

# elogics

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## Systems

The technology solutions architects

ORACLE®

**Gold  
Partner**  
Cloud Standard

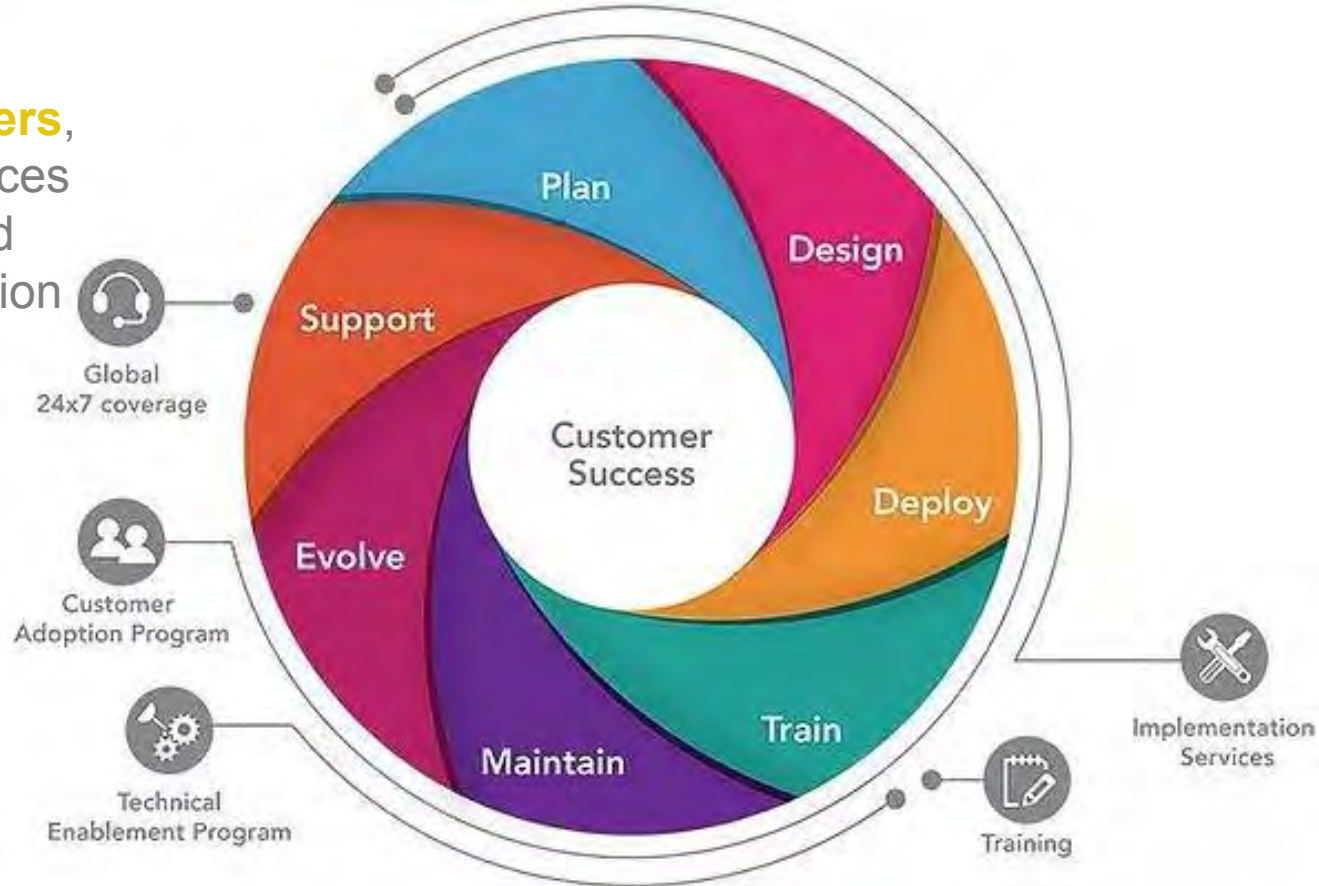
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Cloud Excellence Implementer

Kuwait

ORACLE®

As Oracle **Gold Partners**,  
Our Value added services  
related to Oracle Cloud  
Adaption/ implementation



# NIST Definition of Cloud Computing

Cloud computing is a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.

This cloud model promotes availability and is composed of:

## 5 Essential Characteristics

- Broad network access
- Resource pooling
- Rapid elasticity
- On-demand self-service
- Measured service

## 3 Service Models

- SaaS
- PaaS
- IaaS

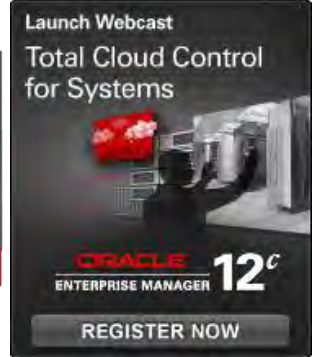
## 4 Deployment Models

- Public Cloud
- Private Cloud
- Community Cloud
- Hybrid Cloud

# From Grid to Cloud @ Oracle

## 2011: From 11g to 12c and some „First’s“

- Oracle OpenWorld – October 2011
  - From Oracle Enterprise Manager Grid Control 11g to 12c Cloud Control
    - „the industry’s first solution to combine management of the full Oracle stack with complete enterprise cloud lifecycle management”
    - „Oracle Enterprise Manager 12c is the first product in Oracle’s portfolio numbered „12c“ where „c“ stands for Oracle’s significant investment in delivering cloud-ready products.“
    - From Oracle WebLogic Suite 11g to 12c
      - the Foundation for Cloud Applications and Application Infrastructure Consolidation
  - Nevertheless: Oracle 11 – The First Cloud OS
- Oracle Cloud – June 2012
  - PaaS and SaaS Public Cloud Offerings
- What’s in it beyond marketing?



