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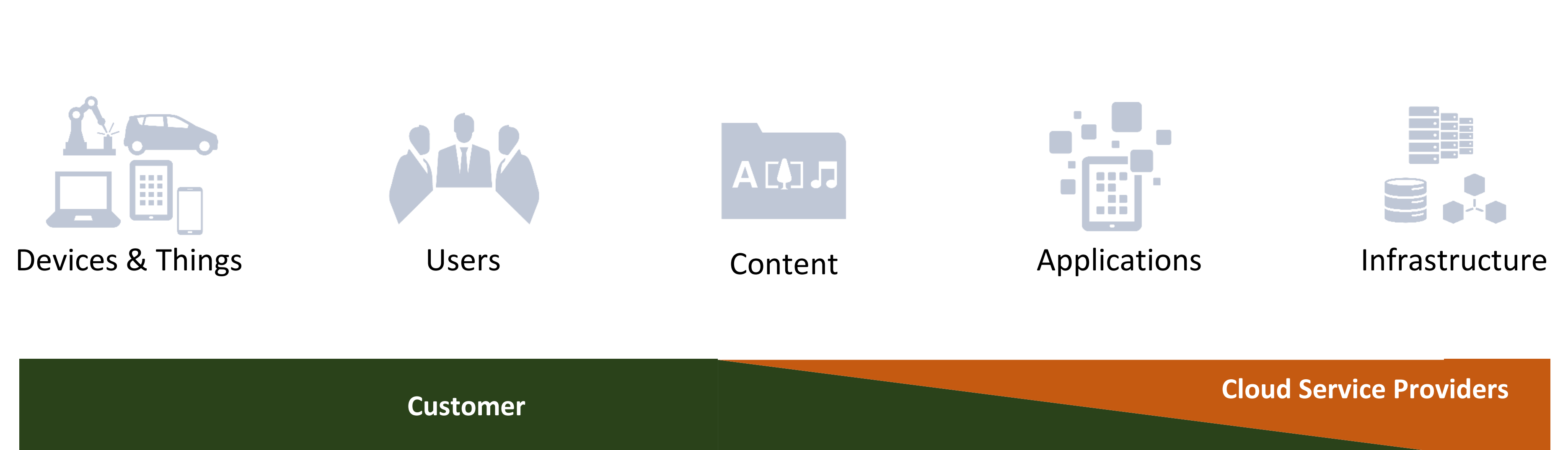
Why customers in the UAE are moving regulated workloads to Oracle Cloud

Maged Hanna


MEA Strategic Engagements and Functional
Leader



Shared Responsibility for Security



90% of CISOs are confused about their role in securing a SaaS environment versus the cloud service providers
Oracle and KPMG Cloud Threat Report 2020



“Through 2025, **99%** of cloud security failures will be the customer’s fault.”

Gartner, October 2019

Source: Smarter With Gartner, Is the Cloud Secure?, October 2019,
<https://www.gartner.com/smarterwithgartner/is-the-cloud-secure>

Current state of the art in cloud security



A lot of security tools



No real instructions



**Customers have to put them
together themselves**

What if there is a
different way?

A different take on Cloud Security

- Security is always enforced - cannot be disabled
- Not always feasible for 100% of your application



Extremely Secure Location

- Automatic problem identification
- Optional Automatic remediation



Secure Location
Continuously Monitored

A different take on Cloud Security

- Security is always enforced - cannot be disabled
- Not always feasible for 100% of your application

Extremely Secure Location

Autonomous Database

- Automatic problem identification
- Optional Automatic remediation

Secure Location Continuously Monitored

Autonomous Linux

A different take on Cloud Security

- Security is always enforced - cannot be disabled
- Not always feasible for 100% of your application

Extremely Secure Location

Maximum Security Zone

Autonomous Database

- Automatic problem identification
- Optional Automatic remediation

Secure Location Continuously Monitored

Cloud Guard

Autonomous Linux

A different take on Cloud Security

- Security is always enforced - cannot be disabled
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- Automatic problem identification
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Security Advisor

