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Using Oracle Solaris, WebLogic and OpenStack to deliver true Elastic Cloud

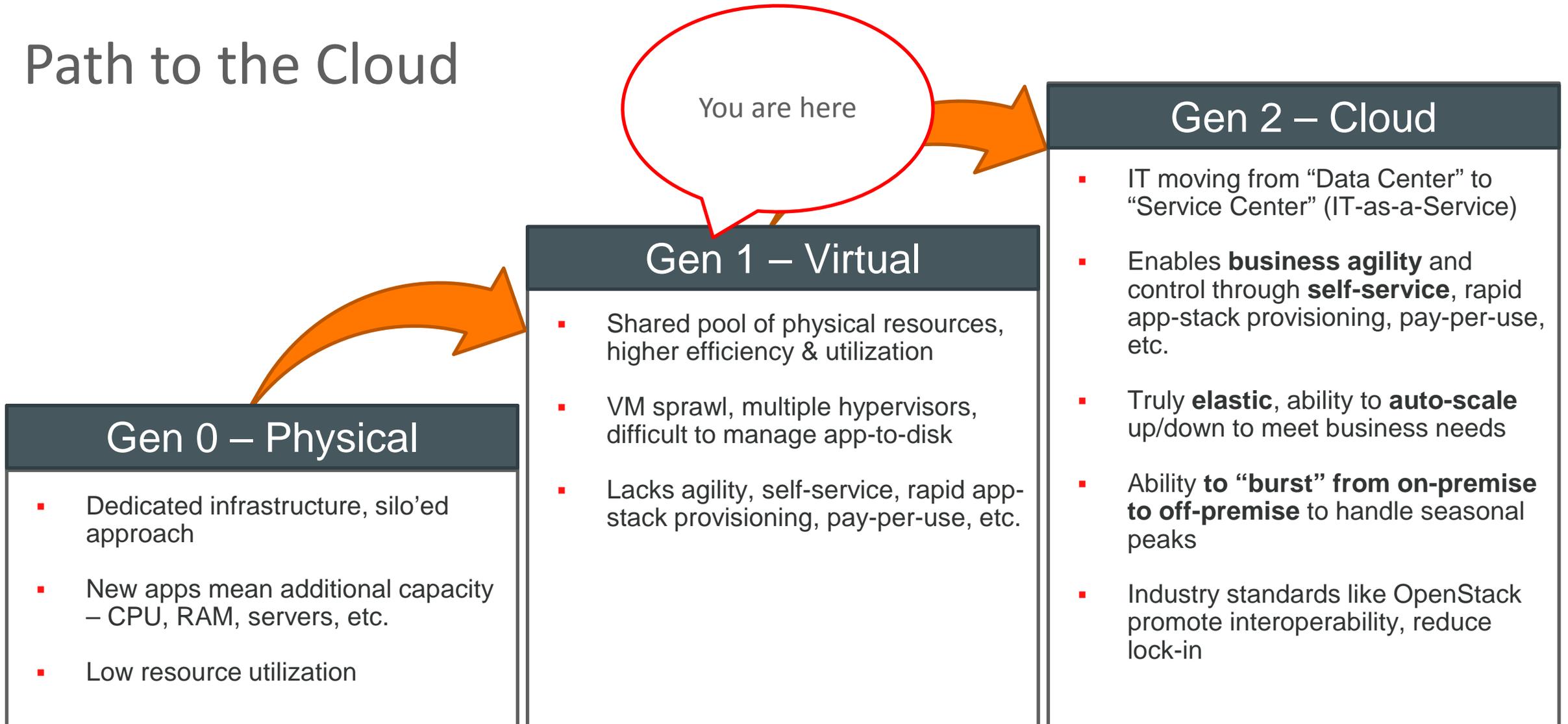
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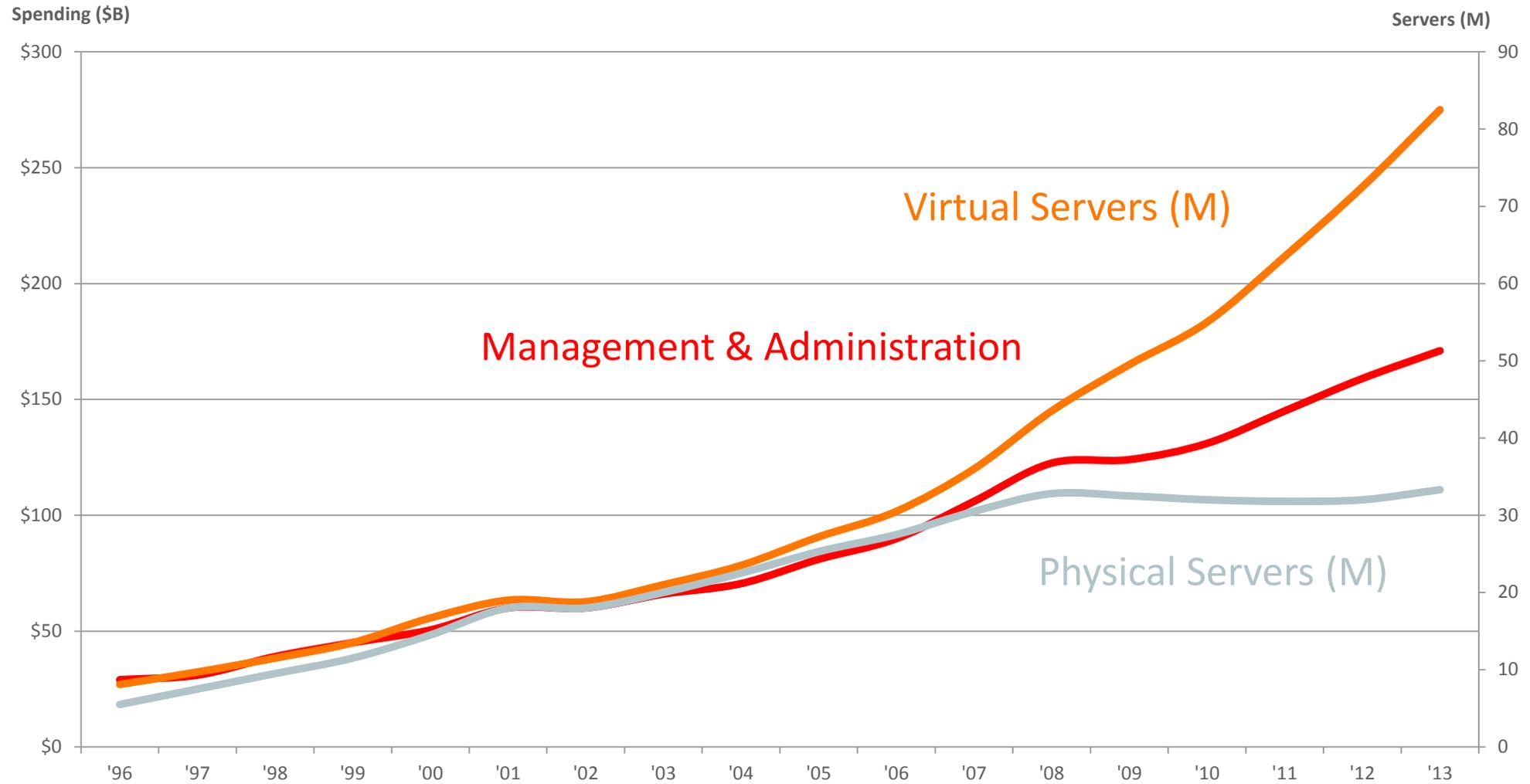
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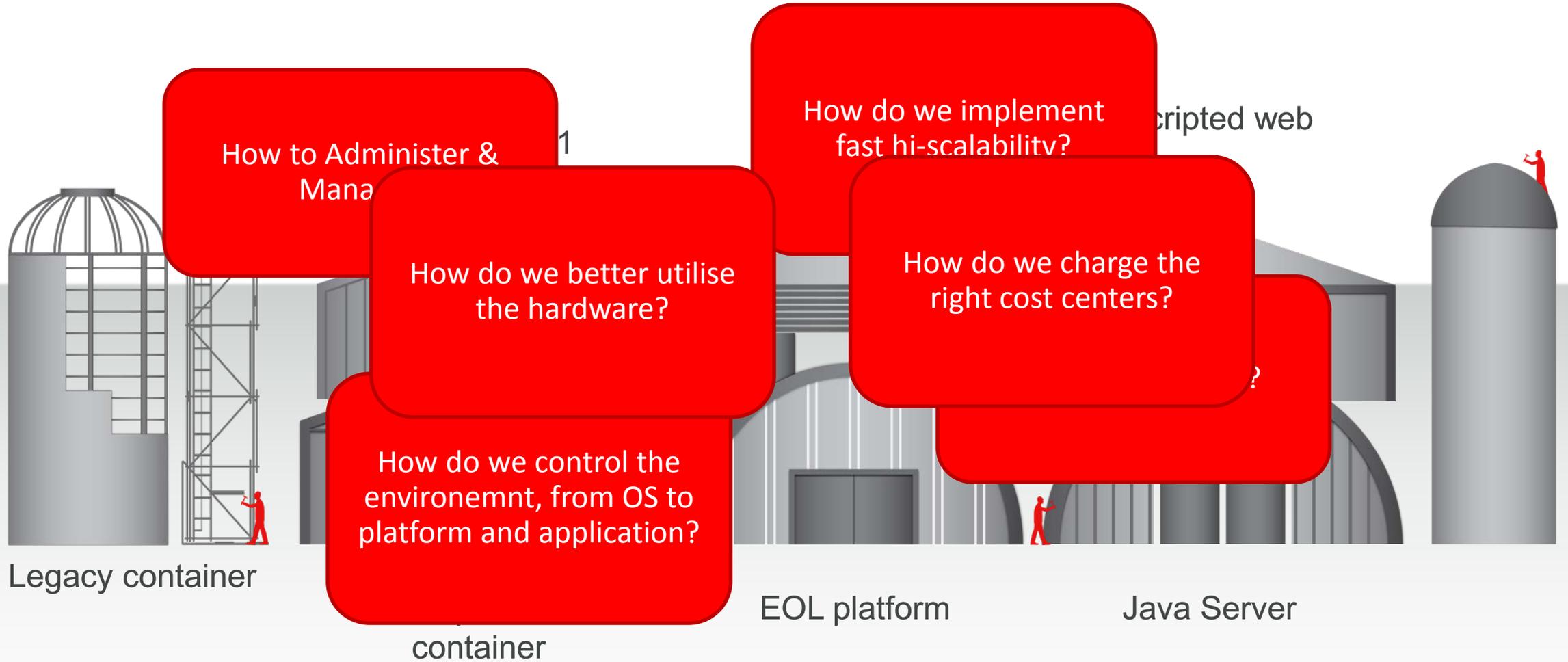
Path to the Cloud