# Evolution of Computing

<b>Paradigm</b>	<b>Abstract</b>	<b>from</b>
Programming Languages	Algorithms	Machine instructions
Operating Systems	Application environment	Hardware
Filesystems & volume managers	Unstructured data	Physical storage
Databases	Structured data	Storage
Virtual machines	Operating System	Physical hardware
OS Containers	Application environment	Operating system
(Java) Application Server	J2EE Application Environment	Operating system & middleware
Grid Computing	Distributed application	Distributed platform
Cloud Computing	Application	Infrastructure

# Abstraction Layers in Cloud Computing

## IaaS, PaaS, SaaS

Different Users



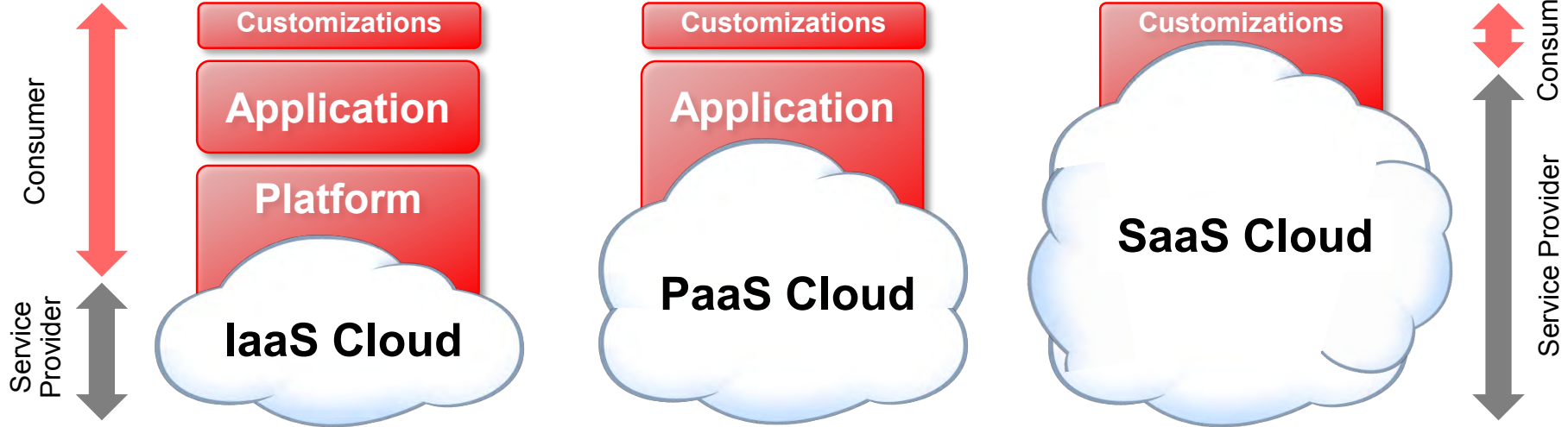
IT Professional



Developer

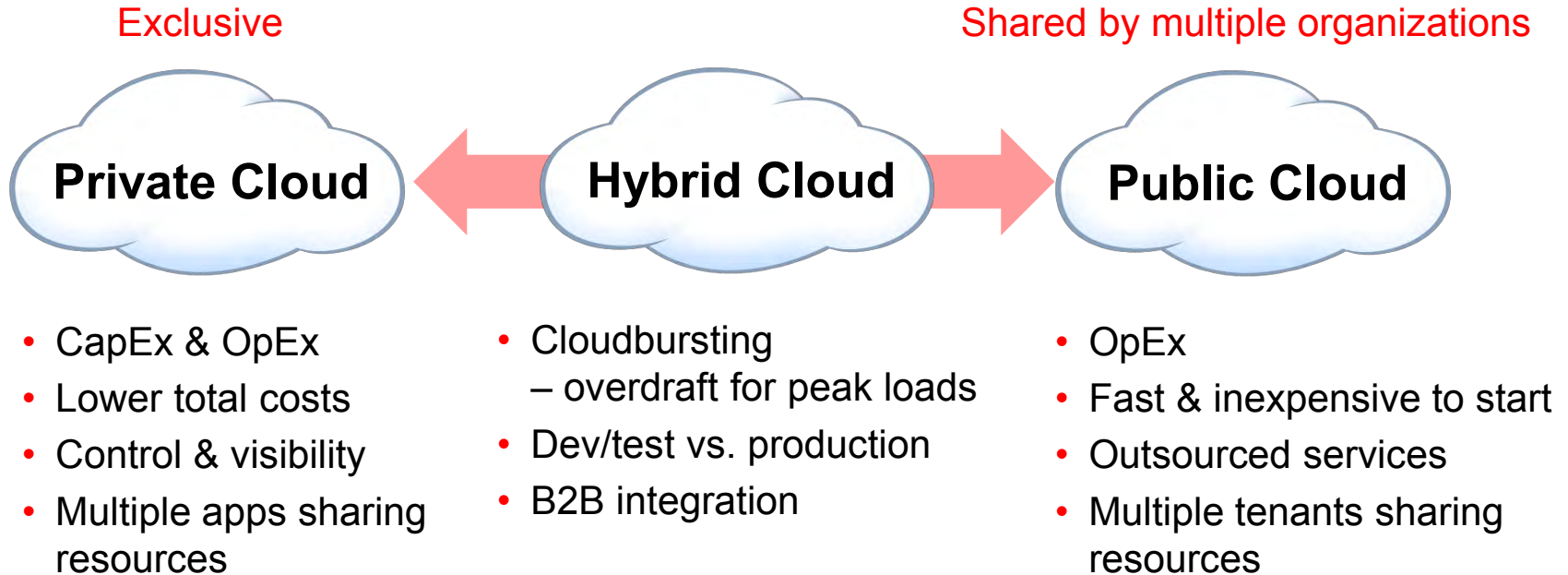


Business End User

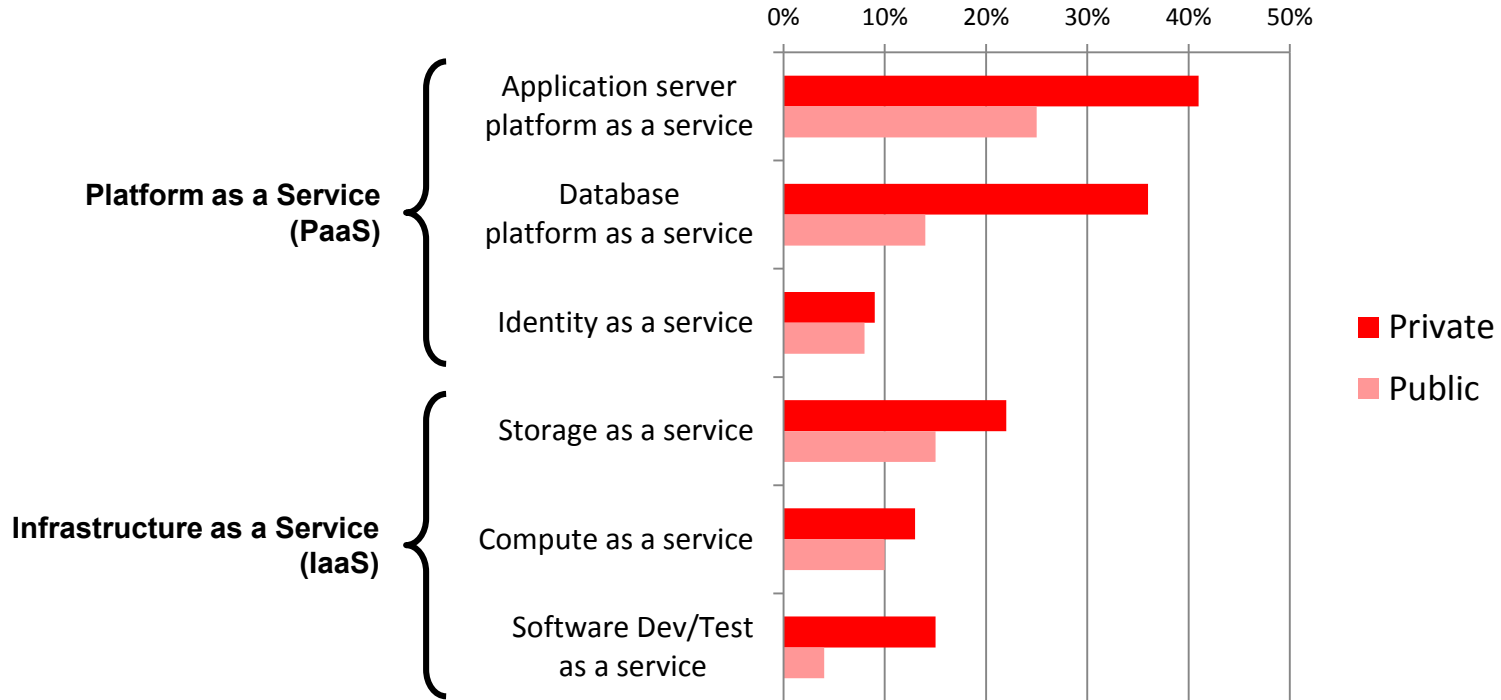


# Choice of Deployment Models

## Private, Public, Hybrid (and Community)



# PaaS Outpacing IaaS



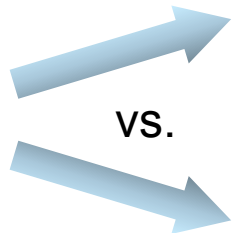
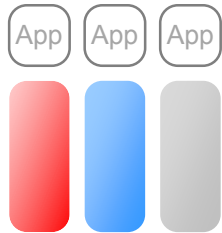
Source: IOUG ResearchWire member study on Cloud Computing, conducted in Aug-Sept 2011