Maximum Security Zone

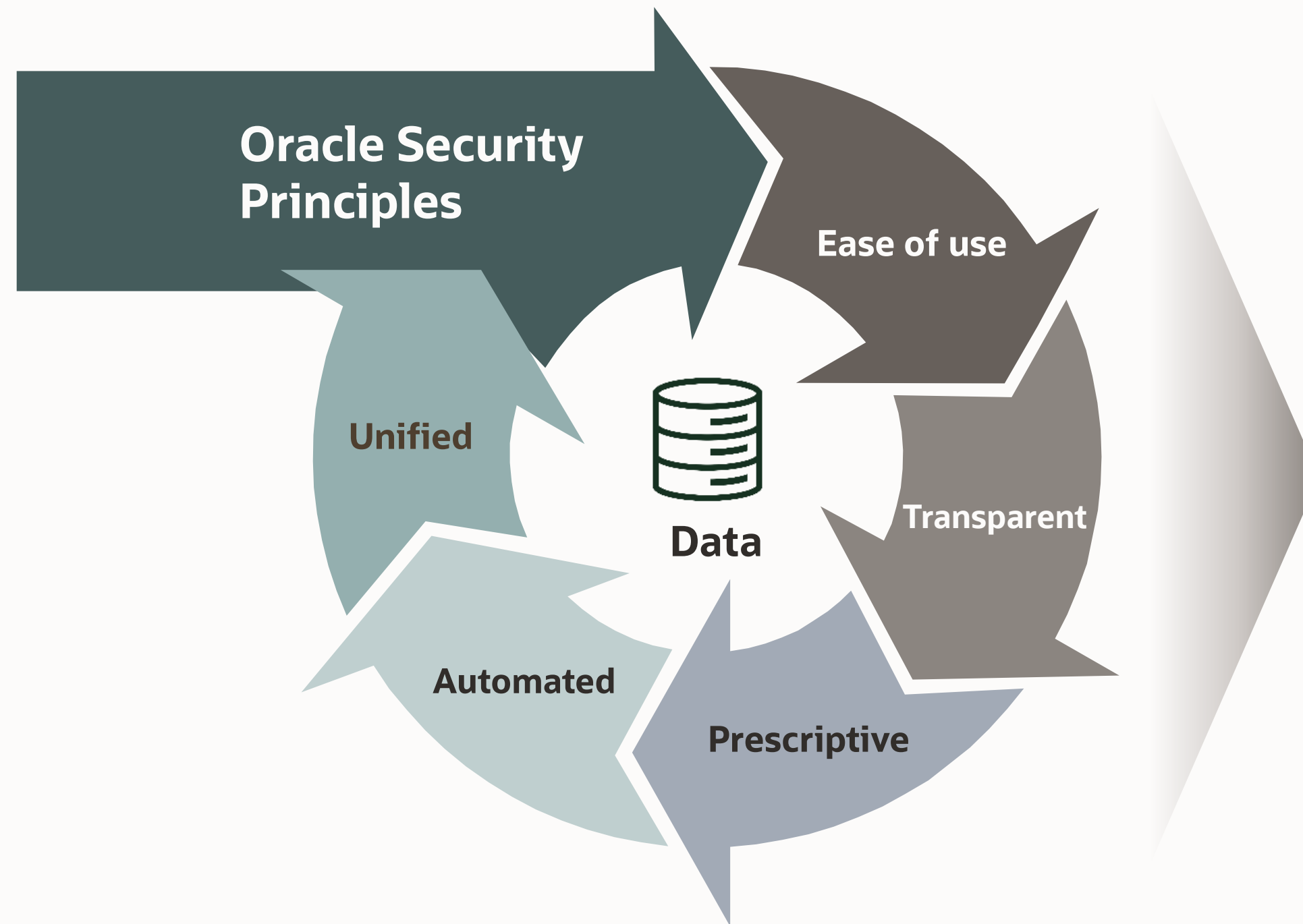
Autonomous Database

Cloud Guard

Autonomous Linux

Oracle's Security Principles

Making security Simple, Prescriptive and Integrated



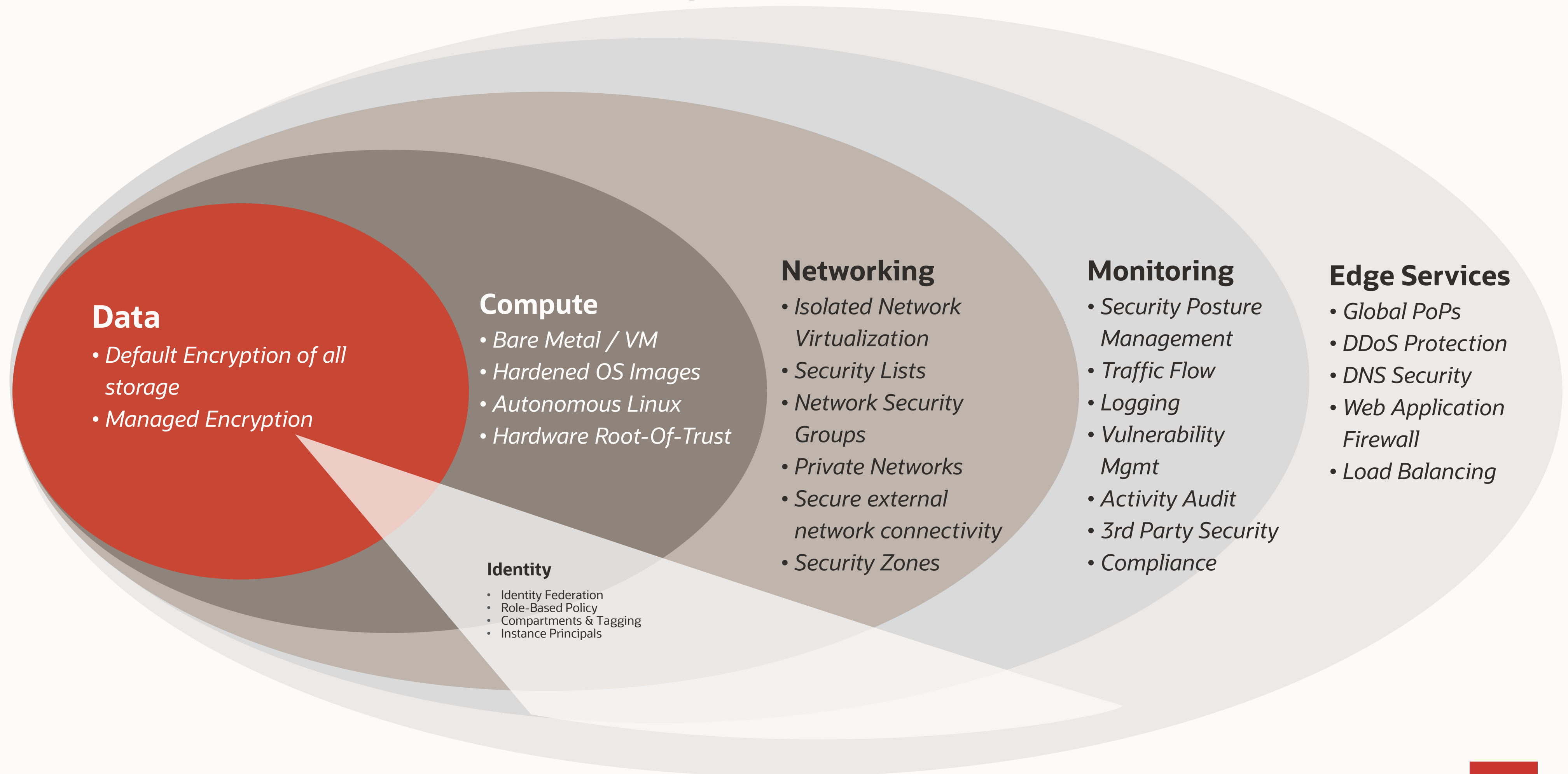
Principles and Customer Benefit:

- Simple: Reduces learning curve
- Transparent: 'Always on' security posture
- Prescriptive: Guardrails minimize errors
- Automated: Reduce workload and human error
- Unified: Full stack view across platform tool

Results:

- Shift the security burden from the Customer
- Eliminate cost versus security trade-offs

