Knowledge Sharing For Oracle Cloud

Documented By APSHVC SRE Team

Keynote Section

Oracle state into 4 kinds of strategy

Complete

Big focus of delivering a complete suite of applications integrated, so customers don't have to integrate lots of separate products

Preserve existing application and Database investment and easily lift and shift what they have to the Cloud

Open

Open source and stand platform

Multiple integrations are also available

Can also make integrations with oracle apps

Security

Protection on every Layer

Strong data encryption method

User control access

redacting data

Choice

Public cloud or private cloud

Scale up and down upon the user usage

migration infrastructure

Utility Computing

The Cloud: A New Era of Utility Computing

All Three Tiers of Computing Delivered as a Service via Global Network

- Applications: Software as a Service – SaaS
- Platform: Database, Middleware, Analytics, Integration… as a Service – PaaS
- Infrastructure: Storage, Compute and Network as a Service – IaaS

Three Tiers of Oracle Cloud Services

Oracle Cloud: Engineering All Three Tiers of Services

Microsoft has three, Amazon has two, Salesforce has two, Workday has one

- SaaS: More Enterprise Applications than any Cloud Services Provider
  - #1 ERP/EPM Suite, CX Suite, HCM Suite, New Supply Chain Manufacturing Suite…
- PaaS: Complete Suite of Industry Standards-Based Platform Services
  - #1 SQL Database, Hadoop, NoSQL, #1 Java Middleware, Node.js, Ruby…
- IaaS: Secure, Reliable, Low Cost, Standards-Based Infrastructure Services
  - OpenStack, Linux OS, Xen VM, Docker

