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Accelerate Innovation

# Cloud Security : 클라우드를 안전하게 사용하기 위한 사용자 보안 파헤치기


정진용 상무

Asia Pacific InfoSec Director

Cloud Pursuit Team


January 19, 2017

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# Program Agenda

1. 클라우드 보안 범위
2. 종합적인 클라우드 보안 영역
3. Hybrid 중심의 오라클 클라우드 보안
4. Identity 중심의 Security Operation Center
5. Demo


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# 클라우드 보안 범위

Devices & Things

Users

Content

Applications

Infrastructure

**Customer**

**Cloud Service Providers**

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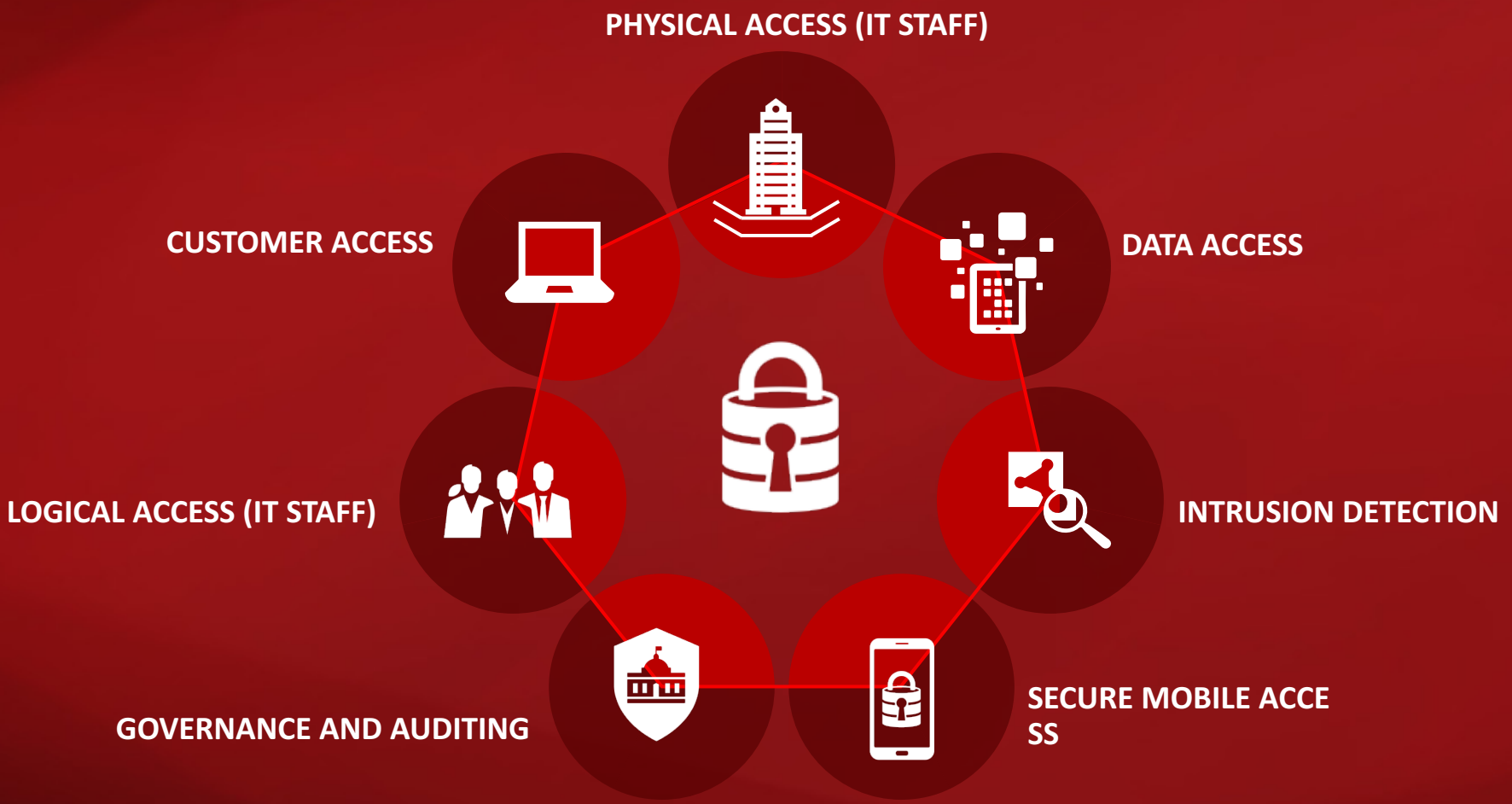
# 종합적인 클라우드 보안 영역

