



ORACLE®

Andiamo in Cloud con Sicurezza

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Oracle Community For Security



Di cosa vi parleremo oggi ?



Come sono cambiati i requisiti di sicurezza con l'adozione delle architetture Cloud

Quali le tecnologie disponibili per indirizzare i nuovi requisiti



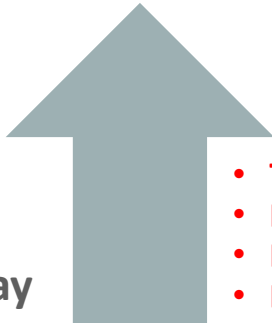
Premessa

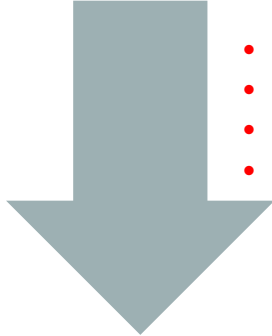


- l'adozione di soluzioni in Cloud rappresenta oggi un **trend in costante e rapida crescita**
- favorisce l'**accesso** e l'utilizzo di servizi e applicazioni **da qualsiasi luogo**
- fruibilità dei servizi e applicazioni attraverso una **pluralità di dispositivi** sempre maggiore e in evoluzione rispetto al recente passato
- Il **79% delle organizzazioni** hanno già attivato un piano di **migrazione verso il Cloud** (*Crowd Research Partner*)

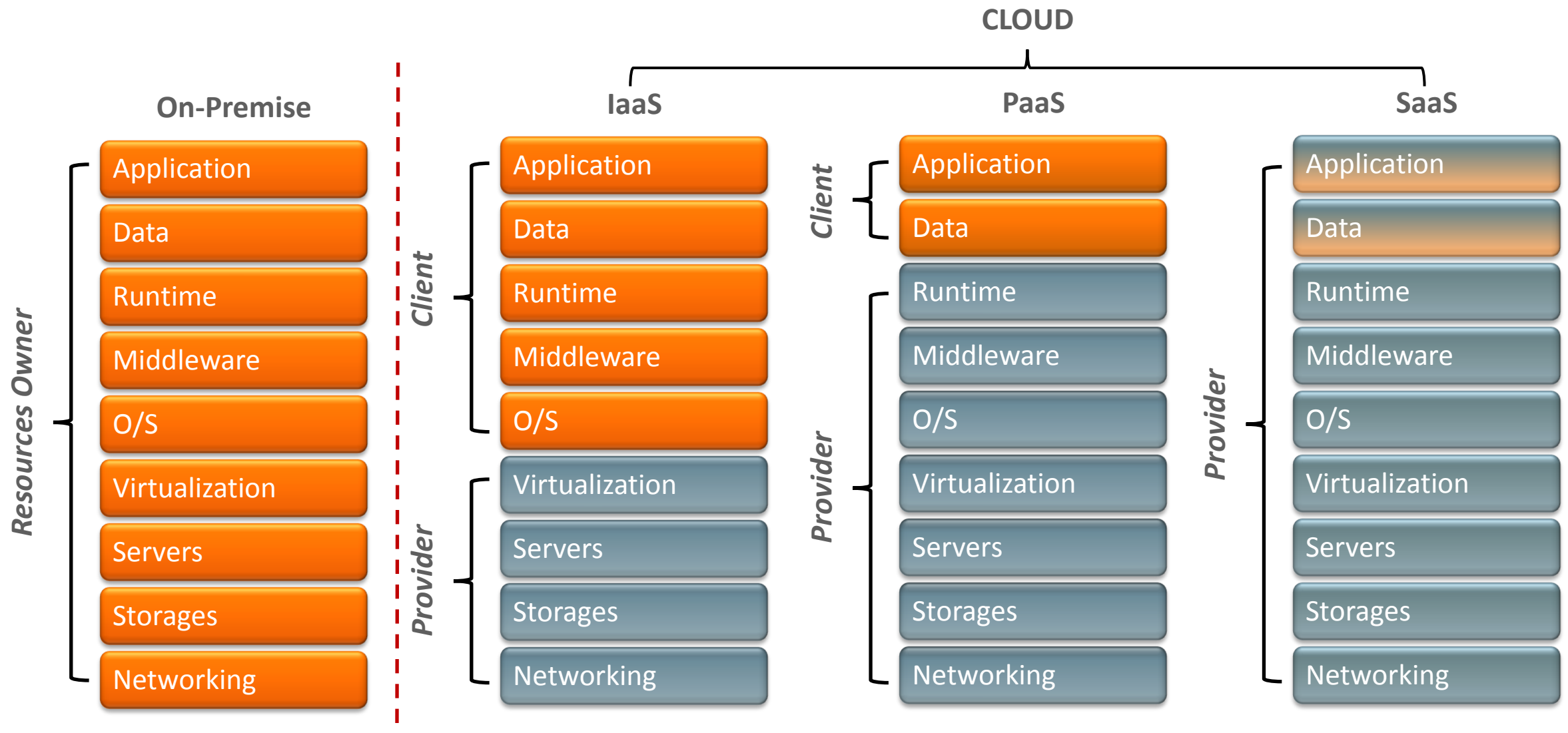
Gartner:

- **by 2020** a Corporate "**No-Cloud**" Policy will be as **rare as a "No-Internet" Policy is today**
- **by 2020** "Cloud Shift" will affect more than **\$1 Trillion** in **IT Spending**
- **Hybrid** will be the most **common use** of the Cloud

- 
- **Time To Market**
 - **Maggiore efficienza**
 - **Maggiore flessibilità**
 - **Deployment veloci**

- 
- **Riduzione costi manutenzione IT**
 - **Riduzione dei "Capital Costs"**
 - **Riduzione dei "Opportunity Cost"**
 - **Riduzione rischi di backup & recovery**

Le Responsabilità in una nuova era dell'IT



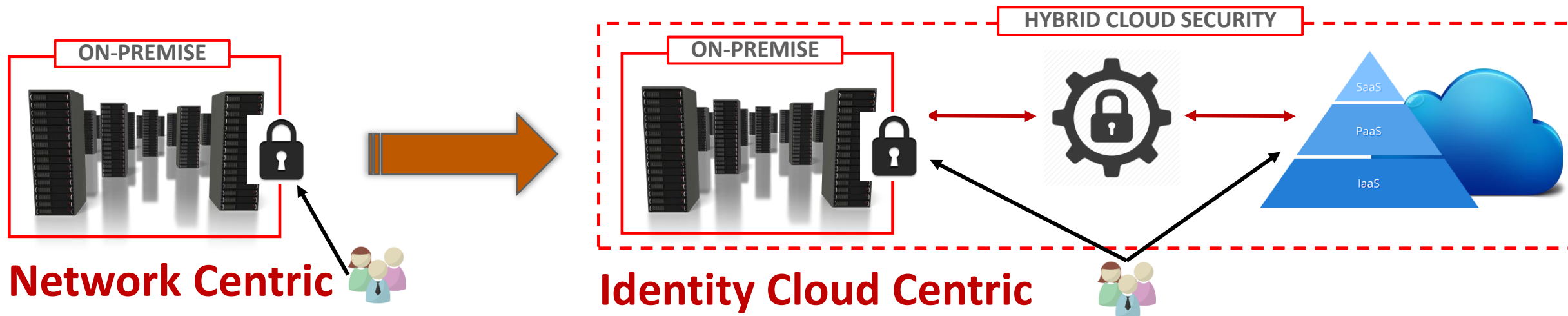
La Sicurezza in una nuova era dell'IT

Le organizzazioni devono fornire un **accesso sicuro ai sistemi IaaS e on-premise**, senza impedire la produttività, sia di business che in termini di operatività IT.

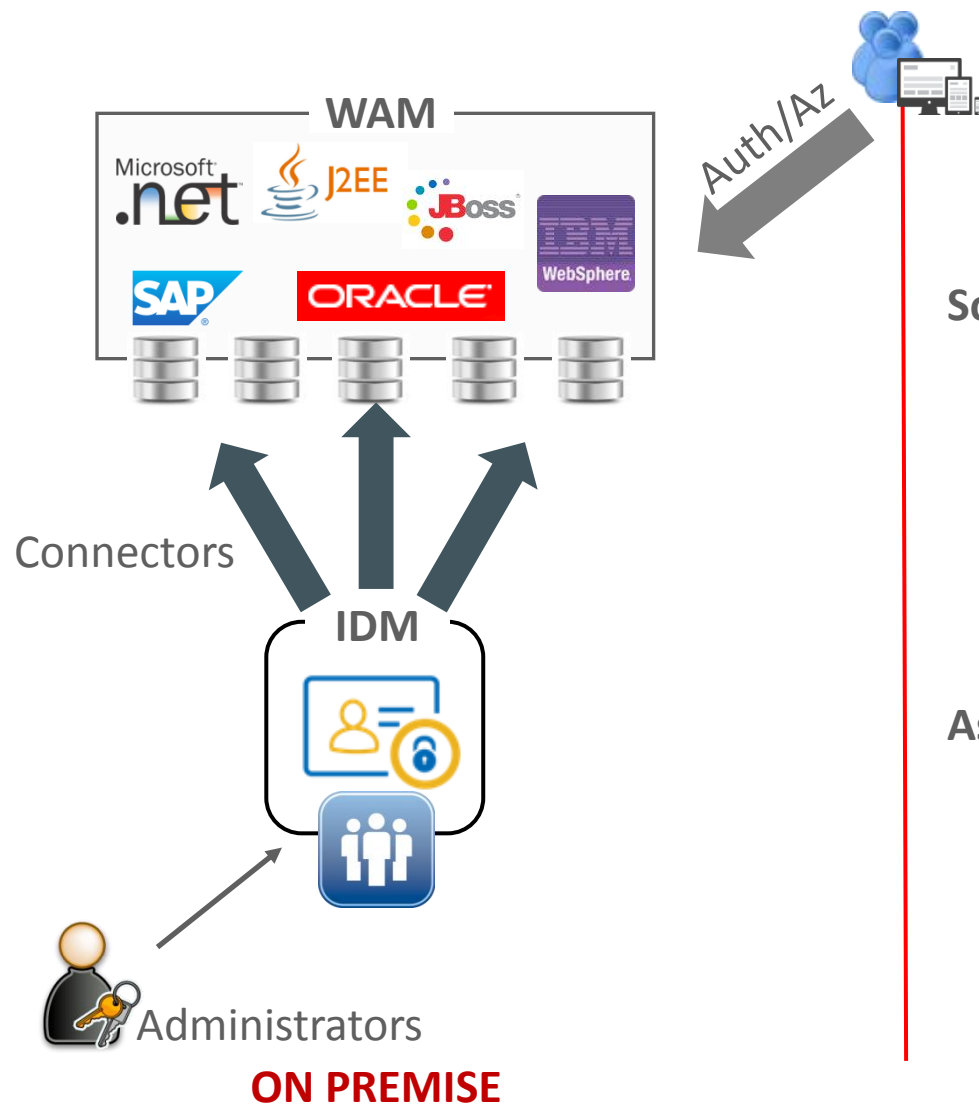
Oggi, il personale IT e i relativi referenti di Sicurezza di un'azienda, sono consapevoli che le moderne architetture Cloud o Hybrid, presentano **requisiti di accesso e di sicurezza diversi dai tradizionali sistemi on-premise**.