OCI Next Gen Architecture Designed from the Ground Up To Be Secure



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Oracle Compliance Programs



OCI Compliance Programs

Expansive list of independent assessments across industries and regions

REGIONAL



GDPR [EU]



PIPEDA [Canada]



ENS [Spain]



BSI C5 [Germany]



K-ISMS [Korea]



NISC [Japan]



CITC [Saudi Arabia]



Cyber Essentials Plus [UK]



Cloud Security Principles [UK]



DUBAI ELECTRONIC SECURITY CENTER



هيئة تنظيم الاتصالات
TELECOMMUNICATIONS REGULATORY AUTHORITY



مركز أبوظبي للأنظمة
الإلكترونية والمعلومات
ABU DHABI SYSTEMS &
INFORMATION CENTRE

GOVERNMENT



DoD DISA SRG IL5



JAB P-ATO



CJIS



EU Model Clauses



LGPD



VPAT-Section 508



Canada Protected B



G-Cloud 12



NIST

INDUSTRY



HIPAA



PCI DSS – Level 1



HITRUST CSF



TISAX



FINMA



BACEN



EBA



GxP



FISC

GLOBAL



SOC 1 : SOC 2 : SOC 3



9001 : 27001 : 27017 :
27018 : 27701: 20000-1



Level 2

<https://www.oracle.com/cloud/cloud-infrastructure-compliance/>



UAE Compliance Programs

Global

Compliance programs Obtained

- SOC/ HIPAA/ C5/ CSA STAR/PCI/
- ISO 20000-1
- ISO 9001
- ISO 27001
- ISO 27017
- ISO 27018
- ISO 27701

Regional

Certification Body	Industry / Gov	Standards /Controls	Outcome	Status
TRA Telecommunications Regulatory Authority	Fed Gov / FSI / Telcos	UAE IAR (Formerly NESAs)	SoA & Audit Report	Obtained
ADISS AD Information Security Standards	AD PS	AD ISR V2	Audit Report	Obtained
DESC Dubai Electronic Cyber Security Center	Dubai PS	ISR V2	Certification	CY2022
UAE Health Data Law	Fed Gov / Health care	The UAE Federal Law No. 2 of 2019	White Paper	White Paper



UAE IAR & ADISS Audit Reports and HDL advisory white Paper

Applicable for UAE 1 & 2 Regions

UAE IAR

Audit Report

Based on UAE Information Assurance Standards v1.0 /
UAE Information Assurance Regulation v1.1

May, 2021, Version 1.0
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ADISS

Audit Report

Based on Abu Dhabi Information Security Standards v2.0

July, 2021, Version 1.0
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HDL

Advisory: Oracle Cloud Services and the United Arab Emirates Health Data Law

Description of Oracle Cloud Services in the
Context of the United Arab Emirates (UAE)
Federal Law No. 2 of 2019 on the use of
Information and Communication Technology
(ICT) in Health Fields

July 2021, Version 1.0
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Public



UAE IAR Audit Report Summary



- **Background:**

- Oracle contracted with an independent certification assessor to assess the Oracle Cloud Infrastructure system and related practices against the Information Assurance Regulation (IAR).
- Cyberstrat IT Consulting, LLC (Cyberstrat) assessed the compliance of Oracle's Information Security Management System (ISMS) with the United Arab Emirates (UAE) compliance framework issued by National Electronic Security Authority (**NESA**) **UAE Information Assurance Standards (IAS) v1.0**, superseded with identical content by the **UAE Information Assurance Regulation (IAR) v1.1** issued by Telecommunications Regulatory Authority (**TRA**)

- **Scope:**

- Scope is OCI (**42** services) and Oracle SaaS (**8** services) offering in the UAE East Region, including Dubai.
- The compliance assessment included all of the UAE IAS v1.0 / UAE IAR v1.1 management and technical domains, controls, and sub-controls.

- **Outcome:**

- All of the **188** controls consisting of **699** sub-controls are applicable to OCI, Oracle SaaS or other Oracle corporate functions. Overall compliance with NESA UAE IAS v1.0 / UAE IAR v1.1 controls is **100%**.