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# 종합적인 클라우드 보안 영역

**PHYSICAL ACCESS (IT STAFF)**

Access card | Biometric scanner | Video surveillance | Man traps | Security zones

**CUSTOMER ACCESS**

TLS for HTTP, FTP encrypt | IP Address filtering | IPSec VPN

**DATA ACCESS**

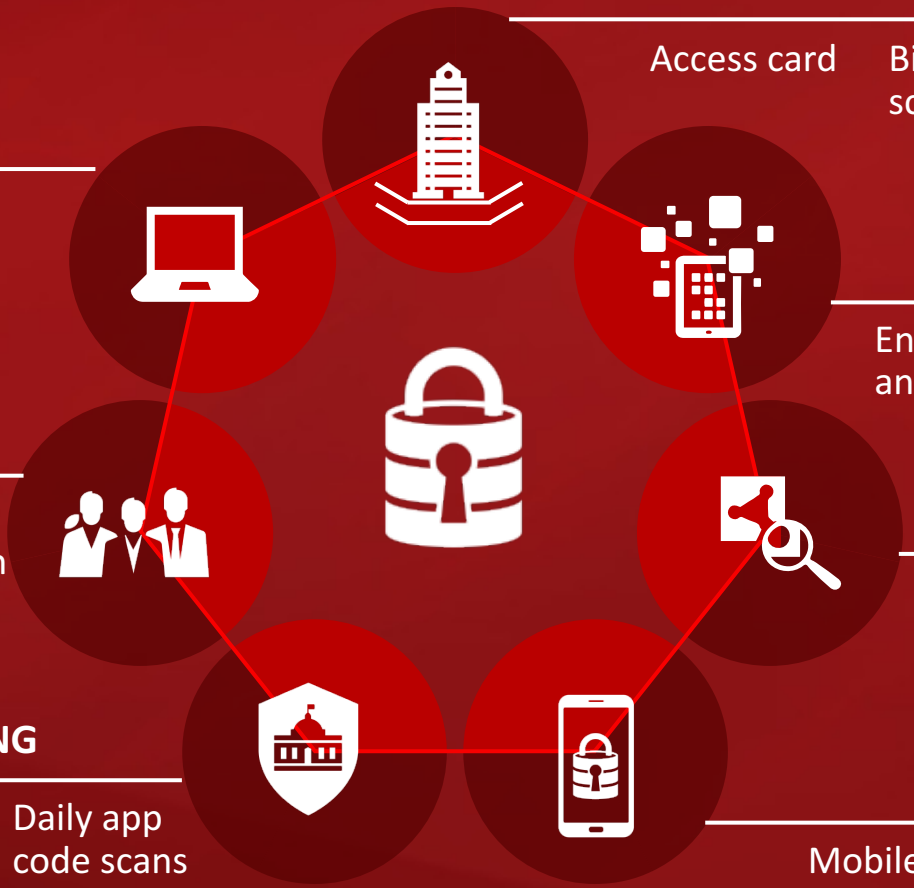
Encryption and redaction | Segregation of duties | Data masking

**LOGICAL ACCESS (IT STAFF)**

Desktop encryption | Antivirus/ antispam | Personal firewalls | VPN + 2 factor auth