Virtualization Drives Management Costs



Sprawl of Disparate Middleware Environments



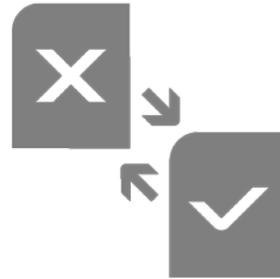
Requirements for Enterprise Cloud



Efficient



Simple



Open



Secure &
Compliant



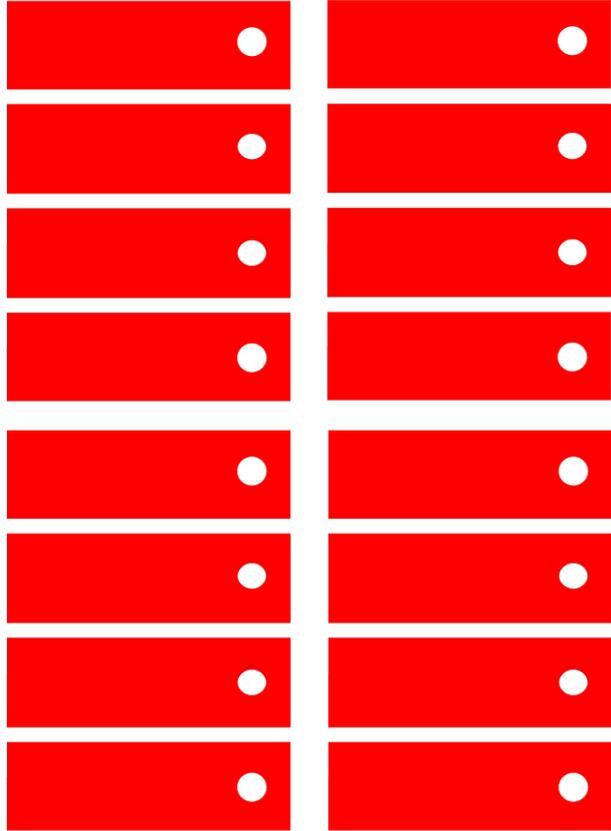
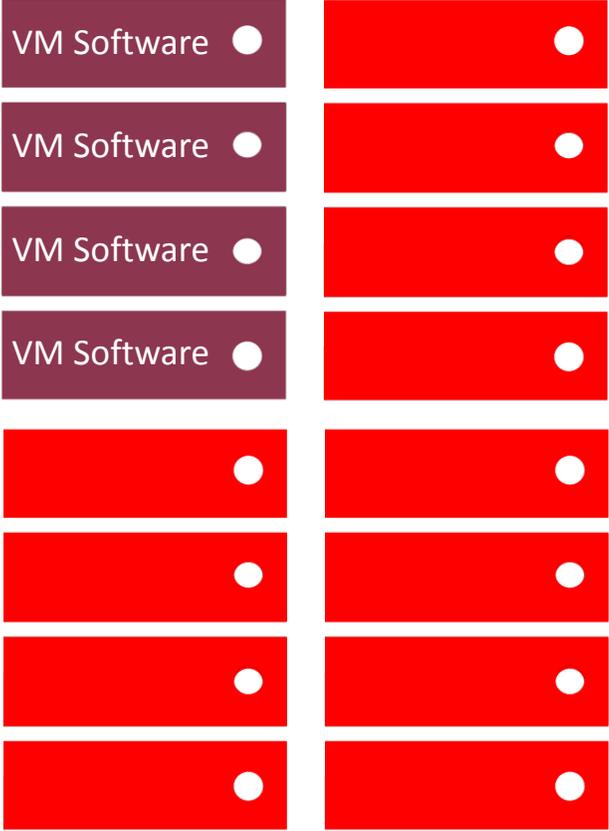
Affordable

