

Database Security

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Partner Sales School



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LAD Partner Enablement

Site da loja Fast Shop sofre ataque hacker e grupo quer negociar dados de consumidores

Aviso de invasão foi publicado no Twitter oficial da Fast Shop

POR JULIANO AIRES · 23/06/2022 01:26 · 4 · REPORTAR ERRO

The image shows two tweets from the official Twitter account of Fast Shop (@fastshop). The first tweet, posted 40 minutes ago, reads: "Hi FastShop ADMIN
In the previous 72 hours Fastshop TI and CLOUD system have been undergoing a extortion attack
We have gained access to some TB's of your data from VCenter and various cloud services, AWS, AZURE, IBM, GITLAB". It has 1 reply, 33 retweets, and 10 likes. The second tweet, posted 38 minutes ago, reads: "The data includes source codes | PCI DATA | Various user and corporate data.
We are happy to negotiate with you to prevent the leakage of this data | and to help resolve the issues.
We advise you to contact our telegram @nwgenceo". It includes a graphic of the Telegram logo and the text "t.me CEO You can contact @nwgenceo right away.". This tweet has 2 replies, 3 retweets, and 3 likes.

Fast Shop @fastshop · 40m
Hi FastShop ADMIN

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1 33 10

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t.me
CEO
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2 3

Agenda

1. WHY Challenges of our customers
2. WHEN Market Opportunity
3. WHERE Target Customers
4. WHAT Oracle Security Solutions
5. HOW Uses Cases

Why DataSecurity Play Disruptive Tech

Technology industry leaders see regulation becoming much more disruptive over the next 3–5 years

Change in level of disruption for emerging issues

	Very disruptive today	Very disruptive 3–5 years	Change
Cybersecurity	59%	64%	+5%
Data-related issues	55%	64%	+9%
Artificial intelligence	52%	47%	-5%
Privacy and surveillance	52%	48%	-4%
Regulation	41%	55%	+14%
Threats to truth and trust	36%	35%	-1%
Web3	24%	29%	+5%
Next-generation manufacturing	21%	18%	-3%
Quantum computing	21%	15%	-6%
Augmented/virtual/mixed reality	17%	18%	+1%
Cyber-biological convergence	8%	14%	+6%

Note: N = 68.

Source: Deloitte survey of US technology industry leaders, December 2021.

Deloitte Insights | deloitte.com/insights

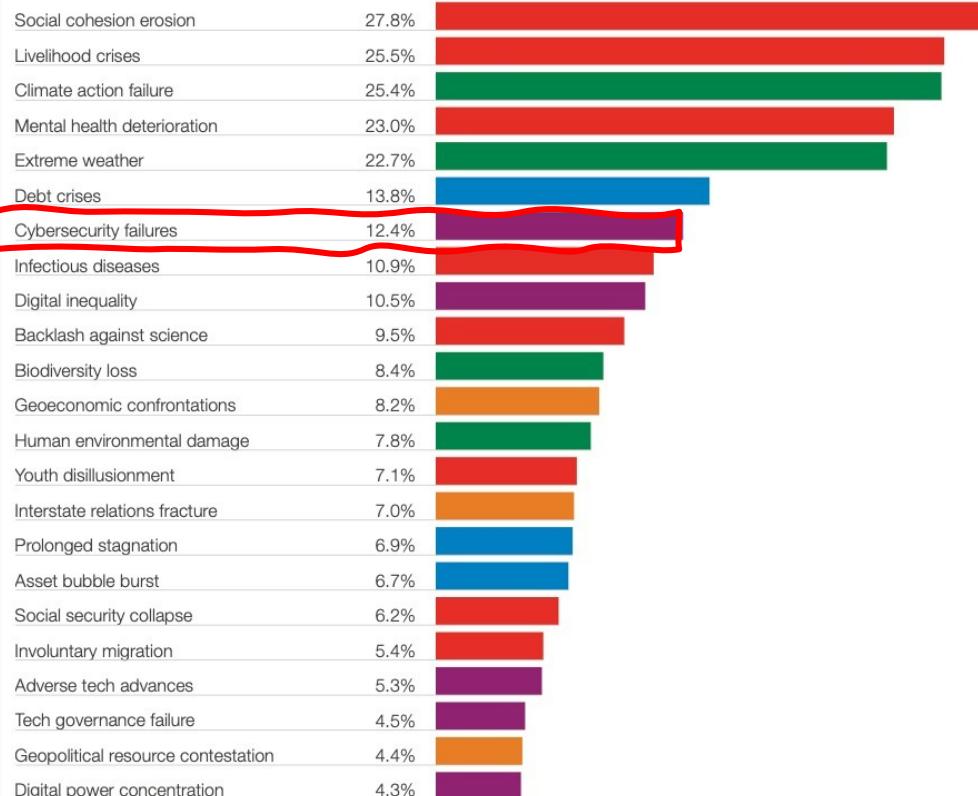
Risks after COVID19

FIGURE I

COVID-19 Hindsight

Risks that worsened the most since the start of the COVID-19 crisis

Economic Environmental Geopolitical Societal Technological





Why: Cybercrime to Cyber-Economics !

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Cybercriminals can penetrate **93 percent of company networks**

Businesses Suffered 50% More Cyberattack Attempts per Week in 2021

ransomware attack cost businesses \$1.85 million on average in 2021

32 percent pay the ransom, but they **only get 65 percent of their data back**

Average cost to pay a ransom is **\$154,108**, with an **average downtime of 21 days**

Only 57 percent of businesses are successful in recovering their data using a backup

Global **cybercrime damage** predicted to hit **\$10.5 trillion annually by 2025**

The **Cyberinsurance market** is predicted to hit **\$14.8 billion annually by 2025**

Cyberinsurance will demand **PROTECTION, PLANS and AUDITS** on your customers!

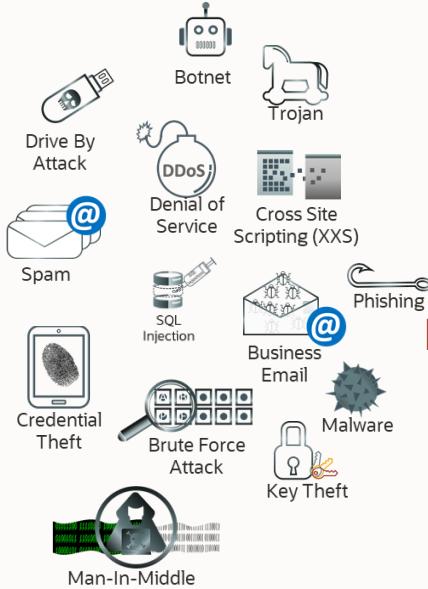


Cyber Threat – One Single Goal

Actors & Targets

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They Need to Succeed Only Once And You Every Time