**INTRUSION DETECTION**

Infrastructure Monitoring | SIEM | Network security



**GOVERNANCE AND AUDITING**

Daily scans | Patch and versioning | Access reviews | Daily app code scans

**MOBILE SECURITY**

Mobile device management | Application management | Content management | Secure identity

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# Security DNA in Oracle Cloud

27M+ User identities managed weekly

56,000+ Cloud tenants

45+ Billion Transactions per day

## Secure by Default

Data isolation

Default encryption

Oracle admin user controls

1,600+ Cloud ops experts trained on security best practices

Oracle-only badged employees worldwide

ORACLE® Worldwide Top 20 Brand



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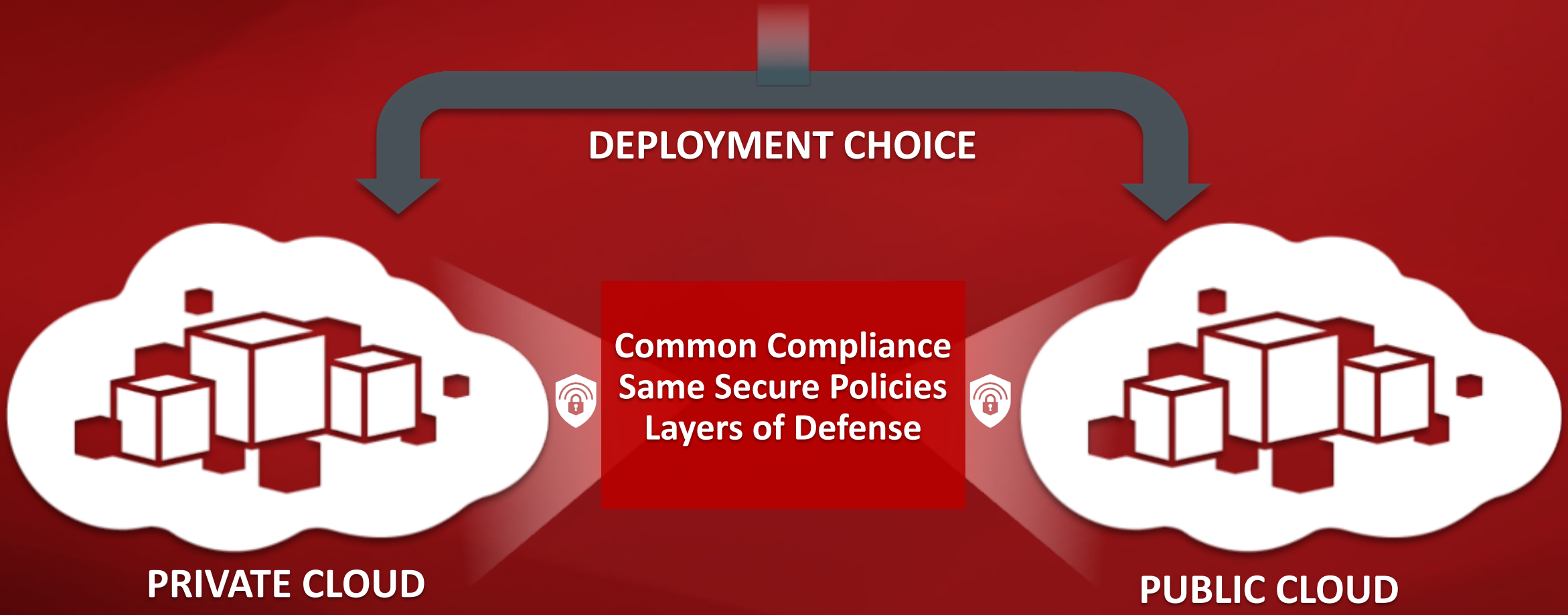
# Hybrid 중심의 오라클 클라우드 보안 – Hybrid Cloud