ADISS Audit Report Summary

- **Background:**

- Oracle contracted with an independent certification assessor to assess the Oracle Cloud Infrastructure system and related practices against Abu Dhabi Information Security Standard (ADISS)
- IT Consulting, LLC (Cyberstrat) assessed the compliance of Oracle's Information Security Management System (ISMS) with the United Arab Emirates (UAE) framework **Abu Dhabi Information Security Standards (ADISS) v2.0** issued by Abu Dhabi Systems & Information Center (**ADSIC**)

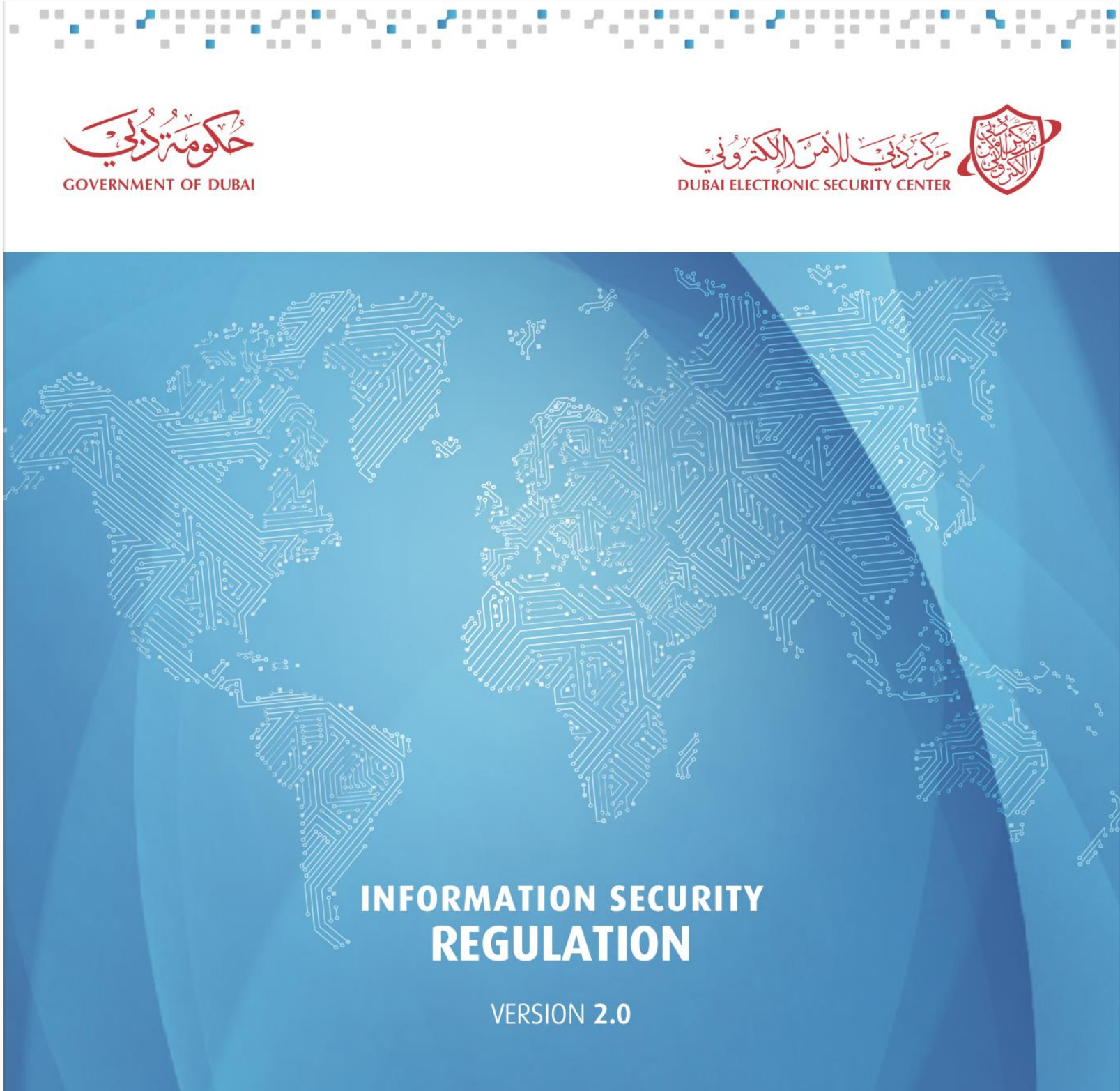
- **Scope:**

- Scope is OCI (**42** services) and Oracle SaaS (**8** services) offering in the UAE East Region, including Dubai.
- The compliance assessment included all of the ADISS v2.0 primary controls, main controls (99) and sub-controls (**1,274**)

