Cybersecurity Solutions and Best Practices to Protect your Organisation

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Oracle Asia Pacific

- 30+ years in Information Technology
- 15+ years of experience in Security
- Manages a team of cybersecurity practitioners across APAC

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“Oracle provides an ideal combination of price, performance, flexibility and security.”

Dara Khosrowshahi

CEO, Uber

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Top enterprise security concerns

33% of organizations worldwide have experienced a ransomware attack or breach

4M global positions that cannot be filled due to the cybersecurity talent shortage

82% of data breaches involved the “human element”

- Security Complexity
- Supply Chain Vulnerabilities
- Hybrid Work Environment
- Fraud
- Compliance Requirements
- Geopolitical Risks
- Disparate SaaS

Sources: IDC 2021 Ransomware Study: Where You Are Matters, (ISC)² Cybersecurity Workforce Study 2021, and Verizon Data Breach Investigations Report 2022

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Oracle Security helps address top security concerns

Guard

against ransomware, attacks, and breaches

Simplify

security across on-premises and cloud

Deliver

managed security to meet compliance requirements

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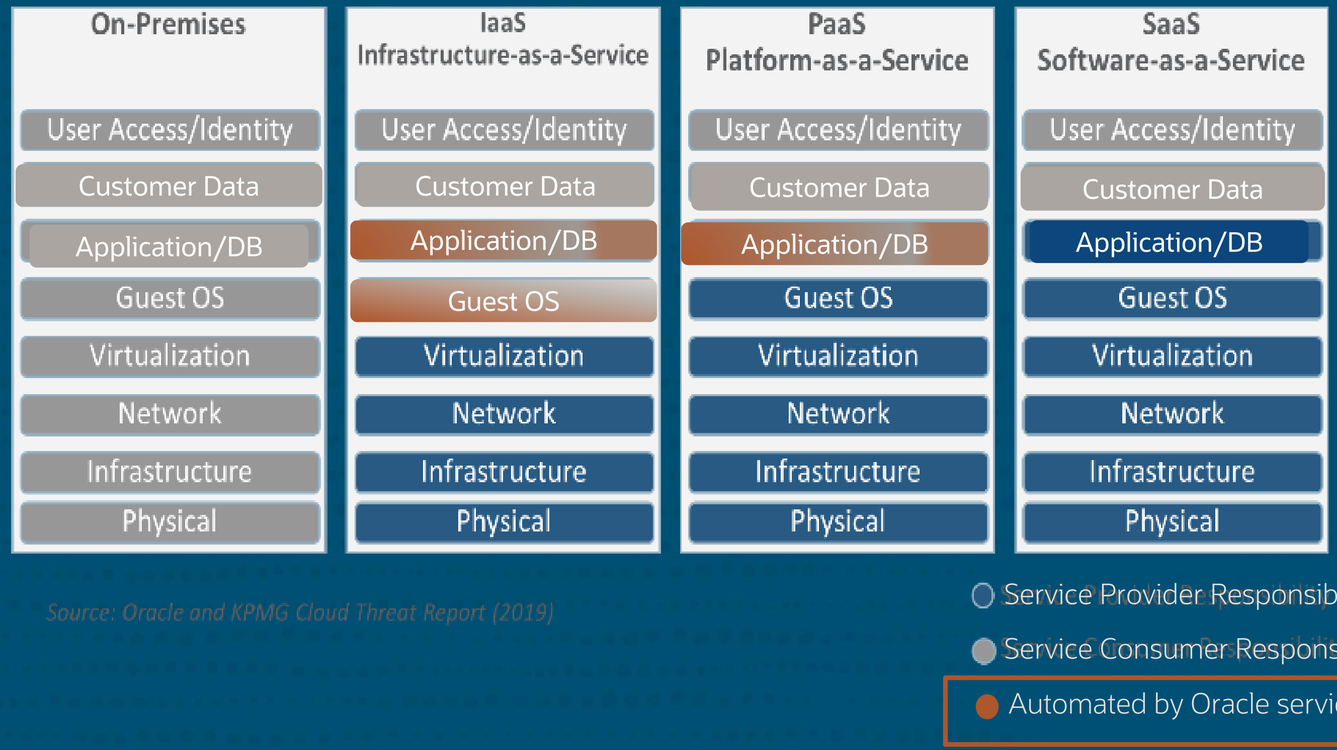
57%

of data breaches are attributed to poor patch management.