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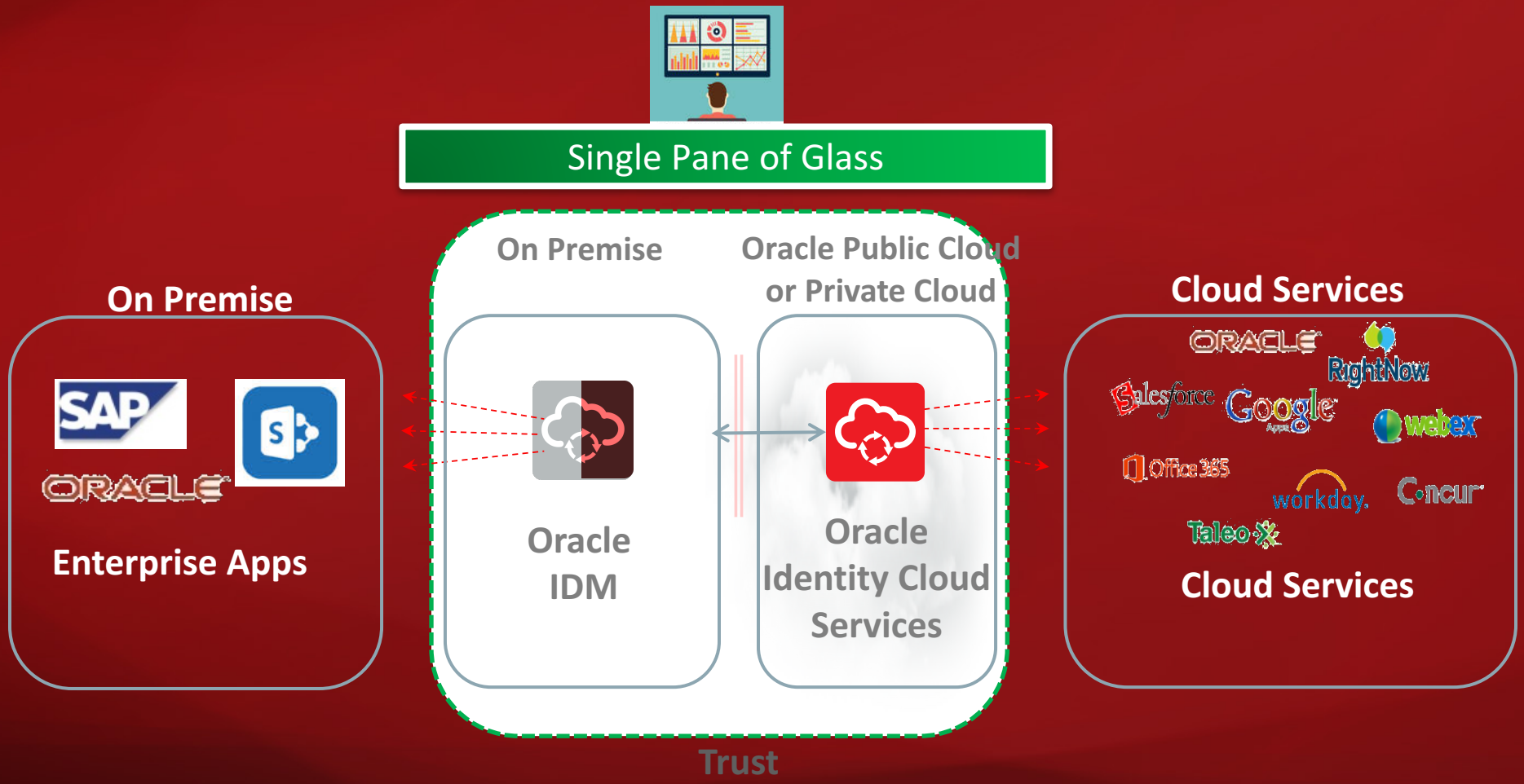
# Hybrid 중심의 오라클 클라우드 보안 - OP & Cloud 부분