- **Outcome:**

- The applicability of the **1,274** sub-controls is as follows: **895** are Mandatory, **256** are Recommended (in scope), **121** are Suggested (in scope), and **2** are Not Applicable (out of scope) for they are Government specific. Overall compliance with all ADISS v2.0 is **100%**.

DESC - WiP
Exemption Request -> ISR@desc.gov.ae



Information Security Regulation

Control Exemption Request Form



Details of exemption request:

Control Reference: (please provide separate page with details for each control exemption request)

ISR Reference / Clause	
Main Control	
Sub Control	
Control Statement	
Provide copies of applicable policies, procedures and Risk Assessment results for the above control	

Business Processes Impacted (for the above Control):

Business process Name	Information Classification	Other process (if any) interfaced with *	Application Systems **
1.			
2.			
3.			



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US Cloud ACT

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What is the CLOUD Act?

CLOUD is an acronym, and stands for **C**larifying **L**awful **O**verseas **U**se of **D**ata Act.

The summary purpose of the CLOUD Act is to enable **law enforcement agencies** to deter and **fight international criminal and terrorist activities**. It does not allow free reign of the US Law enforcement agencies free access to data stored in the cloud.

It is a clarification of existing practices of legal cooperation between countries in place since the 1980s.

Common Questions Answered

1. Does the CLOUD Act **allow unfettered access** to data in Cloud Providers?
 - A. No. It provides a **mechanism** whereby Law enforcement agencies can **request data**, in support of a well defined **legal pursuit**. (Rigorous requirements including the acquisition of a warrant from an independent Judge concluding reasonable grounds to request the information.
2. Does the CLOUD Act impact **only US companies**?
 - A. No. It applies to **all organisations globally** whose services may be used by **US citizens**, whether operating within the US or not.
3. Is the CLOUD Act **limited** to Cloud Providers?
 - A. No. The CLOUD Act applies to **any** organisation storing data on the internet, where US citizens are using that service. This includes, **Email, Telecom companies, Social Media** etc...

Common Questions Answered

4. Does the CLOUD Act take **precedence** over **local** country law?
 - A. No. The CLOUD Act specifically **makes provision for recognising** the right for service providers to **dispute a request** that **conflicts** with local law. The CLOUD Act simply applies clarity for US Law enforcement, concerning the mechanism by which information can be requested from organisations holding data beyond US borders.
5. Will the CLOUD Act compel Oracle to **de-crypt** customer data in response to a lawful request?
 - A. No. Oracle offers encryption capabilities for customer data both at rest and in transit. Customers are able to utilise **FIPS 140-level 3 compliant HSMs** for Encryption Keys and store their keys offline in their premises or using Key Vault. Oracle holds no keys for these encryptions and therefore is not able to de-crypt customer data in response to such a request. Furthermore, Oracle uses security features of its software to ensure the privacy of customer data, such as data vault, to ensure that even administrative staff within the customer organisation are not able to access customer data, without the proper privilege.

Proven hard and soft cost savings in the UAE



- UAE Based travel system serving **26** airlines and **275 million** passengers
- Moved mission critical reservation app to OCI to **scale** on demand
- **12X** performance increase compared to **AWS Aurora** for 1ms response time
- **40%** performance improvement compared to **on-prem** and less costs



- It took under 12 months to move **80%** of business solutions to move to Oracle Cloud
- **20%** In Cost Reduction & Performance Improvements
- Improved Business Processes & Omni-channel experience.