THREAT

GOAL

TARGETS



Every Cyber Threat is Targeting Your DATA

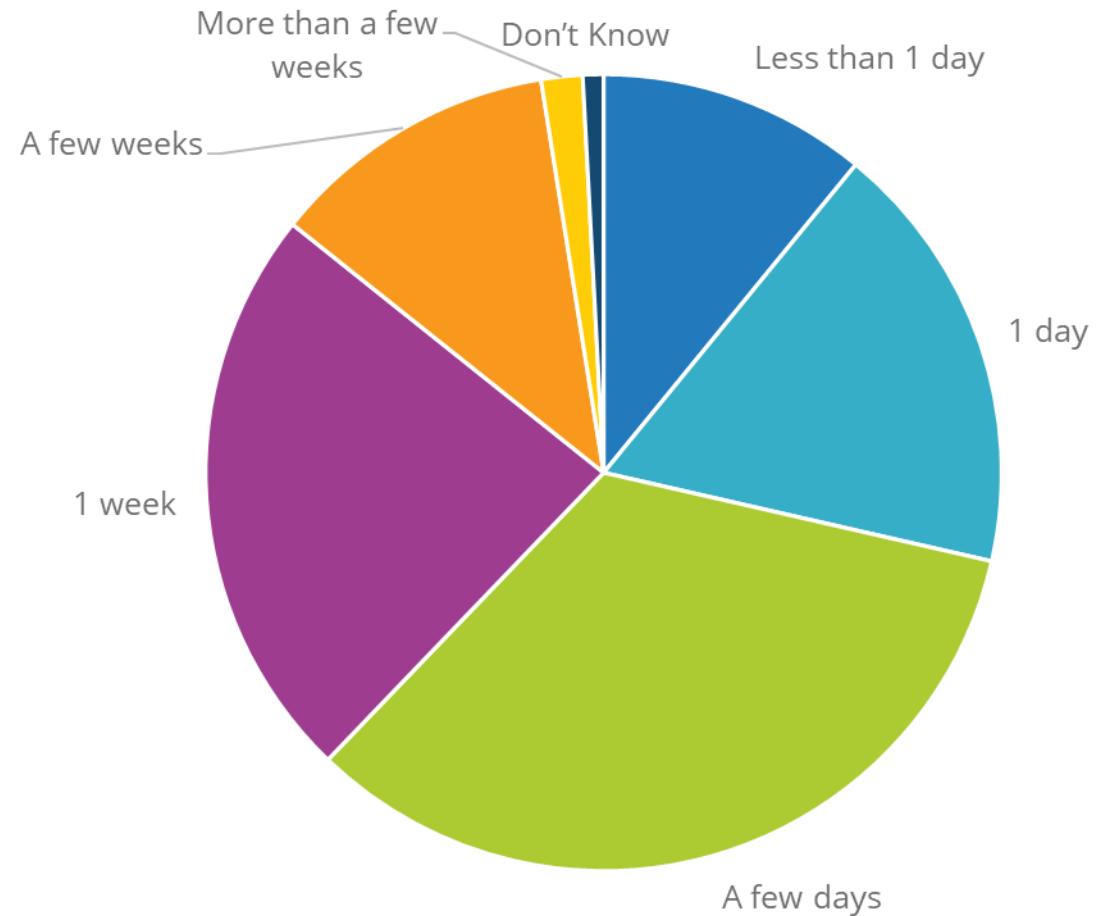
Many conduits to attack, one main target:

1. **Exfiltration** (preferably in Volume/Numbers)
2. **Encryption / Destruction** (Including backups)

Everyone Wants Your Data

It is not just about data recovery; business disruption is the norm

Over 1/3 of respondents report ransomware causing a business disruption of at least one week.



For your most recent ransomware incident, how many days was business disrupted?