Tali requisiti oggi **non possono essere completamente soddisfatti basandosi solo su strumenti tradizionali** o solamente implementando le best practices indicate dal Vendor IaaS.

Le nuove architetture devono prevedere l'introduzione di una piattaforma di sicurezza che possa **controllare tutto il perimetro IT**: dall'on-premise ai servizi in Cloud adottati dall'organizzazione.



Architetture tradizionali “Pre Cloud”



Soluzioni IAM (IDM+WAM) on-premise

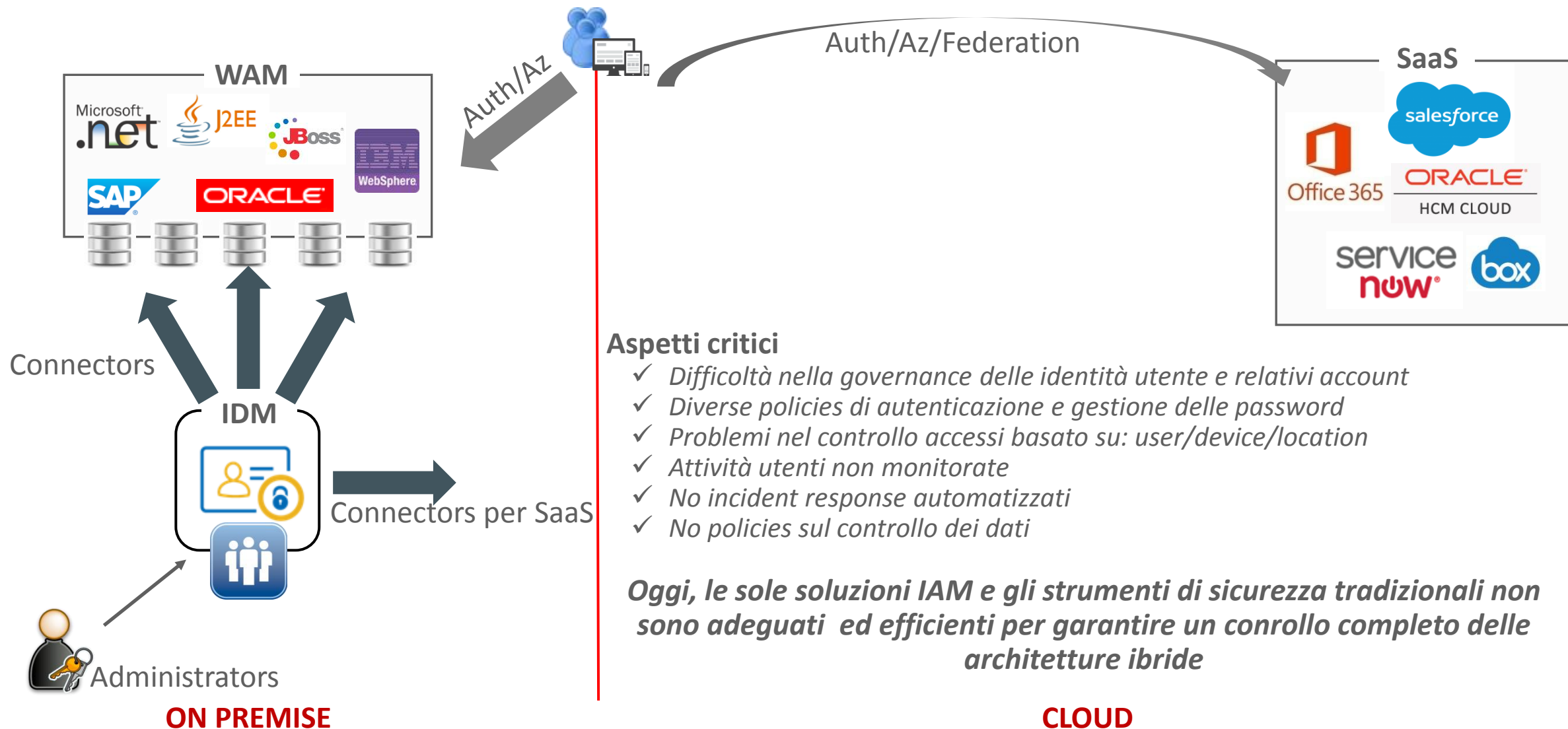
- ✓ Provisioning/De-provisioning/Riconciliazione
- ✓ Attestation
- ✓ Self Service Request
- ✓ Authentication & Authorization
- ✓ Multifactor/Strong Authentication
- ✓ Single Sign On
- ✓ Federation

Aspetti critici

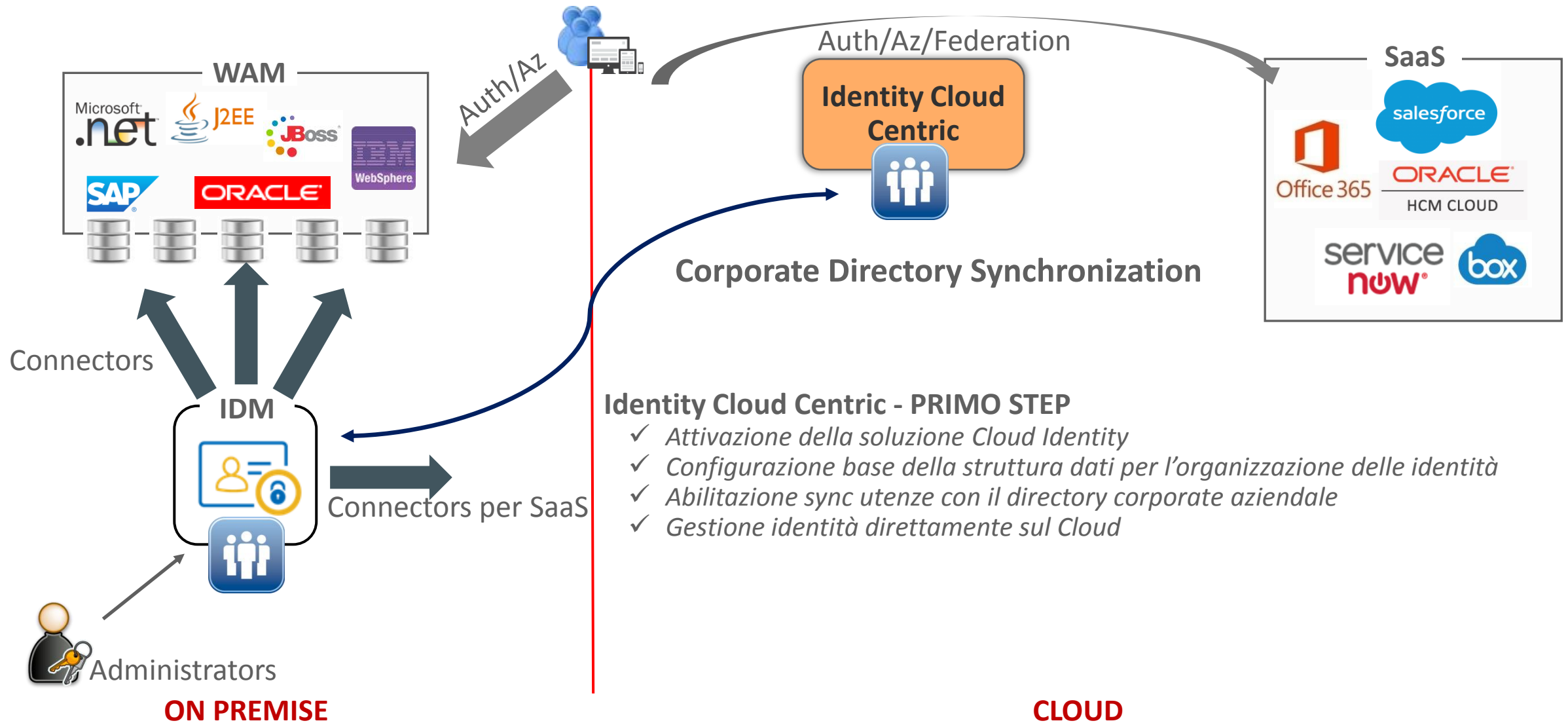
- ✓ Costi per il setup HW & SW
- ✓ Opportunity Cost
- ✓ Capex Cost
- ✓ Progettazione per l'avviamento
- ✓ Maintenance
- ✓ Time to Market lunghi

