

ORACLE®

Improving Enterprise Security with Inside Out Approach

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Oracle Security Solutions



The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.



ORACLE!

\$7B FRAUD

614 Passwords sTOLEN
LinkedIn

12M Credit Cards STOLEN

Sony

Société Générale

\$7B FRAUD

Société Générale

STOLEN STOLEN Credit Cards STOLEN ON STOLEN ON THE LOCAL STOLEN ON

ORACLE

3. Financial Loss

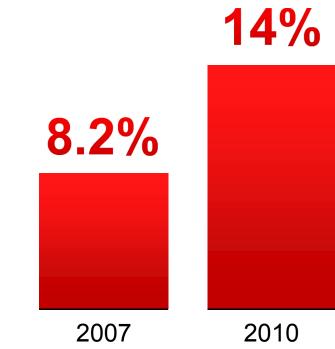
2. Regulatory Fines

1. Brand Decline

O PREVENTABLE

IT SECURITY response has been reactive, shifted attention away from apps and data







- **Endpoint Security**
- Vulner bility Man
- **Network Secur**
- Email Sa

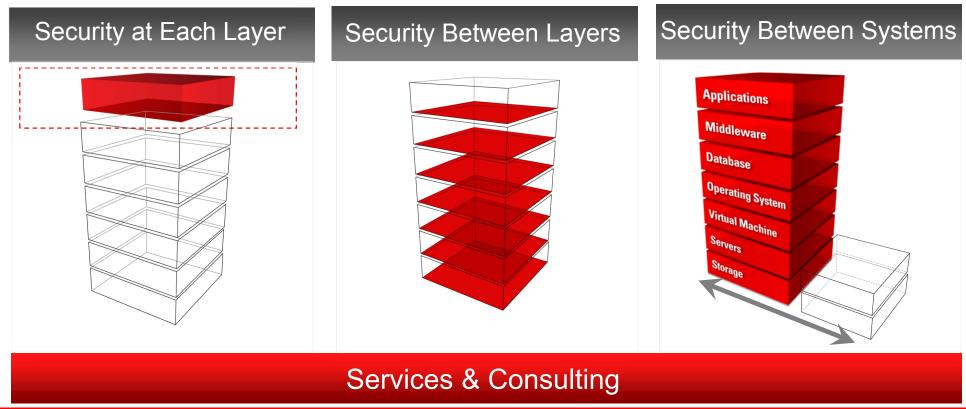
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32% hacking involved stolen credentials 80% breached records from web/app serve 96% breached records from db servers CORE from privilege misuse 94% attacks against servers breaches against off line data breaches against file servers

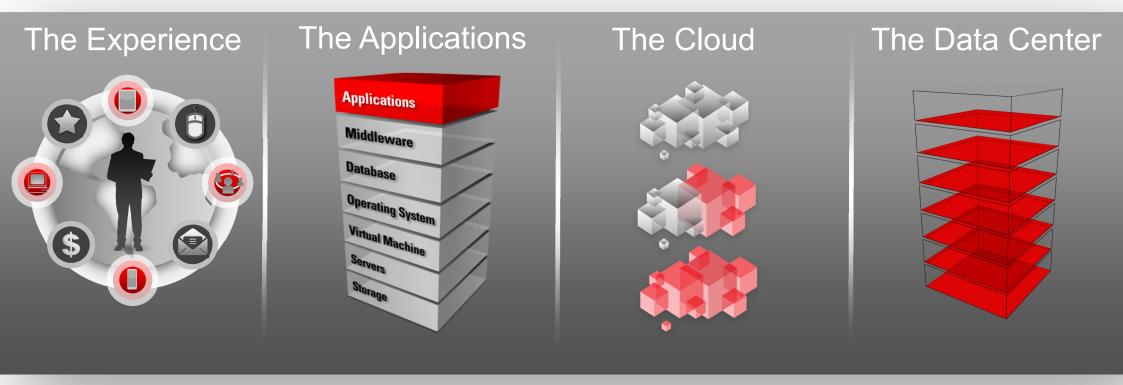
Start Inside

Security at every layer & between systems



Focus On The Core Systems

Focus on four areas



- Secure information **THROUGHOUT** ITS LIFECYCLE
- Move controls **CLOSER TO THE SYSTEMS THEY PROTECT**