Source: Ponemon Institute, Cost and Consequences of Gaps in Vulnerability Response

Shared Security Responsibility Model in Cloud



Source: Oracle and KPMG Cloud Threat Report (2019)

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Oracle offers a full stack of cybersecurity capabilities

Vault
Key Management
Secrets Management
Certificates
Data Safe
Autonomous Database

Signed Firmware
Hardware Root of Trust
Harden Disk Images
Bare Metal Compute
OS Management
Isolated Network Virtualization
Oracle Autonomous Linux

Virtual Cloud Network
Security Lists
Network Firewall
Bastion
DRG
Dynamic Routing Gateway
FastConnect
VPN
NAT Gateway

Access Governance
OCI Identity and Access Management
Policies
Federation

Cloud Guard
Threat Intelligence
Threat Detector
Vulnerability Scanning
Logging
Auditing
Fusion Apps Detector
Security Zones

DDoS Protection
WAF
WAF for Fusion Apps

Oracle Cloud Security differentiators

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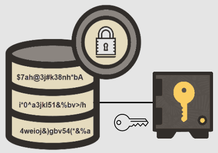
Oracle database security helps guard against attacks

Built-in capabilities and cloud-native services

Attack	Configuration drift	Lateral movement and data access	Data theft	Compromised backups from ransomware	Attack spread
Identity and Access Management (IAM)	**Data Safe / DB SAT**	**Audit Vault Database Firewall (AVDF)**	**Advanced Security and Key Vault**	**Zero Data Loss services**	**Isolated network virtualization**
Seamless identity integration with OCI IAM helps decrease the risk of attacks with multi-factor authentication and role-based access control	Continuously assess your configuration and users with Data Safe and database security assessment tool	Detect suspicious activity with Audit Vault and Database Firewall (AVDF)	Encrypt the data and protect encryption keys with Advanced Security and Key Vault	Recover up to the last valid transaction with immutable backups ZDLRA (Zero Data Loss Recovery Appliance) and ZFS	Separates virtualization layer from the network layer to protect customer instances
					

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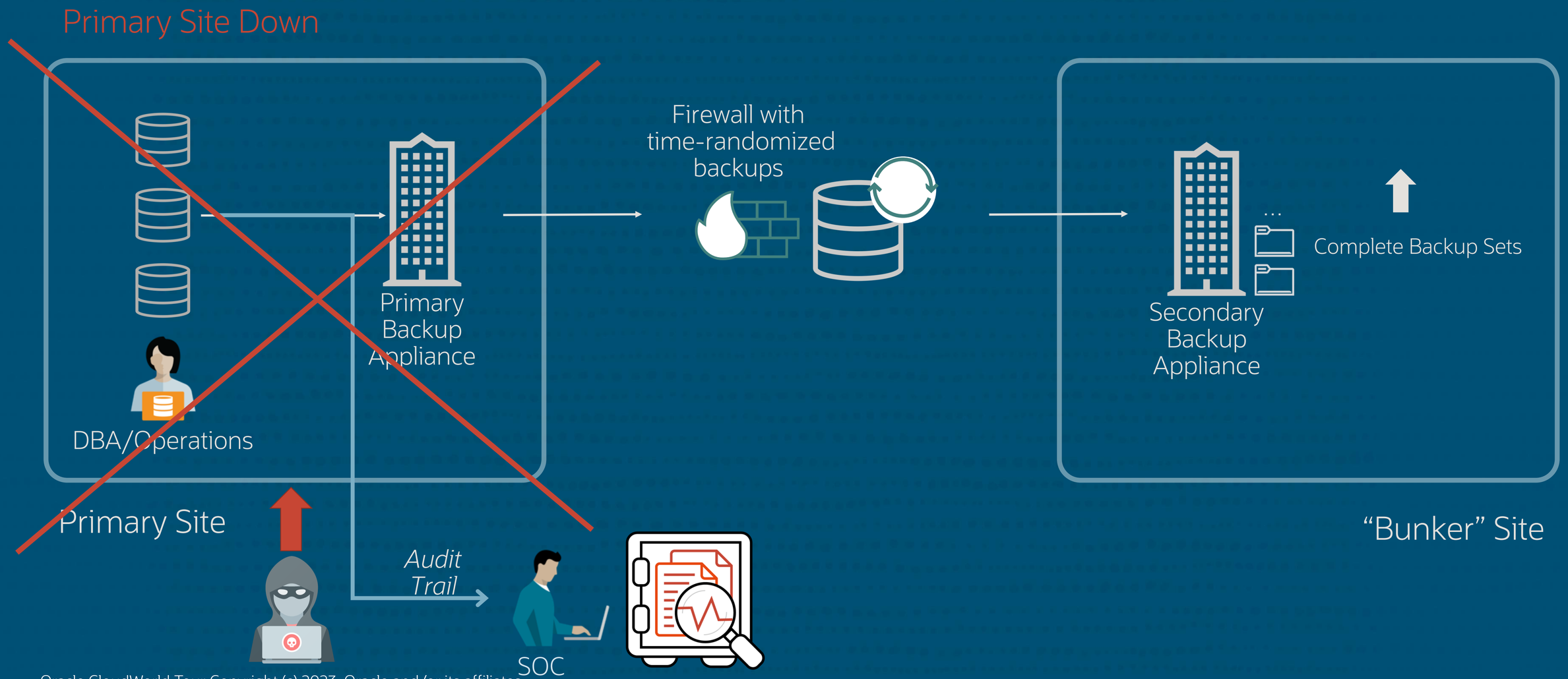
Oracle helps you strengthen your cyber-resilience