Efficient Cloud



Efficient Virtualization

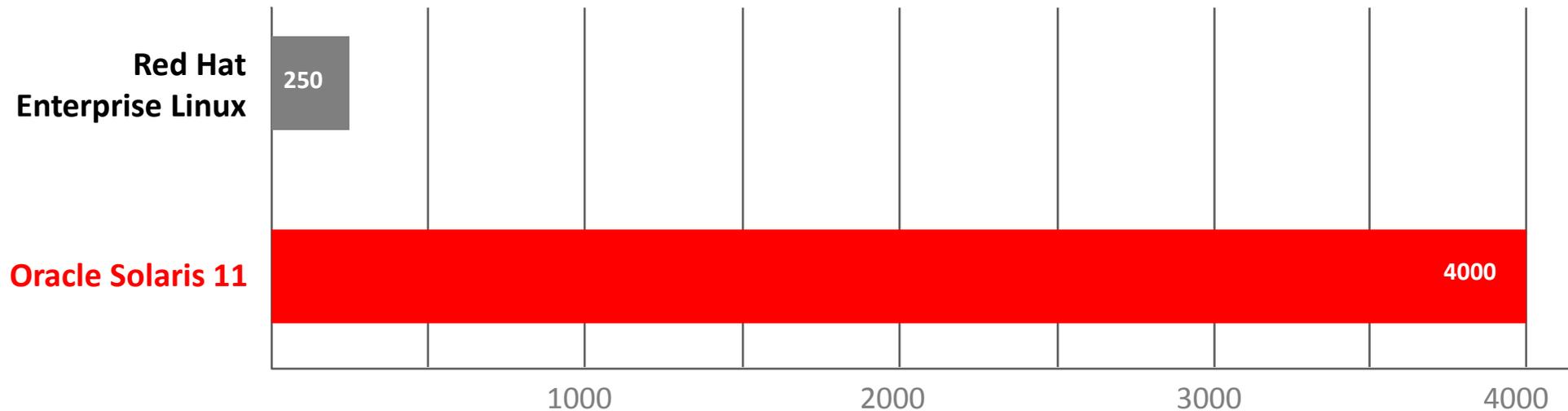
Avoid the Virtualization Tax



Simple Cloud

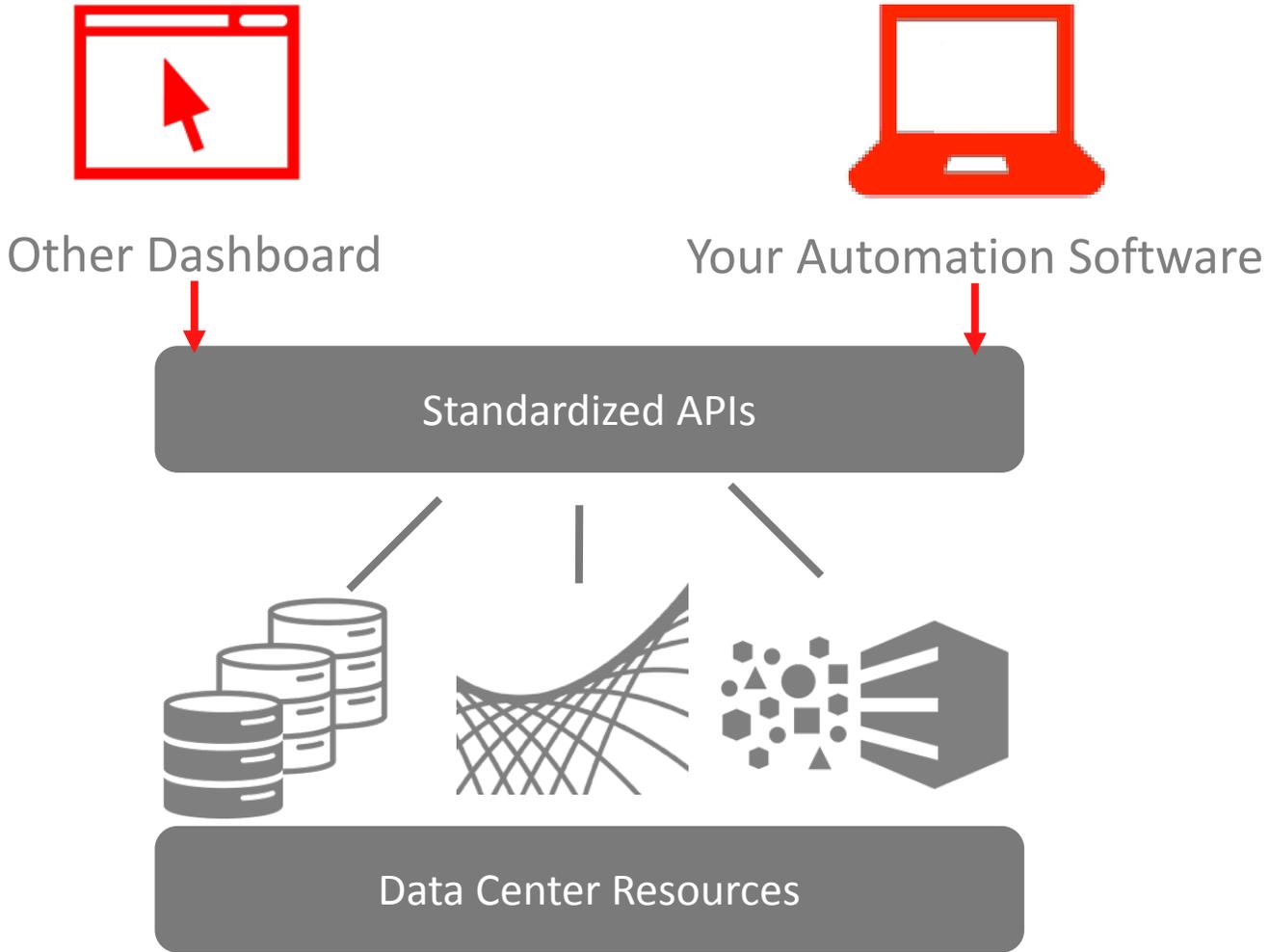
Major Financial Customer

VMs/Administrator

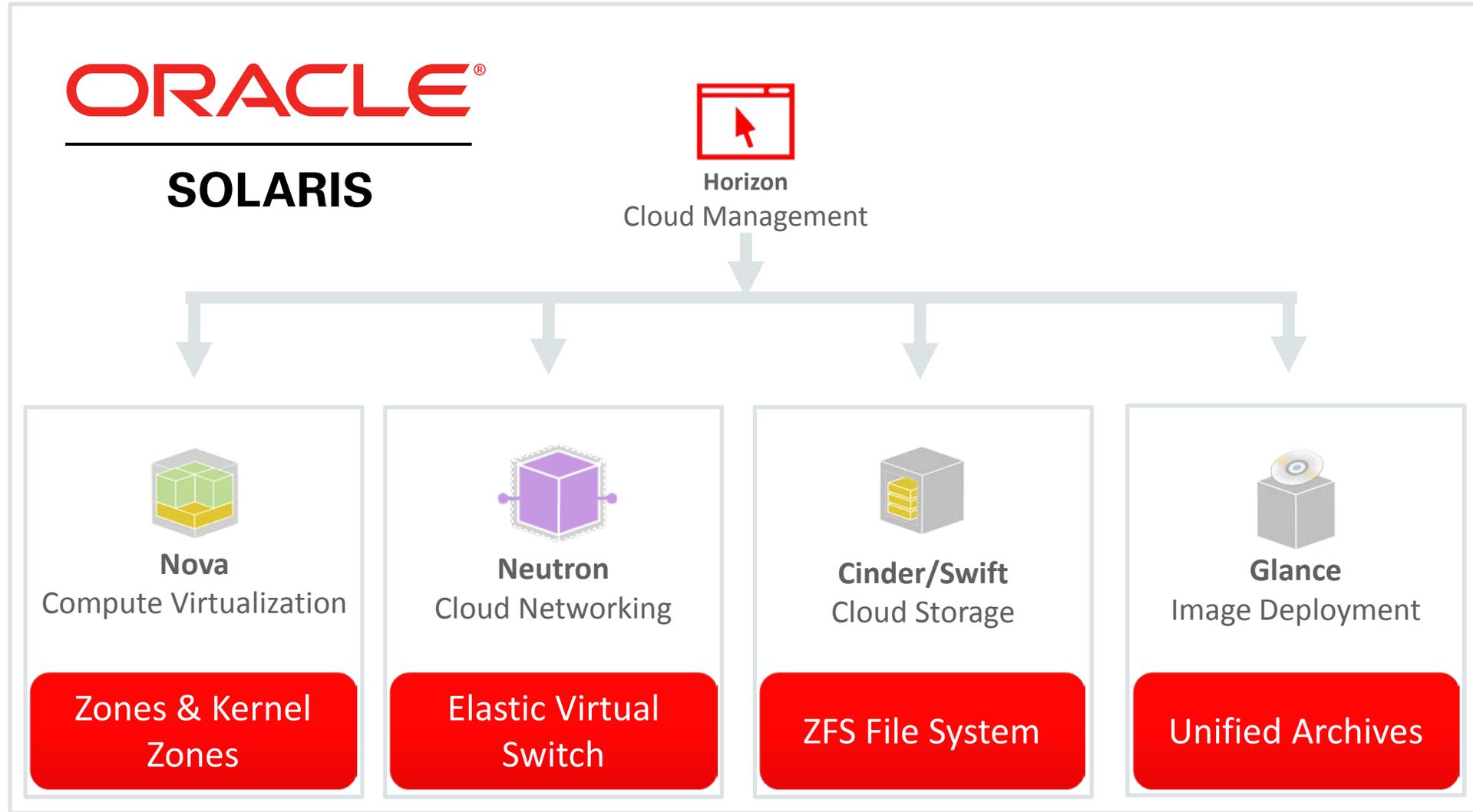


16X
EFFICIENCY

Open Cloud



Full Distribution of OpenStack in Oracle Solaris



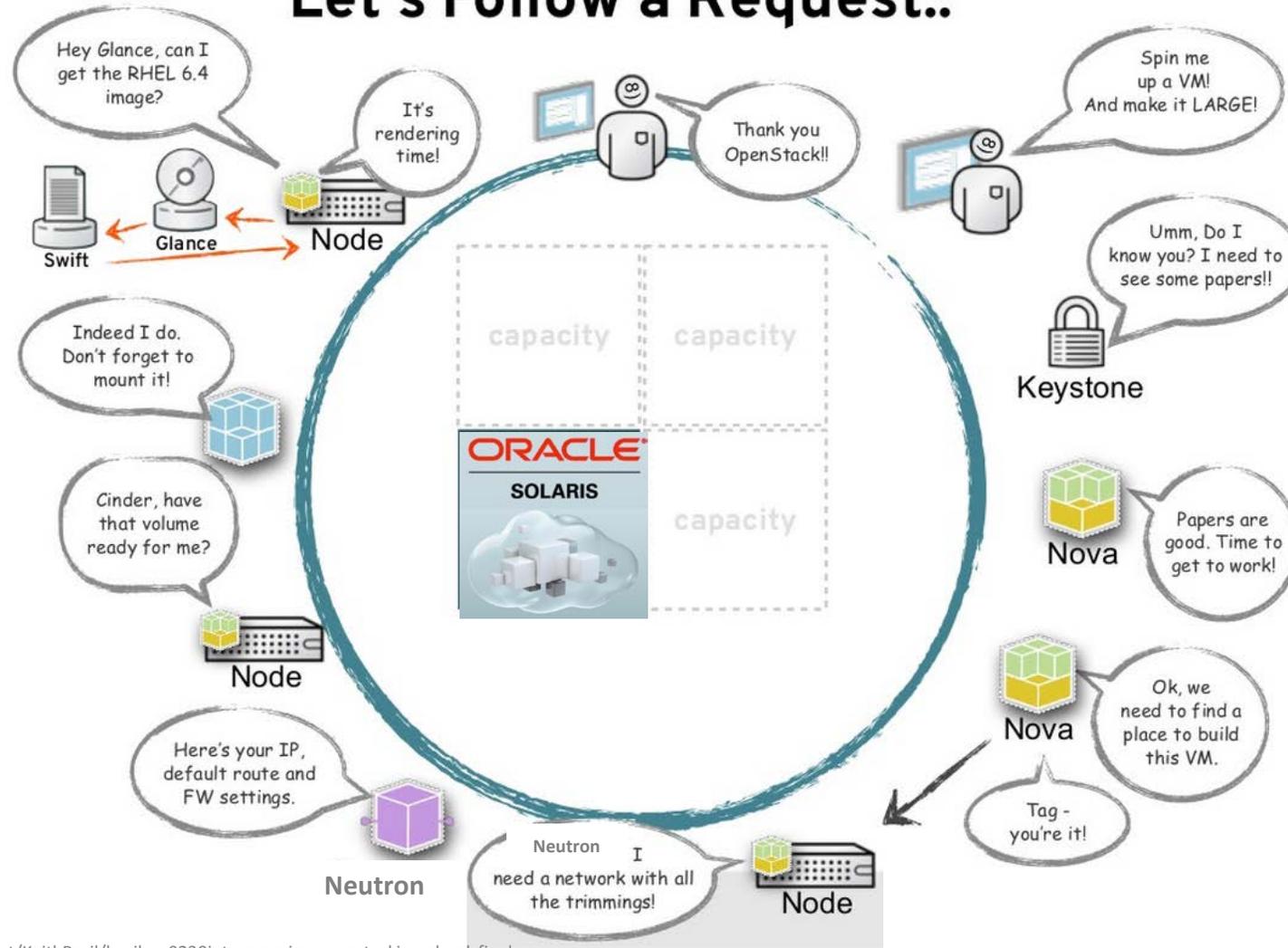
Goals of OpenStack

Provide a ubiquitous cloud computing platform which is ...

- Open