Roles Of the Three Tiers

Service Types: IaaS, PaaS, SaaS

Different Users

IT Professional | Developer | Business End User

Consumer

Service Provider

Customizations | **Application** | **Platform** | **IaaS Cloud**

Customizations | **Application** | **PaaS Cloud**

Customizations | **SaaS Cloud**

Consumer

Service Provider

Key Driver

Consolidation
Cost Savings

App Development
Focus

New Capability
Speed

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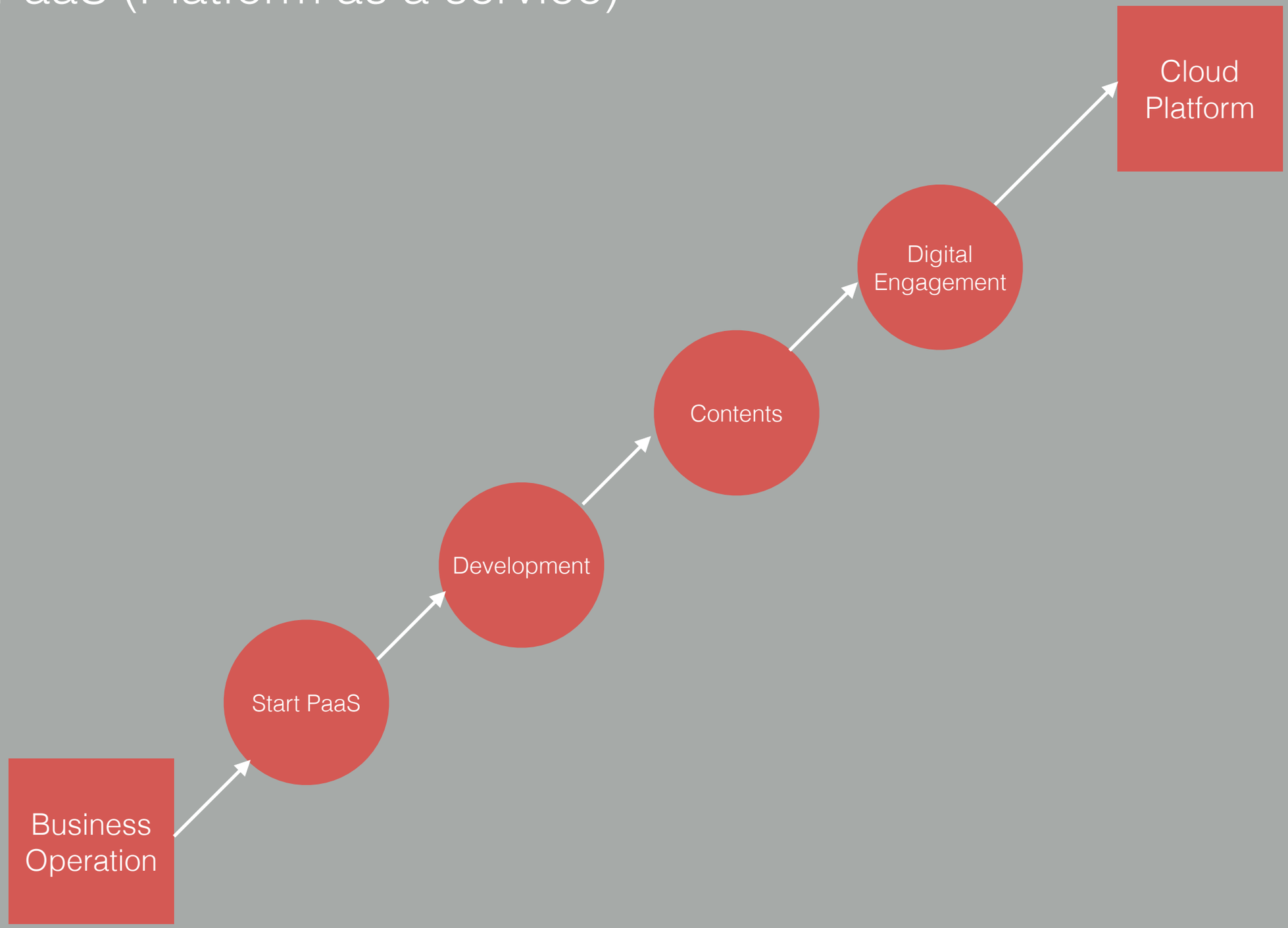
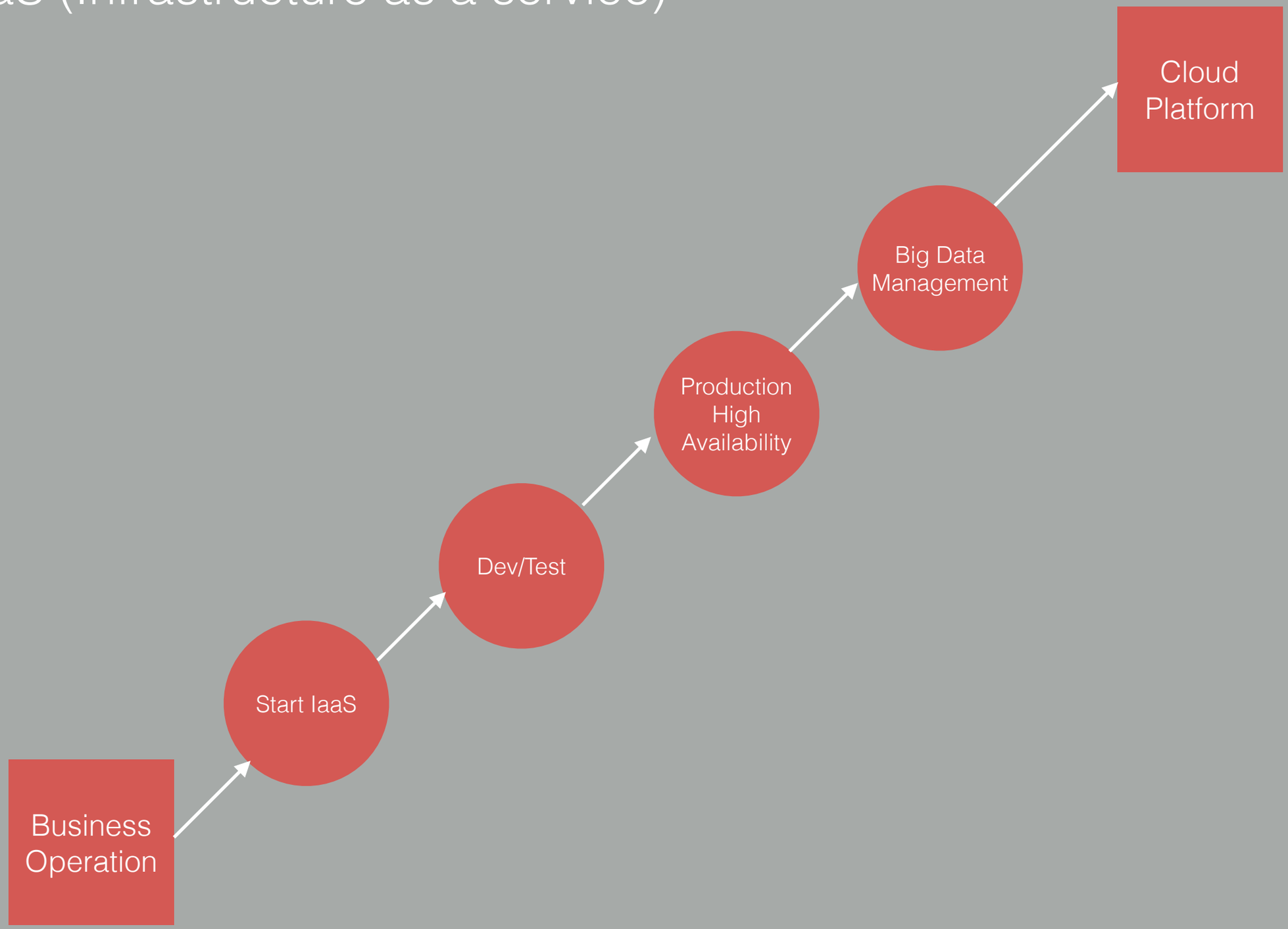
Saas (Software as a service)