Recover completely from the last known trusted state for business continuity



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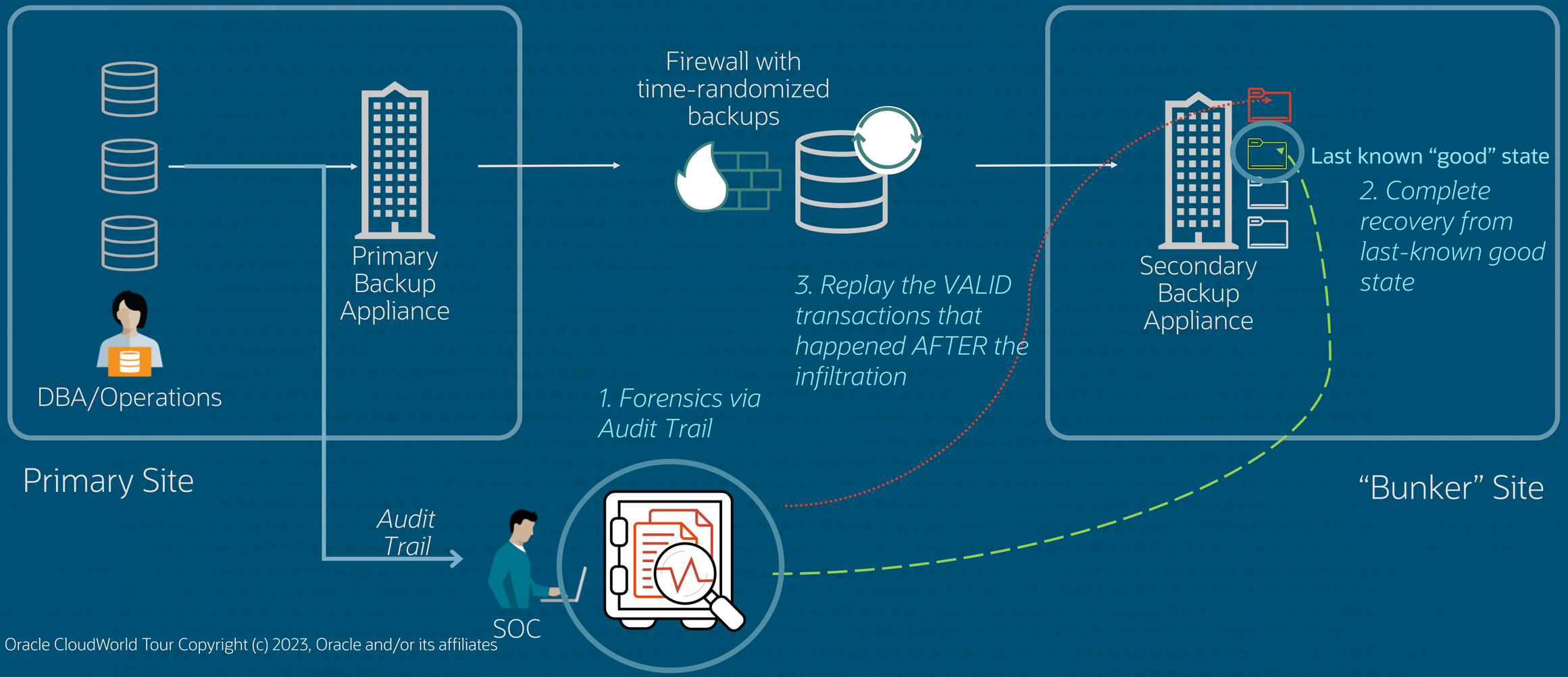
Oracle helps you strengthen your cyber-resilience