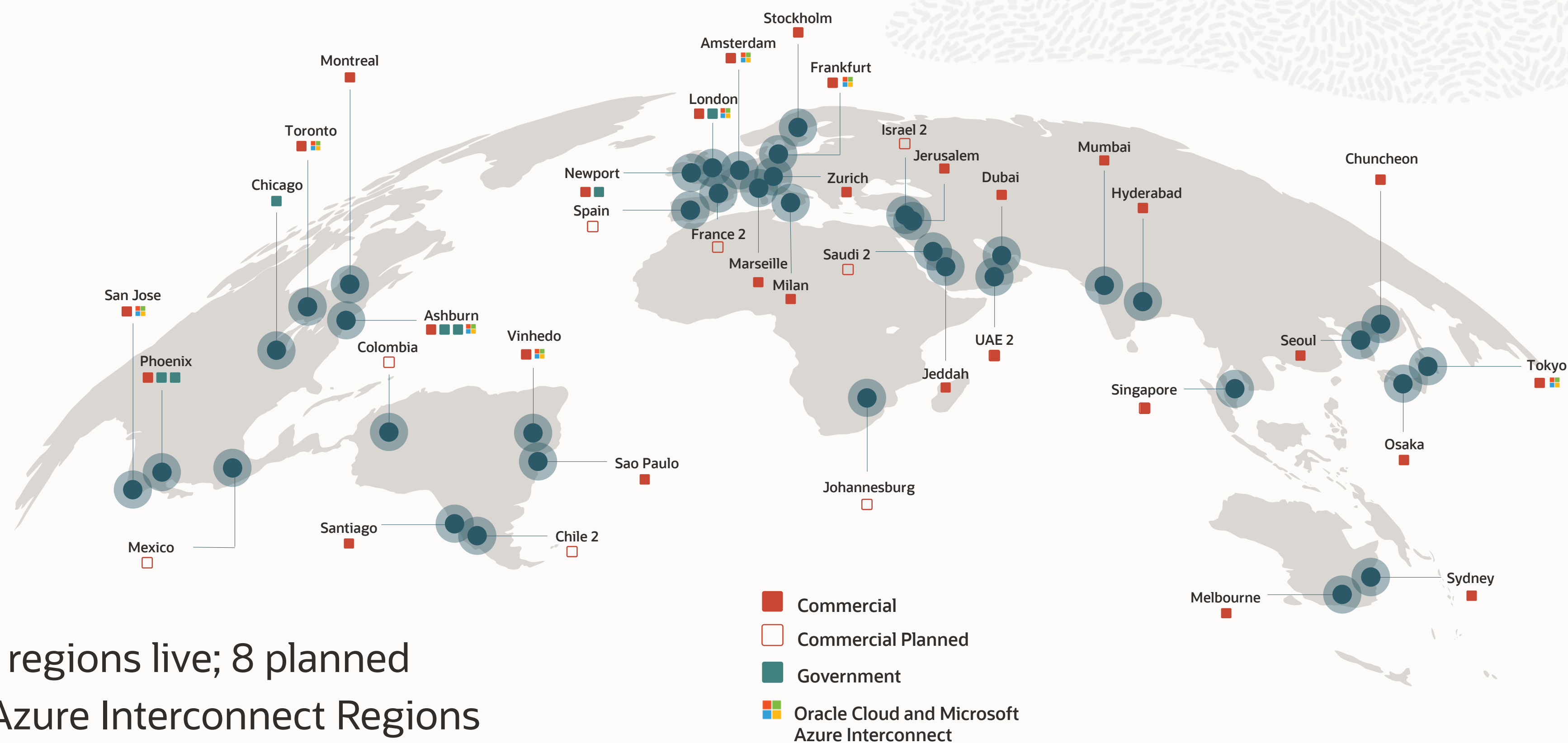


- **30%** Cost savings compared to previous On-Prem Deployment
- **20% to 30%** Cost savings compared to AWS
- Scalability, Reliability, better security Posture and compliance with GDPR
- Migration to OCI is projected to yield a **\$1M** benefit over the next 2 years



- Migrated mission critical **24X7** payment systems and digital wallet on OCI leveraging fast connect and DB systems
- **First Fast Connect** Customer in Jordan
- **Stronger security** Posture
- Better **Performance**
- Better **Business Continuity** Plan

OCI offers cloud regions and multicloud around the world



36 regions live; 8 planned
8 Azure Interconnect Regions



Thank you

