

# What's New in Oracle Identity & Access Management

Comprehensive Identity for Evolving Enterprises, with any Deployment Model

September 2, 2020

#### 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, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.





#### **Speakers**



Luca Martelli
Head of Business
Development and Product
Strategy, Security and Systems
Management, EMEA



Kamal Narayan

Director of Product Management

Identity Management Enterprise

Oracle Corp.



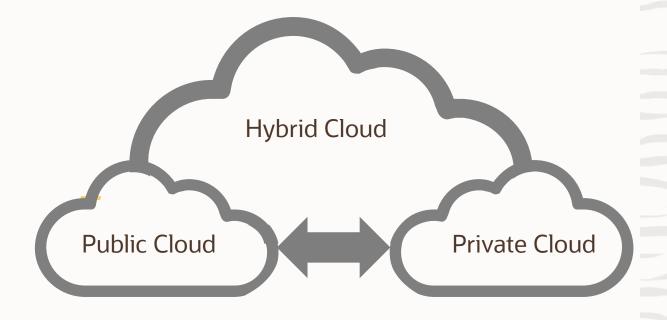
**Dragan Petkovic**BDM Security and Systems
Management, EMEA



Ritesh Kumari
Senior Product Manager
Oracle Identity Cloud Service
Oracle Corp.

### Agenda

- Oracle Hybrid Identity Strategy and Value Proposition
- 2 Oracle Identity & Access Management Enterprise Update
- 3 Improve your IDM UX Experience, Operations & Monitoring Capabilities
- 4 IDM Upgrade Factory & Gartner Peer Review
- 5 Identity Cloud Service Update
- 6 Use Case: Enabling quick Remote Secure Workforce with IDCS
- 7 Q&A and Closing



83%

in the cloud by 2020

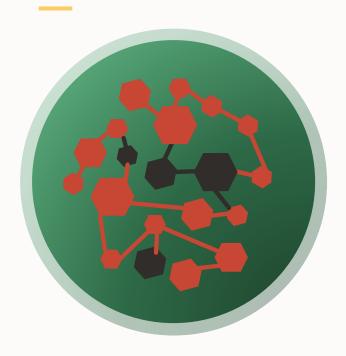


"Although cloud adoption is on the rise, legacy, onpremises user directories, applications, and processes won't go away overnight"

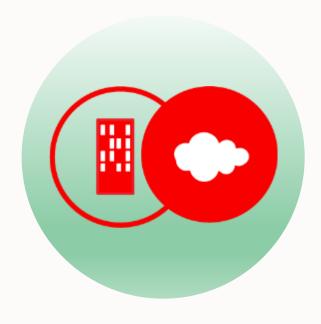
- Forrester



## **Oracle – Identity Hybrid Strategy**



Continue to Enhance On-Premises Products & Support Customers



Hybrid Solution to Enable Customer Journey to Cloud



New Innovations to enable Cloud Security & Digital Transformation



# Oracle Identity & Access Management Offering Different Needs, Different Choices & Flexibility of Deployment Models

Enterprise Identity Service Suite – Current Release: 12c PS4
Running on Prem, on OCI, on other Cloud, on the OCI Marketplace



- Oracle Identity
  Governance Suite
- Oracle Access Manager Suite Plus
- Oracle Directory
  Services

Oracle Identity Cloud Service: Current Release: 20.1.3 Identity As A Service:

Use Cases: Covers Cloud Directory, Access Management, Provisioning Use Cases, REST API based and more -



# Oracle – A history rich in Identity and Security

### **Oracle understands IDM at Enterprise Scale**

We have been in the identity business for over two decades We have 10's of thousands of IDM customers .....managing billions of identities

Oracle IDCS powers Oracle Cloud 250K+ tenants and growing

Oracle continues to invest heavily in Identity Management regardless of the deployment model.



### Agenda

- Oracle Hybrid Identity Strategy and Value Proposition
- 2 Oracle Identity & Access Management Enterprise Update
- 3 Improve your IDM UX Experience, Operations & Monitoring Capabilities
- 4 IDM Upgrade Factory & Gartner Peer Review
- 5 Identity Cloud Service Update
- 6 Use Case: Enabling quick Remote Secure Workforce with IDCS
- 7 Q&A and Closing





# Oracle Identity & Access Management Enterprise Update



**Kamal Narayan** 

Director of Product Management Identity Management Enterprise Oracle Corp.