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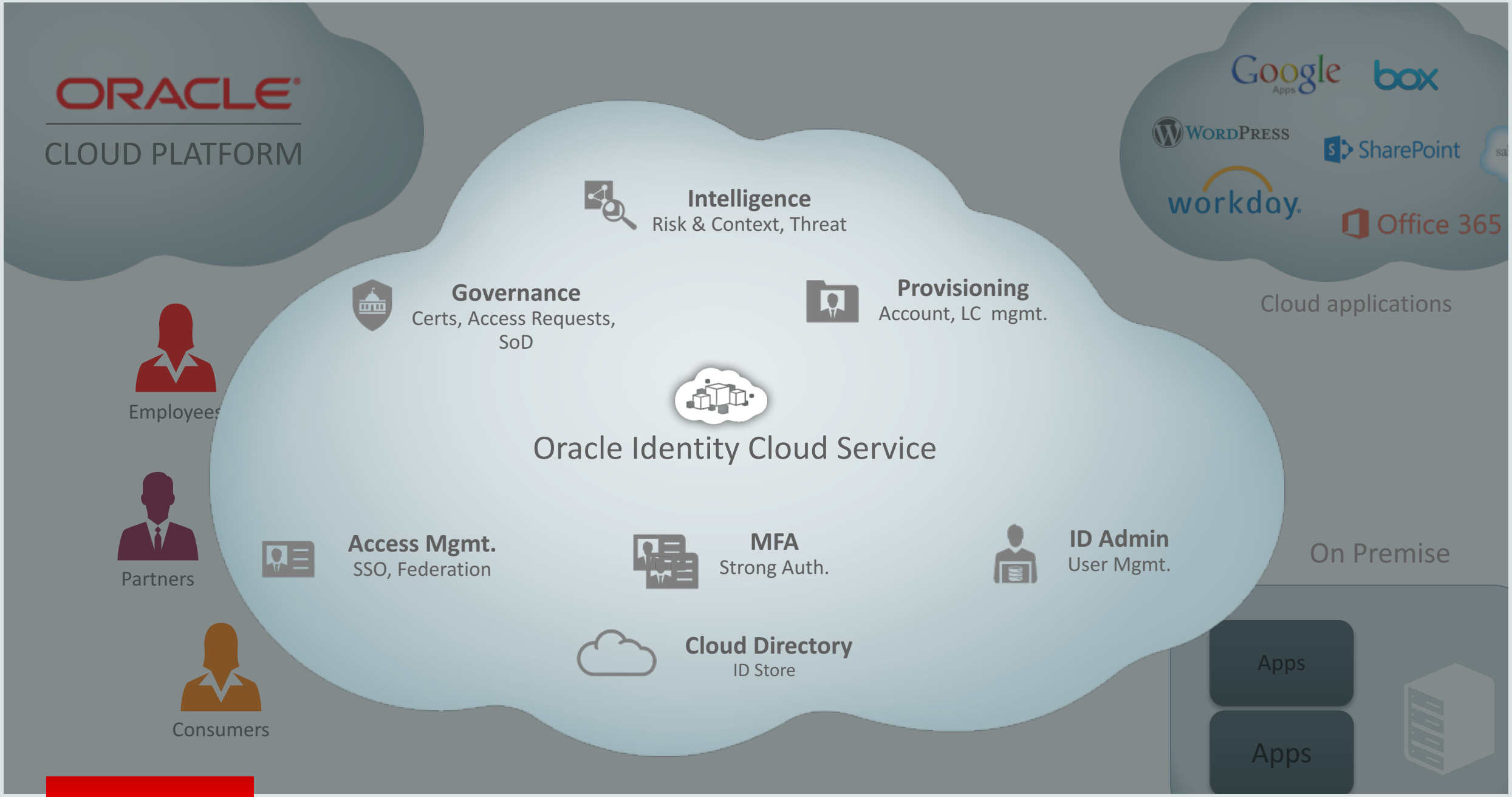
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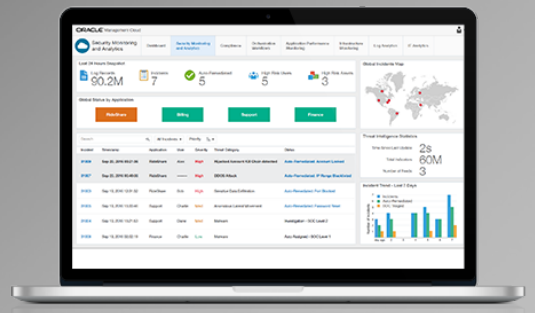
CLOUD PLATFORM
Intelligence
Risk & Context, Threat
Governance
Certs, Access Requests, SoD
Provisioning
Account, LC mgmt.
Oracle Identity Cloud Service
Access Mgmt.
SSO, Federation
MFA
Strong Auth.
ID Admin
User Mgmt.
Cloud Directory
ID Store
Google Apps
box
WordPress
SharePoint
workday.
Office 365
Cloud applications
Employees
Partners
Consumers
On Premise
Apps
Apps