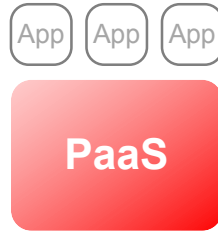


# Consolidation as a First Step to Private Cloud

Consolidate onto **standard**, shared and elastically scalable PaaS



Consolidate onto shared IaaS **without standardization**



- Standardized PaaS for all applications reduces heterogeneity, cost and complexity
- Accelerated new application development
- Cost savings from less hardware, power and data center space

- Software stack heterogeneity, cost and complexity persists
- No administration (O&M) cost savings
- Cost savings from less hardware, power and data center space

Oracle Cloud Computing

Solid foundation.  
Elastic cloud.

# Building a Private Cloud

## 5 Essential Characteristics

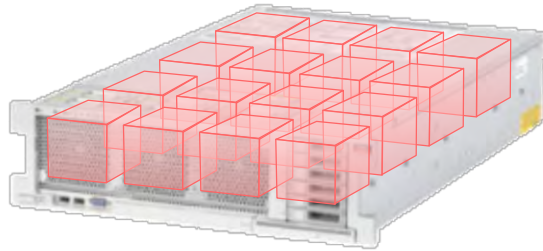
- Broad network access
- Resource pooling
- Rapid elasticity
- On-demand self-service
- Measured service

# Resource Pooling and Elastic Scalability

Delivered through Server Virtualization and Clustering

## Server Virtualization

Make one physical resource look like many



## Clustering

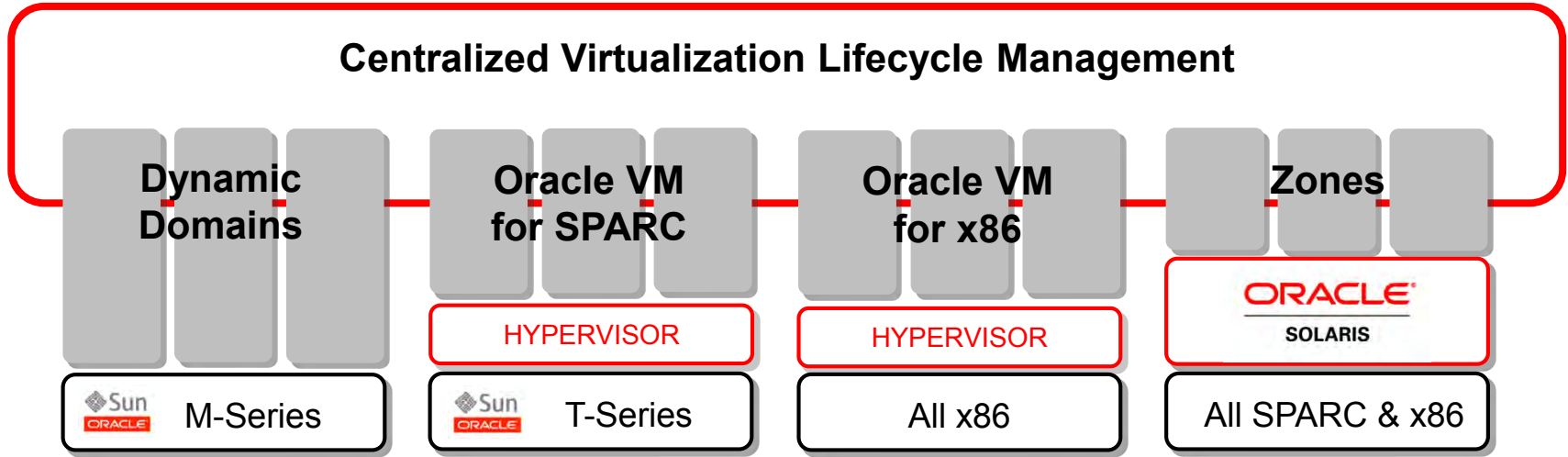
Make many physical resources look like one