# What is Oracle IAM 12c

Foundation for the Enterprise Identity Control Plane



# **Oracle Identity and Access Management 12c**

A clear path to comprehensive identity for the evolving enterprise

# **Oracle Identity Governance**

Identify and audit who has access to what, when, and how

#### Oracle Access Management

Protect access to any application from any device, anywhere

# **Oracle Directory Services**

Securely persist identity information in scalable repositories

**12cPS3** 

Released – Aug 30 2017

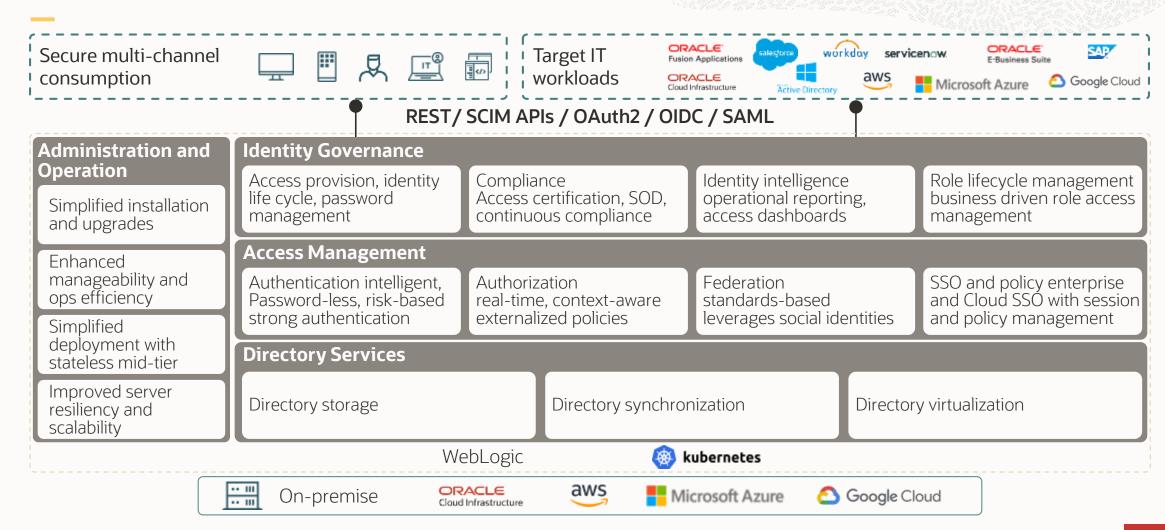
**12cPS4** 

Released – Sep 27 2019



# **Oracle Identity and Access Management 12c**

To secure employees, customers, and business in the new digital era





# Why Upgrade to Oracle IAM 12c

Compelling reasons to upgrade to 12c



## Compelling reasons to upgrade to Oracle IAM 12c









Strengthen
enterprise
security and risk
posture

Reduce TCO with deployment simplification and flexibility

Eliminate risk of running unsupported software

Maximize ROI by modernized user experience & new APIs

Oracle's IAM Upgrade Factory Model – Speed up & de-risk upgrade to 12c



# **University of Colorado meets compliance with Oracle Identity**

- A strong Oracle IAM customer for years, they upgraded to Oracle IAM 12c and brought IDCS onboard
- Needed a centralized identity platform for provisioning, deprovisioning, and authentication
- Supported HIPAA compliance for the Anschutz medical research campus
- Oracle Identity Management reduced redundant passwords and user credentials
- They can now offer secure access and improve collaboration for students and faculty

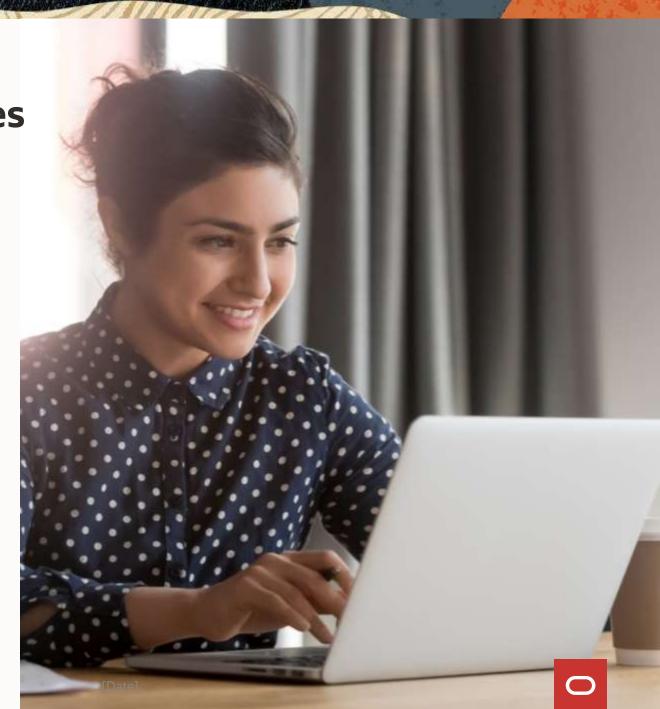




"Here at PGNiG, we selected Oracle Identity and Access Management in place of our previous IAM technology. We made the decision to replace the incumbent solution because Oracle IAM offered the functionality and support we needed. Providing secure and high performance identity and access management is top priority for us, especially when it comes to our business critical applications. Throughout this process, we've received efficient support and partnership from the local Oracle and local partner teams. Our IAM implementation took just 6 months and they have continued to support us, first with implementation and now with our upgrade to Oracle Identity Management 12c PS3."

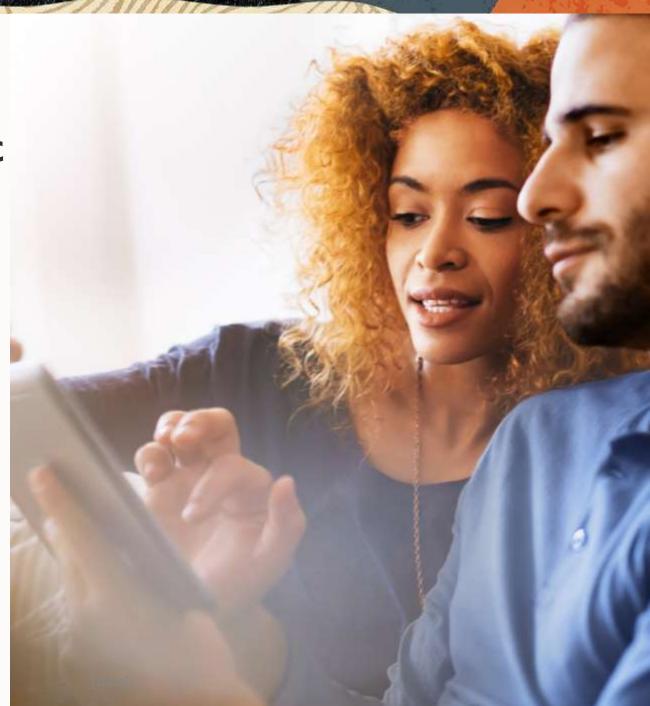
Tomasz Wójcik IT Department Director, PGNiG SA Large Canadian Government Entity improves critical services for citizens

- Selected Oracle Identity and Access Management 12c for flexibility and digital innovation
- Reduced the number of face to face interactions needed for access to services
- Eliminated redundant identity solutions and centralized their CIAM solution
- Provide users with multiple, secure login options
- Enhanced user experience and increased productivity



## Financial Services Provider Improves Performance with 12c

- This not-for-profit organization provides financial services including life insurance, annuities, mutual funds, retirement planning, and more.
- Migrated to 12c PS3 for Oracle Identity Governance, Oracle Access Management, and Directory
- Saw performance improvements following the migration