Recover completely from the last known trusted state for business continuity

Flashback your enterprise to a point in time that you know is safe



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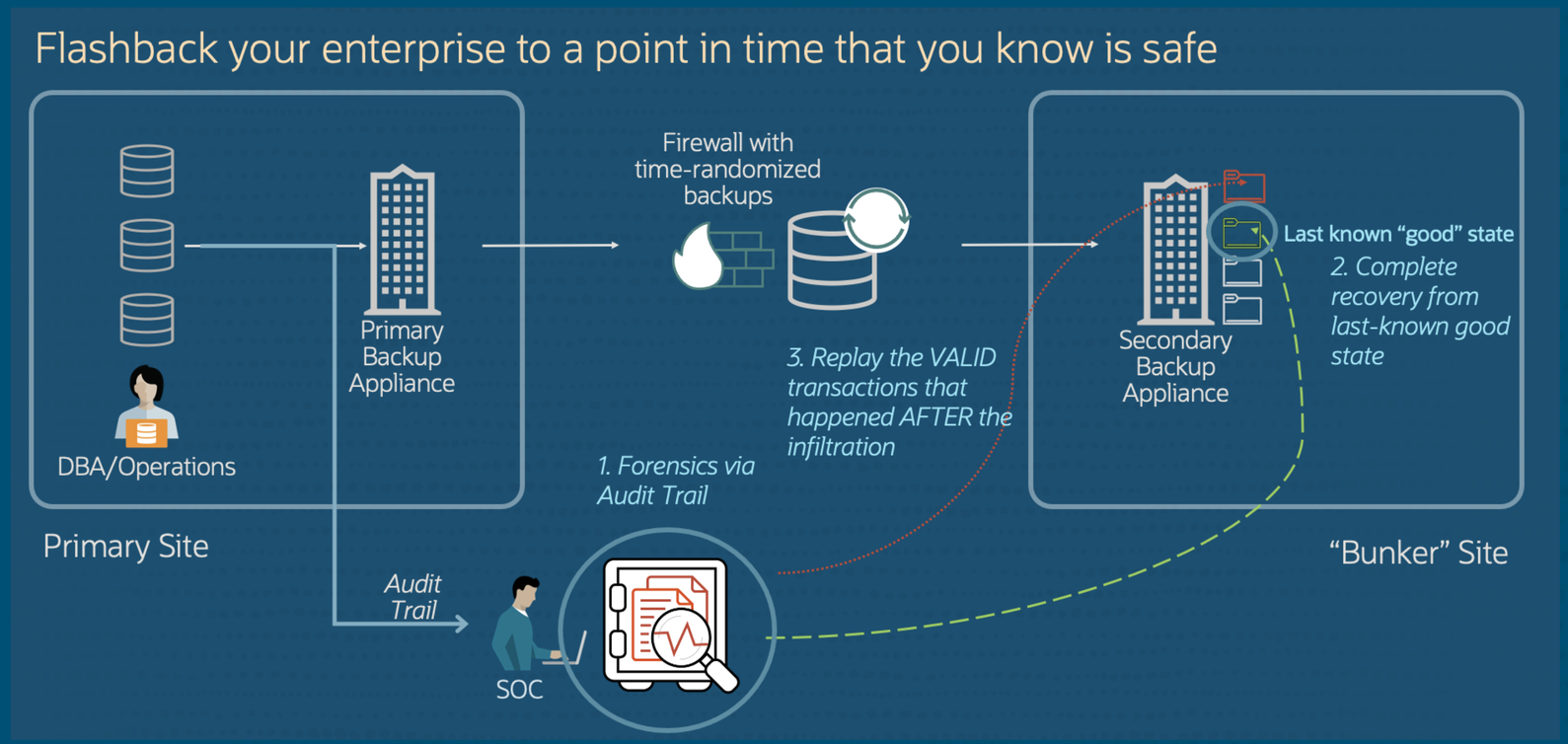

On-Premise

Oracle Cloud

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Simplify security across on-premises and cloud

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It’s complex to ensure security “within and between” different environments

“Our on-premises and cloud deployments have different security settings that do not talk to each other”

“There are very limited cloud-native security services for our cloud deployments, and we use more than one cloud”

“What about private cloud, hybrid cloud, and public cloud? We have all of them. We need security among all of them”

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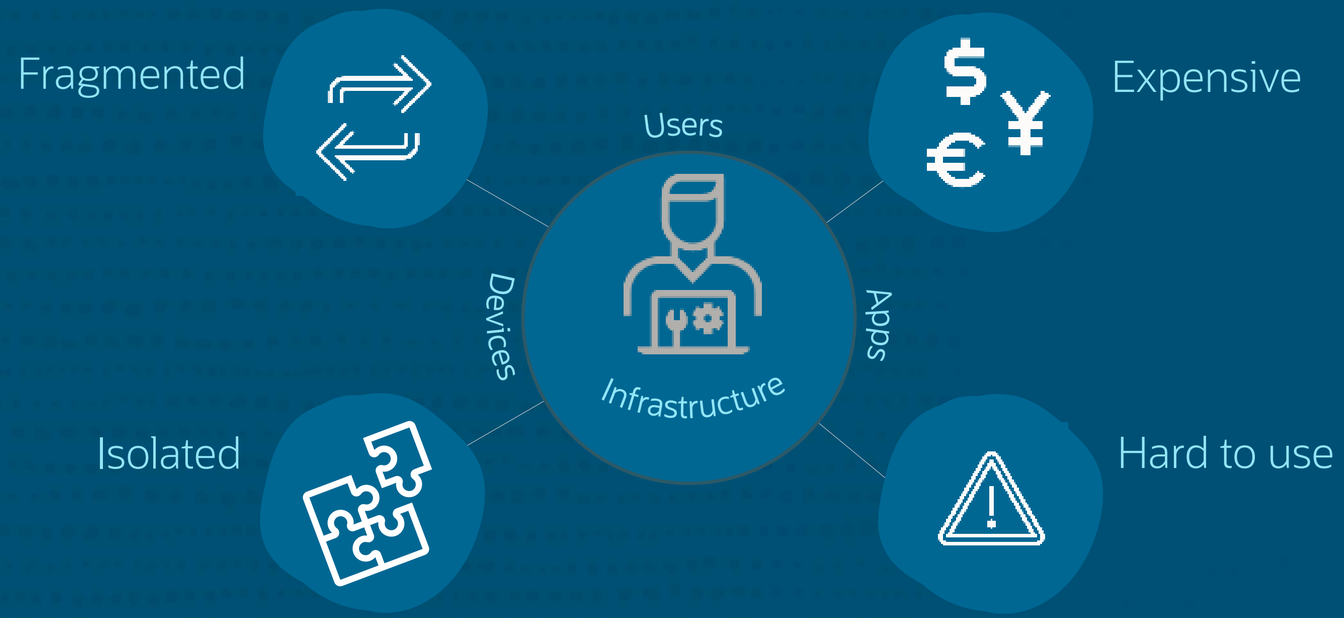
82%