PaaS (Platform as a service)



IaaS (Infrastructure as a service)



Supporting In AppDevelopment

- Designed for scale and migration
- Simply cloud migration, customize apps quickly and easily
- Cloud Native Apps for Oracle
- Support any data, any development starting points
- Low Code Platform to easily extend SaaS applications
- Business User Productivity tooling

Pros For using Oracle Cloud

Oracle Cloud: Six Design Goals

Oracle Develops these Feature in all Three Tiers of the Cloud

- Cost: Lowest acquisition price – Lowest total cost of ownership
- Reliability: Fault tolerant – No single point of failure
- Performance: Fastest database, middleware, analytics…
- Standards: SQL, Hadoop, NoSQL…Java, Ruby, Node.js…Linux, Docker
- Compatibility: Easily move workloads between on-premise and Cloud
- Security: Always-on continuous defense against cyber attacks

Agility and Elastic Scaling

Oracle's Platform & Infrastructure Services

Empower Developers, IT Operations And Line of Business

Developers
Agility & Quality

Latest Technology
Instant Access
Better Code
Frequent Releases
Build Once Deploy Anywhere

IT Operations
Performance & Costs

Faster Response
Higher QoS
Lower Risk
Lower Costs
Do More with Less

Line of Business
Innovation & Speed

New Markets
New Products
Richer Insights
Ubiquitous Access
Ease of Use

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IaaS: Elastic Storage

Elastic Storage Service

- Store & Manage Digital Content
- Java & REST API (Openstack SWIFT)
- Access from Cloud and On-Premise
- Performance: Predictable I/O Rates
- High Availability: Triple Mirror Redundant
- Secure and Granular Access Control
- Use Cases: Backup & Archive
- Differentiation: Quality of Service with Exadata

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Scale up and down upon user choice