 - Based on open, industry standards
- Scalable
 - Able to scale massively
- Simple
 - Simple to implement
- Size-agnostic
 - Cater to clouds of all sizes (ranging from very small to very large)

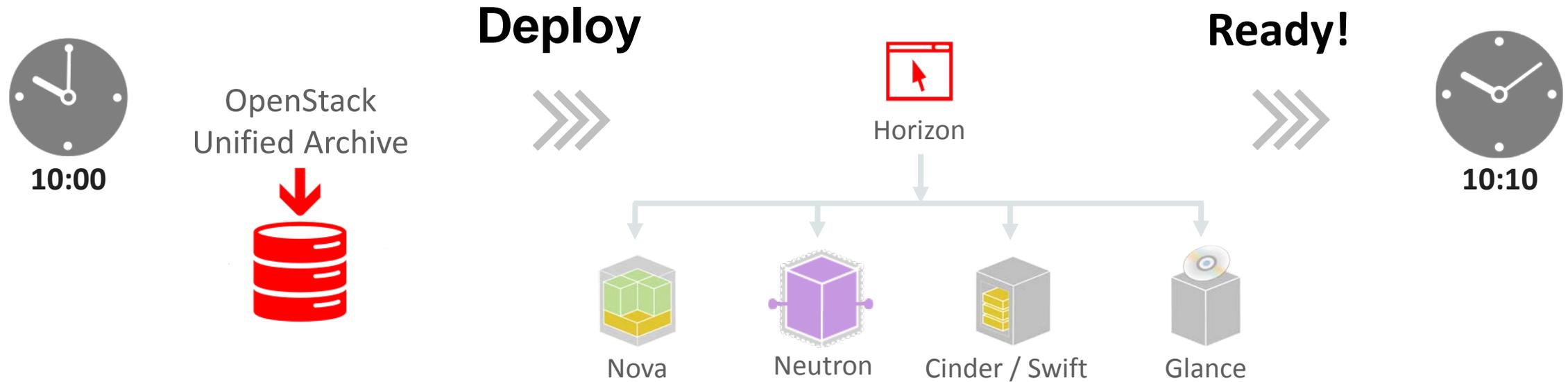
OpenStack Provisioning Request Flow

Let's Follow a Request..



Source: <http://www.slideshare.net/KeithBasil/basil-w-0230introoverviewopenstackiaascloudsfinal>

Fastest Route to Cloud



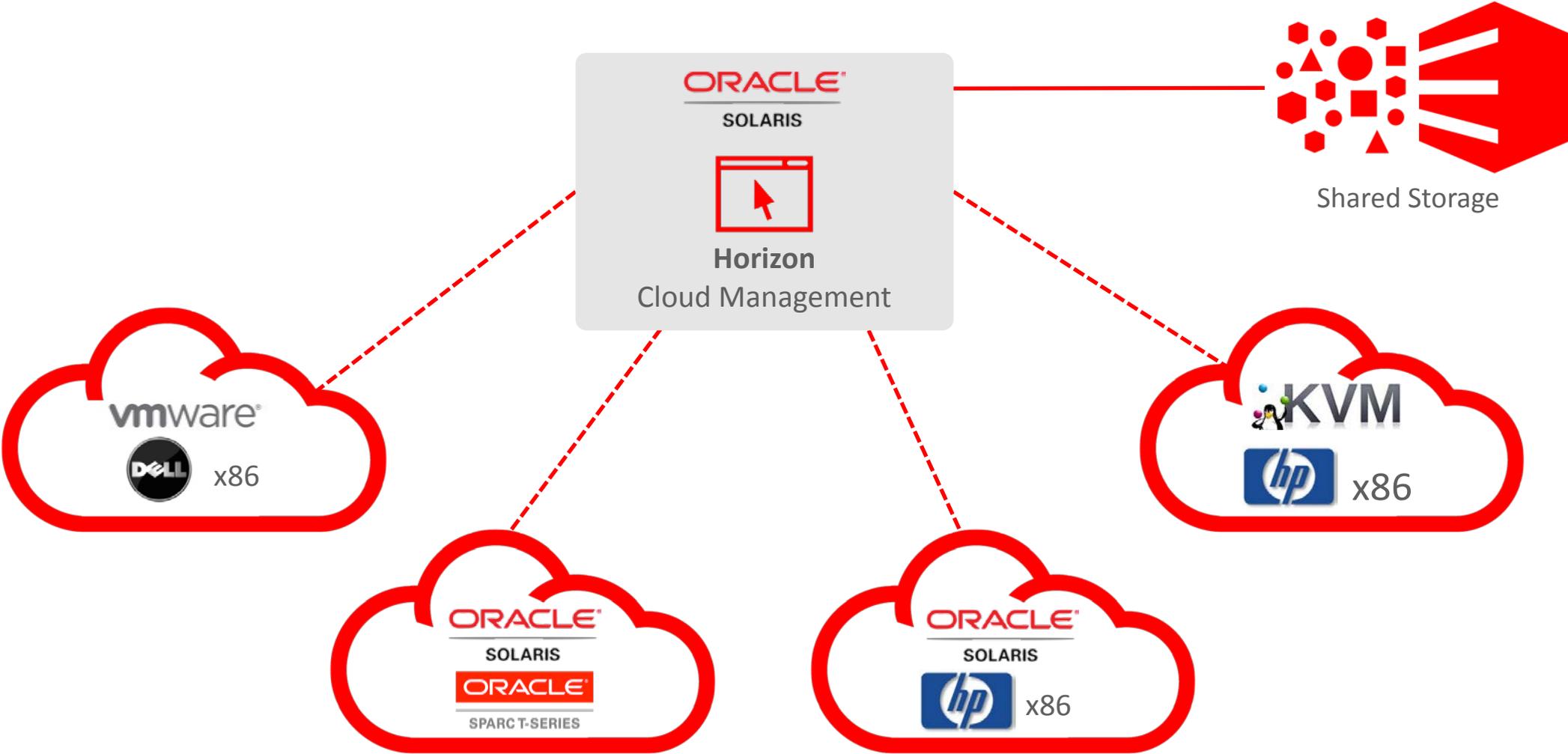
Bare Metal to Cloud in 10 Minutes!