# Identity 중심의 Security Operation Center

Security Monitoring and Analytics Cloud Service



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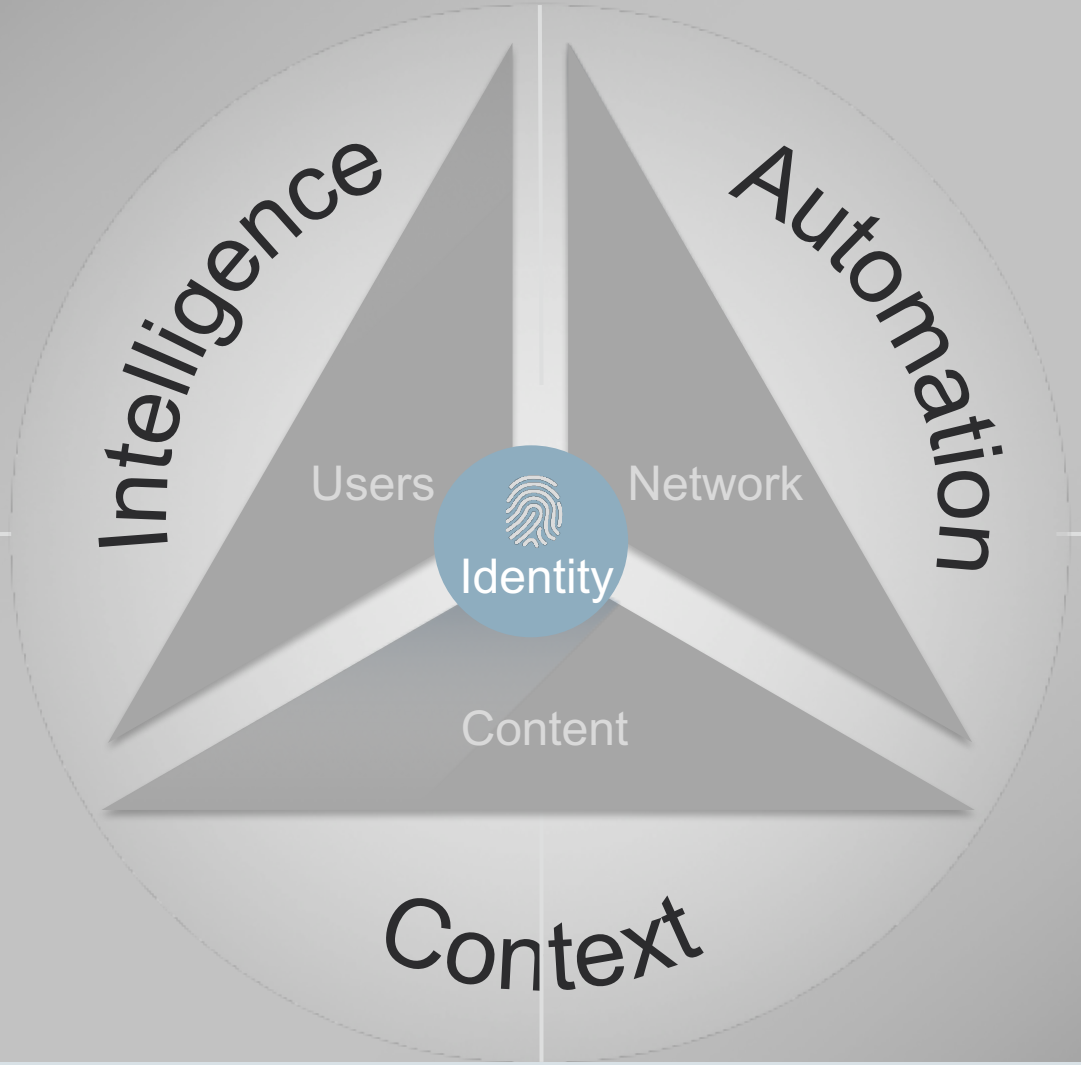