for scalability and/or availability

Both server virtualization and clustering are key technologies for cloud

# Server Virtualization Options



Broad choice of server virtualization technologies

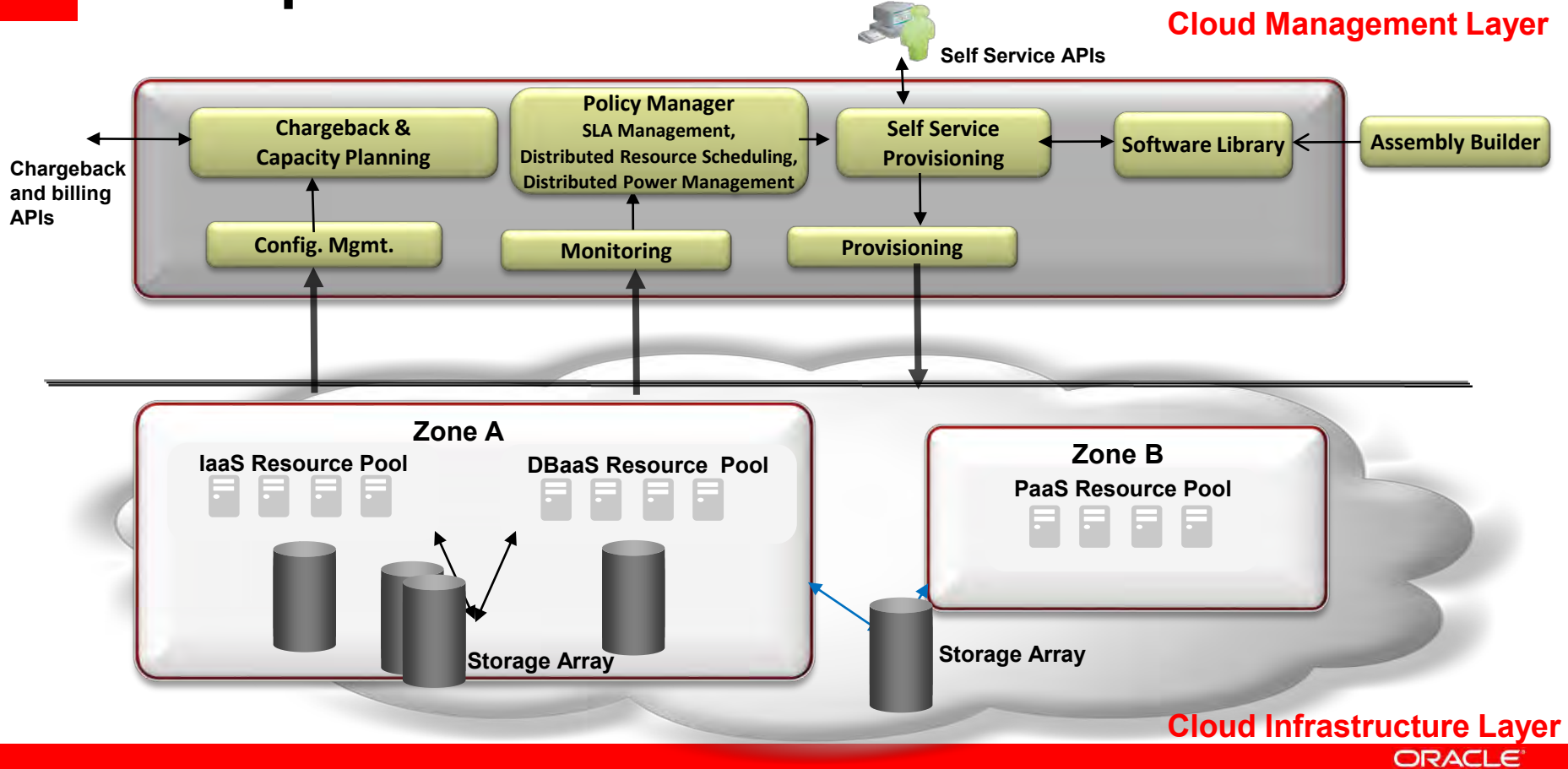
# Clustering Options Throughout Stack



- Oracle Cloud Application Foundation
- Oracle WebLogic Server
- Oracle Coherence In-Memory Data Grid
- Oracle Exalogic Elastic Cloud
  
- Oracle Database Real Application Clusters
- Oracle In-Memory Database Cache (TimesTen)
- Oracle Exadata Database Machine
  
- Oracle Clusterware
- Oracle Solaris Cluster
- Oracle SPARC SuperCluster
- Sun Servers
- Sun Storage

Broad choice of clustering technologies

# Enterprise Cloud Architecture



# New Administrator Roles in Clouds (IaaS)



## Cloud Administrator

- 1 Provision bare metal hypervisor
- 2 Configure storage arrays and network (VLAN)
- 3 Create server pools
- 4 Define zones based on functional and operational boundaries
- 5 Configure software library



## Self Service Administrator

- 1 Define allowable VM sizes
- 2 Assign quotas to users and roles
- 3 Define access boundaries (map roles to zones)
- 4 Setup chargeback plans
- 5 Make software available for deployment by self-service users

# Oracle Enterprise Manager 12c

## Total Cloud Control

The complete management solution for Oracle-based clouds

- Consolidation Planner
- Cloud Design and Setup
- Self-Service Provisioning
- Elastic Workload Management
- Metering and Chargeback

The logo for Oracle Enterprise Manager 12c. It features the word "ORACLE" in red, uppercase letters with a registered trademark symbol. Below it is a horizontal line, followed by the words "ENTERPRISE MANAGER" in black, uppercase letters. To the right of this text is a large, bold, black "12c" with a superscripted "c".