#### IDM 12c PS4 Collaterals

#### Documentation:

https://docs.oracle.com/en/middleware/idm/suite/12.2.1.4/index.html

#### Videos:

https://docs.oracle.com/en/middleware/idm/suite/12.2.1.4/videos.html

#### Tutorials (OBEs):

https://docs.oracle.com/en/middleware/idm/suite/12.2.1.4/tutorials.html

#### Additional Resources:

https://support.oracle.com

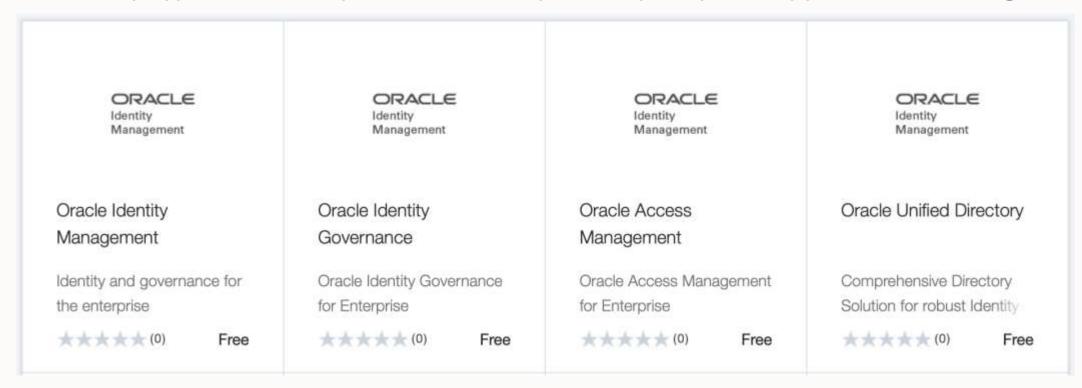


# Oracle IAM 12c Cloud Readiness



## **Evaluating Oracle IAM 12c is a click away**

- IDM images published to OCI Marketplace
  - Automated provisioning, install, configuration
  - https://cloudmarketplace.oracle.com/marketplace/en US/productHomePage

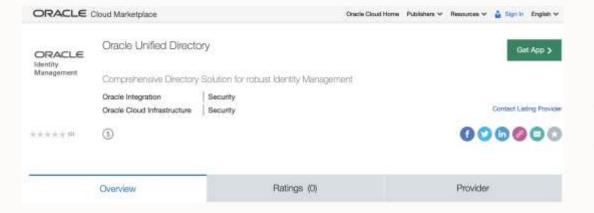


# **Evaluating Oracle IAM 12c on OCI**



#### IDM Command line interface

- Provisioning | Installation | Configuration
- Scale in/out | MDC setup | Artifact promotion



#### Get cloud native experience

- Containers, Kubernetes & Terraform
  - Dependency layering
  - Lifecycle | Logging | Monitoring | Network policy



#### Lift-and-shift current deployments

- Migration guide
- OCI Marketplace



# Oracle IAM Near Term Plans



# **Oracle Identity and Access Management - Transformations**



\_

**On-premises deployment**WebLogic / Baremetal



**Deployment choice**On-premises / Multi-Cloud / Hybrid / Containers

**Monolithic architecture**JavaEE / App Server



Microservices architecture
Open Standards / Light-weight / API driven

Major releases
Long release cycle



**Continuous updates**Frequent cadence of bug fixes & feature releases

Complex upgrades
Involving customizations and
configuration sprawl



**Simple updates**With stateless applications and database based configuration, policy and data

# What is Next Generation Oracle Enterprise IAM?

- Modernized with microservice / serviceoriented architecture
- Automated DevSecOps through Cloud native services & hybrid deployments
- Zero-trust model
- Enhanced User Experience
- Intelligent Identity by leveraging AI/ML capabilities
- Open standards based & API first approach
- Reduce total cost of ownership and management risks

Principles on which Oracle is building next gen. Identity & Access Management

#### **Oracle IAM Micro Services**

Radius Agent (MFA for DB and VPN) Identity
Intelligence
(Role Mining with
ML integration)

Simplified Lightweight Workflows (In addition to SOA Workflows)











Advanced Authentication (MFA and Passwordless including Fido2) Adaptive Risk Management (Access risk in real time with AI/ML) Identity Catalog Service

### Agenda

- Oracle Hybrid Identity Strategy and Value Proposition
- Oracle Identity & Access Management Enterprise Update
- 3 Improve your IDM UX Experience, Operations & Monitoring Capabilities
- 4 IDM Upgrade Factory & Gartner Peer Review
- 5 Identity Cloud Service Update
- 6 Use Case: Enabling quick Remote Secure Workforce with IDCS
- 7 Q&A and Closing





# Improve your IDM UX Experience, Operations & Monitoring Capabilities



Luca Martelli

Head of Business Development and Product Strategy EMEA Security and Systems Management