of breaches involved the human element.

Challenges with complex cloud security tools



Source: Verizon's 2022 Data Breaches Investigations Report

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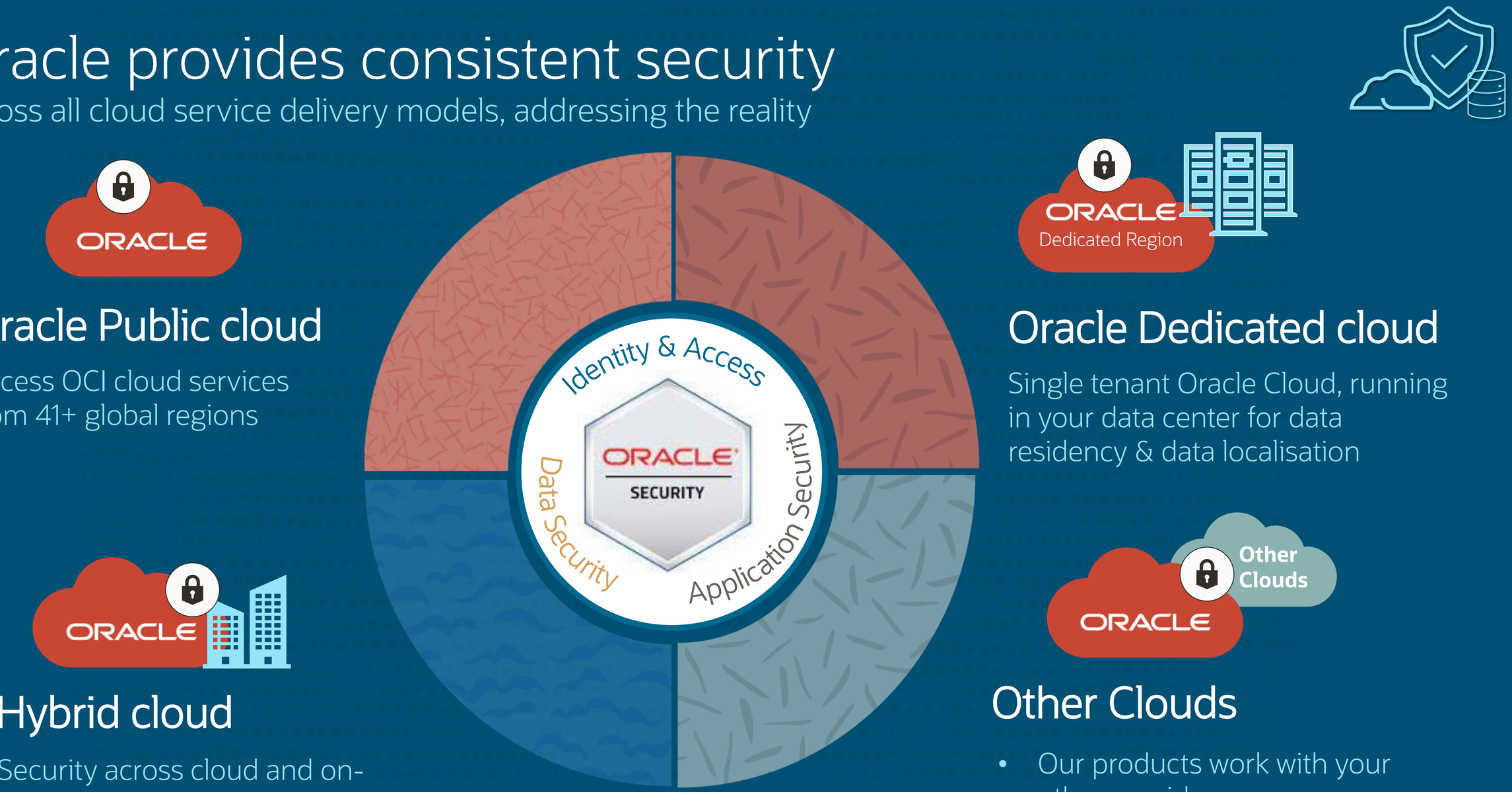
Oracle provides consistent security