CLOUD

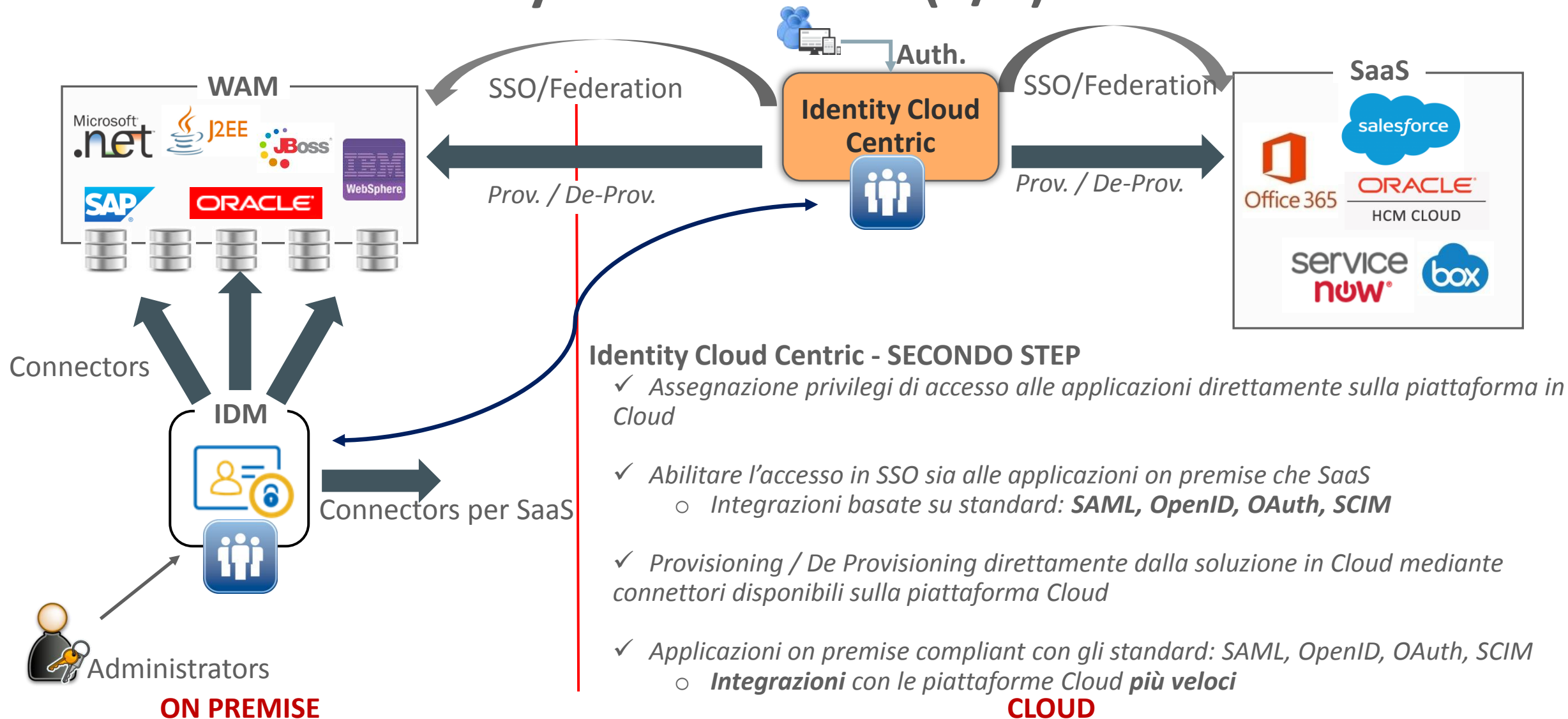
Architetture attuali “Hybrid Cloud”



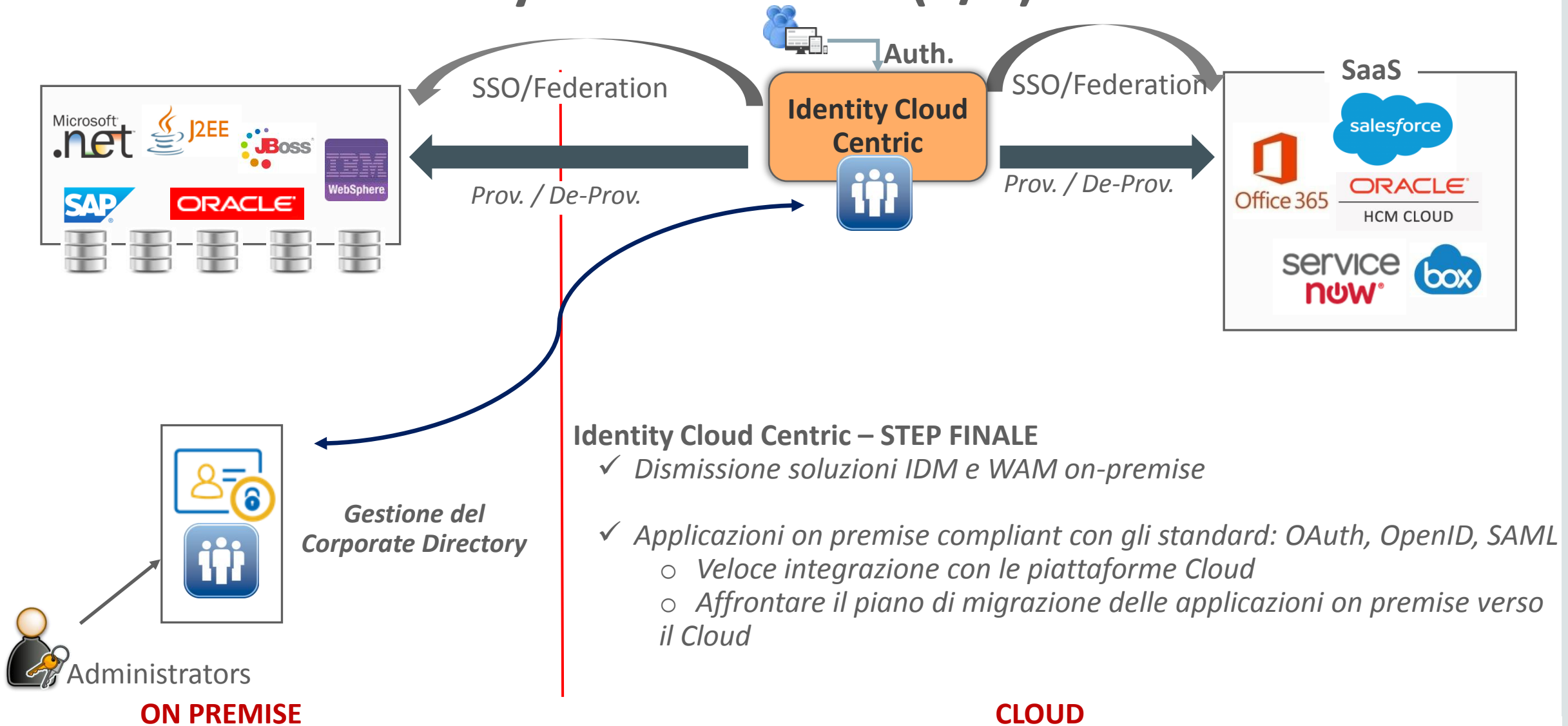
Architetture Identity Cloud Centric (1/3)



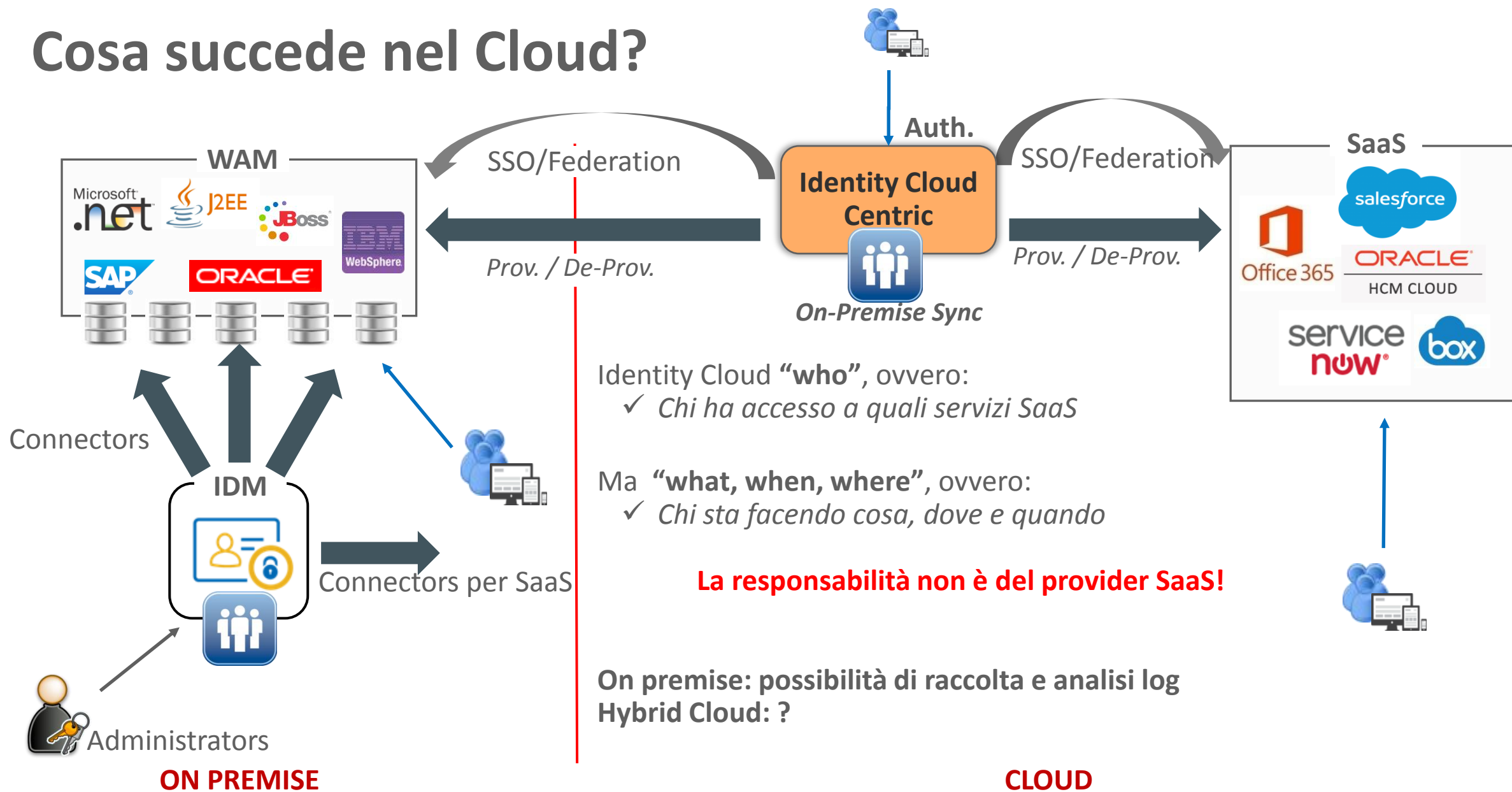
Architetture Identity Cloud Centric (2/3)