# **Monitoring Oracle Identity Management**





Rapidly troubleshoot outages



Proactive Alerts

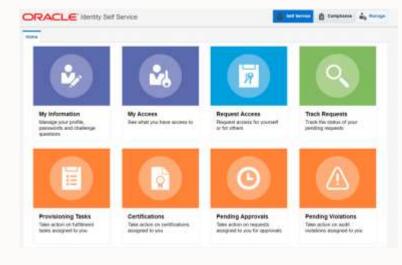


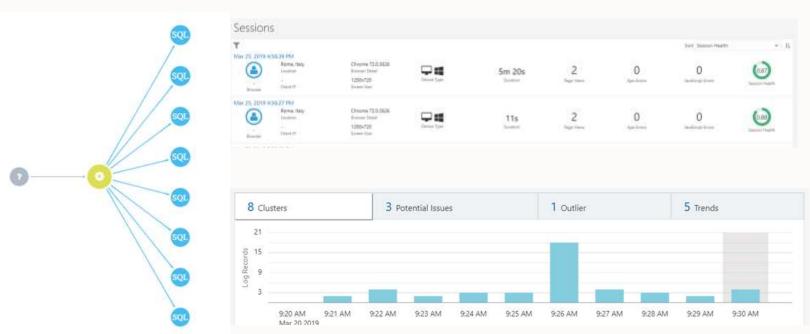
Increase visibility



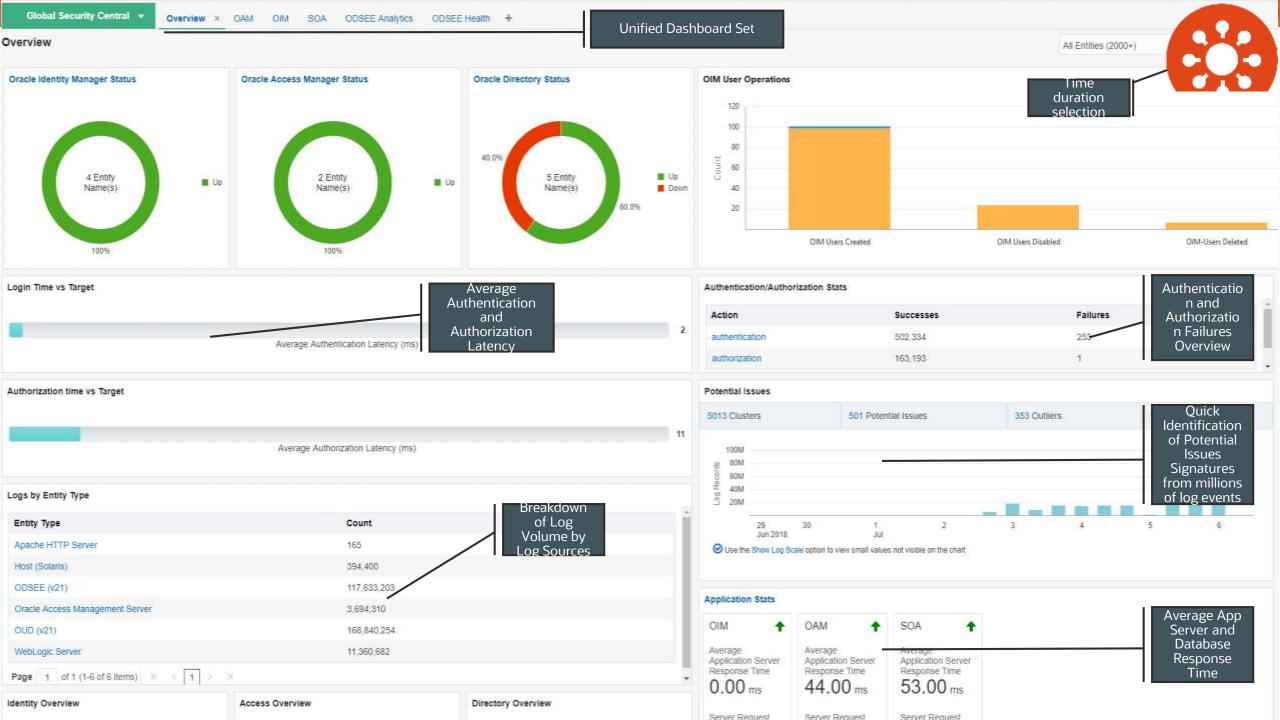
# Rapidly troubleshoot outages

- Real user experience for OAM, OIM
- Logs crosscheck and correlation
- Error drill down
- Early fault/anomaly detection
- Reduce outages
- Improve response time









# The solution behind: Oracle Management Cloud

ORACLE® CLOUD Microsoft Azure amazon **Application performance monitoring** On **Log Analytics** ORACLE' Premise ... **MANAGEMENT IT Analytics CLOUD Infrastructure Monitoring IT Ops** 

Able to monitor transactions, not only systems



**IT Dev** 

### Agenda

- Oracle Hybrid Identity Strategy and Value Proposition
- Oracle Identity & Access Management Enterprise Update
- 3 Improve your IDM UX Experience, Operations & Monitoring Capabilities
- 4 IDM Upgrade Factory & Gartner Peer Review
- 5 Identity Cloud Service Update
- 6 Use Case: Enabling quick Remote Secure Workforce with IDCS
- 7 Q&A and Closing



# IDM Upgrade Factory & Gartner Peer Review



**Dragan Petkovic** 

Business Development Manager - Security and Systems Management, EMEA Oracle

### **IDM Value Program**

Executive sponsor: Eleanor Merritt SVP Product Support, Sustaining Engineering & IDM Development



#### **Objective**

- Protecting existing investment in Oracle IAM
- Find new and innovative IAM use cases helping digital transformation
- Increase overall satisfaction and reduce TCO

#### Who

- EMEA Security BDM
- HQ PM Team
- Local SC/CSR
- OCS/ACS

IDM Futures Workshop helped us understand the roadmap and better plan our migration efforts. We have stopped looking into alternatives and will continue using and expanding Oracle Identity Management. — large insurance company South Africa

#### How

- Future of IDM Workshop
- Regular calls with PM
- Monitoring of critical SRs



### **IAM 11g Upgrade Factory**

Executive sponsor: Sandeep Banerjee VP CoE



#### What

- Industrialized program for upgrade to the latest IAM 12c
- Help "last Mohicans" avoid additional support costs
- Get new use cases based on the advanced 12c architecture (cloud deployment, hybrid IDCS, microservices)

#### Who

- EMEA Security BDM
- HQ PM Team
- OCS/ACS
- Selected partners and system integrators

We were postponing the upgrade of our IDM environment until the last minute due to other priorities. IAM 11g upgrade factory helped us assessing the effort correctly, and we will prioritize the project. Selecting the right partner helped gave us confidence and will reduce additional extended support costs. We can't wait to get new features running. — large private bank

#### How

- Access to the latest and approved tools
- Shared best practices
- Monitoring of critical SRs



#### **Gartner Peer Insights: IT Product Reviews by Users for Users**



#### What is Gartner Peer Insights?

- Online platform for enterprise software and service reviews
- Written by IT and technology decision makers
- Reviews are rigorously vetted by Gartner

#### Why Write a Review?

- Share your knowledge and insights about working with Oracle products and services
- Assist other IT Leaders make more insightful purchase decisions
- Help Oracle improve their products by receiving objective, unbiased feedback
- Reviews take approximately 15 minutes to complete
- Reviews are anonymous

#### Please consider writing a review for Our

- Access Management & Identity Cloud Services Products @ <a href="https://gtnr.it/33zJ35N">https://gtnr.it/33zJ35N</a>
- Identity Governance (OIG) Suite @ <a href="https://gtnr.it/2QaQ8VU">https://gtnr.it/2QaQ8VU</a>



### Agenda

- Oracle Hybrid Identity Strategy and Value Proposition
- Oracle Identity & Access Management Enterprise Update
- 3 Improve your IDM UX Experience, Operations & Monitoring Capabilities
- 4 IDM Upgrade Factory & Gartner Peer Review
- 5 Identity Cloud Service Update
- 6 Use Case: Enabling quick Remote Secure Workforce with IDCS
- 7 Q&A and Closing





### **Identity Cloud Service Update**



Ritesh Kumari
Senior Product Manager
Oracle Identity Cloud Service
Oracle Corp.