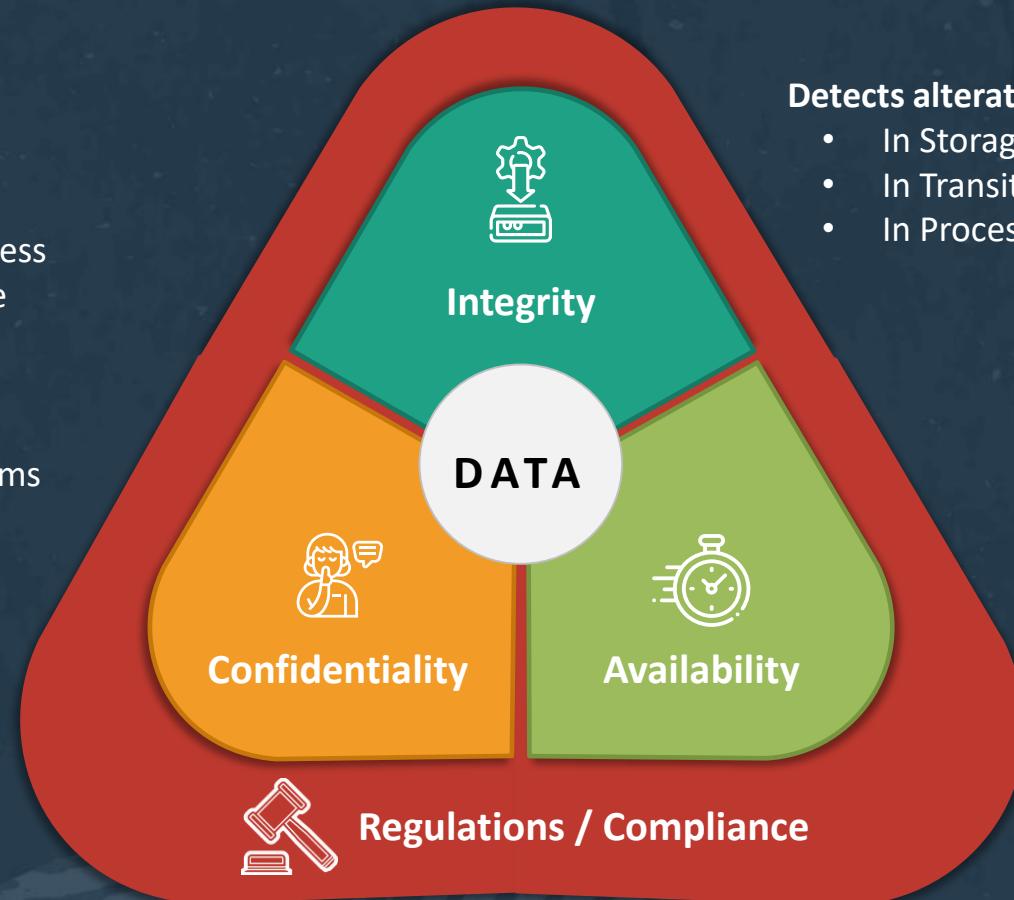
Why : Customer Security Challenges

Protection From

- Unauthorized access
- Unauthorized Use
- Disclosure

Protect Data

- Residing on Systems
- In Transit
- In Process



Detects alteration that has occurred

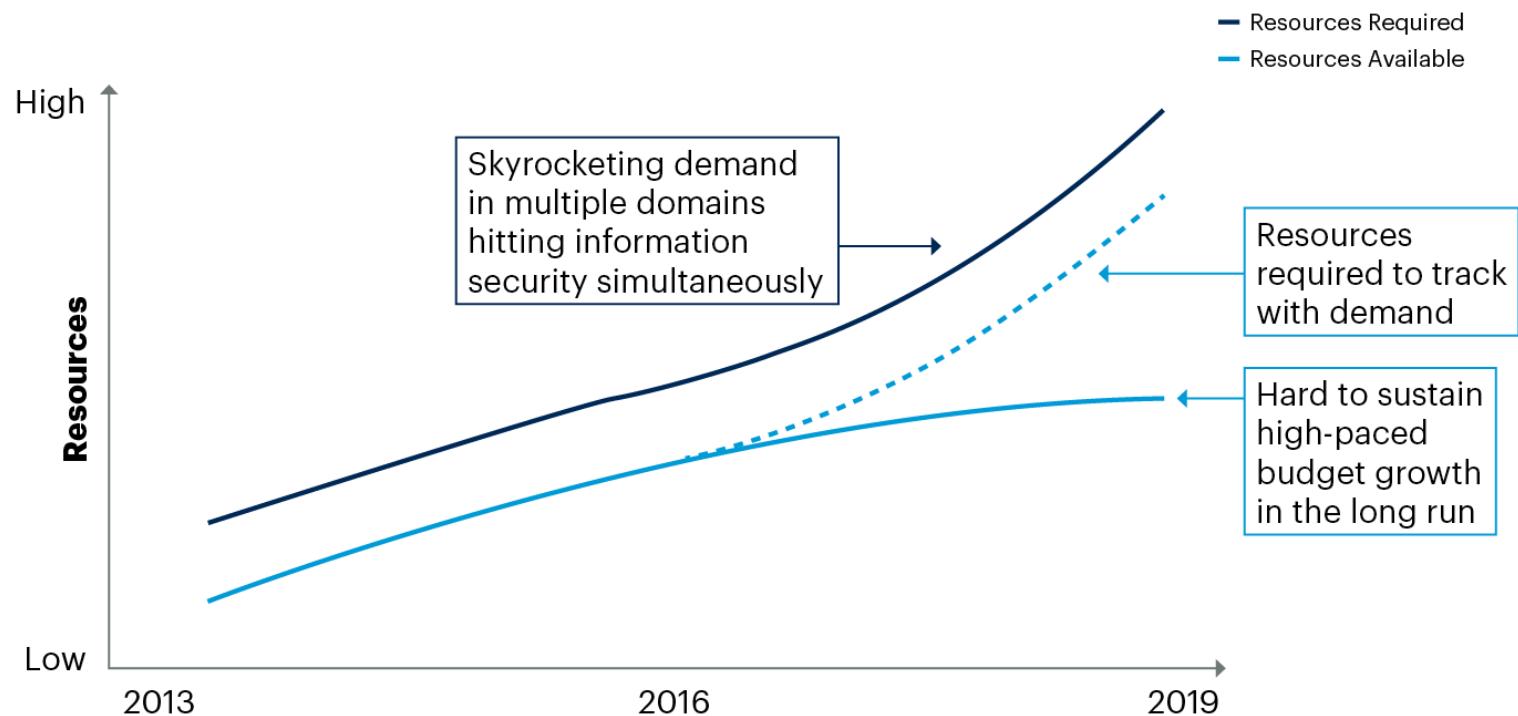
- In Storage
- In Transit
- In Process

Control Ensure

- Authorized Access
- Acceptable level of performance
- Fault Tolerance
- Redundancy
- Reliable Backup
- Prevention of data loss or destruction
- Disaster Recovery

When : Opportunity Market

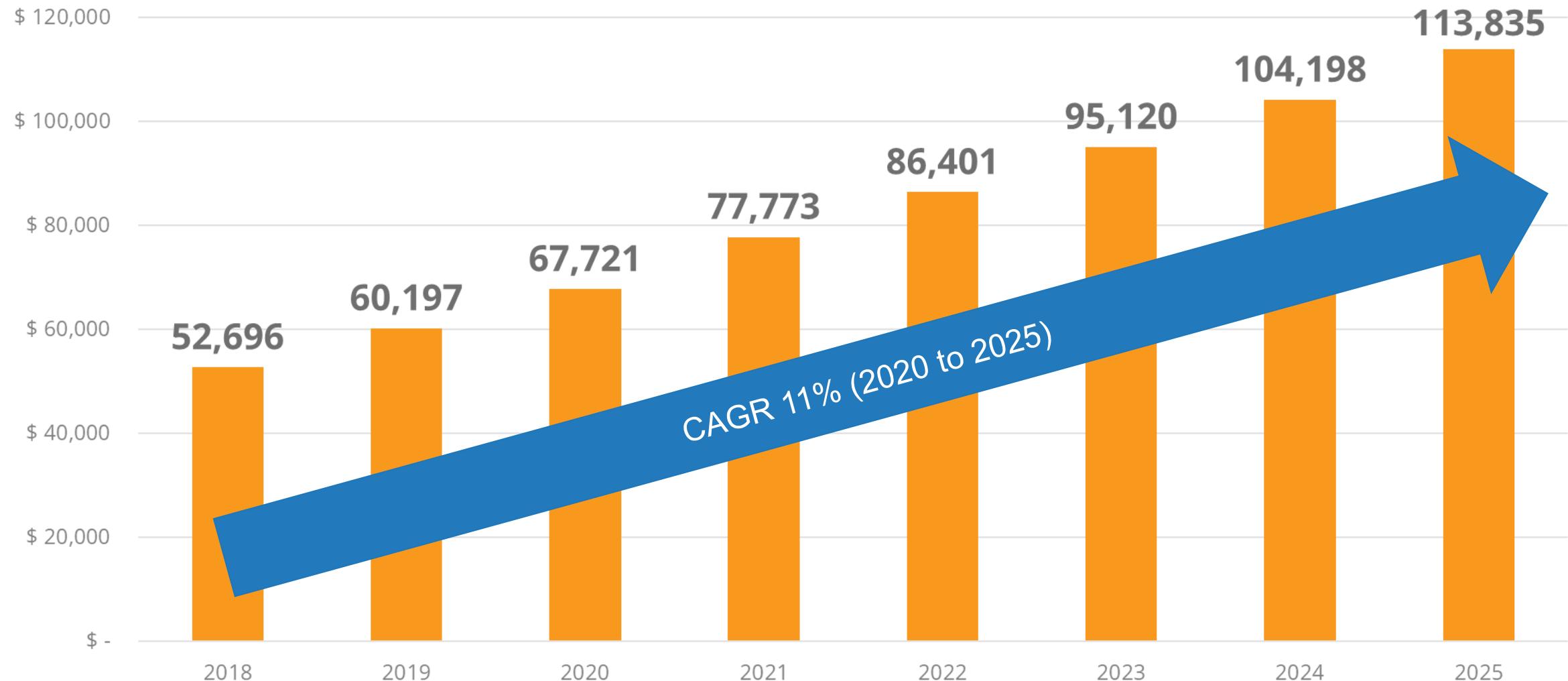
The Collective Impact of Digitization on Information Security



Gartner

- Lack of security talent
- Finite Talent Resources
- + Security Budgets growing by 5% - 6% YoY
- + Complex technologies taking time to implement
- + More projects!!! In the CISO Agenda.

Security Market Revenue (\$ Millions)



When : Oracle Opportunity

66,6%

Enterprise Edition
Installed Base
Customers with **NO
Security Options.**



+4000

Standard Edition
Installed Base
Customers to upsell
Audit Vault, DB
Firewall, DataSafe