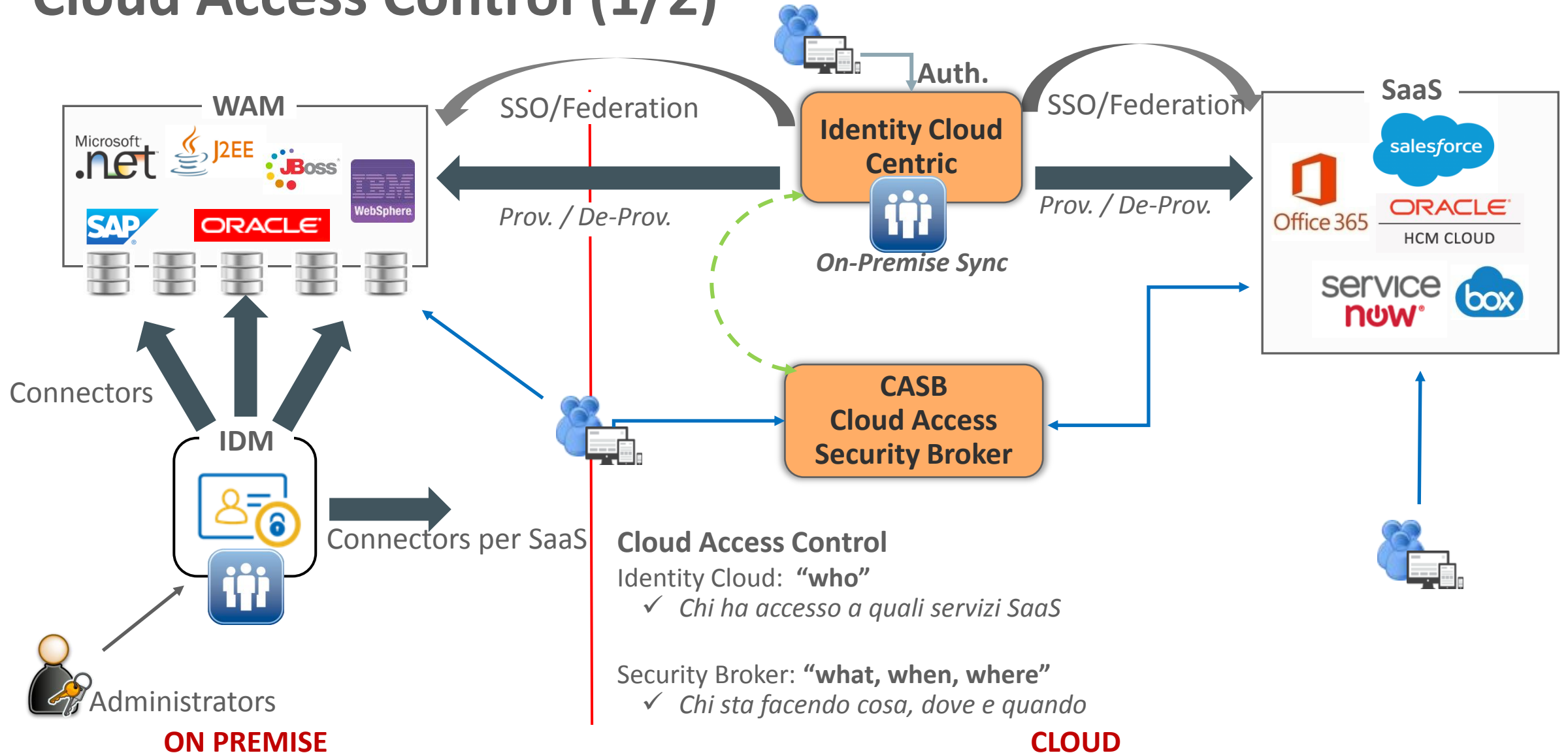
Architetture Identity Cloud Centric (3/3)



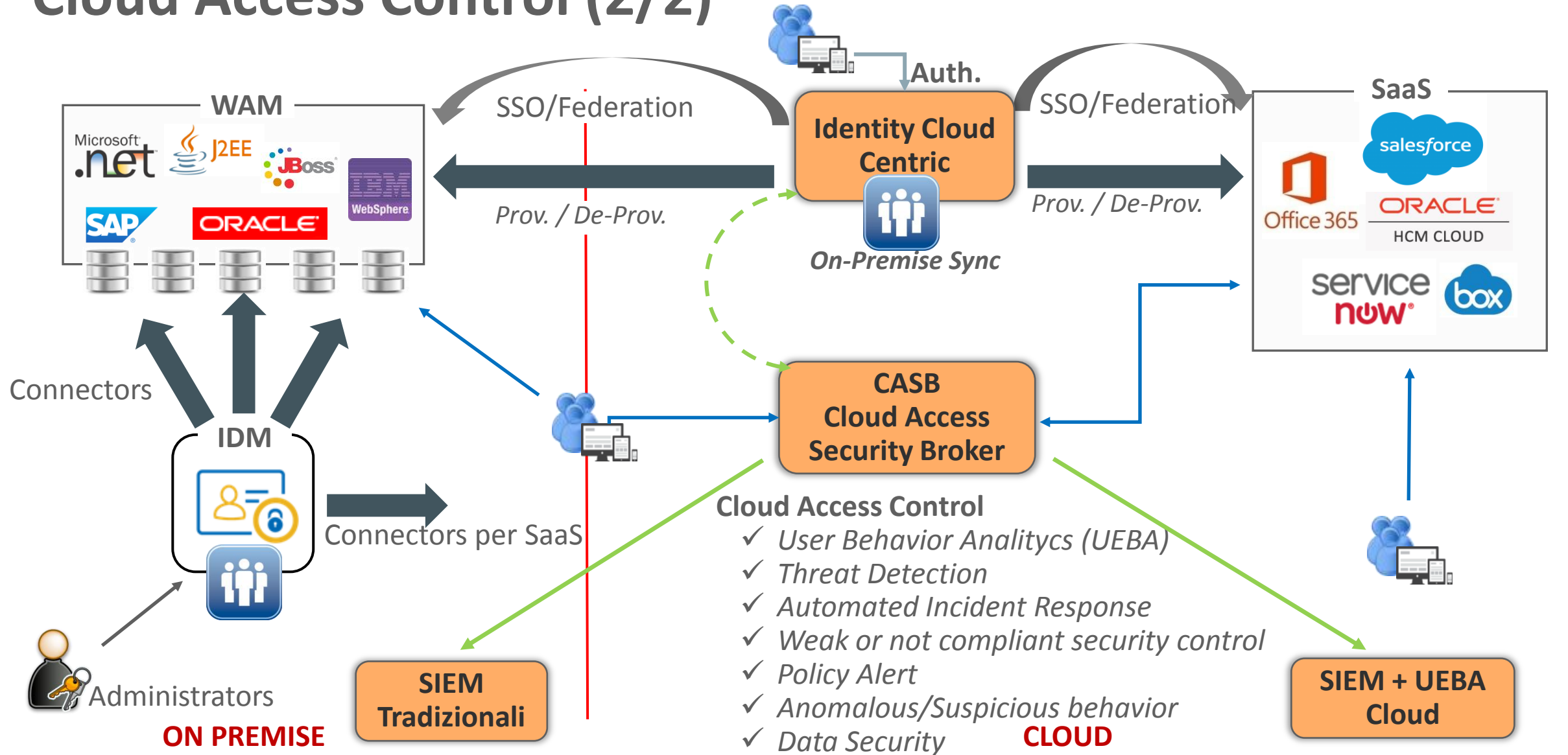
Cosa succede nel Cloud?