## Oracle Identity Cloud Service



### **Oracle Identity Cloud Service**

- Cloud-native, Multi-tenant solution
  - ✓ Consumer Identity scale
  - ✓ Enterprise Identity complexity
  - ✓ Hybrid Identity the real world
- Globally available
- Powered by Oracle Cloud Infrastructure (OCI)
- Always on and at Internet scale

### **Oracle Identity Cloud Service Global Footprint**

March 2020: Live in 16 Regions



### **Oracle Identity Cloud Service Global Footprint**

End of CY2020: 36 Oracle Regions





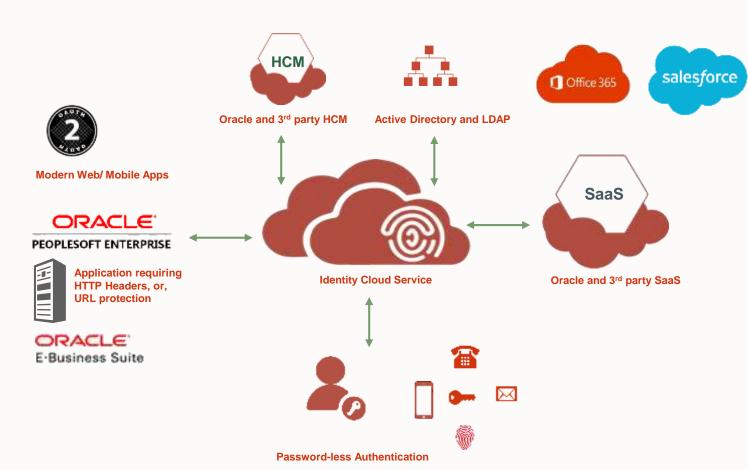
### IDCS Strategy , Recently Released Features and Demos



### **Workforce Identity (Enterprise Identity)**

Give employees the right access, reduce IT friction





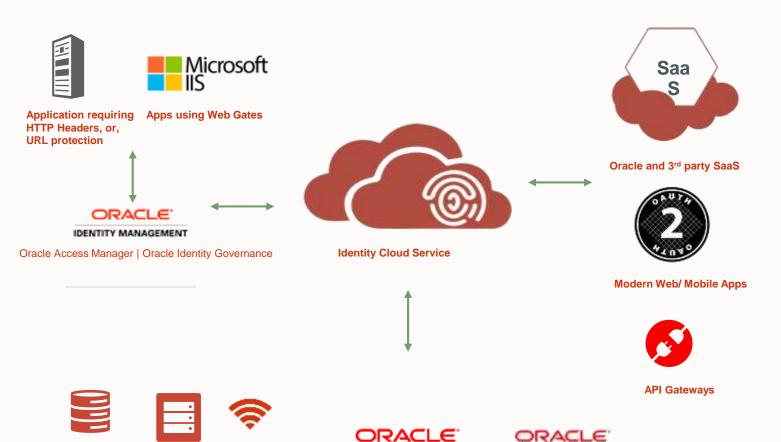
- **Extensible Cloud Directory** with meta-directory and identity lifecycle management
- Onboard identities from any system, anywhere using SAML JIT, Provisioning Bridge, HCM/HR integration and Identity Connectors
- Bi-directional integration with Active Directory and LDAP
- **Use role-based access and user attributes** to automate granting access and entitlements
- **Single Sign-on** across pre-configured SaaS Apps, custom web and mobile apps
- Eliminate Passwords using Password-less authentication
- Adaptive MFA with Risk-scoring based on device, location, past behavior and external feeds
- **Application Gateway to replace** legacy IDM and provide SSO and API access management for enterprise apps
- **Develop and secure Apps using standards** such as OAuth 2.0, Open ID Connect and SAML 2.0



### Journey to Cloud (Hybrid Identity)

Move to Cloud what you want, when you want





PEOPLESOFT ENTERPRISE

E-Business Suite

- Integrated with Oracle Identity Management for SSO, Provisioning and Governance
- Extensible Cloud Directory with identity lifecycle management
- Single Signon with password-less across web and mobile, SaaS and On-Premises
- Application Gateway for Web Access Management and Micro-services
- Provisioning Bridge and Connectors for bidirectional integration
- Radius and Pluggable Authn Modules for Database/ Compute/ VPN
- API Security for modern apps/ API Gateways
- Adaptive MFA with Risk-scoring based on device, location, past behavior and external feeds



Compute

**VPN/WIFI** 

**Oracle Database** 

### Digital Platform for Consumers (Consumer Identity)

Improve customer retention and engage with customers





**Custom Sign-up Journeys** 



**Custom Sign-in Journeys** 



**Privacy and Preferences** 



**Meta-directory and Lifecycle Events** 









**Serverless Platforms** 



Cloud-native Platforms



Modern Web/ Mobile Apps



**API Gateways** 

- **Extensible Cloud Directory** with identity lifecycle management and self-registration to onboard consumers
- Allow users to manage their privacy and preferences using Terms of Use and extensible schema
- Use SAML with JIT, Delegated Administration and **IdP Discovery** to onboard onboard partner identities
- **Social Login framework** to integrate with any Social Network
- **API Security** with token policies, session and token controls and custom claims to simplify and secure modern apps
- Adaptive MFA with Risk-scoring based on device, location, past behavior and external feeds
- Use SDKs and sign-in widget to create custom sign-in and sign-up journeys



### **Key Enhancements 20.1.3**

#### **Security for Enterprise Applications**

- Radius Proxy Integration
- EBS Integration EBS Asserter and EBS User Management
- LDAP Proxy
- Linux PAM

#### **Configurable Authentication Flows**

- Passwordless Authentication
- Just In Time(JIT) Provisioning
- Social Login With Phone Number