+300

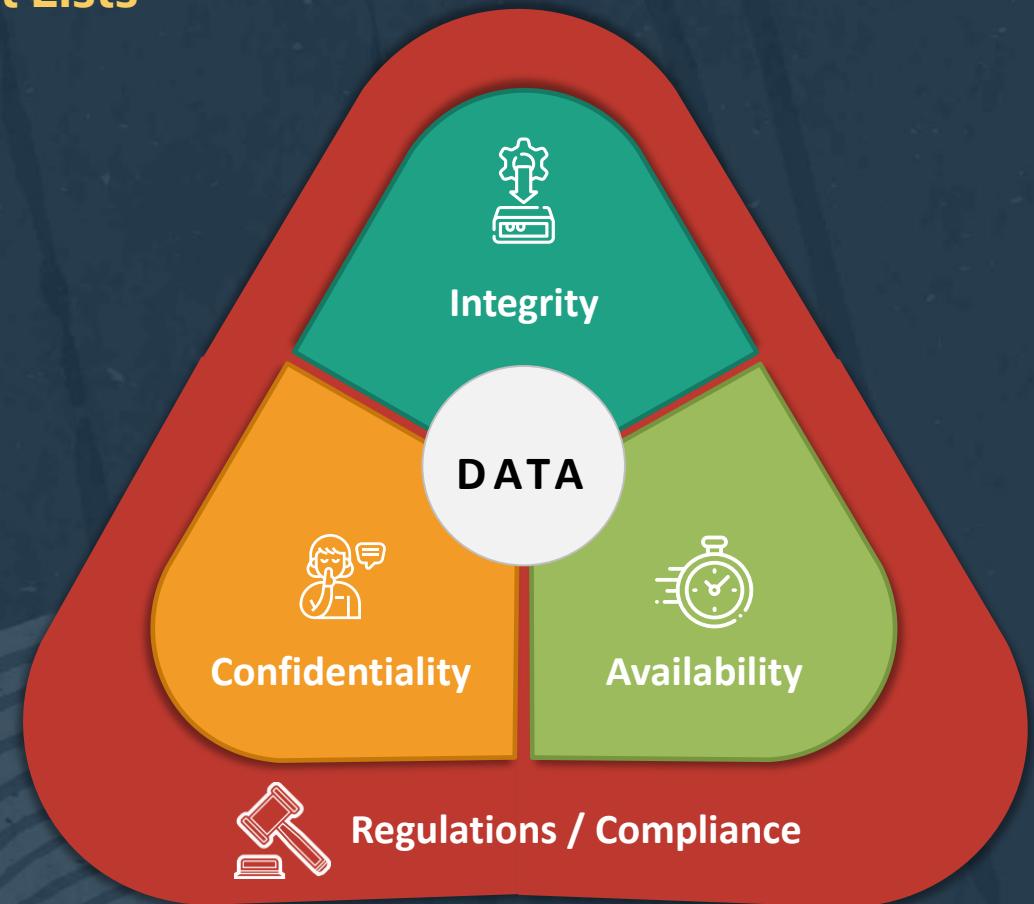
Highly Support Fees
Enterprise Edition
Customers, with no
RA, no Exa, no ExaCC,
No ODA.



Where : Go To Markets!

Go to Markets available as a Engament Lists

- Data Sovereignty / Personal Data Protection/Compliance (GDPR, HYPAA, PCI-DSS)
- Data Encryption
- User and Access Management
- Segregation of Duties, securing sensitive Data
- Secure, Isolate, consolidate your workloads
- Audit & Monitoring
- Continuous Data Protection
- Business Continuity (HA)



Target Customers

Propensity

Highly Regulated Industries

- Banking
- Healthcare
- Retail
- Government
- Cooperative Banking

Industries

- Utilities
- Hospitality
- BPO/CallCenters
- Electronic Payment
- Solidarity Banking
- Education

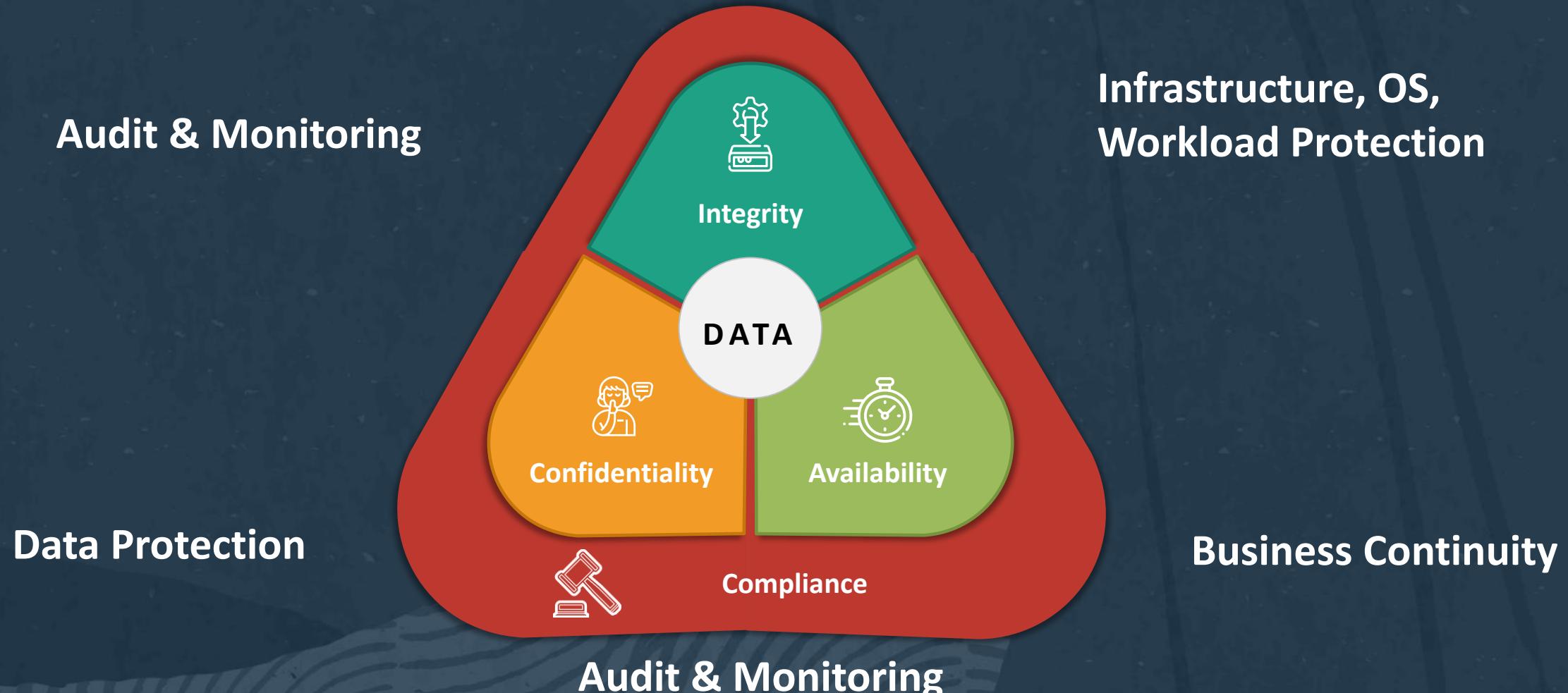
Oracle

- Existential customers of Exadata and ExaCC
- Existential customers of EE with no sec options
- Upgrade SE to EE and Sec Options
- Existential Oracle Apps IB
- Customers with Highly support fees of EE with no Oracle HW.

3rd Party Plays

- 3rd Core Applications based on Oracle DB
 - Core Banking
 - Core ERP
 - Healthcare
 - Education
- SAP on Oracle DB

What : Oracle Security Solutions



Database Security Compliance

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Regulations
Compliance

How to position Oracle Security Solutions using regulations, standards and certifications?

- Get knowledge about regulations that apply to your country/customer as a compelling factor to invest in security.
- Get knowledge about security standards and certifications that apply to your customer as a compelling factor to invest in security.
- Map Oracle security solutions with regulations, standards and certifications
- Measure financial impact

What are regulations, standards and certifications?



Regulations: Rules or Directives issued by an authority in order to protect social, political or economic aspects that are of public interest.

Security Standards: Cybersecurity standards are collections of **best practices** created by experts **to protect organizations from cyber threats** and help improve their cybersecurity posture.