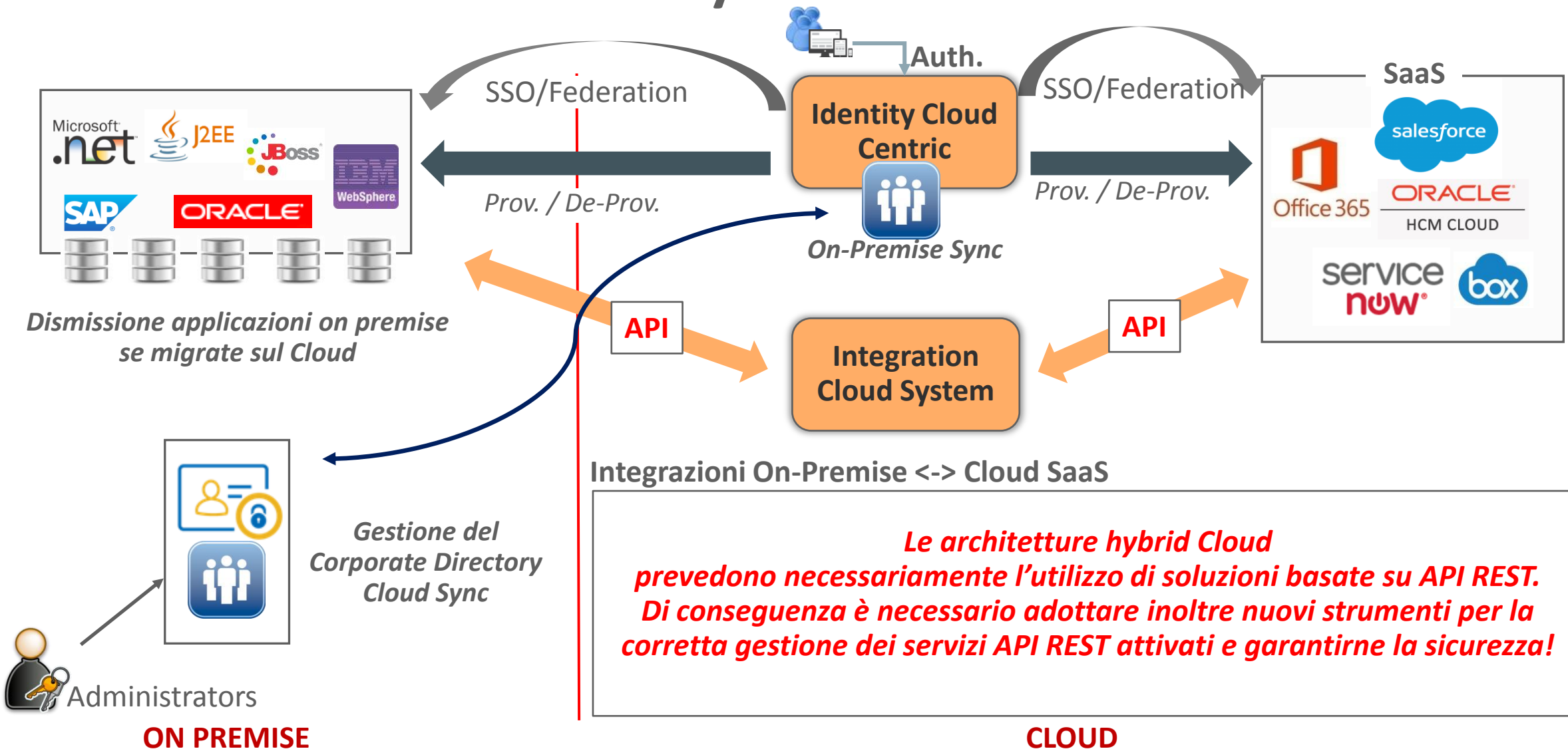
Cloud Access Control (1/2)



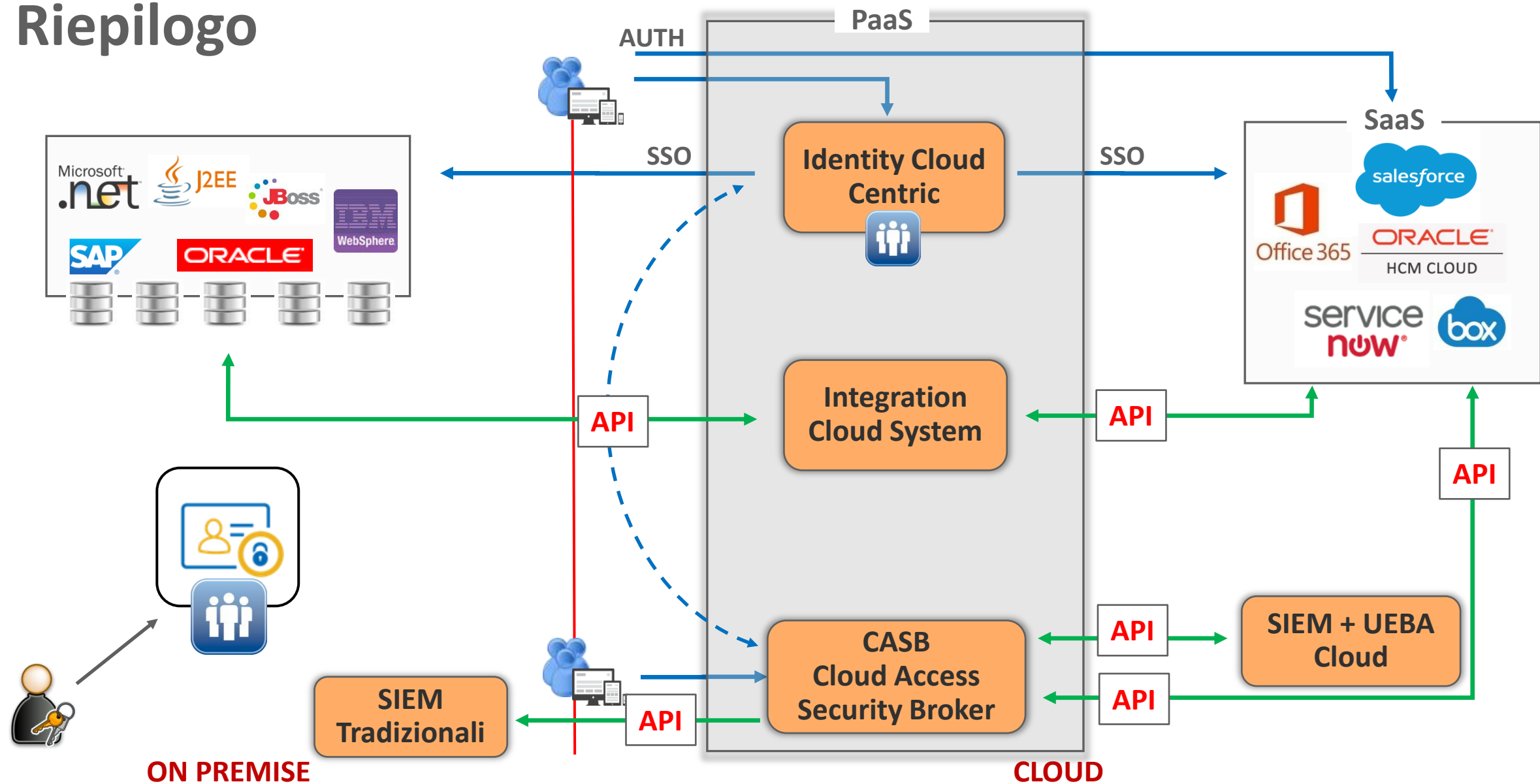
Cloud Access Control (2/2)



Estensione architettura “Hybrid Cloud”



Riepilogo



Safe Harbor Statement

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.

Security Gaps Are Widening

Growing
Threat
Sophistication

+

Shrinking
Visibility

+

Accelerated
Change

+

Overwhelmed
SOC

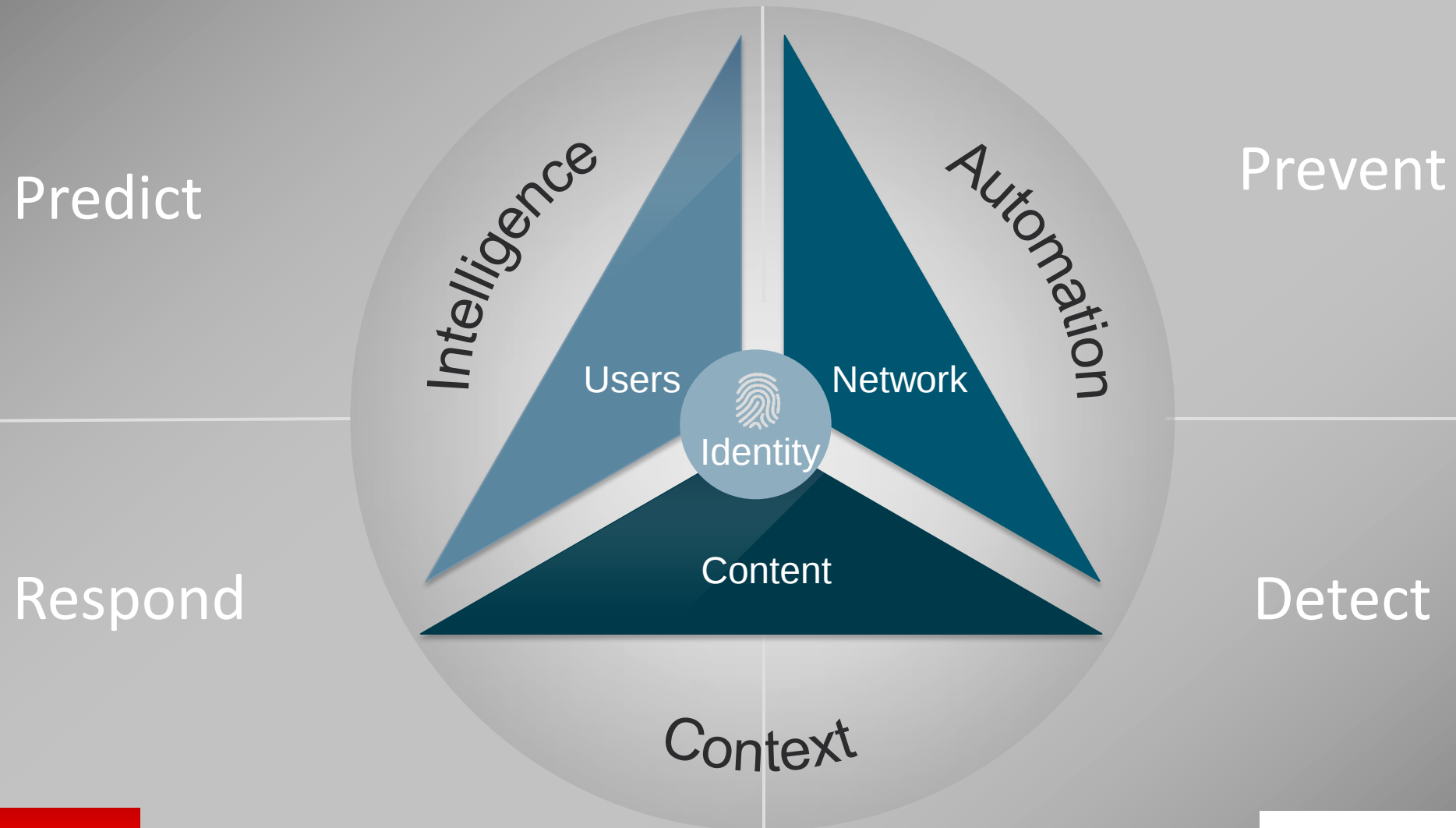
- ! New and unknown vectors
- ! Low & slow, multi-stage threats
- ! Targeted attacks