Across all cloud service delivery models, addressing the reality



Oracle Public cloud

Access OCI cloud services from 41+ global regions

Oracle Dedicated cloud

Single tenant Oracle Cloud, running in your data center for data residency & data localisation

Hybrid cloud

Security across cloud and on-premises

Other Clouds

- Our products work with your other providers
- 12 Azure interconnect regions

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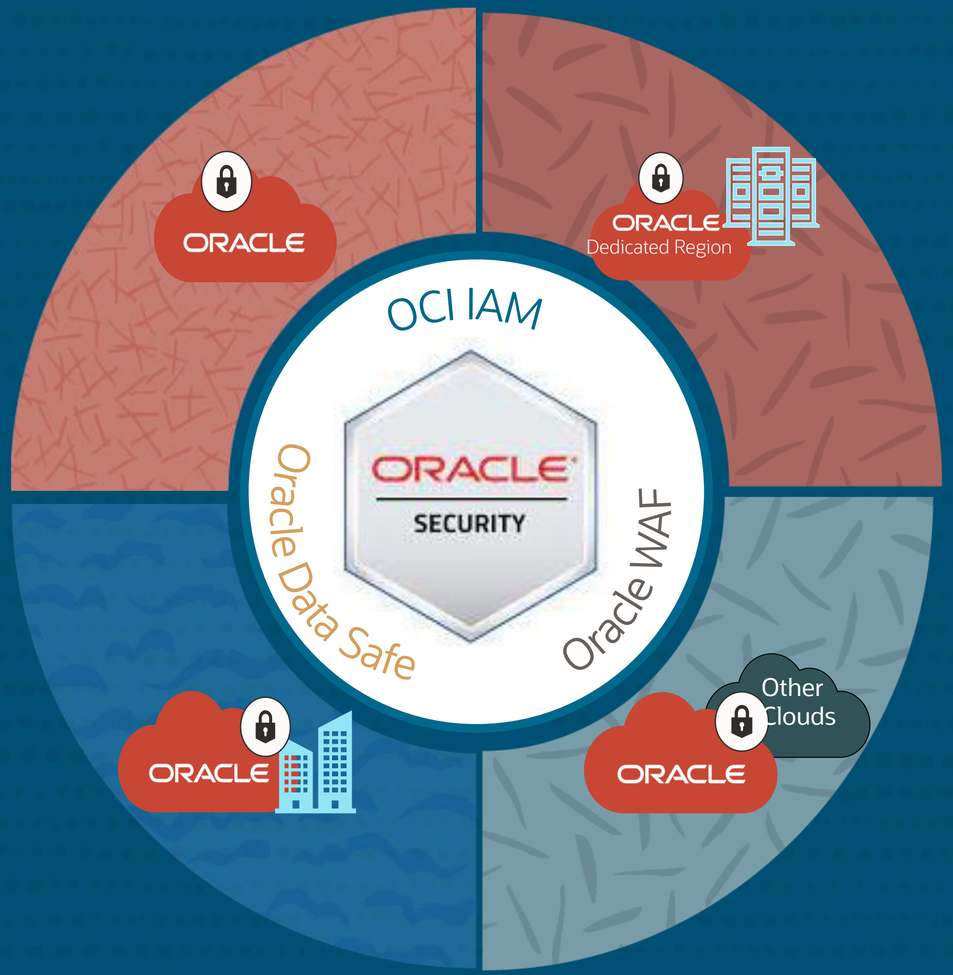
Oracle provides consistent security

Across all cloud service delivery models, addressing the reality

Secure environments with OCI native security capabilities as well as third-party solutions

Protect Oracle Databases everywhere with **Oracle Data Safe**

Protect on-premises & cloud applications with **OCI Web Application Firewall**



Identical security on **OCI & Dedicated Region**

Centralize visibility and control of access across multicloud and on-premises deployments with **OCI IAM & Access Governance**

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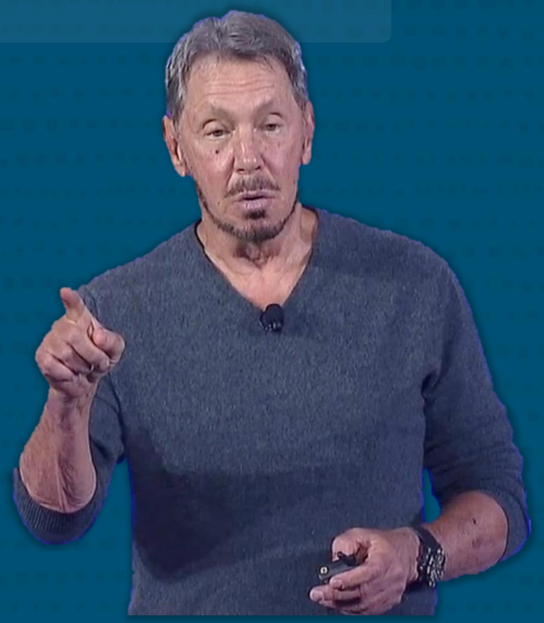
Oracle removes the commercial barriers to security

