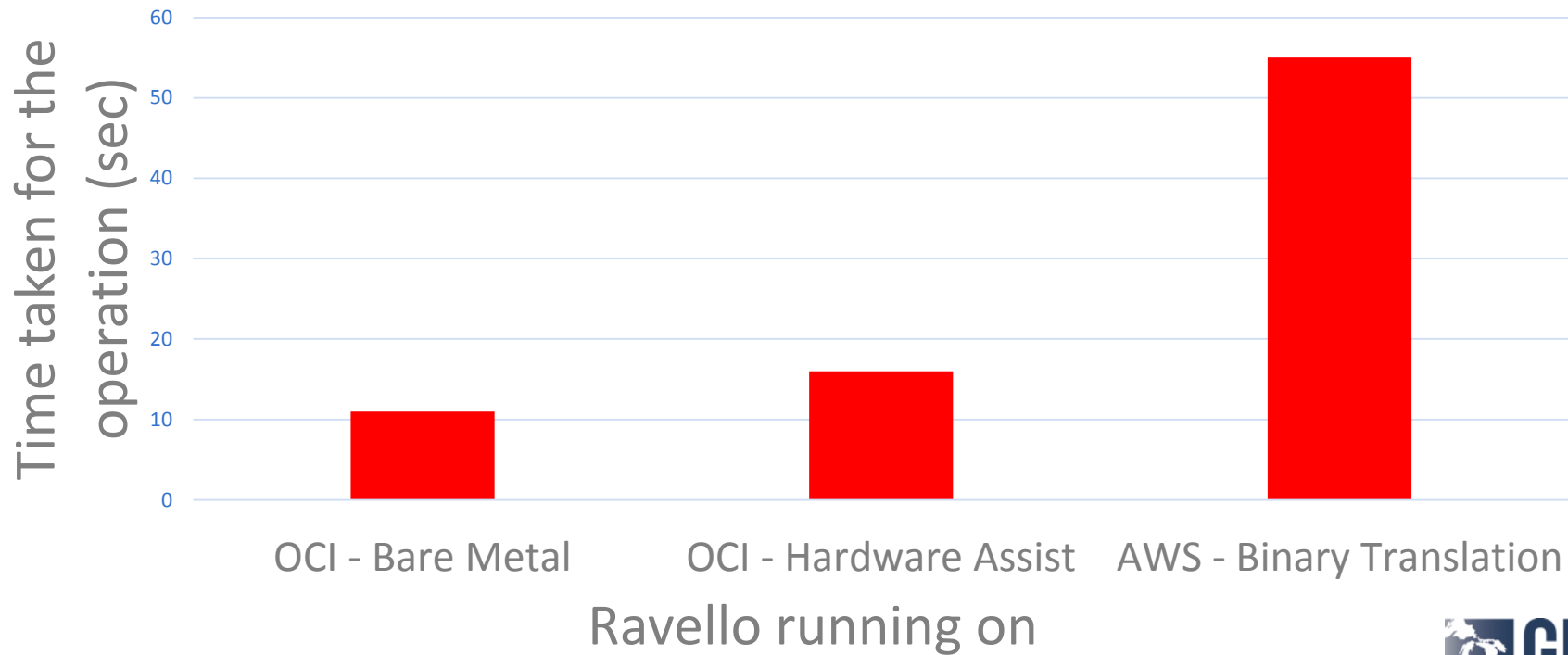
- Creates in parallel 8 random files (20MB each) and writes them to disk
 - **cpu and disk write intensive**
- Encrypts (AES256) the 8 random files and write the encrypted files to disk
 - **disk read - cpu - disk write intensive**
- Sends all files over the network to the server
 - **network intensive**

Crunch Server

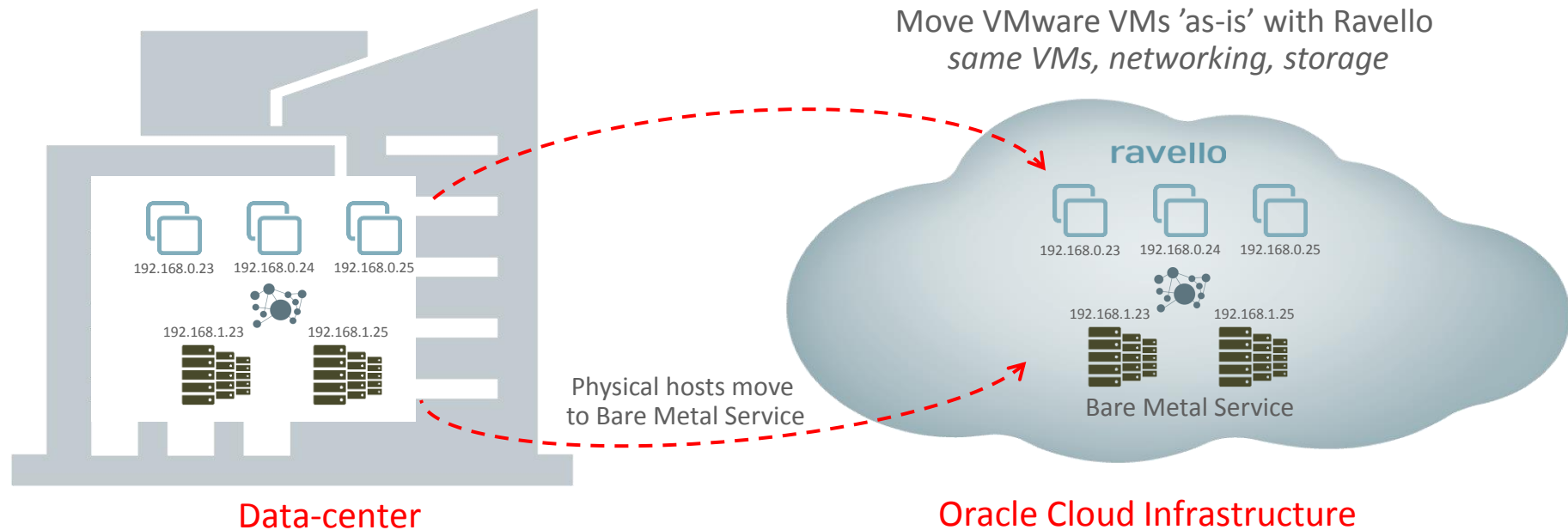
- Listens to TCP traffic and stores files to disk