ORACLE®  
ENTERPRISE MANAGER 12<sup>c</sup>



# Self-Service Provisioning

## Out-of-Box, Self-Service Portal

- Part of the base product, no additional setup required

## Rich service catalog:

- VM Templates, Assemblies
- Database service
- Java applications

## Full Operational Control

- Start/stop services, request additional resources, backup/restore
- Basic resource monitoring
- Chargeback information
- Quota monitoring

## Programmatic Access using APIs

- RESTful APIs and CLI (Submitted to DMTF)

# Metering and Chargeback

## App-to-Disk Resource Metering

- VM Guests, Database, Web Logic Server, Host
- Composite Target: aggregation over supported target types
- CPU, Memory, Storage, Network Bandwidth
- Database transactions, SQL Executions, etc.
- Mid Tier resource usage
- Application/Activity metering (planned)

## User Defined Chargeback Plan

- Usage-based items (Resource and Activity)
- Configuration-based items
- Fixed-cost items

# Chargeback Reporting

- Rollup based on LDAP hierarchy
- Generate reports in variety of formats (Excel, Word, PowerPoint, HTML, PDF)
- Accessible from self service portal
- Integrated with BI Publisher
  - Generate and email reports to recipients on defined schedule (e.g. monthly)

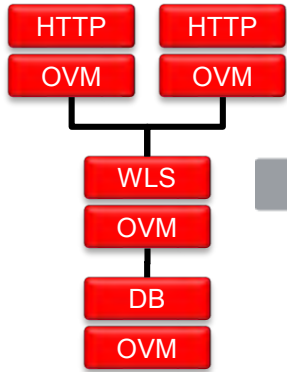
# Monitor and Manage Cloud Operations

- Track resource flux, tenants, policy violations, etc
- Monitor requests and failures
- Manage resource and capacity utilization
- Automatic, policy driven elasticity

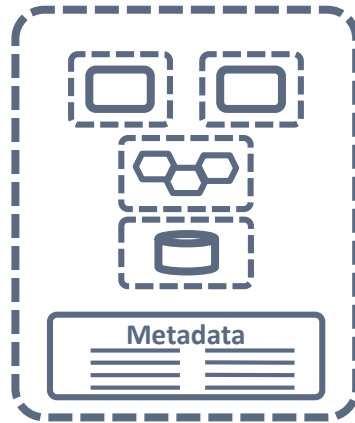
# Package Multi-tier Enterprise Applications

## Oracle Virtual Assembly Builder

Capture Complete Application Topology



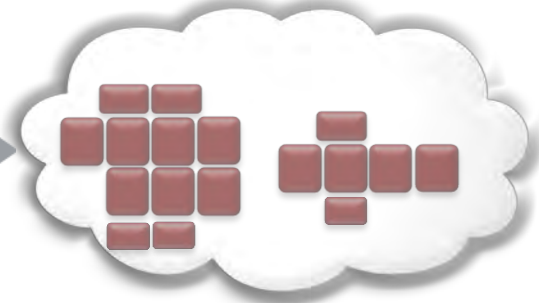
Package Into Single Assembly



Upload to Software Library



Deploy Self-Service

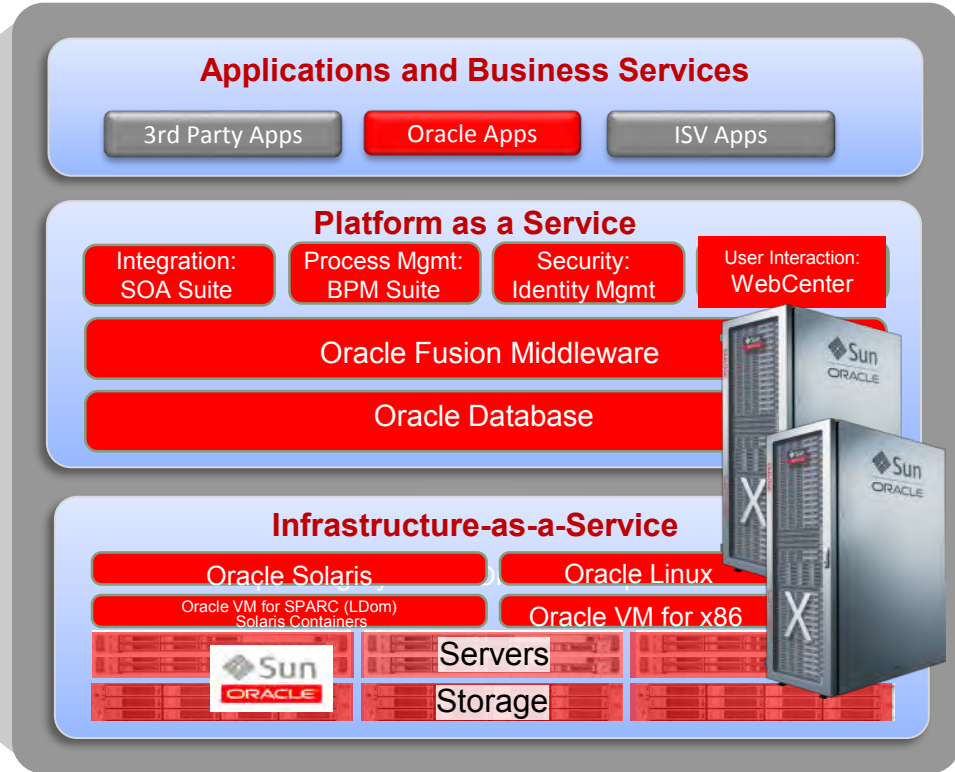
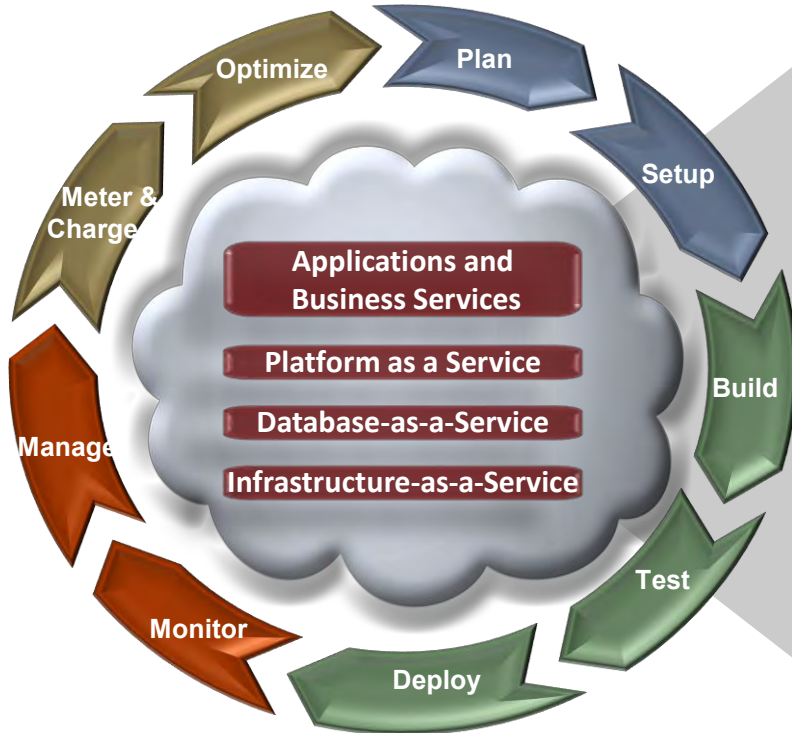