#### **Password Management**

- Group Based Password Policies
- Passwordless Authentication

#### **Compliance and Security**

- Max-Concurrent session support
- Network perimeter for OAuth Clients

#### **Lifecycle Management**

Automate User's Lifecycle in

#### **Managing Directories**

- AD Integration
- LDAP Integration

**User Experience** 

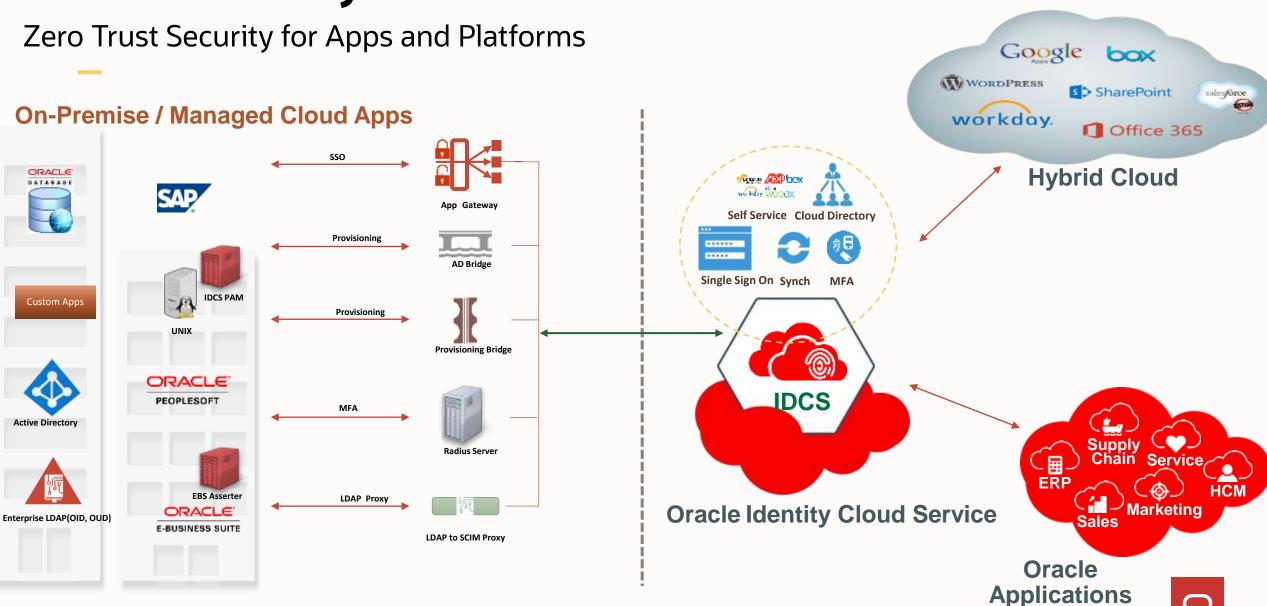
**Reports** 



### Product Vision, Roadmap and Demos



### **Unified Identity across Cloud and On-Premise**



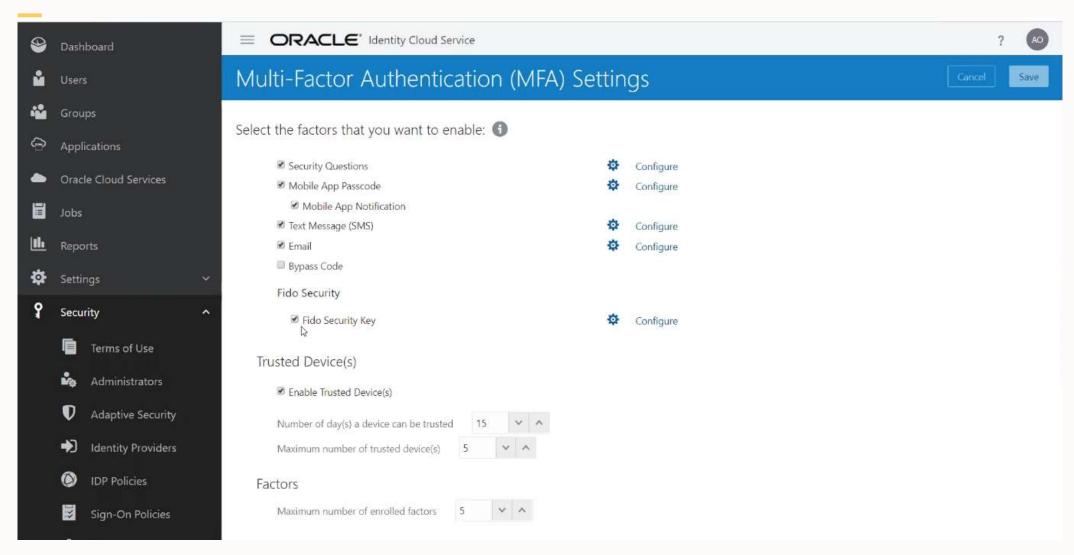
### Recap

- Cloud-native, Multi-tenant solution
  - ✓ Consumer Identity
  - ✓ Enterprise Identity
  - ✓ Hybrid Identity
- Globally available
- Powered by Oracle Cloud Infrastructure (OCI)
- Always on and at Internet scale