Compliant and Secure Service Deployment



Unified Archive Locked Down: Dev through Production

Oracle Solaris Enterprise OpenStack



Affordable Cloud



Efficient



Simple

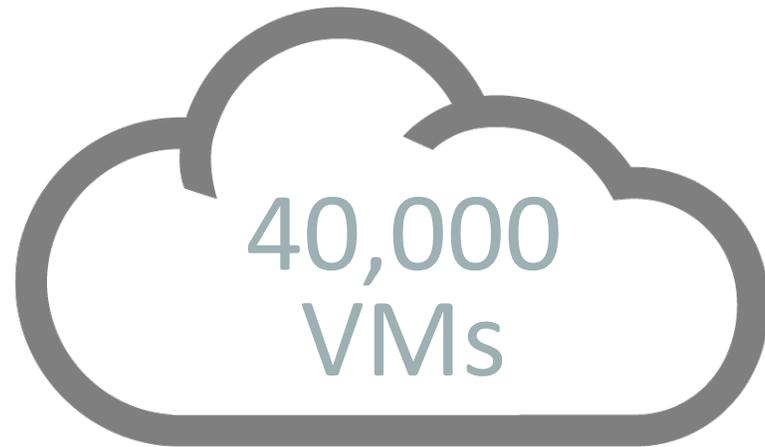


Affordable

**>\$500/VM
Saved**

Affordable Cloud

Major US Company is Saving \$20 Million



\$20,000,000

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SOLARIS

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SOLARIS



OS



Virtualization



SDN



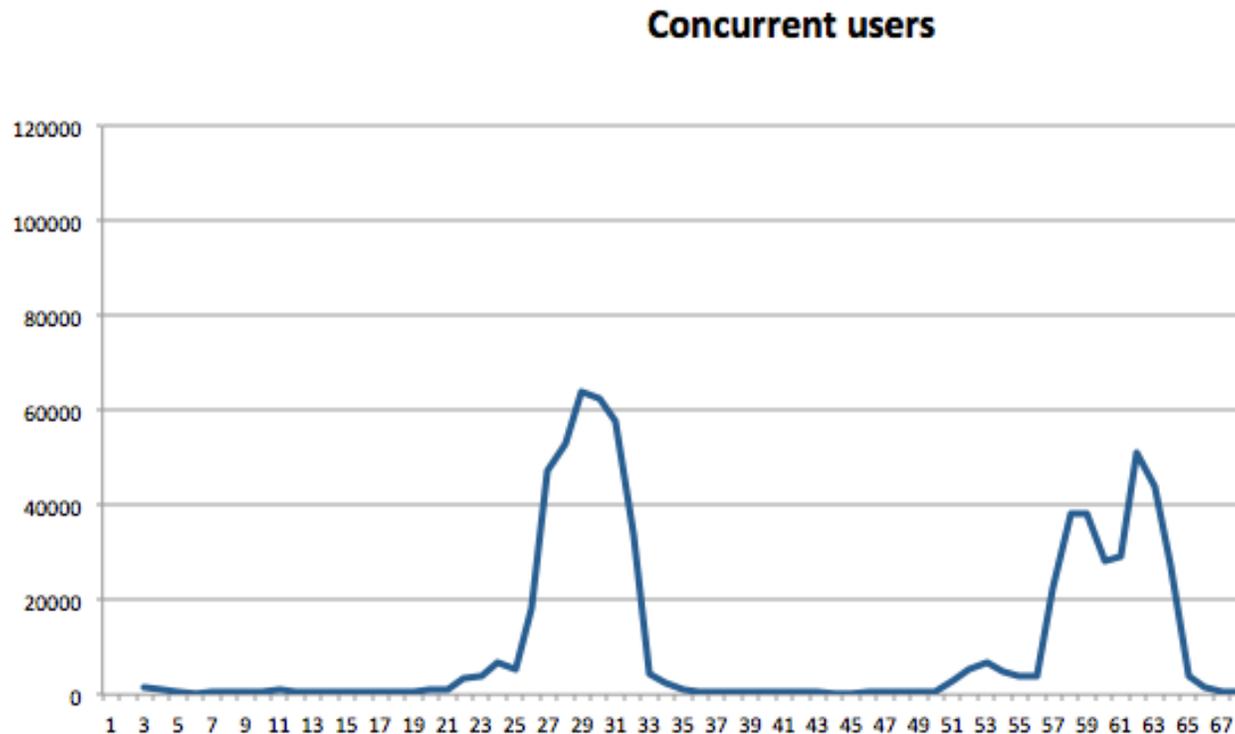
OpenStack



COMPLETE.

Middleware and Applications in the Cloud

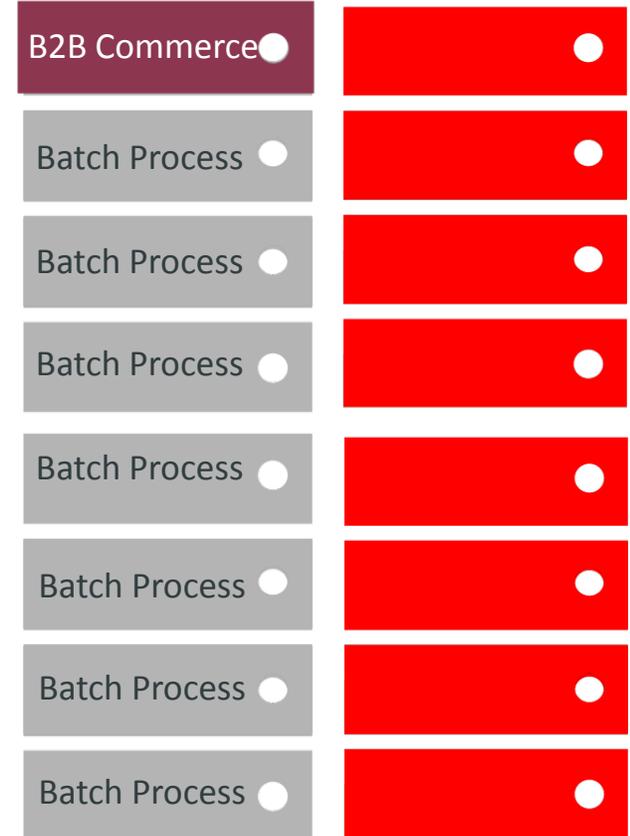
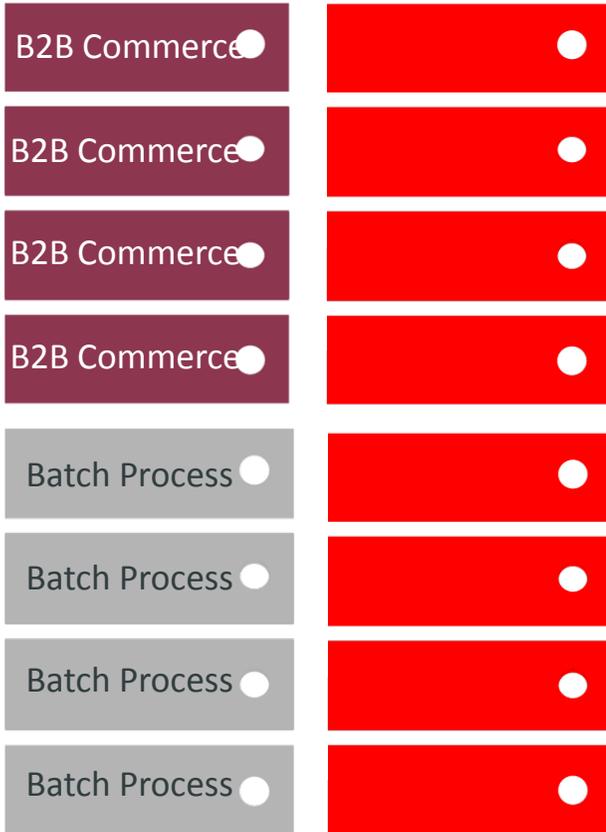
Challenge: Enterprise Application Deployment



- Mission-critical
Fail-safe
- Revenue Generating

- Fluctuating workload
Hi-scalability

Resource Allocation



- Deliver Cloud elasticity with built-in Oracle Database 12c integration and dynamic clustering
- Simplify management with common install, update and administrative tools
- Increase developer productivity with support for Maven, HTML5, WebSockets and more



WebLogic Server & Cloud Application Foundation

The #1 Application Server Across Conventional and Cloud Environments

Cloud Elasticity with Automated Scaling

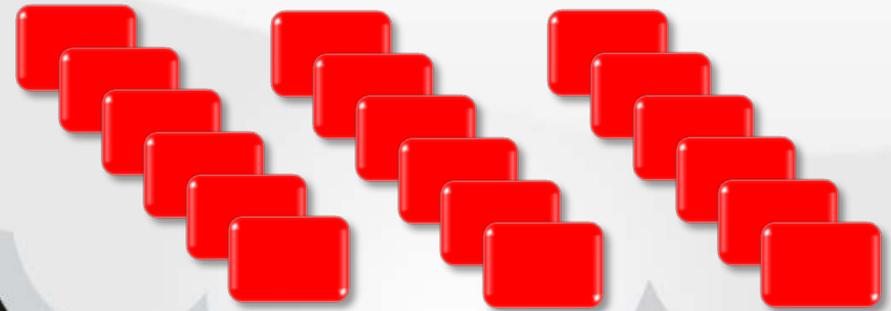
Dynamic Clusters

SIMPLIFIED SCALABILITY

- Zero Reconfiguration to Scale, Shrink Clusters
- Dynamic Clusters with Automated Ports, Naming
- Oracle Cloud, Private Cloud Elasticity