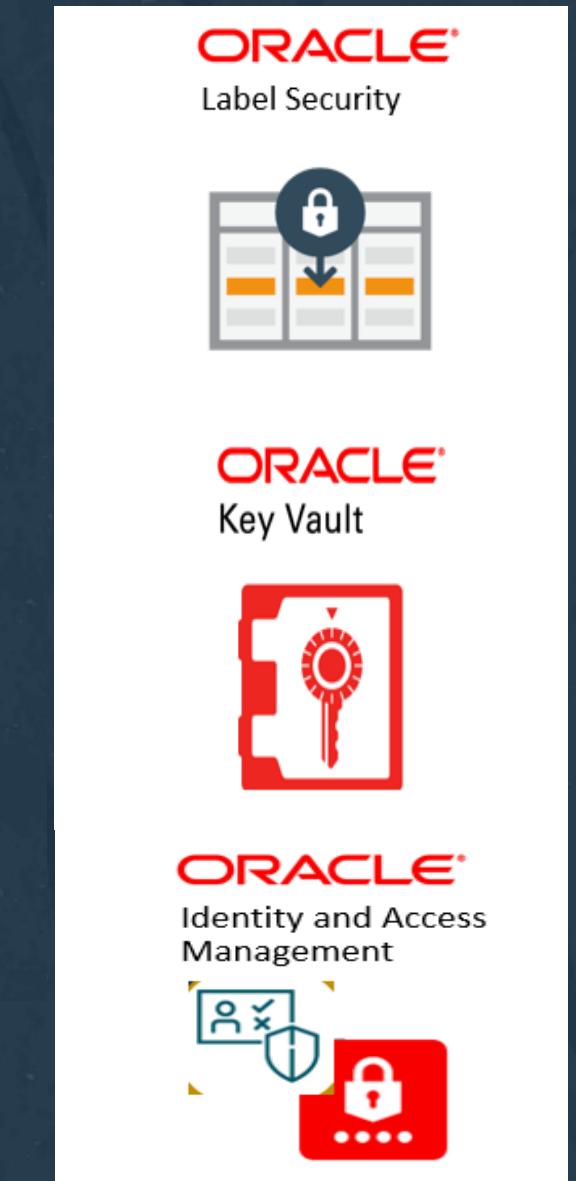
Certifications: The action or process of providing someone or something with an **official document attesting to a status or level of achievement**.



USE CASE: Example



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Availability

Database Security Availability

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Availability

Availability

Is the ability of a service, data or system to be accessible and usable by authorized users (or processes) when they require it.

Assumes that the information can be retrieved at the time it is needed, avoiding its loss or blockage.

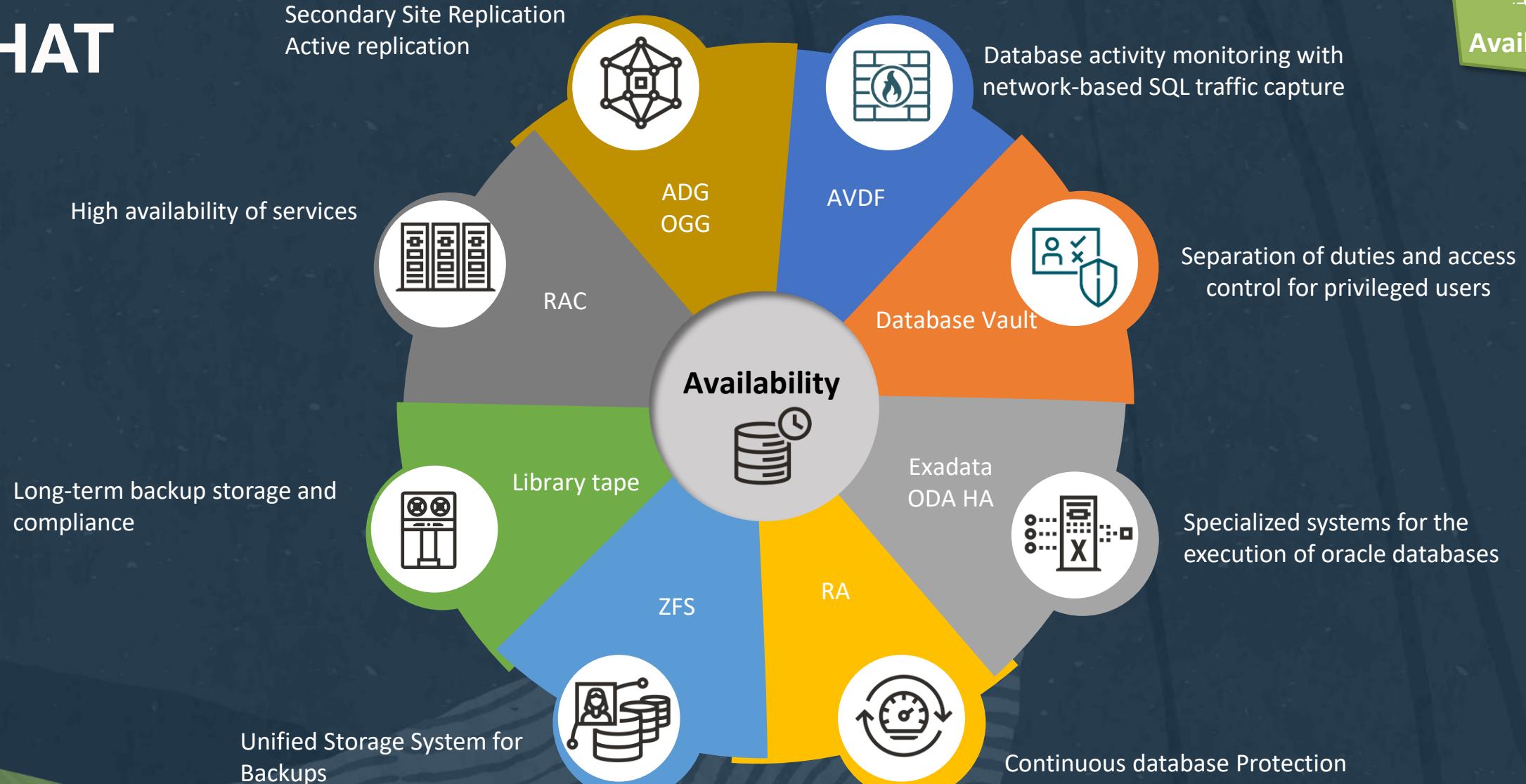
Cybersecurity risks: It is associated with cybersecurity incidents that arise from the loss of availability