**ORACLE**  
VM

ORACLE

# Oracle Platform for Private Clouds

## Oracle Enterprise Manager 12c



ORACLE

Oracle Cloud Computing

Solid foundation.  
Elastic cloud.

# Oracle Public Cloud

# Oracle Cloud SaaS

## Customer Relationship Management





# Oracle Cloud SaaS

## Human Resources



# Oracle Cloud SaaS

## Oracle Social Network



### Social Network

Enterprise Social Graph  
Facebook  
LinkedIn  
Expertise Identification

### Document Sharing

Workspaces  
Sharing  
Co-Editing  
Tags, Topics, Search

Oracle  
Social  
Network

### Feeds

Activity Streams  
Application Feeds  
Recommendations  
Conversations

### Real-Time Communications

Discussion Forums  
Presence & Chat  
Conferencing  
Mobile Social

# Application Services: 100+ Cloud Applications

Complete Suite, Best-of-Breed, Enterprise Grade

**Human Capital  
Management**

**Talent Management**

**Sales & Marketing**

**Customer  
Experience**

**Financial  
Management**

**Procurement,  
Sourcing, Inventory**

**Project Management**

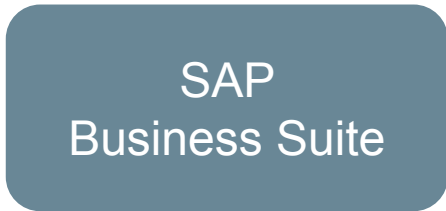
**Governance, Risk,  
Compliance**

**Common Infrastructure Services**

# Runs In The Cloud And On Premise



Cloud **Only** Silos



On Premise **Only** Suite



Complete Suite  
In Cloud **AND** On Premise

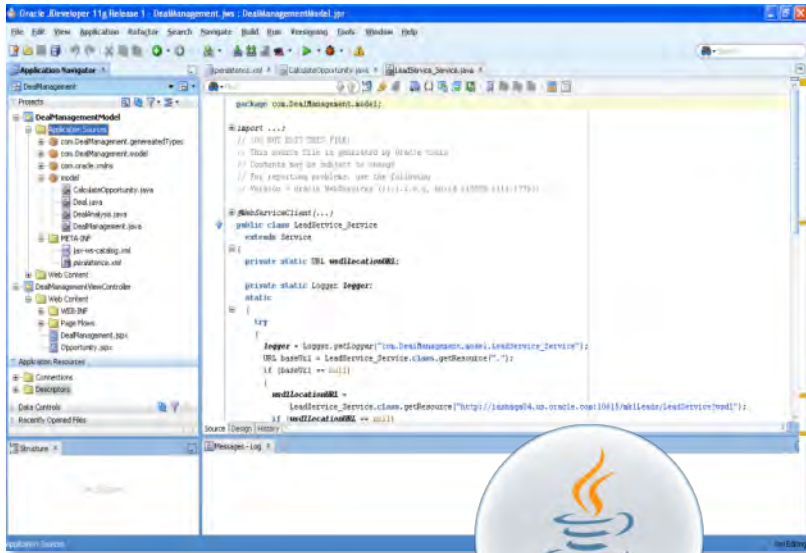
# Oracle Cloud PaaS Database Service



- Runs Oracle Database on the cloud
- Runs any Oracle DBMS Application
  - SQL & PL/SQL
  - Java & REST APIs
- Web-based application development
  - Oracle Application Express (APEX)
- Seamless: from cloud to on-premise
- Secure: data, schema, & table-space isolation

# Oracle Cloud PaaS

## Java Cloud Service



- Runs any Java application in the cloud
- Complete Java EE Support
- SOAP & RESTful Web Services
- Eclipse, NetBeans, & JDeveloper Tools
- Auto-generate Database Schemas
- Secure: application and data isolation
  - dedicated virtual machines

# Platform Services

## Develop



- Enable development teams
- Lifecycle management

## Web



- Script in popular languages
- Fast, secure, reliable

## Mobile



- Native or HTML5 applications
- Cross-platform and device

# Platform Services

## Documents



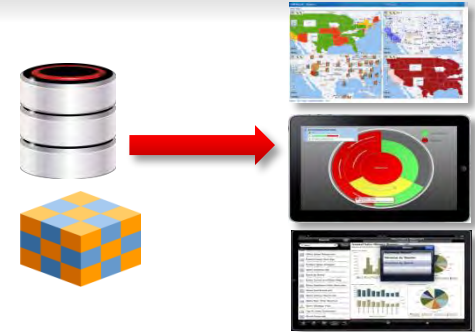
- Team collaboration
- Document workspaces
- File & device synchronization