An Inside Out Approach

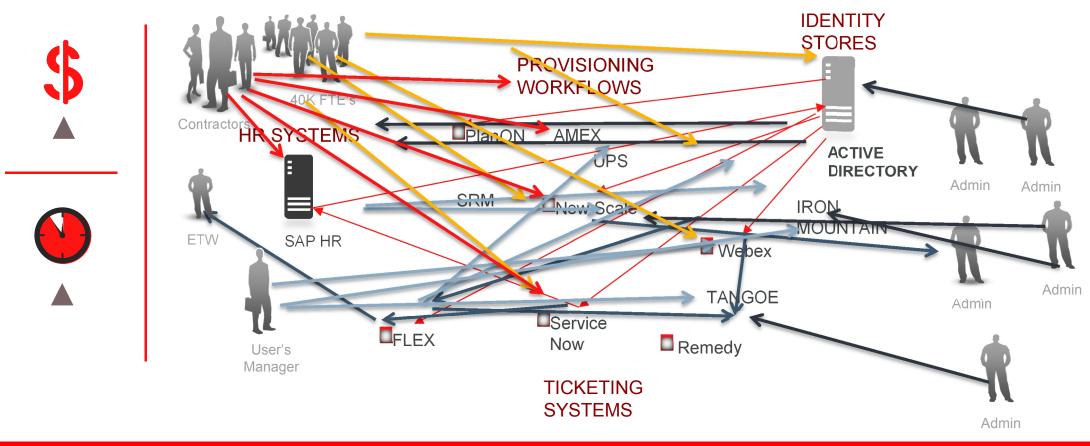
Protect information where it resides throughout its lifecycle

Applications Unstructured Structured **Portals** Data & OS Data Application Access Control Firewall Encryption Governance & Compliance Encryption VM Isolation Masking Fraud Detection Encrypted Backup Audit & Monitor SOA Security Access Control Secure Backup Document Security Monitoring Access Control

SAP	CRM	Legacy	AD	Core Bank	Oracle	
Jberry	Bbanks	A49320	Cooperl	Skeeti	Sequensh	
Esiegel	Lsulley	A39943	Tinleyj	Frenetc	Welchj	
Jrowland	Lbitmore	A49454	Harrisd	Smileys	Pettyr	
Mfriedel	Ltimble	A93934	C hrisf	Entrald	Robertsj	
Sbenson	Aboyle	A39485	Rowlandr	Novacho	Julianr	
Thanks	Bcoldwel /	A49382	Bensons	Alvarag	Nantpre	
Jwayne	Dparis /	A48382	Quinleys	Narlersh	Enaget	
Tcarrol	Clriot /	A49382	Harminb	Woodst	Jhancock	
Sharris	Etear /	A39485	.	Nicklausj	Johnh	
Bwhite	Smackay	A29483	Francek	Hoganb	Hanwayv	
Ddailey	Mturner	A49583	Lipperd	Palmera	Composi	
Eheiden	Mmc/lain	A49382	Skatee	Dimarcoc	Initalialy	
Lball	Mcpasch	A49302	Marinoe	Perryk	foxc	
Hwiggins	Jeasch	A42845	Flamingo	Beards	Stickler	
Cjohnson 7	cfox	A20184	Russiak	cfox55	Bourne	
Cwillis	Tdean	A49284	Crowd	Fusar	Fusar	Chris
*C_fox	Jtorville	A49248	Pazzaz	Poli	Margoliao	_
Mthomas	Cdean	Ģ i	Daoudc	Margaglio	Navka	(User)
Browland	Nreagan	A42948	Louf	Lithowan	Koskoma	
Mprehn	Rnixon	A49274	Peizerat	Vanagas	Hackinsa	
Ggoodnow	Gbush	A37520	Anissina	Lightes	Newjers	
Slake	Jvance	A49294	Ferrisb	Naugano 🔆	•	
Bblake	Jcarpent	A03749	Lupers	Footman	Alexander	
Fjohnson	Mstewart	A49274	Lobach	Figureas	Sasha	
Galonso	Lchristia	A33993	Frenchj	Lupesh	Reuben	
Slippes 🔞	×	A38288	Navratol	Arganish	Struedl	
salger	jmackay	A48228	dellm	Delegant	tangor	