By providing core security at Zero Cost

> "You should always push your security features as low in the stack as possible **without having to pay extra**"
>
> – Larry Ellison



- ✓ Core Security for EVERY customer at ZERO COST
- ✓ No more Security vs Affordability trade-offs

Simple, Prescriptive & Integrated Security Services

Enterprise class IAM
- FREE — OCI IAM for tenancy administration
- *FREE — OCI IAM Identity Domains
- Access Governance

Data Protection
- FREE — Encryption
- *FREE — Vault
- *FREE — Data Safe
- FREE — Certificates

Posture Management
- FREE — Cloud Guard (including Threat Detector)
- FREE — Security Zones
- FREE — Vulnerability Scanning
- FREE — Security Advisor
- FREE — Threat Intelligence

OS & Workloads Protection
- Dedicated Host
- FREE — Bastions
- FREE — OS Management
- FREE — Shielded Instances
- FREE — Confidential Computing

Network Protection
- FREE — DDoS Protection
- WAF
- FREE — Security Lists & Groups
- Network Firewall

FREE Core Security

*FREE Supplementary Security – Free for many use cases

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Deliver managed security to meet compliance requirements

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Regulatory compliance is evolving faster than ever

“On-going changes to compliance and regulatory requirements, such as U.S. Federal strategy to move to a Zero Trust Architecture by 2024, are very complex”

“We need to quickly adhere to security requirements to ensure we remain compliant at all times”

“Meeting local data protection laws, including sovereignty requirements, for managing sensitive data”

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OCI Compliance

Oracle capabilities help address core compliance needs at all levels

Your compliance obligations

Security Services

Data Safe

Logging

OCI IAM

Cloud Guard

Vulnerability Scanning

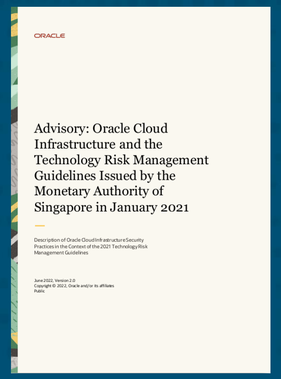
Access Governance

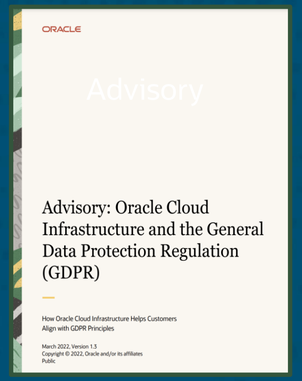
. . . and many more

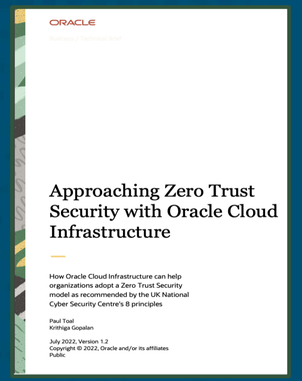
MAS TRM Guidelines [Singapore]

OCI & GDPR

ZERO-TRUST SECURITY with OCI







ISO, PCI, SOC compliant deployment solutions

Oracle's compliance obligations

OCI manages 70+ compliance programs across regions and industries

REGIONAL

- GDPR [EU]
- PIPEDA [Canada]
- ENS [Spain]
- BSI C5 [Germany]
- ISMS [Korea]
- NISC [Japan]
- CITC [Saudi Arabia]
- Cyber Essentials Plus [UK]
- IRAP [Australia]

GOVERNMENT

- DoD DISA SRG IL5
- JAB P-ATO
- CJIS
- EU Model Clauses
- LGPD
- VPAT-Section 508
- Canada Protected B
- G-Cloud 12
- NIST
- MeitY [India]

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

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Customers in the Region

WPS
Widya Presisi Solusi

"We chose Oracle Cloud because we wanted to have the peace of mind that our clients' data is protected at all times."

Sutjipto Budiman
Director, Widya Presisi Solusi.

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MINOR HOTELS

"Bringing our mission-critical financial processes onto Oracle Cloud Infrastructure has provided great benefits……Data is the core of our business, and we are confident in entrusting our data security to Oracle."

Rawat Leepaisomboon
Group Director, Information Technology Core Systems, Minor Hotels

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aiden creative

"Oracle Cloud Infrastructure handles security well. When we implemented it, we were confident of it. From the server level, I don't have to worry about setting the firewall."