User & Entity Behavior Analytics

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Identity Cloud Service

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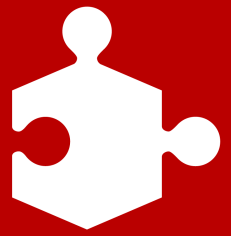
# Why Oracle?

종합적인 클라우드 보안 서비스



하이브리드 / 이기종 환경에 대한 중앙화된 보안 정책, 분석, 리포트 제공

보안 모니터링을 통해 사용자 중심의 사고 대응 제어

| | |
|---|---|
| 사용자 | 어플리케이션 & API |
| 컨텐츠 & 데이터 | 인프라 |

머신 런닝 기반 지능적인 클라우드 보안 서비스

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# Security Information and Event Management

Single pane of glass for on premises and cloud

Early detection of known and unknown threats

Combines application context with traditional event analysis

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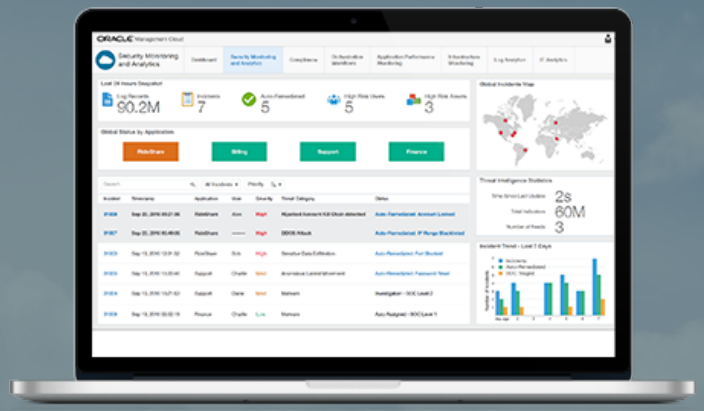
Security Monitoring and Analytics Cloud Service



Predict | Prevent

Respond | Detect

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# Cloud Access Security Broker

Granulated visibility across IaaS, SaaS, and PaaS

Full security automation to predict, prevent, detect, and respond

Intelligent analytics and dynamic decision-making capabilities

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Predict

Prevent

Respond

Detect

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# User and Entity Behavior Analytics

Deep learning of user behavior for isolation and remediation

Alerts on norm-deviations and suspicious access patterns

Quantify user risk scores over time to expedite forensics

Predict | Prevent

Respond | Detect

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# Identity Management

Comprehensive user context

Step-up authentication

Reduce mean-time to incident resolution

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Identity Cloud Service

Predict

Prevent

Respond

Detect

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# Integrated Cloud

## Applications & Platform Services

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