WHAT



Availability





HOW : Use Cases



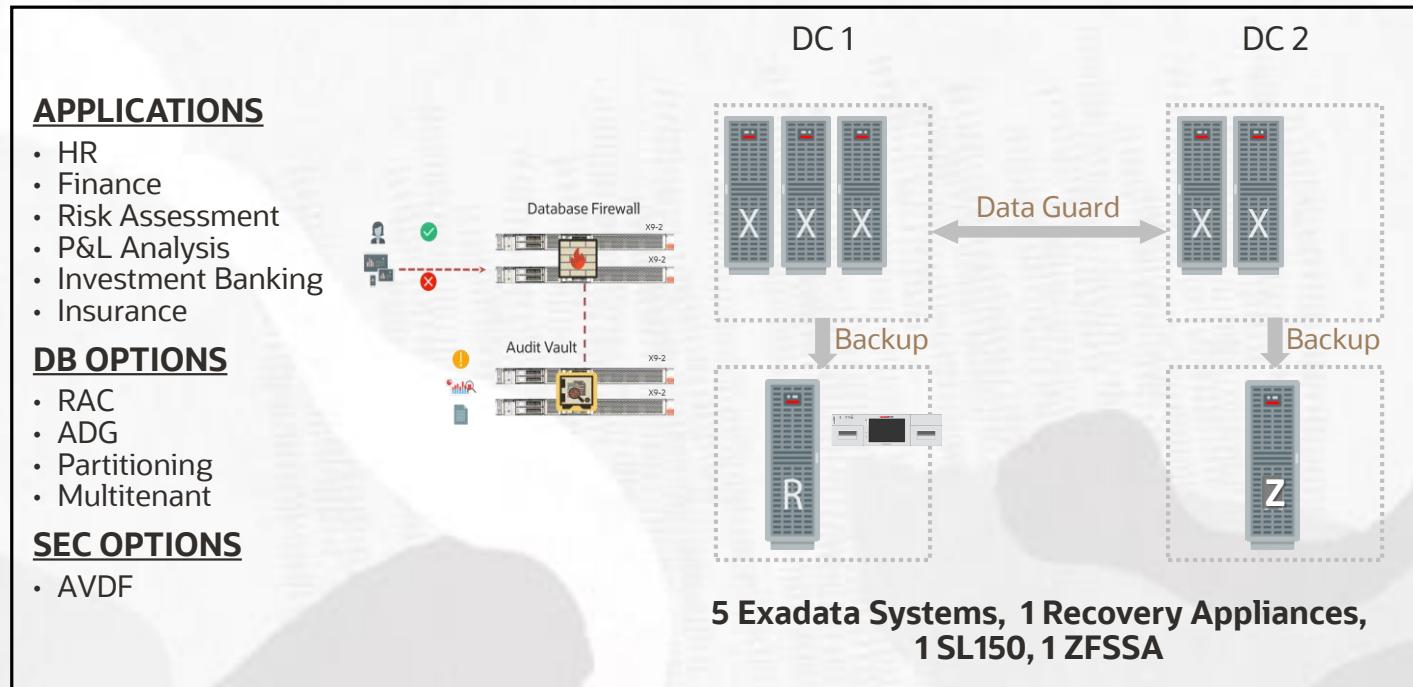
Goal

A more stable, reliable, scalable and predictable data protection solution for Oracle databases with mission critical applications

Outcomes

- They **reduced security risks** by auditing and monitoring database activity.
- **Unauthorized SQL traffic was blocked** from reaching the database.
- Audit and activity **reports for compliance** and security investigations.
- **Replication of transactions** to standby databases instances in a remote site and local backup.
- Certainty of recovery from backups and **zero data loss** for more than 100 databases, with a 3x reduction in times
- Offline backups of **historical tape backups**

European multinational financial services firm specialized in asset and wealth management, corporate and investment banking, insurance and payments.





Integrity

Database Security **Integrity**

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Integrity

What is:

Data Integrity refers to the **accuracy** and **consistency** of the data. Data reliability means that the **data** remains **intact** and **unchanged**.



Integrity

- Unified Security on-premise and cloud

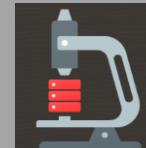
- Data sensitivity, evaluate data risks, mask sensitive data, implement and monitor security controls

- Prevent internal and external attacks
- First line of defense for databases

- Separate Keys from Data
- Simplify Admin and Deployment



Data Safe



Database Auditing



Database Firewall

Integrity



Audit Vault



Key Vault



TDE

- Encrypt Data at Rest and In-Motion
- Encrypt Exports and Backups

- Native tool to monitoring and recording of selected user database actions.

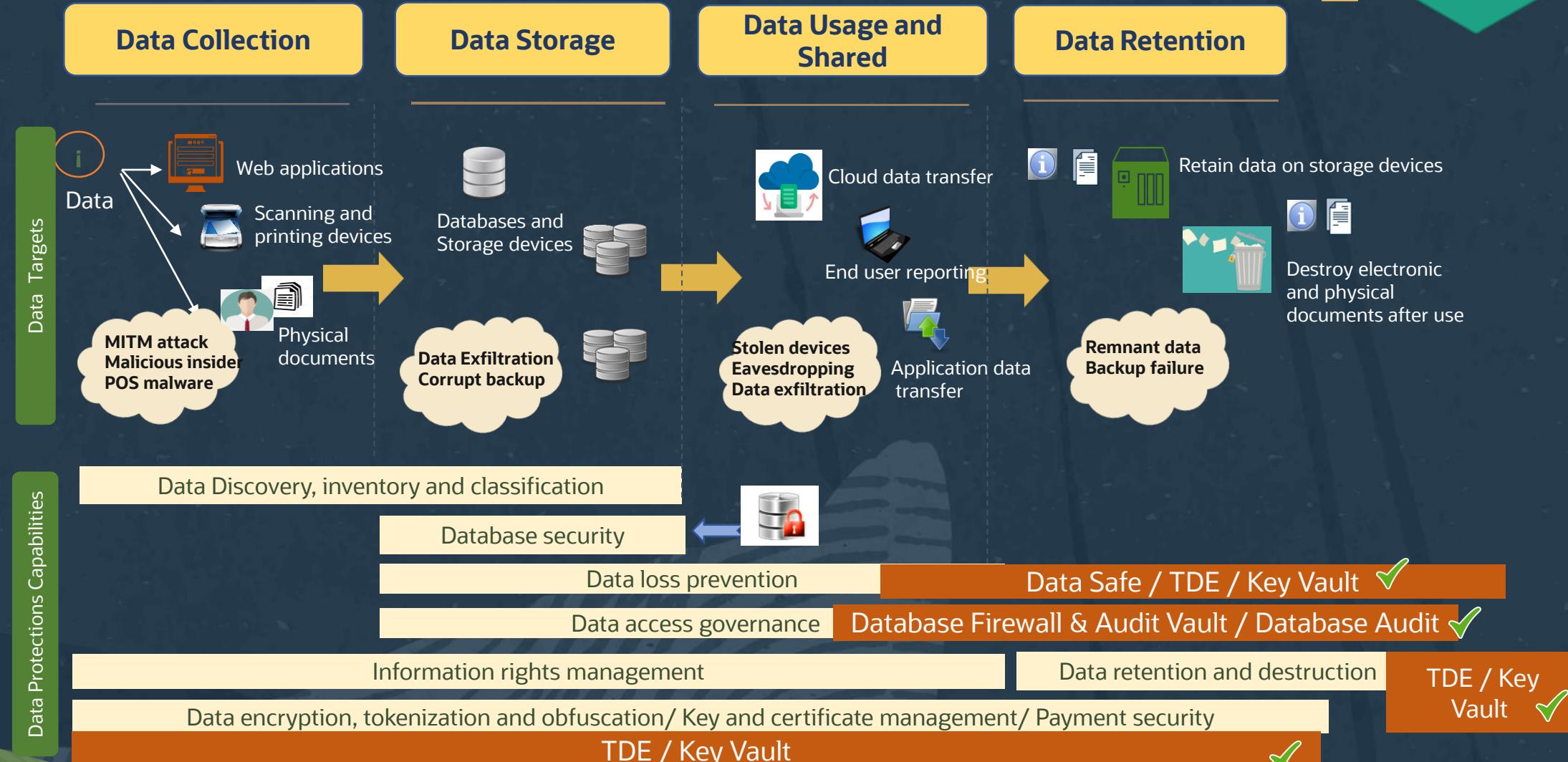
- Early detection of suspicious activities, and finely-tuned security responses