- ! Cloud adoption, shadow IT
- ! BYOD, unmanaged devices
- ! "Identity" - the only remaining perimeter

- ! Continuous integration/delivery
- ! Higher risk of mis-configuration
- ! Shrinking detection windows

- ! More things to monitor
- ! More tools, more alerts
- ! Staffing shortages

Security Intelligence Delivered with Identity



Identity SOC Technologies



Oracle Identity SOC Solution



One-Stop SOC Dashboard



Security Monitoring & Analytics + Compliance Cloud Services

Content Security

CASB
Cloud Service



User Security

Identity
Cloud Service



Services Security

API Platform
Cloud Service



Security Posture

Applications, data and user activity analytics, threat intelligence, and compliance

Automated Incident Response & Remediation
(Orchestration Cloud Service)

Identity Cloud Service



Modern App Security

Centralized authentication, authorization, user management and self-service based on latest open standards for rapid integration of applications

Hybrid Identity

Manage user identities for both cloud and on-premises applications with enterprise-grade hybrid deployments

Secure Defense In-depth

Gain layers of defense with Identity hosted as an Oracle Public Cloud (OPC) service, integrated with cloud security fabric and implementing behavioral authentication for application access control



ORACLE[®]

CLOUD PLATFORM



Employees



Partners



Consumers



Multi Factor Auth
Strong Auth.



Intelligence
Risk & Context, Threat



Provisioning
Account, LC mgmt.



Oracle Identity Cloud Service



Access Mgmt.
SSO, Federation



Governance
Certs, Access Requests,
SoD



ID Admin
User Mgmt.



Cloud Directory
ID Store



Cloud applications

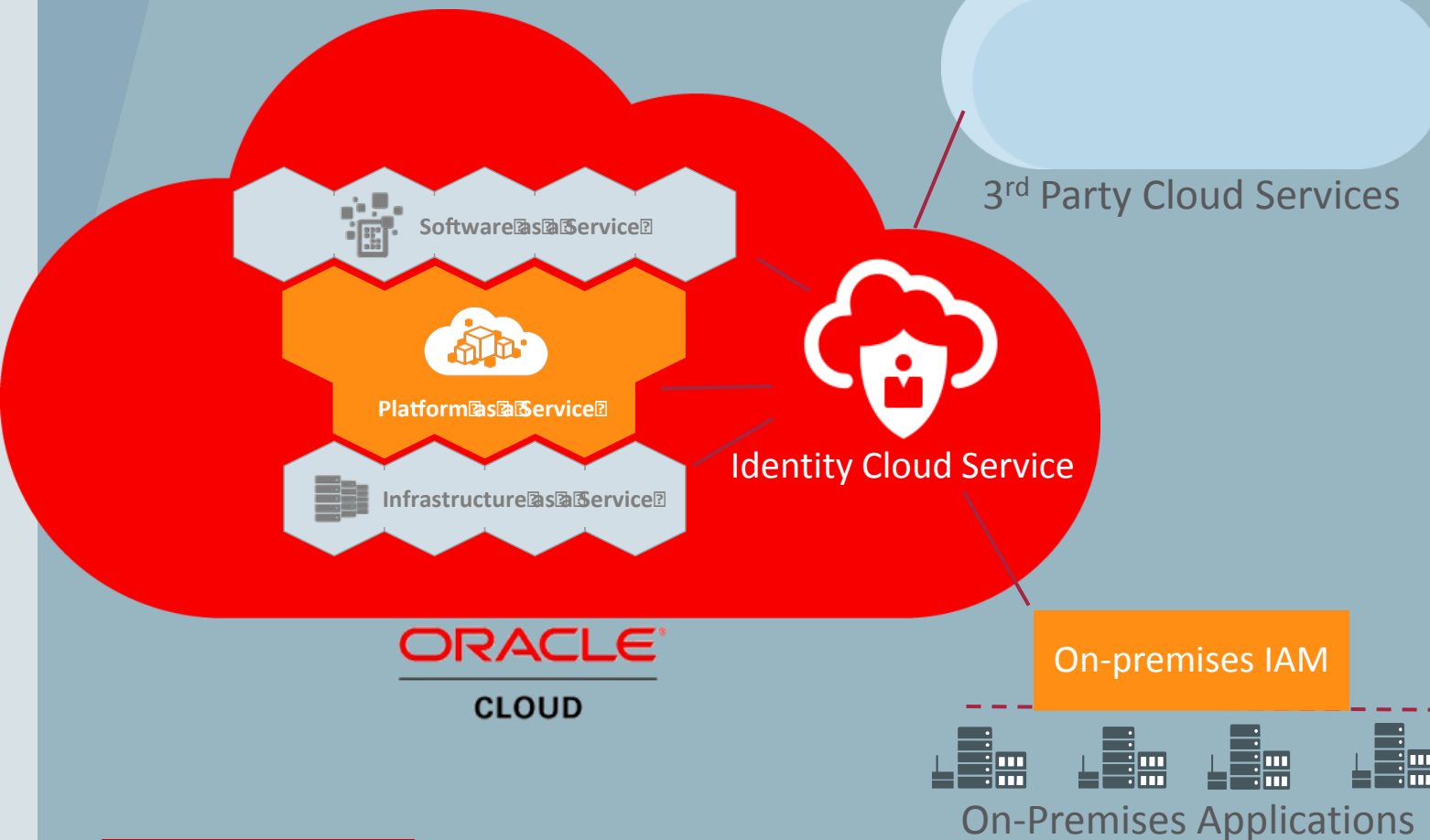
On Premises

Apps

Apps



Identity Cloud Service



- Cloud-Native Multi-tenant platform on the Oracle Cloud
- Manage Users
 - Sync identities, SSO, Federation
- Manage Applications
 - Integrate using open standards
- Manage Policies
 - Protect Applications using strong access control policies

CASB Cloud Service



Discover

Continuous visibility into cloud risk covering sanctioned and unsanctioned SaaS, PaaS, and custom applications on IaaS

Secure

Automated controls covering users, data, content, applications, settings, and infrastructure with actionable intelligence

Monitor

Continuous monitoring of user activity and security configurations identifying threats and compliance risks

Respond

Automate incident management and remediation through native features as well as integration with existing solutions



Securing Clouds: IaaS PaaS SaaS

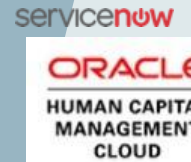
CASB CS

- Visibility
- Compliance
- Data Security
- Threat Protection

My mission-critical apps need deep monitoring and governance!



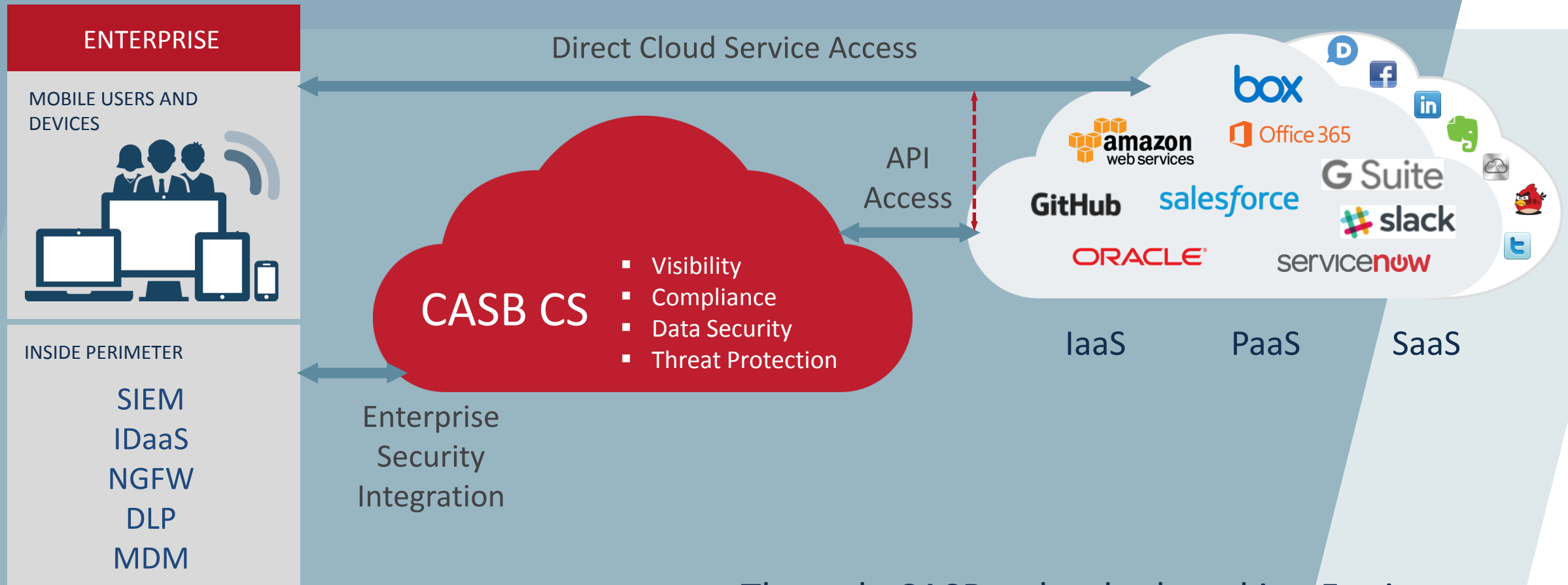
Custom apps
in AWS



I need broad visibility into all apps in use!