Dynamic Clusters
Declarative Elasticity

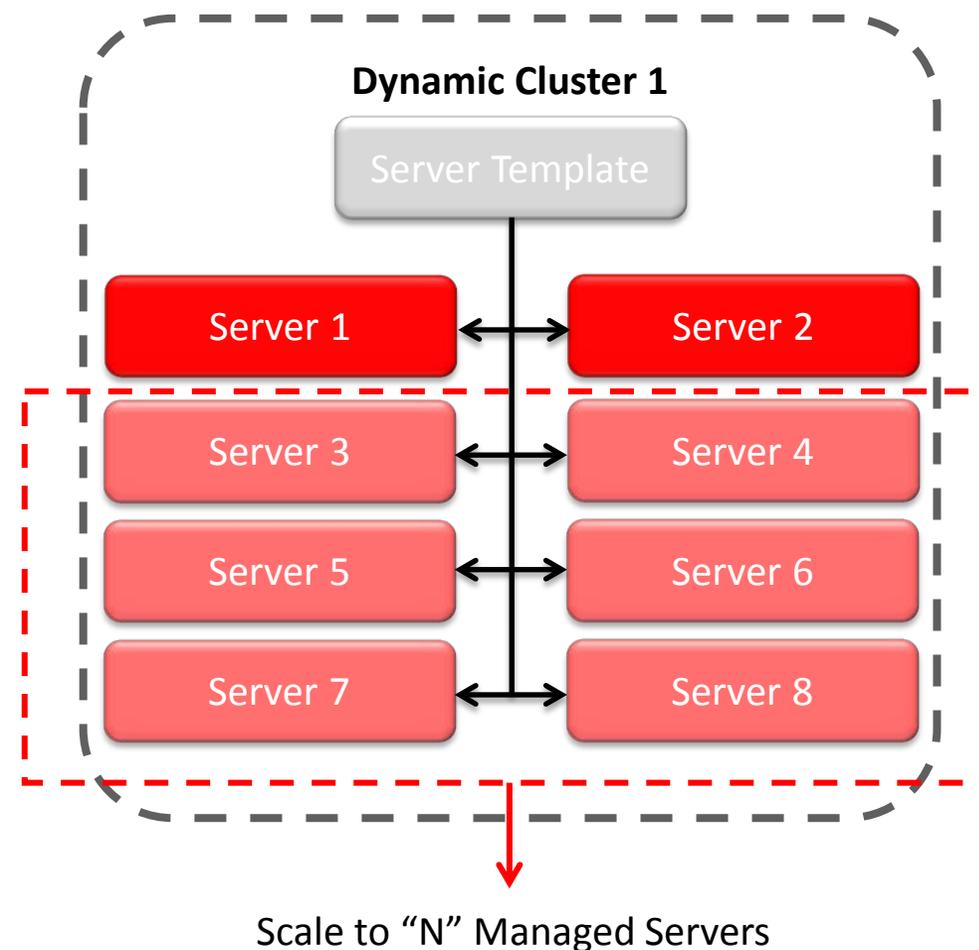




Dynamic Clusters

Scale Clusters by Changing one Parameter

- How it works
 - Create cluster with dynamic servers based on server template
 - Servers inherit attributes from template
 - Rules for calculating server-specific attributes
 - Server name, listen ports, machines.....
 - “N” servers available in the configuration
 - Configuration changes are dynamic
 - Start /stop servers to scale cluster
- Supported with
 - Console, WLST, Enterprise Manager
 - Elastic JMS
 - Managed Coherence Servers



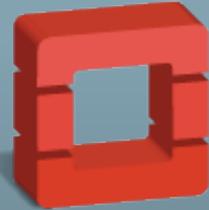
Cloud Monitor

openstack4j

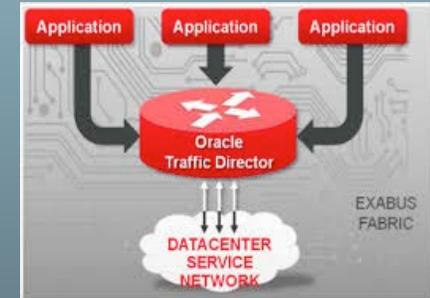
WLDF/WLST

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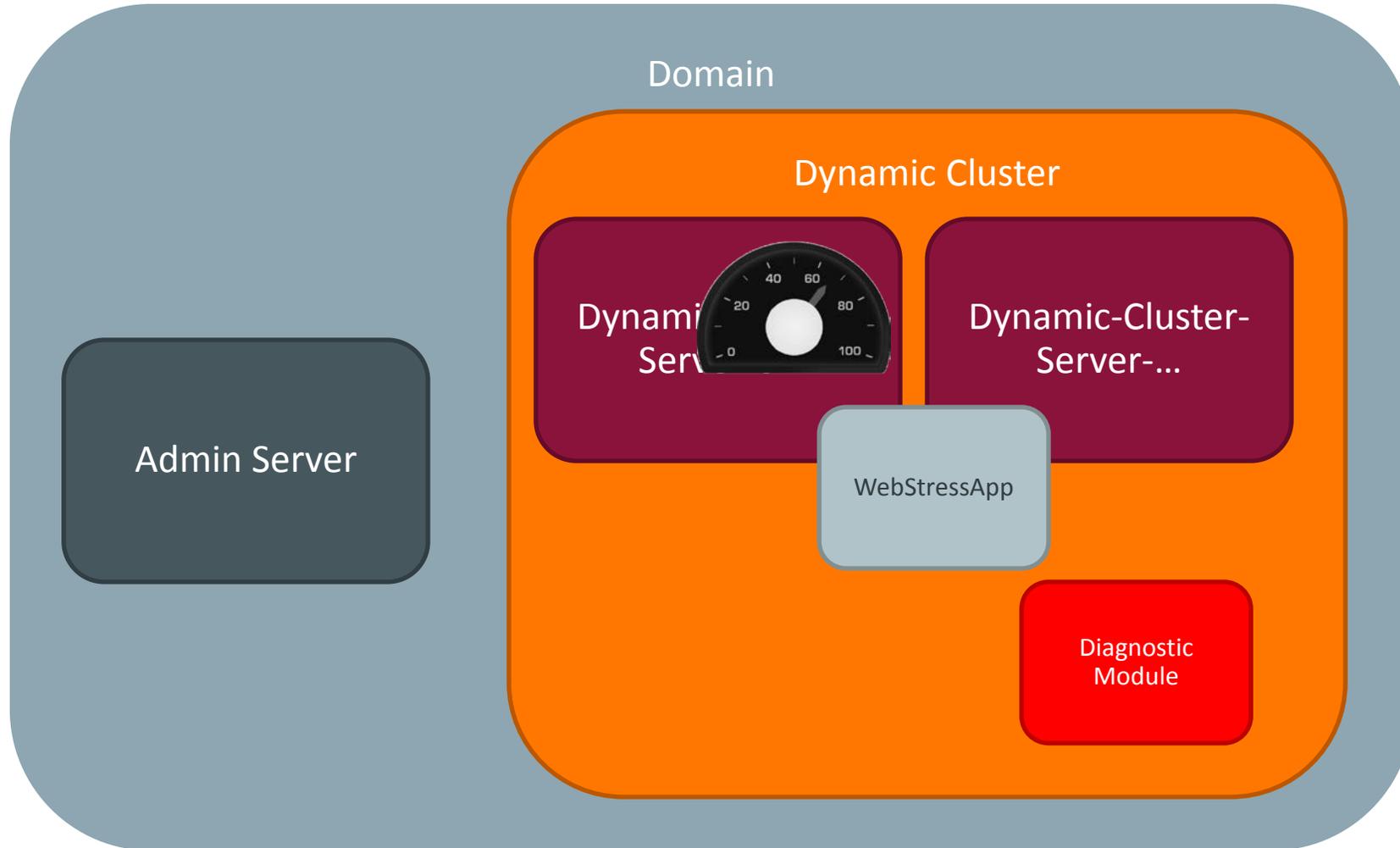
SOLARIS