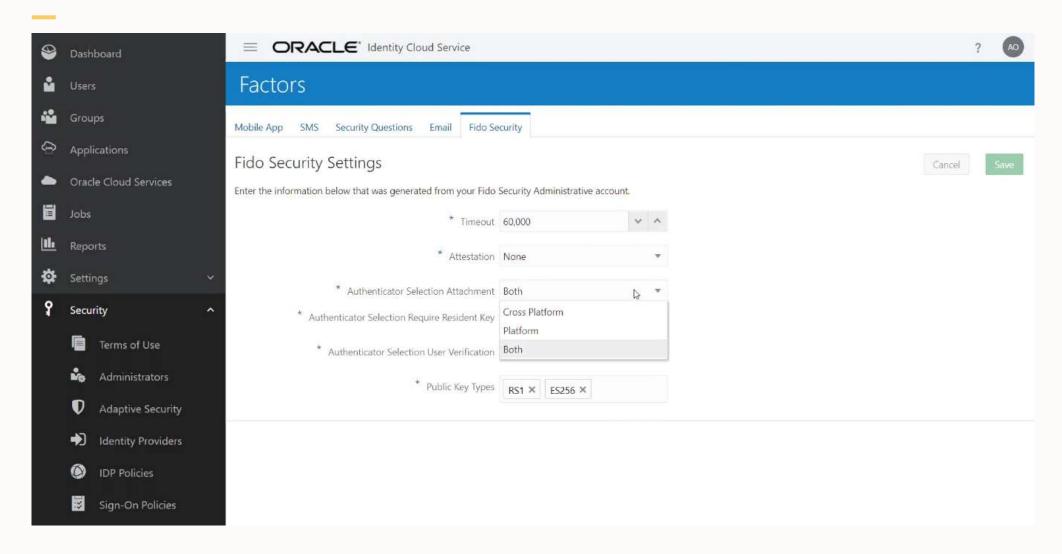
### IDCS – FIDO Integration Overview



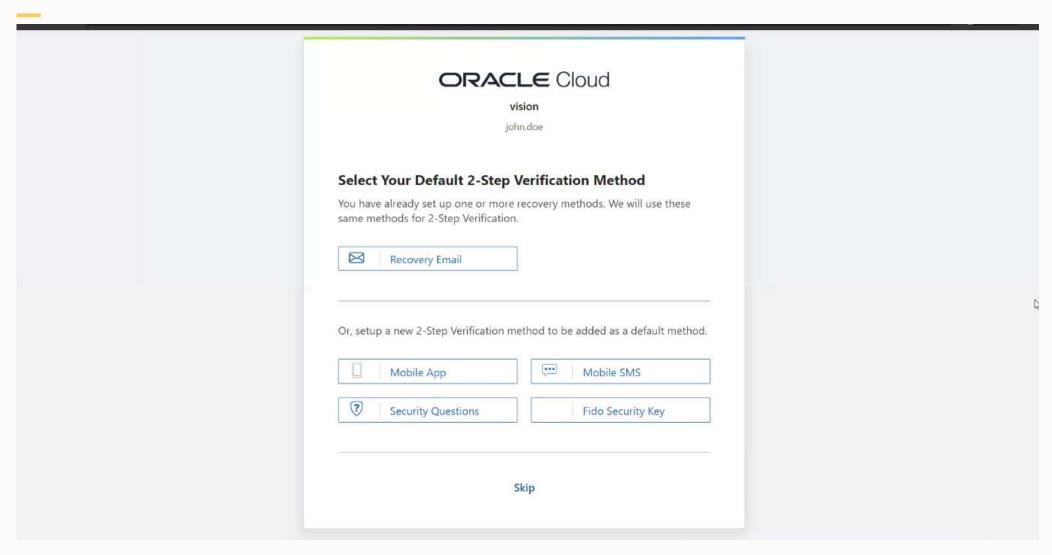
### **IDCS FIDO Integration- FIDO MFA**



### **IDCS FIDO Integration- Factors**



### **IDCS FIDO Integration- FIDO Login**

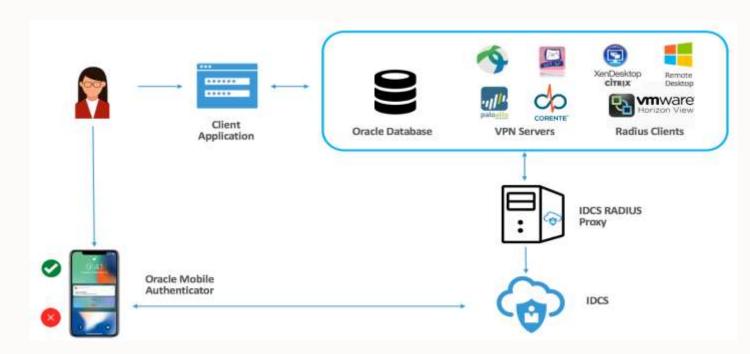




### **IDCS Radius Proxy**

### **Simplify Database user administration**

- Organizations have hundreds of Databases servers. They need to manage admin access to these servers.
- IDCS Radius Proxy:
  - Solution for a client sending Radius Request over TCP / UDP socket E.g. Database , VPN
  - Radius Proxy Plugin interprets the Radius request and forwards the same to IDCS for authentication
  - IDCS credentials for Database authentication
  - Model Database groups as IDCS groups and manage group membership from IDCS for more controlled access.
  - Manage and Revoke access from a single console.
  - Leverage IDCS MFA for strong authentication.

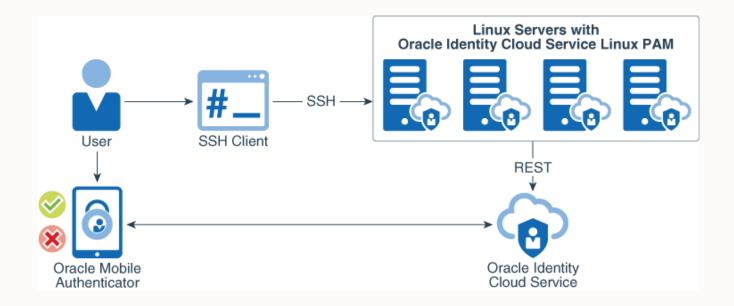




### IDCS Linux PAM (Pluggable Authentication Module)

#### **Simplify Linux user administration**

- Organizations have hundreds of Linux servers. They need to manage admin access to these servers.
- IDCS Linux PAM:
  - IDCS credentials for Linux authentication
  - Model Linux groups as IDCS groups and manage group membership from IDCS.
  - Manage and Revoke access from a single console.
  - Leverage IDCS MFA for strong authentication.





### Agenda

- Oracle Hybrid Identity Strategy and Value Proposition
- Oracle Identity & Access Management Enterprise Update
- 3 Improve your IDM UX Experience, Operations & Monitoring Capabilities
- 4 IDM Upgrade Factory & Gartner Peer Review
- 5 Identity Cloud Service Update
- 6 Use Case: Enabling quick Remote Secure Workforce with IDCS
- 7 Q&A and Closing





# Use Case: Enabling quick Remote Secure Workforce with IDCS



**Dragan Petkovic** 

Business Development Manager - Security and Systems Management, EMEA Oracle

#### **Problem Statement**

#### Unrestricted access

Organizations are largely unprepared when deploying large scale VPN which exposes open intranet. Direct exposing of services creates numerous security issues

{\* SECURITY \*}

Atlassian issues advice on how to keep your IT service desk secure... after hundreds of portals found facing the internet amid virus lockdown

Alarm sounded after orgs open up internal platforms for work-from-home staff

9 ☐ SHARE ▼

By Shaun Nichols in San Francisco 7 Apr 2020 at 07:07



#### Scalability (VPN)

Organizations which are not used to a high volume of VPN traffic (like Oracle is) will struggle with VPN throughput due do bandwidth and VPN concentrator limits. The availability of the VPN is easy to compromise

#### 408 Request Time-out

This request takes too long to process, it is timed out by the server. If it should not be timed out, please contact administrator of this web site to increase 'Connection Timeout'.

owered By <u>LiteSpeed Web Server</u> teSpeed Technologies is not responsible for administration.