CASB Cloud Service



The only CASB to be deployed in <5 minutes

API Platform Cloud Service



Build - Create APIs on top of existing services to enable access to data formerly locked inside your legacy apps and data stores.

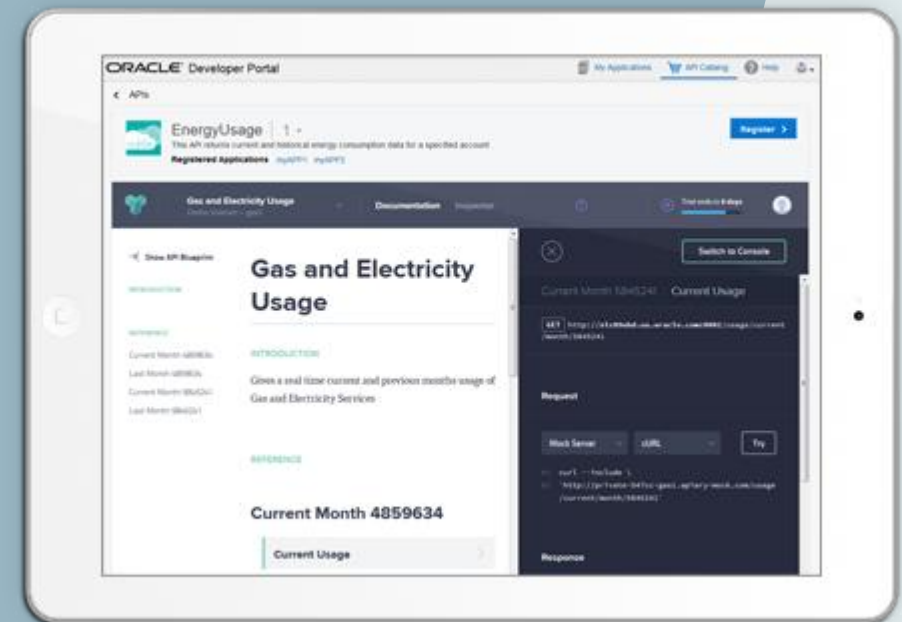
Secure – Assign standard security & threat protection to APIs with no coding, including OAuth 2.0, IP filtering, and rate limiting.

Deploy - Choose Cloud or on-premises gateway deployment with the ease of a single-click.

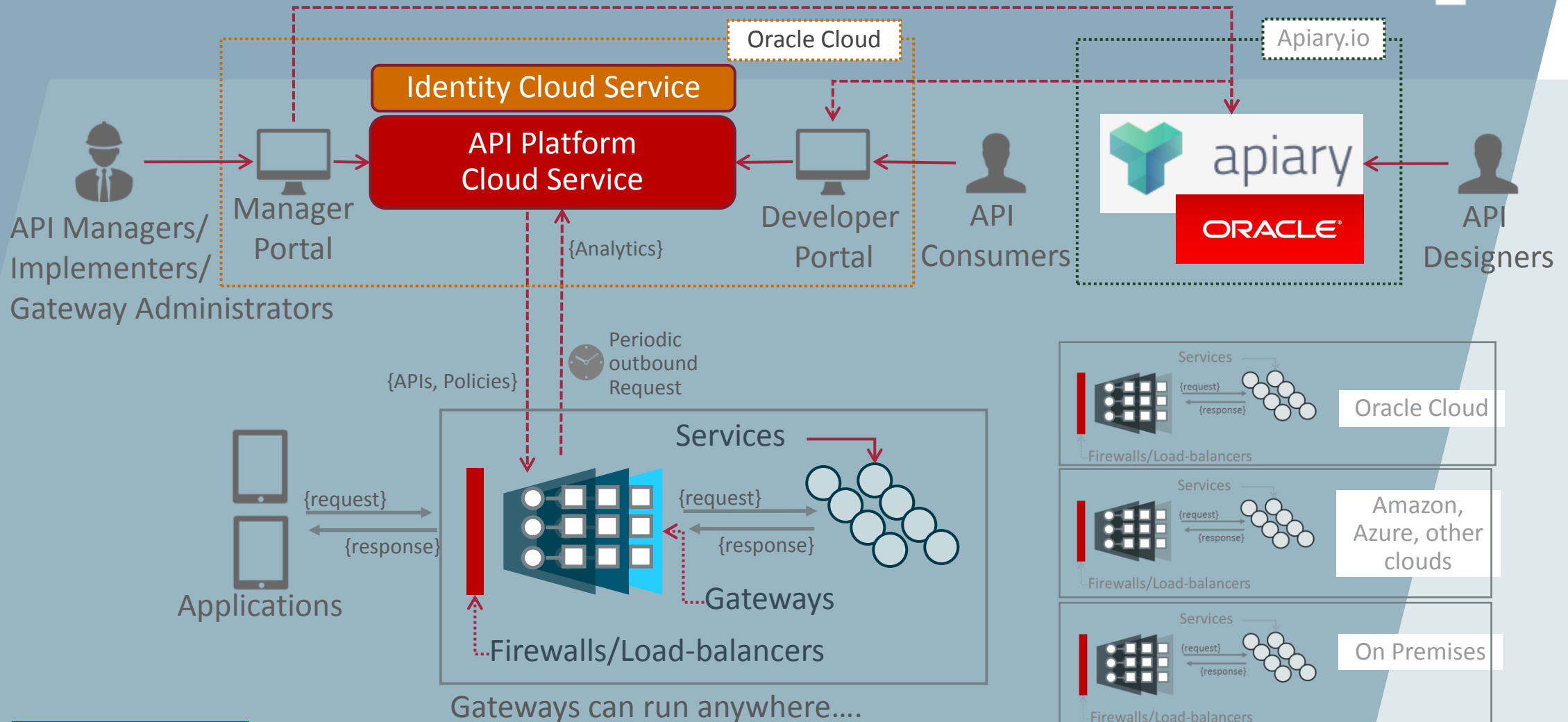
Publish - Browse a comprehensive list of proven APIs from Oracle, the community, and your own organization.

Consume - Register third-party apps easily to allow them the same seamless API utilization as pre-loaded Oracle SaaS APIs.

Monitor - View operational API metrics on a single dashboard to take action quickly.

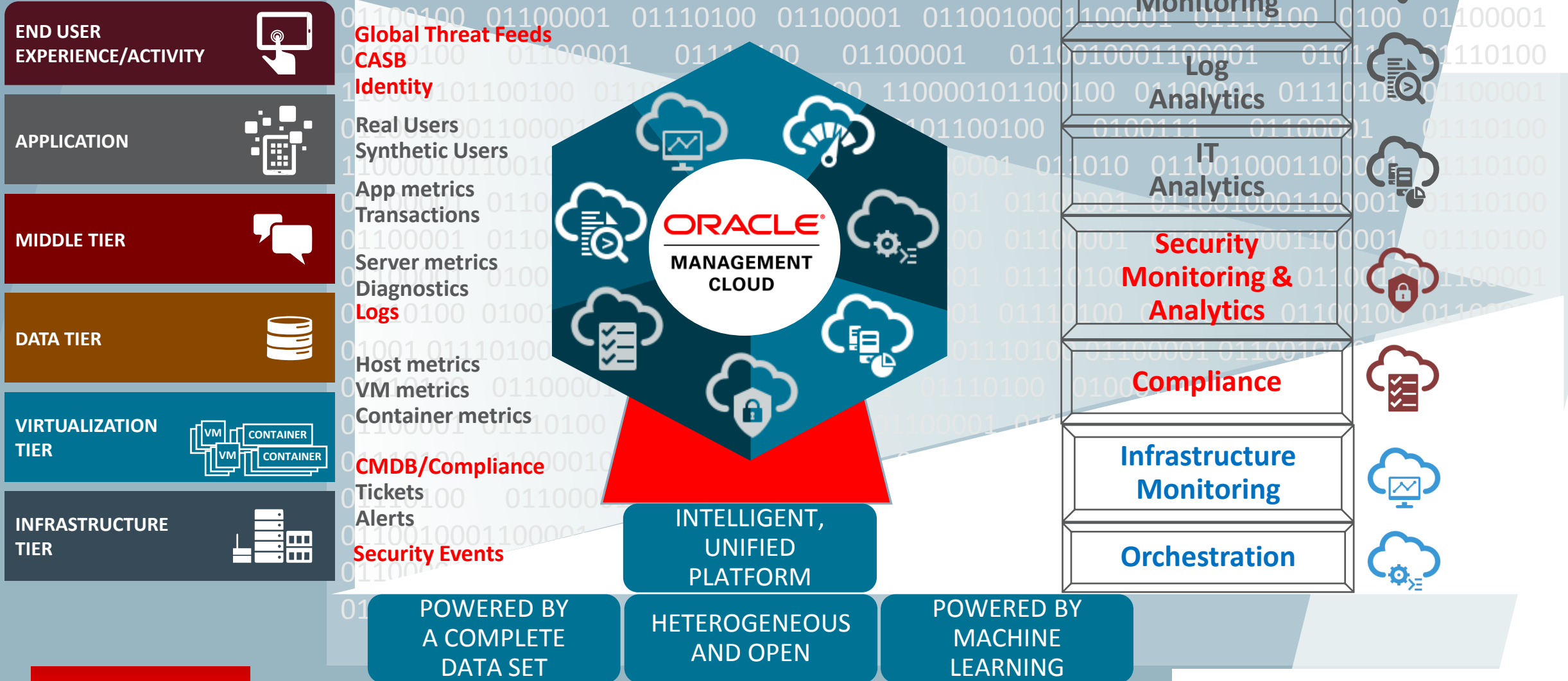


API Platform Cloud Service



Oracle Management Cloud

cloud.oracle.com



Security Monitoring and Analytics Cloud Service



Comprehensive Detection

Any log, any intelligence feed, any metric, any location (on-premises or cloud) using machine learning driven analytics and visualization