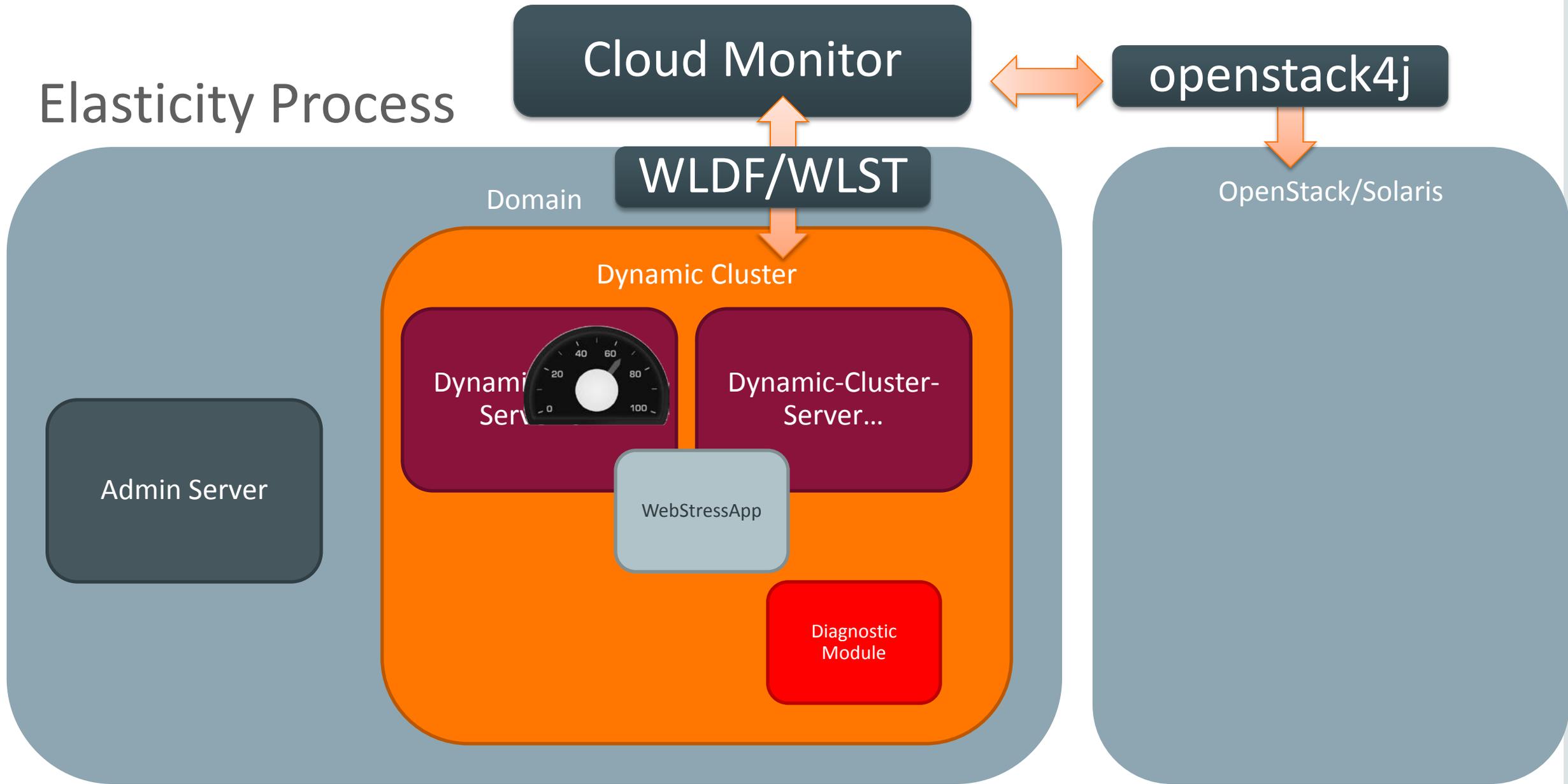
openstack™
CLOUD SOFTWARE



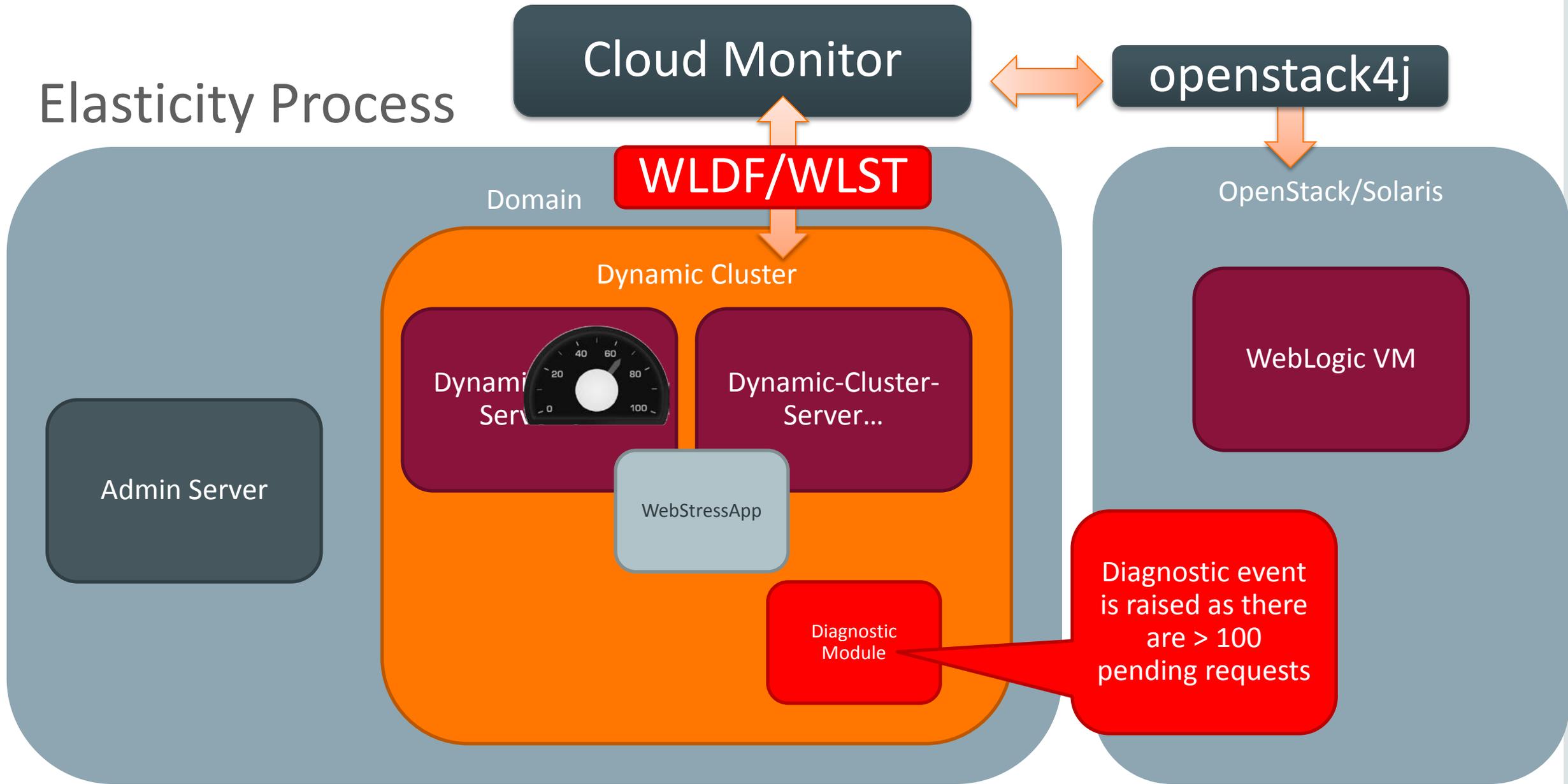
WebLogic Logical View



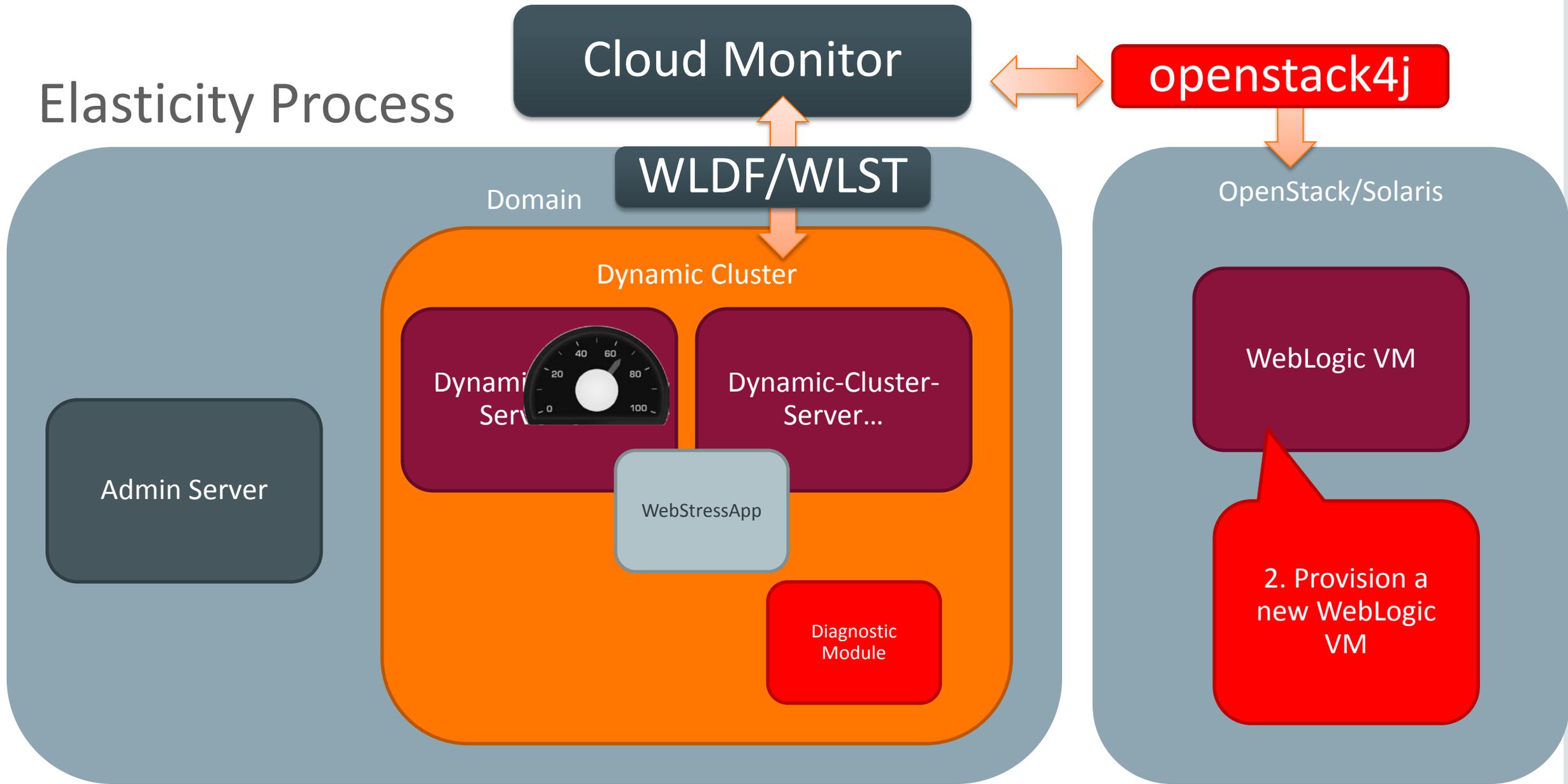
Elasticity Process