Data Recovery Appliance

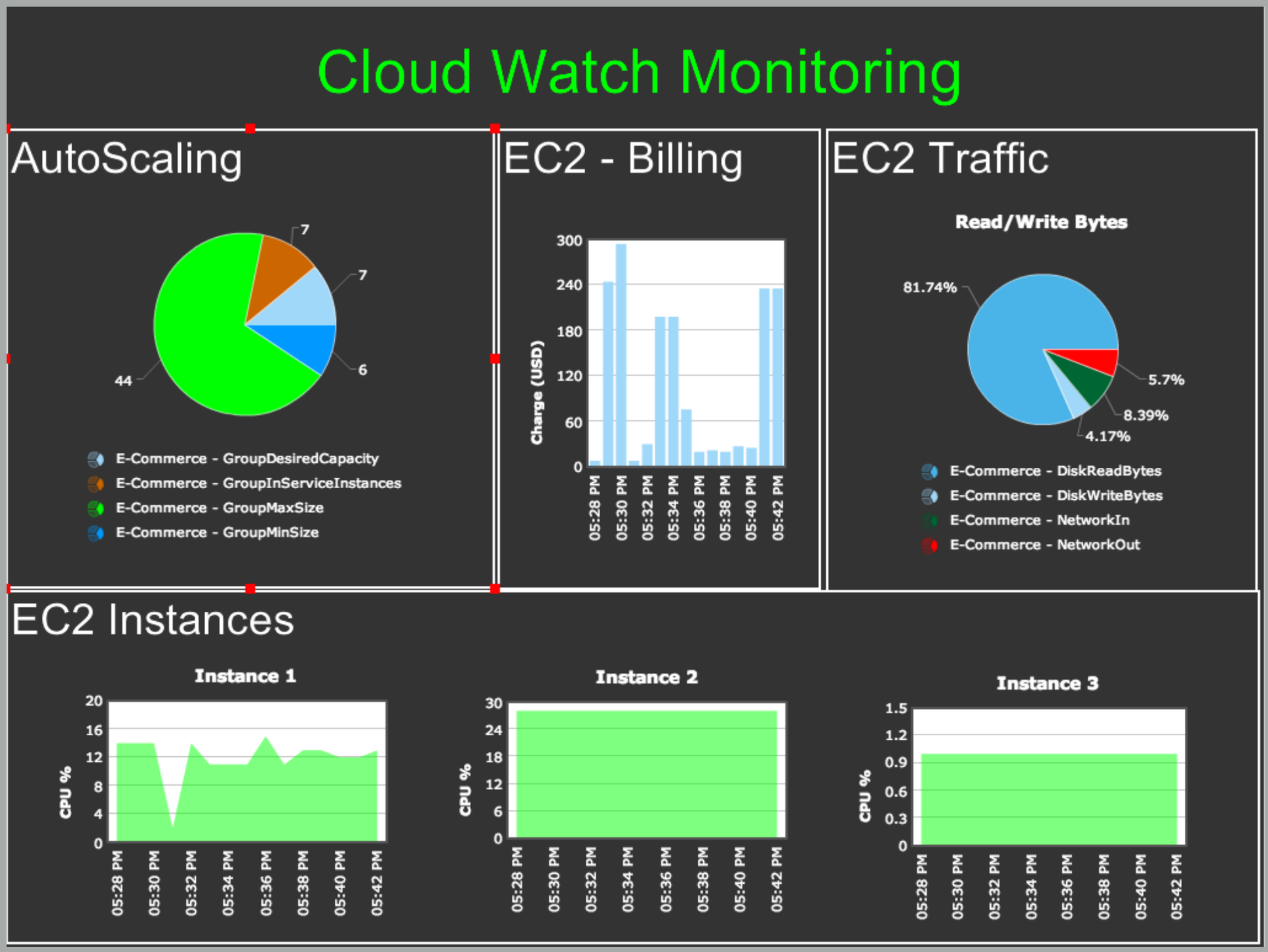
Zero Data Loss Recovery Appliance

Completely Automated Backup & Recovery

- Eliminates data loss
  - Real-time redo transport
- Minimal production impact
  - Sends changes, not full backups
- Changes enable restore to any time
- Starts small, scales-out to petabytes

Single rack is twice as fast as Data Domain's biggest backup appliance.

Cloud Watch


Cloud Watch Monitoring
AutoScaling
7
7
6
44
E-Commerce - GroupDesiredCapacity
E-Commerce - GroupInServiceInstances
E-Commerce - GroupMaxSize
E-Commerce - GroupMinSize
EC2 - Billing
Charge (USD)
300
240
180
120
60
0
05:28 PM
05:30 PM
05:32 PM
05:34 PM
05:36 PM
05:38 PM
05:40 PM
05:42 PM
EC2 Traffic
Read/Write Bytes
81.74%
5.7%
8.39%
4.17%
E-Commerce - DiskReadBytes
E-Commerce - DiskWriteBytes
E-Commerce - NetworkIn
E-Commerce - NetworkOut
EC2 Instances
Instance 1
CPU %
20
16
12
8
4
0
Instance 2
30
24
18
12
6
0
Instance 3
1.5
1.2
0.9
0.6
0.3
0

Summary what Oracle Intends

Oracle Cloud: Complete Suite of Integrated Services

Oracle Cloud: Summary

- **Complete** – broad suite of technology & business applications
- **Open** – based on standards with no “lock-in”
- **Integrated** – designed PaaS, SaaS, Social to work together
- **Architecture** – designed like a modern enterprise private cloud
- **Benefits** – greater speed, lower cost, lower risk

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THANK YOU!!

YOUR TIME IS VALUABLE AND I THANK YOU FOR SHARING SOME WITH ME!