Rapid Investigation

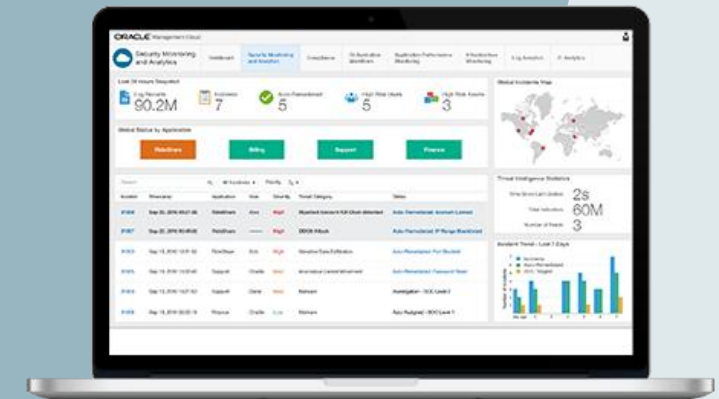
Intuitive visualization of threats and early warning signs

Intelligent Remediation

Powerful auto-remediation framework for any IT stack

Faster Time to Value

Next-gen cloud service with SOC ready content



Compliance Cloud Service



Standards Based

Execute industry standard compliance benchmarks at cloud scale

Application & Cloud Aware

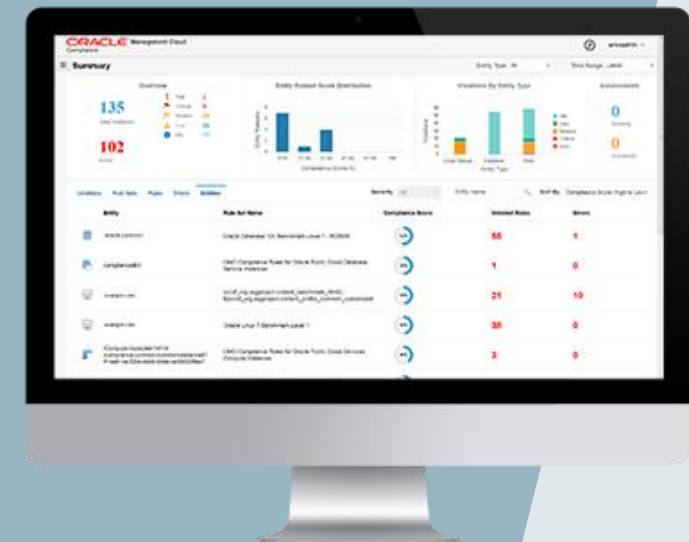
Assess compliance against infrastructure and applications stacks, on-premises or in the cloud

Efficient & Actionable

Quickly determine your enterprise compliance posture and remediate violations

Extensible

Execute custom scripts and enforce your organization's standards



Orchestration Cloud Service



Topology Aware Execution

Execute workflows on dynamic application topologies accurately without change.

Invoke scripts, web service endpoints or 3rd party automation frameworks

For Cloud as well as On-Premise

Integration

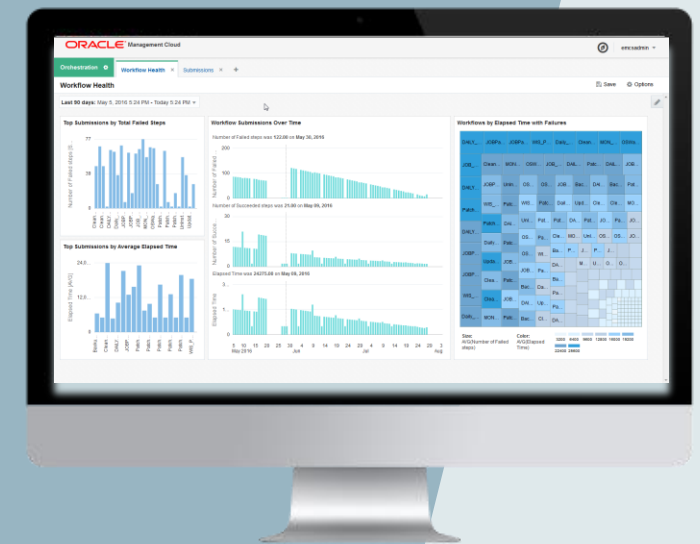
Flexible Workflow Log Retention and Powerful Analytics using built in Log Analytics integration

Enhances other OMC services by providing ability to take action

Pre-Built Dashboards

Role based dashboards for IT Operations and management

Build custom dashboards using UDE



Unified Data, Machine Learning: Better Security

Increased
Analysis +
Sophistication

Complete
Visibility

+

Managed
Change

+

Turbo-
charged
IdentitySOC

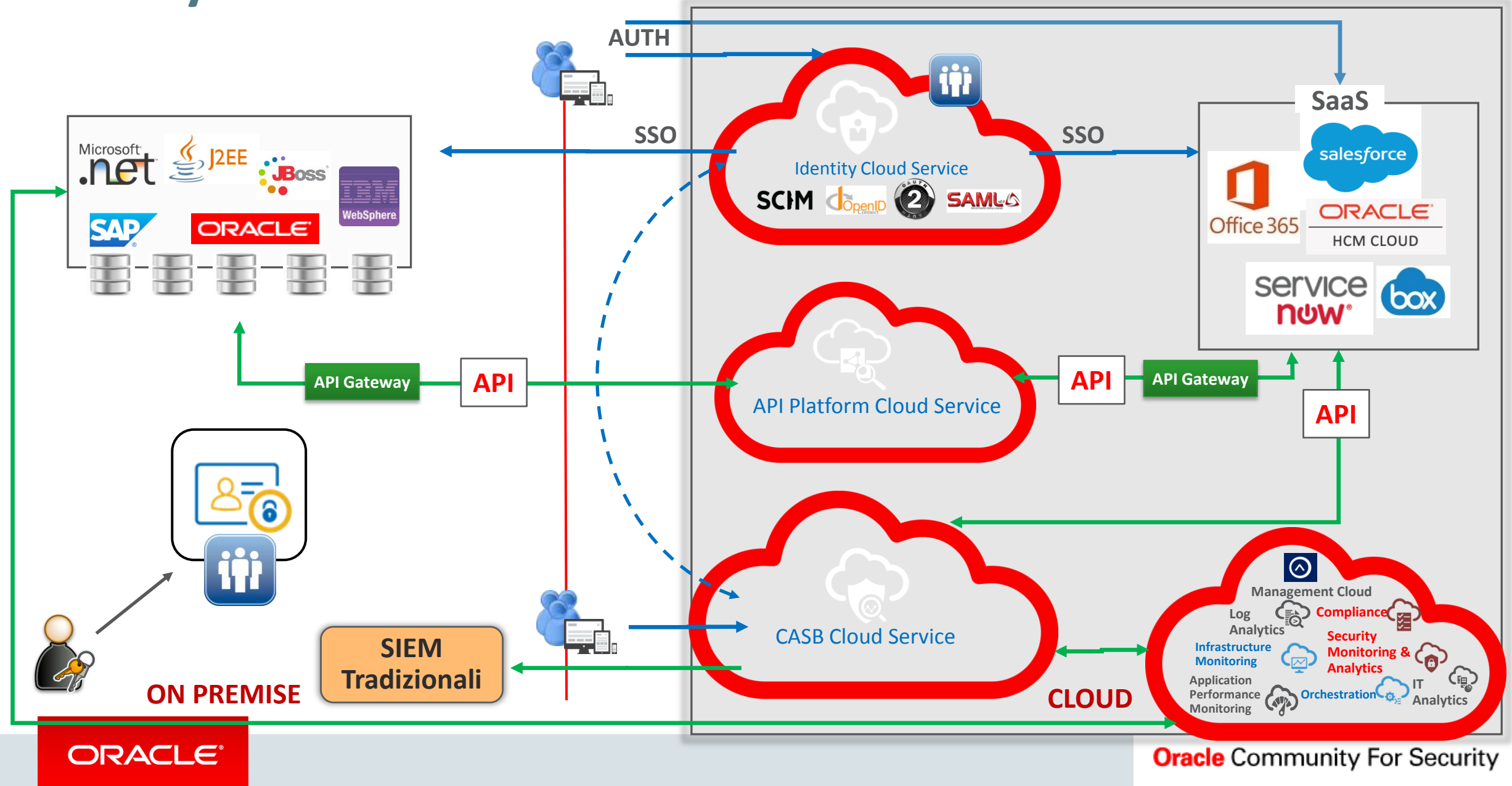
- ✓ Anomaly detection
- ✓ Attack chain awareness
- ✓ 360° user & identity awareness

- ✓ Cross-cloud monitoring
- ✓ User sessionization
- ✓ Complete identity management

- ✓ Continuous assessment
- ✓ Benchmarking
- ✓ Drift analysis
- ✓ Real-time remediation

- ✓ Risk based prioritization
- ✓ Single pane of glass
- ✓ Stack-independent orchestration

Identity SOC Architecture







Oracle Community For Security



ORACLE®