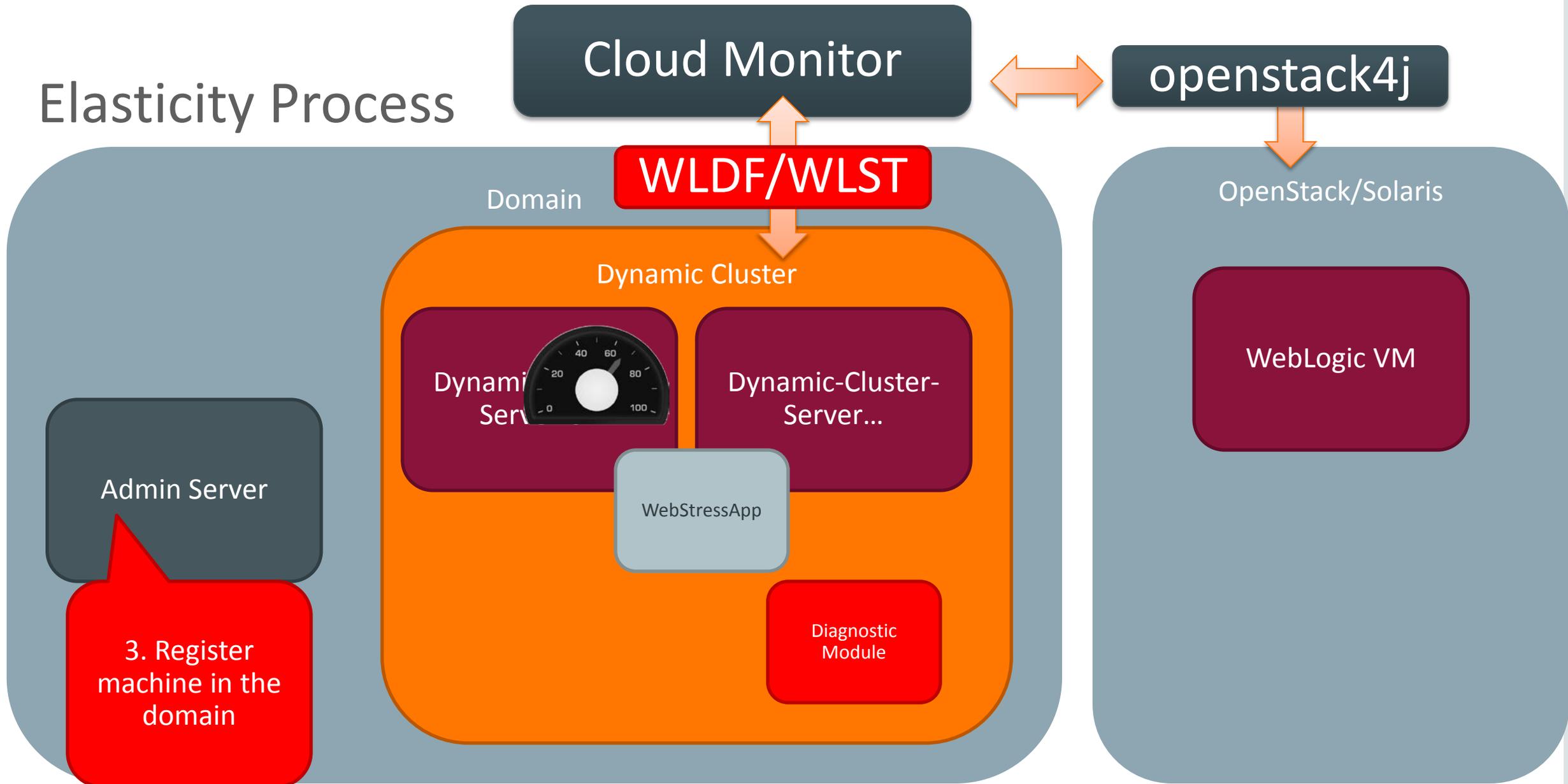
Elasticity Process



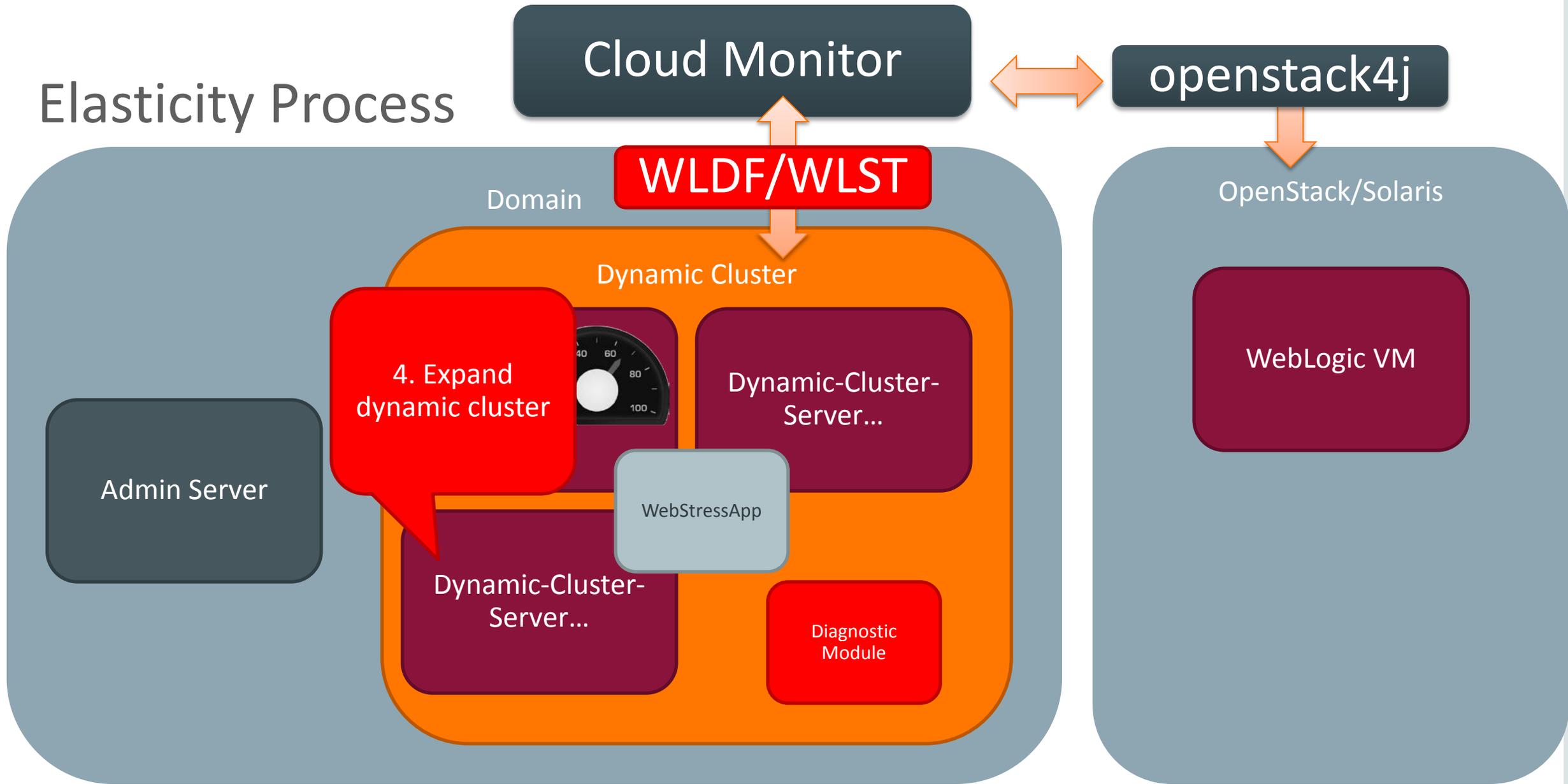
Elasticity Process



Elasticity Process



Elasticity Process



Demo

Q&A

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