## Sites



- Build rich media sites
- Visual drag & drop design
- Self-service publishing

## Analytics



- Load data and model KPIs
- Build reports and dashboards
- Publish to Web, mobile



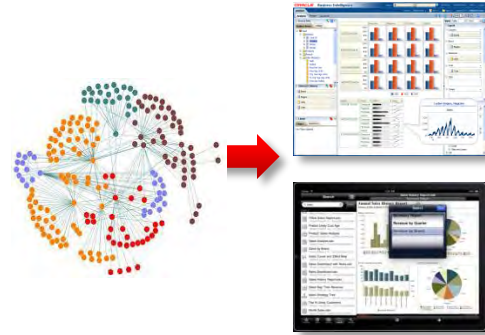
# Social Services

## Social Marketing & Engagement



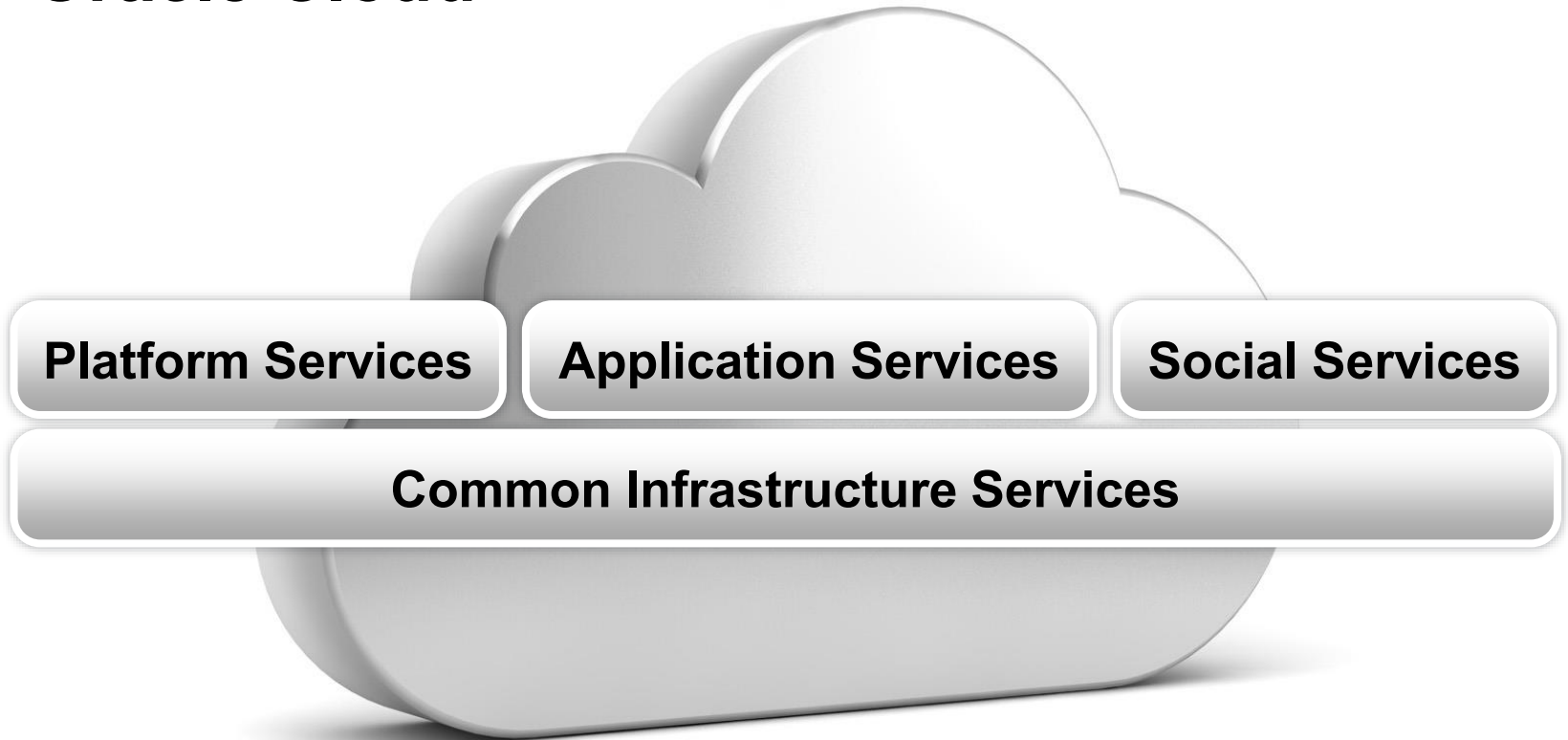
- **Social Relationship Marketing**
- **Build brands on social**
- **Market, engage, transact socially**

## Social Intelligence



- **Social media monitoring**
- **Collect and analyze social streams**
- **Respond and service**

# Oracle Cloud



# Oracle Cloud

## Extremely Easy-to-Use

1. Pick Service



2. Select Plan



3. Configure Service

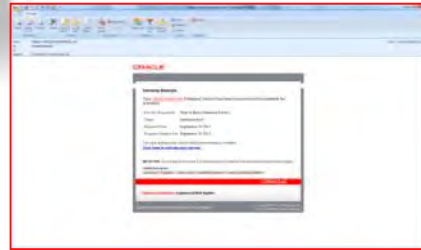


[cloud.oracle.com](http://cloud.oracle.com)