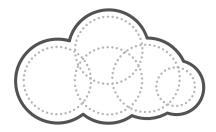
ON-BOARDING EXAMPLE

FRAGMENTED, MANUAL, COMPLEX AND UN-AUDITABLE









SECURE THE **CLOUD**

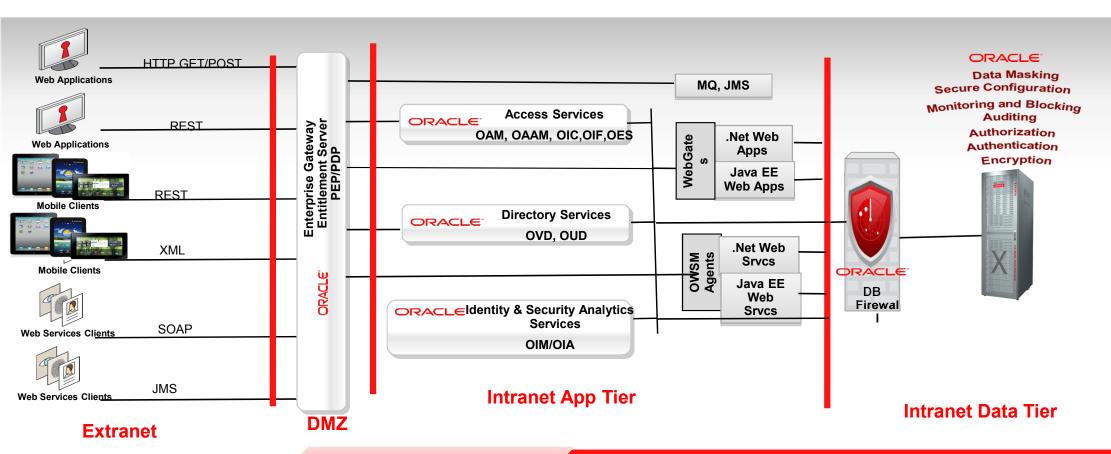


SECURE THE **APPLICATIONS**



SECURE THE **DATABASE**

End to End Security Architecture from Inside Out



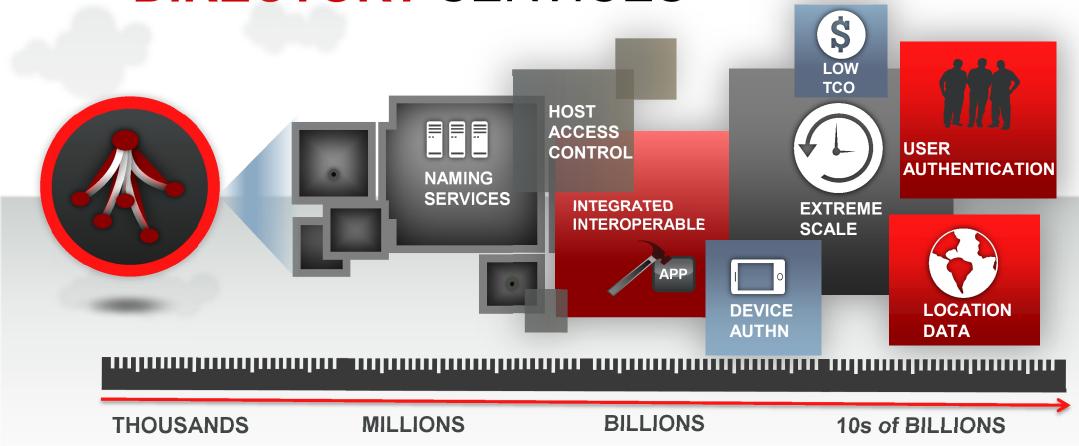
Common Security Policies

IDENTITY GOVERNANCE COMMON REPOSITORY ACCESS REQUEST APPS DATABASES DIRECTORY SINGLE SERVICES USER ACCESS VIEW APPLICATIONS PRIVILEGED CERTIFICATION ENTITLEMENT OPERATING ACCOUNT SYSTEMS CATALOG MANAGEMENT **COMPLETE GOVERNANCE**

ACCESS MANAGEMENT



DIRECTORY SERVICES

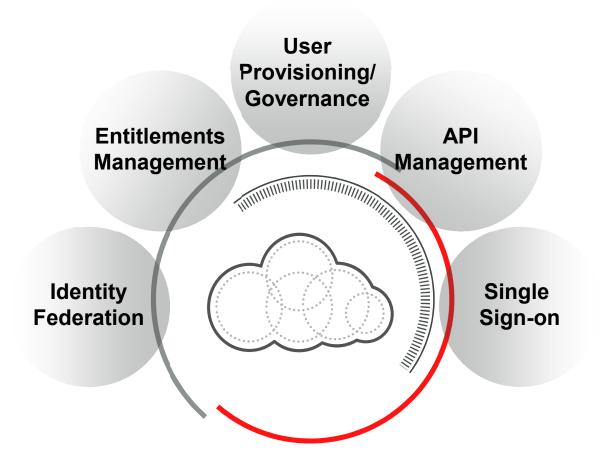


Oracle Database Security Solutions

Defense-in-Depth for Maximum Security

PREVENTIVE DETECTIVE ADMINISTRATIVE Encryption Activity Monitoring Privilege Analysis Redaction and Masking Database Firewall Sensitive Data Discovery Privileged User Controls Auditing and Reporting Configuration Management ORACLE ORACLE® **ORACLE** MySQL SYBASE^{*} IRM Microsoft[®]

CLOUD IDENTITY MANAGEMENT



SECURE DATABASES IN THE CLOUD

CENTRALIZE DATA AND SECURE AT THE SOURCE



- **Multi-Tenancy**
- Shared database pool
- Managed in the cloud
- Consistent & efficient
- Eliminates data silo complexity
- Better security & lower cost











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