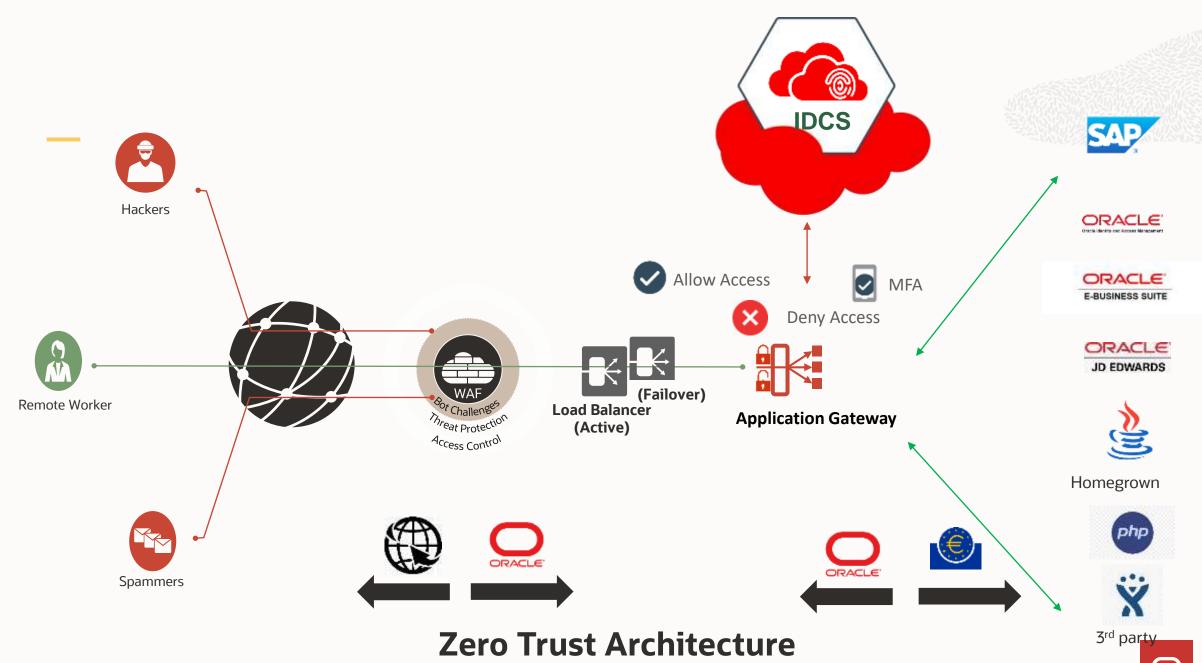
LiteSpeed Technologies is not responsible for administration and contents of this web site!

### Strong authentication & access audit

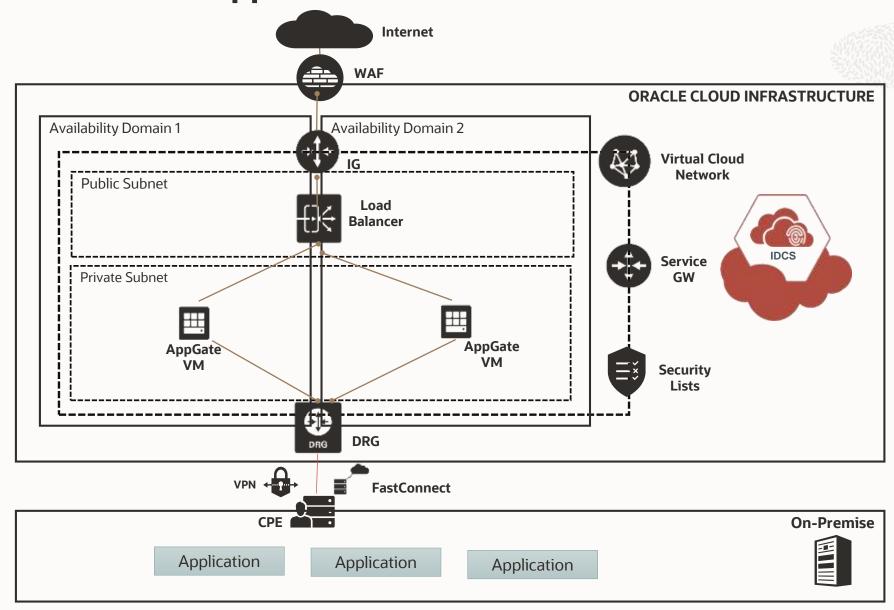
Remote working requires strong authentication and audit. Multifactor authentication is usually required for the remote access. Audit should be centralized and selective which is not default with VPN. Privacy issues might arise with unselective audit of access from home.







#### **OCI Architecture IDCS AppGate VM**



City and County of San Francisco selects Oracle Identity Cloud Service for improved security and user experience of 100,000 user identities

During the COVID-19 response, it was critical that emergency workers and public health employees were able to access CCSF applications to respond to emergencies remotely.

- True single sign-on portal for employees, retirees, suppliers, and eventually citizens to access critical applications in a single dashboard
- Reduces application onboarding from months do days
- Works in conjunction with VPN for remote workforce access (MFA)
- 6x more cost effective than comparable solution



# Q&A





# Try the Latest Features by yourself! Learn them with our help IDM Value Program and Upgrade Factory

#### **Cloud Test Drives / HandsOn Workshop**

Hands-On workshops with customers/prospects

- Secure Your OCI Journey (IDCS included), 1d
- Secure and Manage your EBS, 2 days

**Objective**: Evaluate Oracle! You know the market, we're happy for you to create your Hands-On experience and opinion.

Request one to your local Oracle Rep.

#### Try the latest features of IDM on OCI

Quick test our product latest features, quick!

Oracle Identity Governance

Oracle Identity Management

Oracle Access Management

Oracle Unified Directory

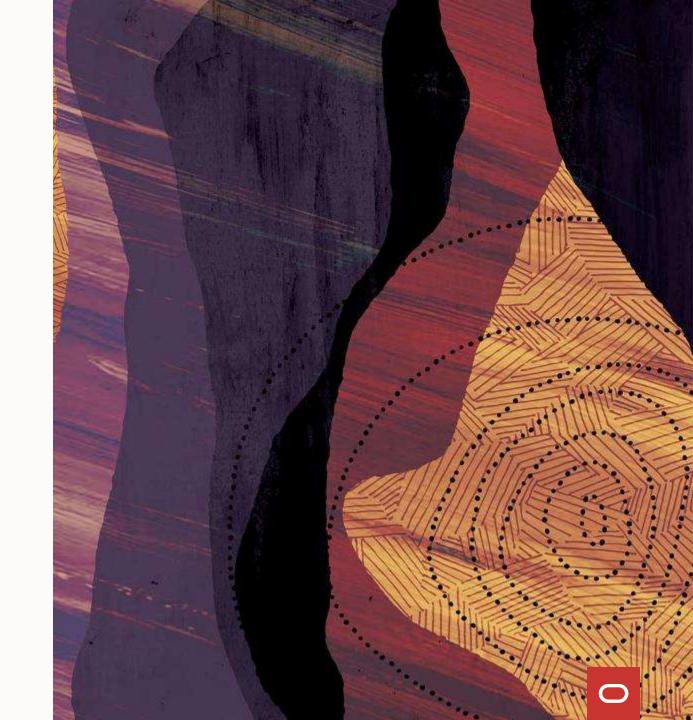
#### **IDM Value Program and Upgrade Factory**

Contact <u>dragan.petkovic@oracle.com</u> or your local Oracle Rep



### Thank You

**The Oracle Identity Team** 



# ORACLE