6. Use and Manage



5. Get Credentials



4. Submit Request



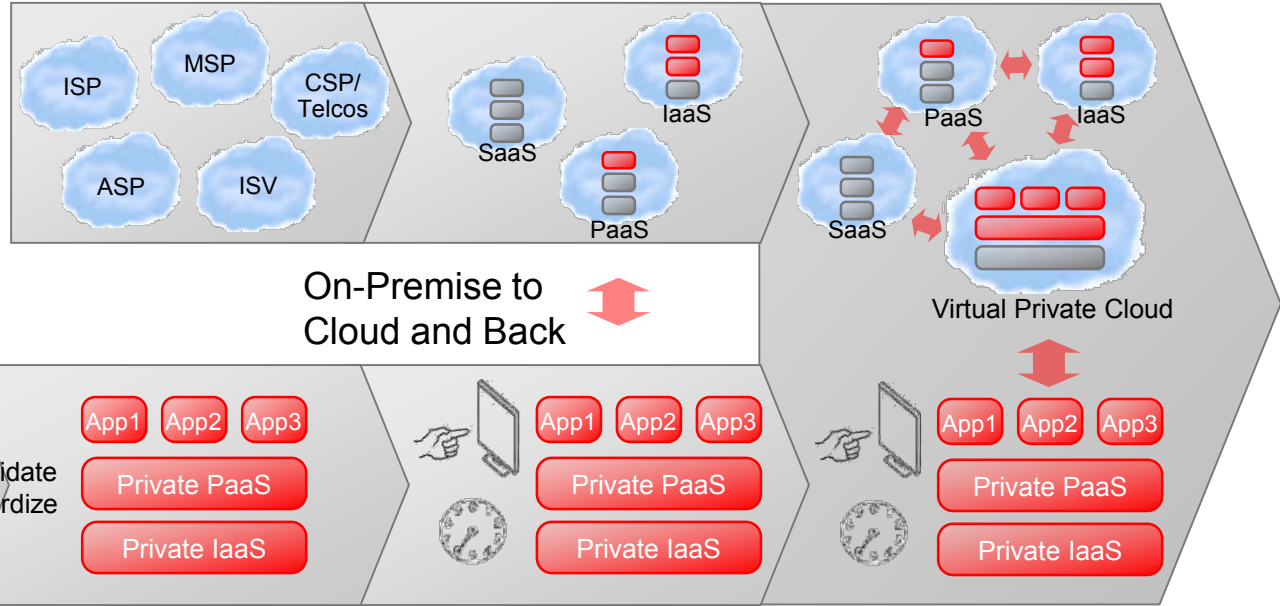
# Evolution of Private and Public Clouds

## Public Cloud Evolution

### Service Providers

### Public Clouds

### Hybrid



## Private Cloud Evolution

On-Premise to Cloud and Back

### Silo'd

- Physical
- Dedicated
- Static
- Heterogeneous

### Consolidated

- Virtual
- Shared services
- Dynamic
- Standardized appliances

### Private Cloud

- Self-service
- Policy-based resource mgmt.
- Chargeback
- Capacity planning

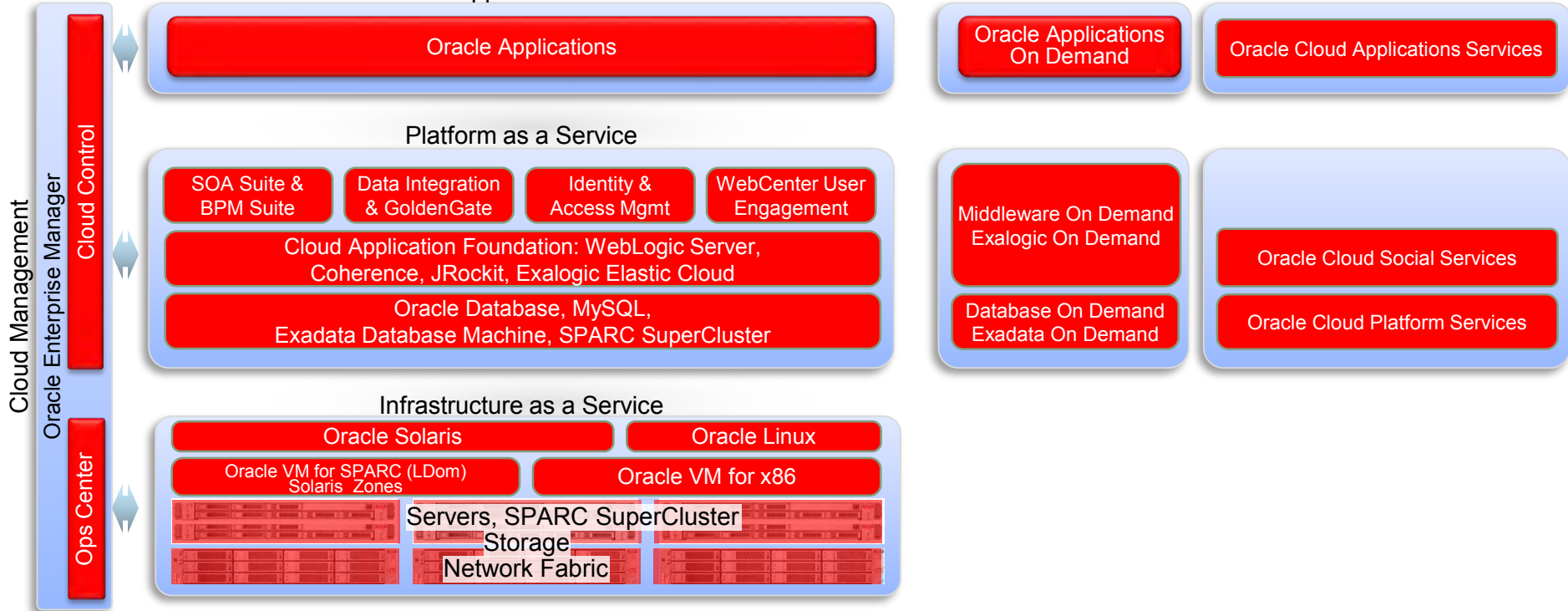
### Hybrid

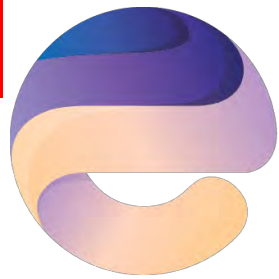
- Federation with public clouds
- Interoperability
- Cloud bursting

# Oracle Cloud Offerings – Complete Choice

## Private Cloud Products

## Private & Public Cloud Services





# elogics

Systems

The technology solutions architects



Cloud Excellence Implementer

We are directly connected with Oracle world wide expertise on cloud. We have recently completed successful cloud implementation of DR and ERP production site setups on latest Oracle Cloud (OCI). We can provide you excellent solution.

Please feel free to send us an email on [sales@elogicssystems.com](mailto:sales@elogicssystems.com) to set an appointment with our team to discuss a suitable solution for your organization. Thank you

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