Taufin Rusli
Director, Tech Consulting, Aiden Creative

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Analysts & Media on Oracle Cloud

Oracle recognized as a Visionary

In 2022 Gartner® Magic Quadrant™ for Cloud Infrastructure and Platform Services

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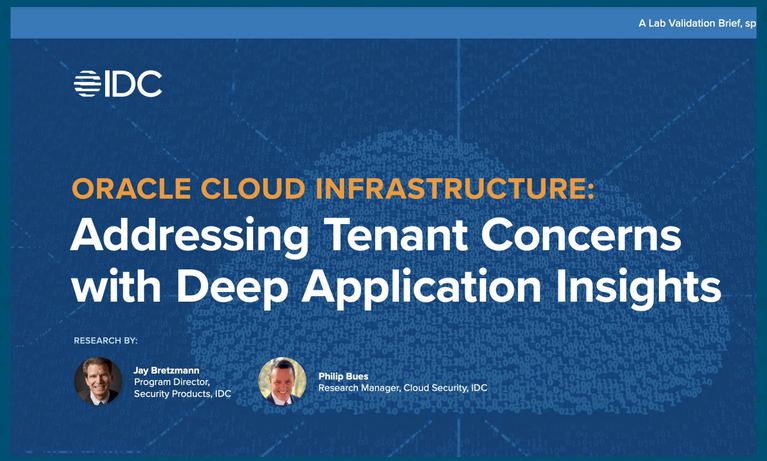

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“Oracle Cloud Made All The Right Moves In 2022. Oracle Cloud is very credible. The facts speak for themselves as OCI lands many big-name customers. One must assume those customers spent due diligence looking at the competition before picking Oracle. That speaks volumes and shows OCI displayed the ability to **deliver more business value** than the alternatives.”

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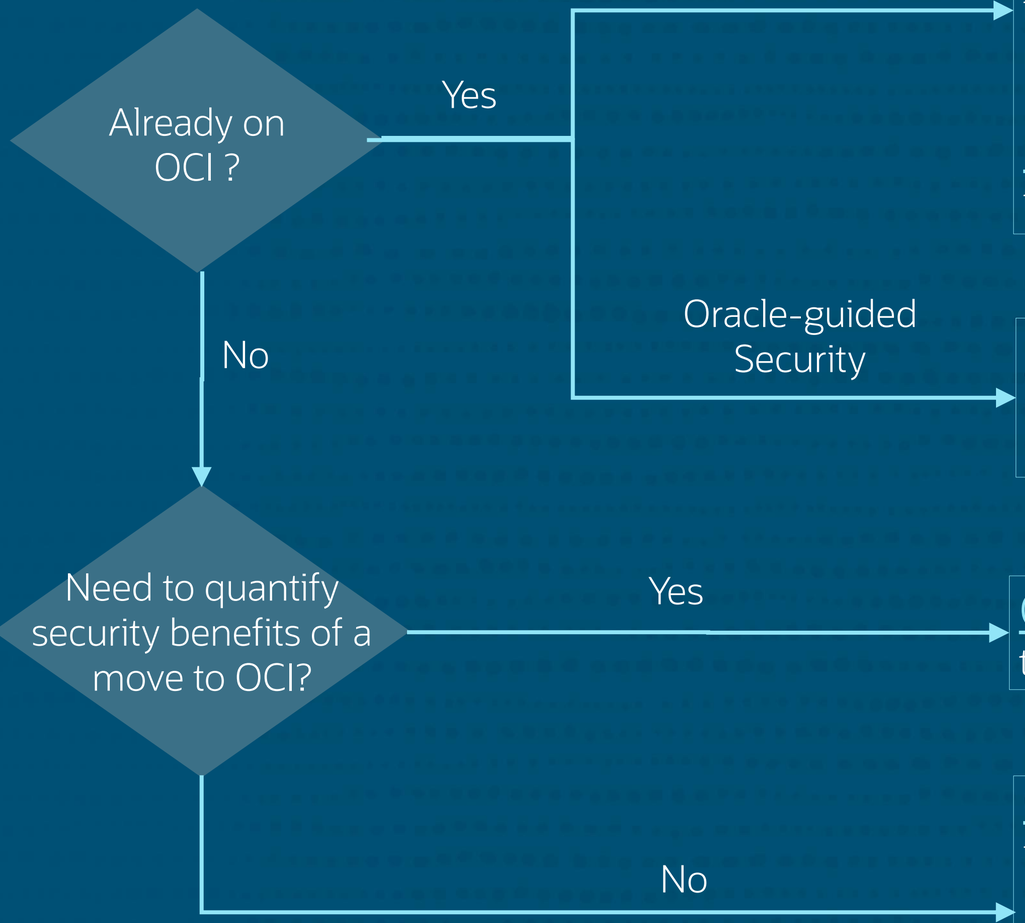
Path to outcome based on proven real-world experiences



Cloud Guard
to see your cloud security posture & address issues in minutes

Data Safe
to quickly evaluate data security risks and manage compliance requirements

Reference Architectures
to adopt the proven best practices

Oracle Security Experience Program (SEP)
to strengthen your cloud security posture with actionable recommendations

Cloud Security Readiness Review (CSRR)
to understand security benefits of moving to OCI

OCI Secure Landing Zones
for secure on-boarding based on CIS OCI benchmarks

Oracle Cloud Lift
to accelerate your migration to OCI

Visit Oracle Security

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Thank you

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