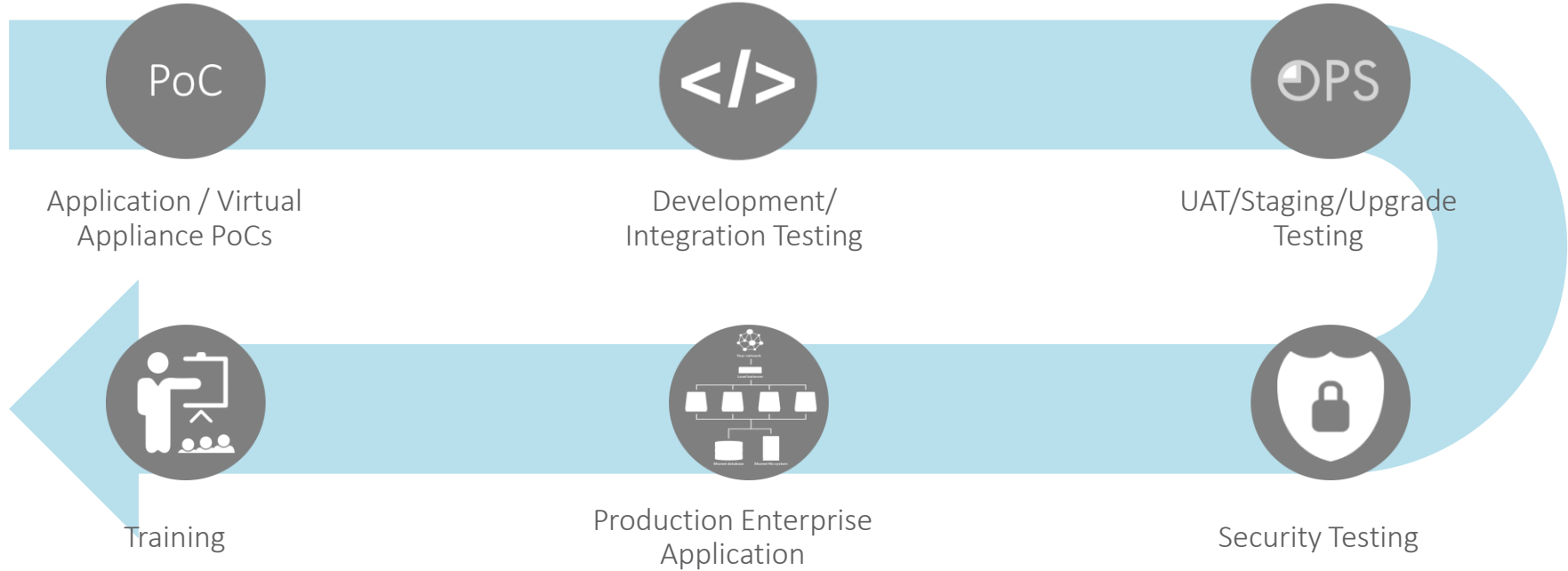
Performance Results



Easily move apps on VMware & physical hosts to cloud



Ravello enables data-center capabilities on public cloud for every stage of enterprise application lifecycle



Ravello brings agility and delivers savings

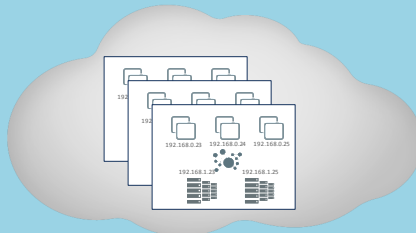
No 'migration' costs

Move to cloud "as-is" saving
time & costs



Business agility

No setup overhead
Rapid deployment through
infrastructure cloning



Cost savings

40-60% savings compared to
running on premise





cloud.oracle.com/Ravello