- Audit Access to Sensitive Data
- Audit Privileged User Activity



Integrity







HOW : Use Cases



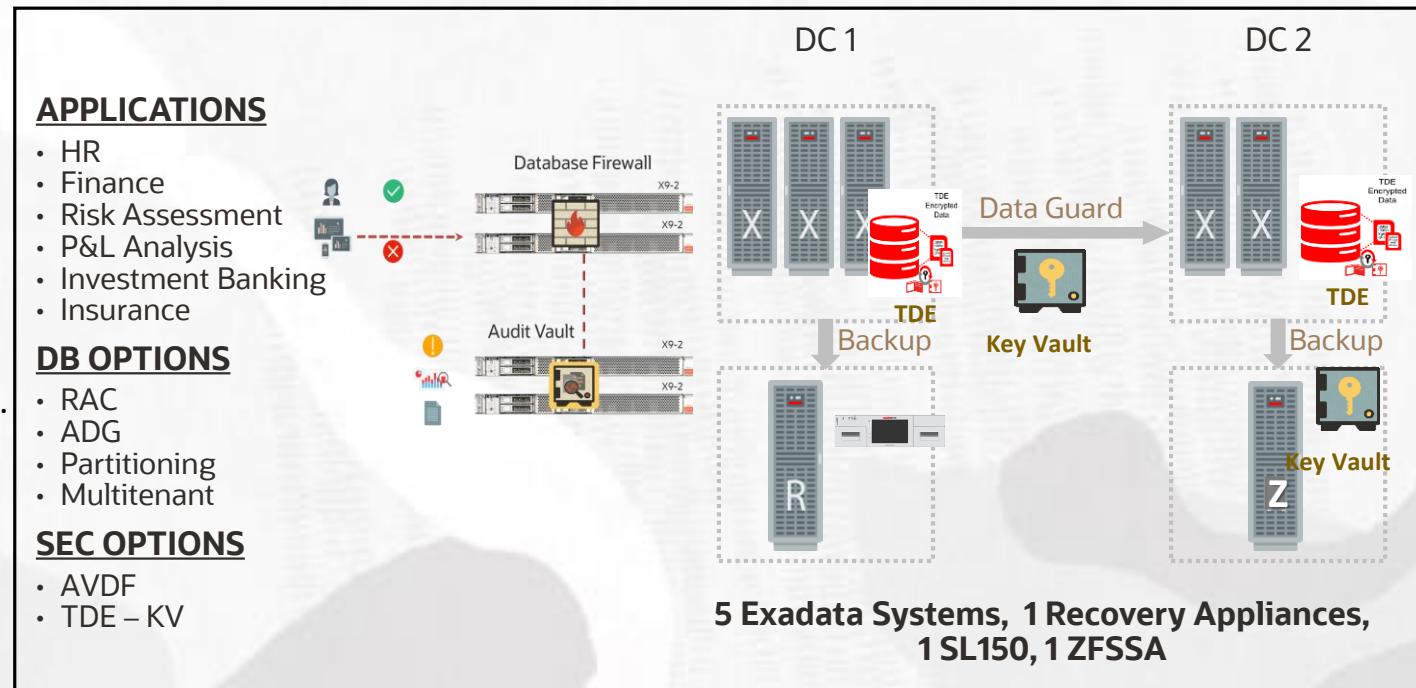
Goal

With Database Security solutions including **Oracle Advanced Security**, **Oracle Key Vault**, Oracle Database Vault, **Oracle Audit Vault** and **Oracle Database Firewall** to streamline and simplify and minimize risk and further enhance our overall security.

Outcomes

- They encrypted sensitive information **avoiding information leaks**
- They **reduced security risks** by auditing and monitoring database activity.
- **Unauthorized SQL traffic was blocked** from reaching the database.
- They defined **access control rules** managing access to sensitive information.
- They manage encryption keys **efficiently** and **securely**

As a large communication and entertainment provider, NOS manages large amounts of customer data. They have the responsibility to protect the data of their clients, customers, and employees. That's why they selected Oracle Database Security solutions.

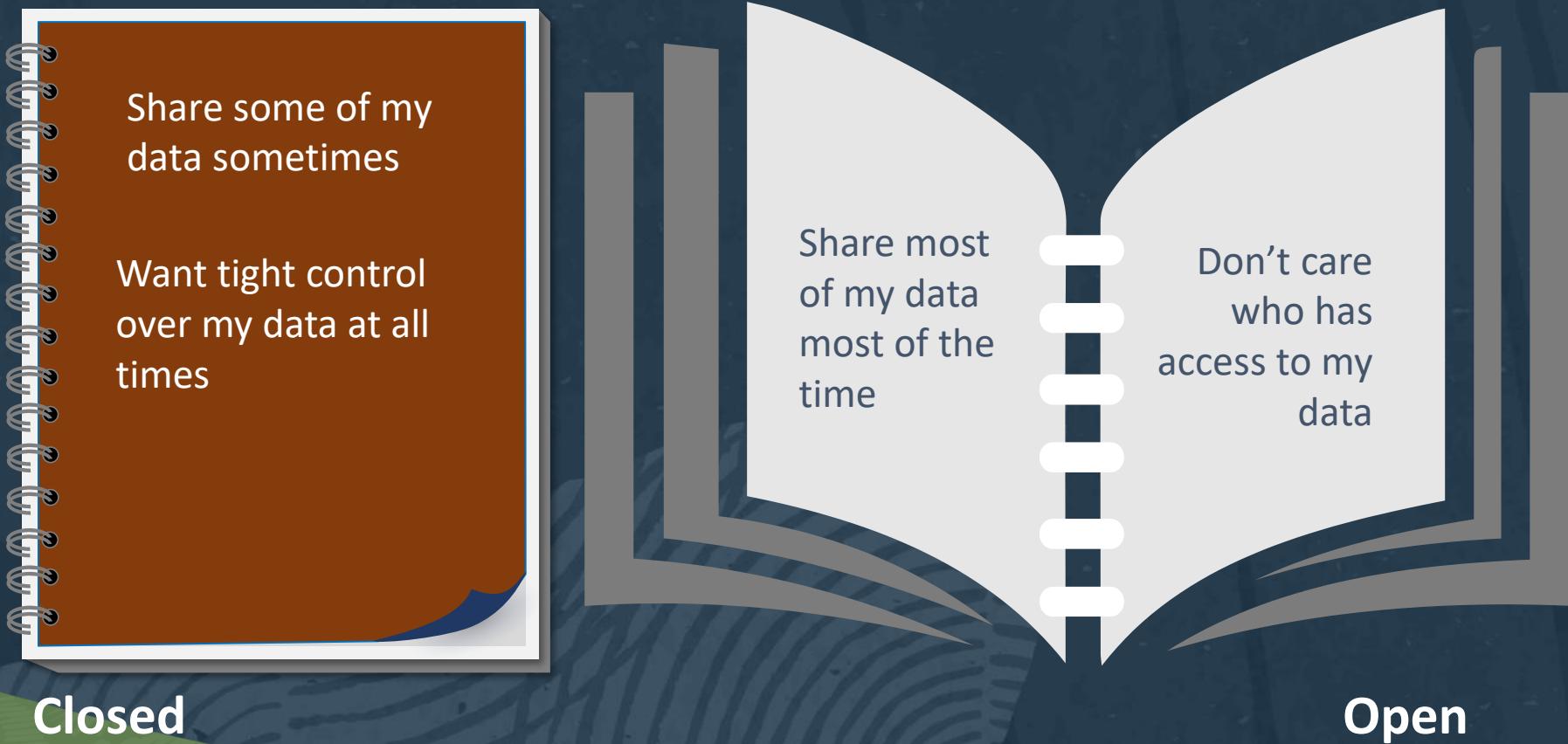


Database Security Play Confidentiality

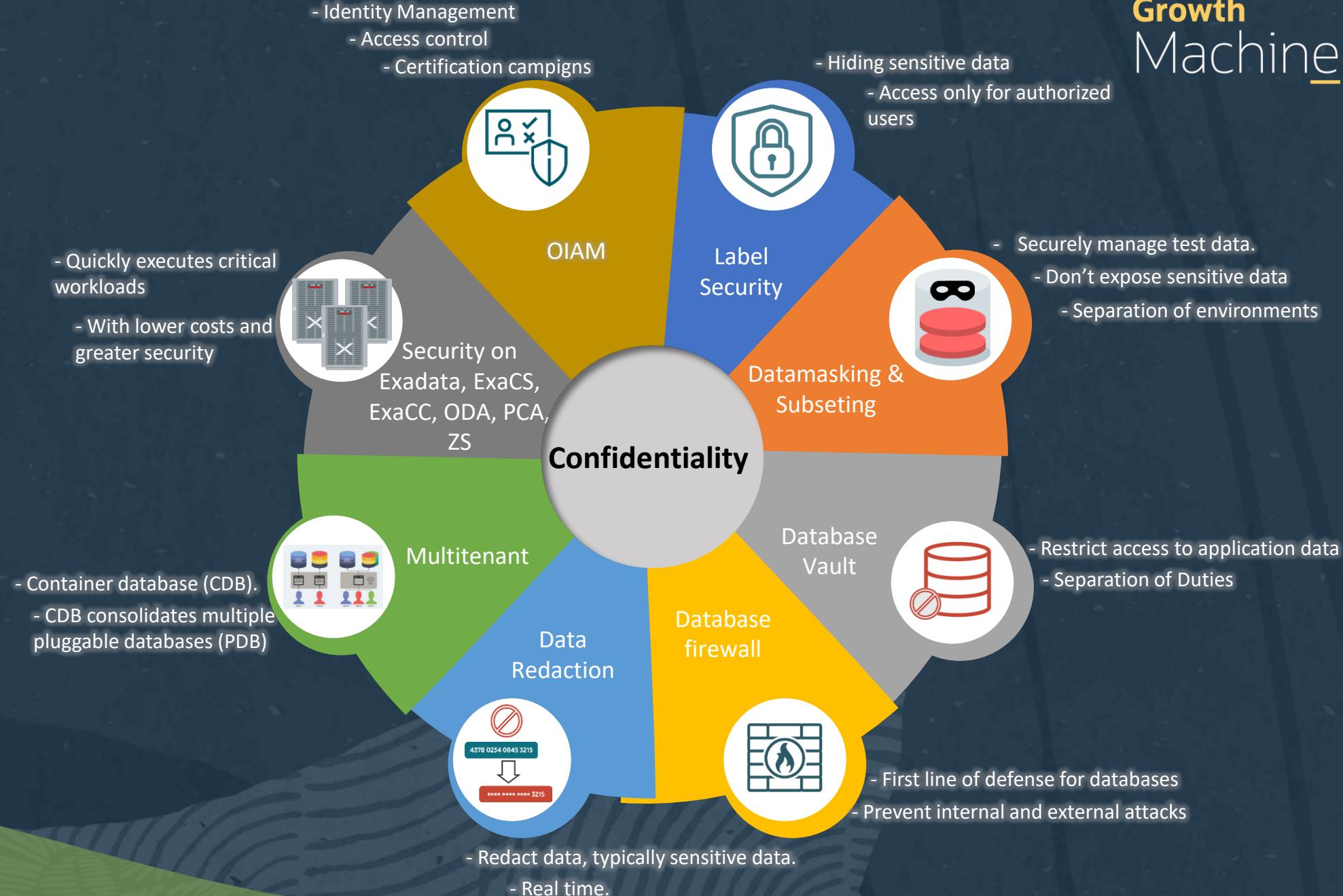
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CONFIDENTIALITY

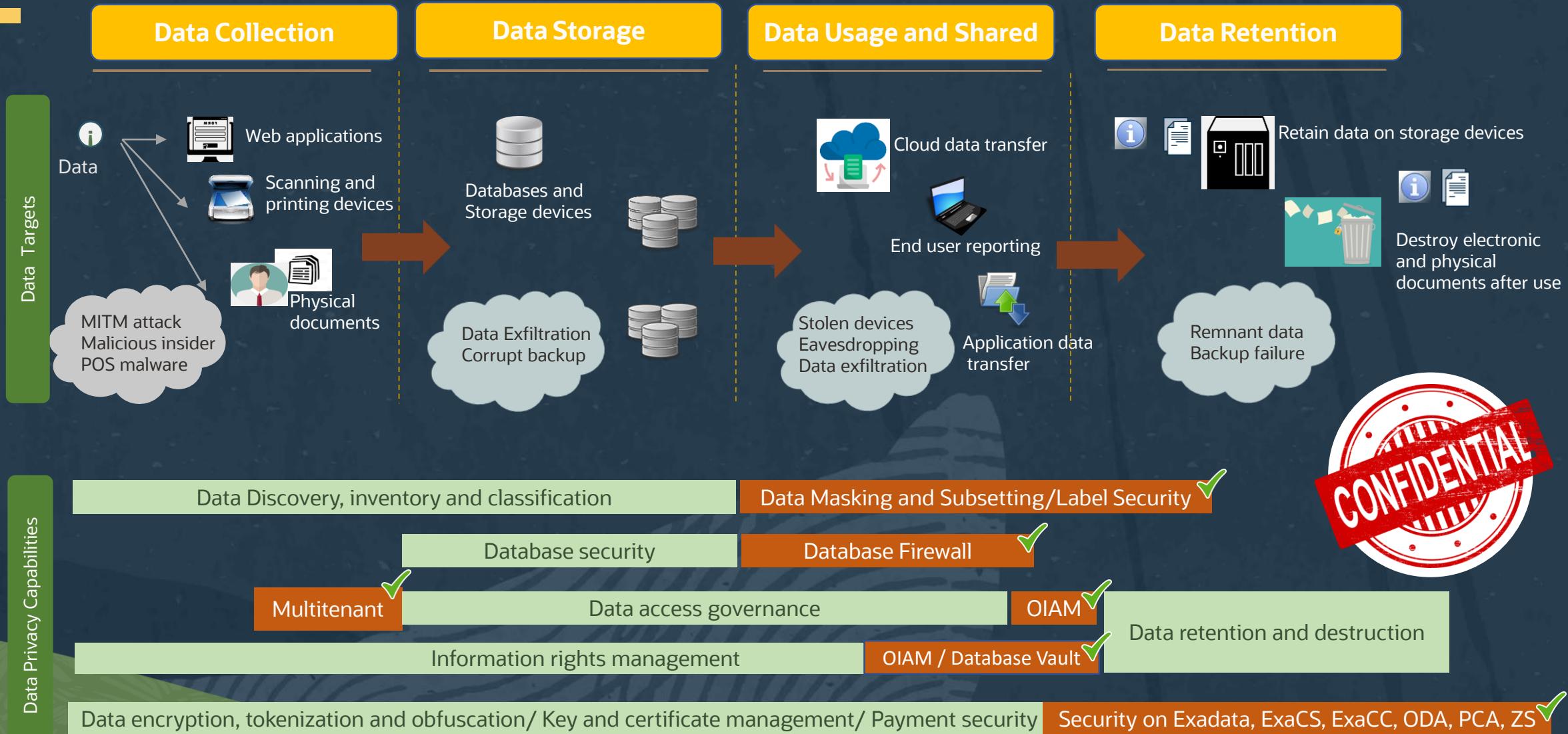
What is? *Ensure that the information is available only to authorized persons*



What



How



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Thank You