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Cloud Hardware Support (CHS) in Switzerland

Oracle Cloud Infrastructure and Field Service

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Goal and Agenda

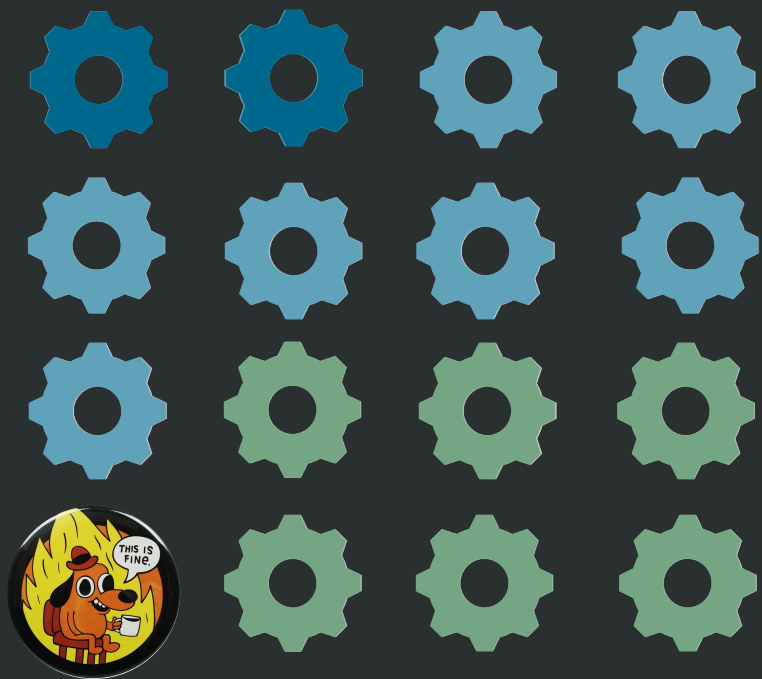
Goal:

Understanding how Oracle Cloud services are delivered - from global cloud regions to the physical data center infrastructure in Switzerland.

Agenda:

1. Cloud Hardware Support (CHS) - Who we are?
2. Where OCI runs globally
3. Oracle's cloud deployment models
4. Multicloud inside-out
5. Dedicated Regions and security
6. CHS – How we do it?
7. Oracle Labs – Cutting-edge research for cloud efficiency and security

CHS Team in Switzerland



OCI Global Footprint

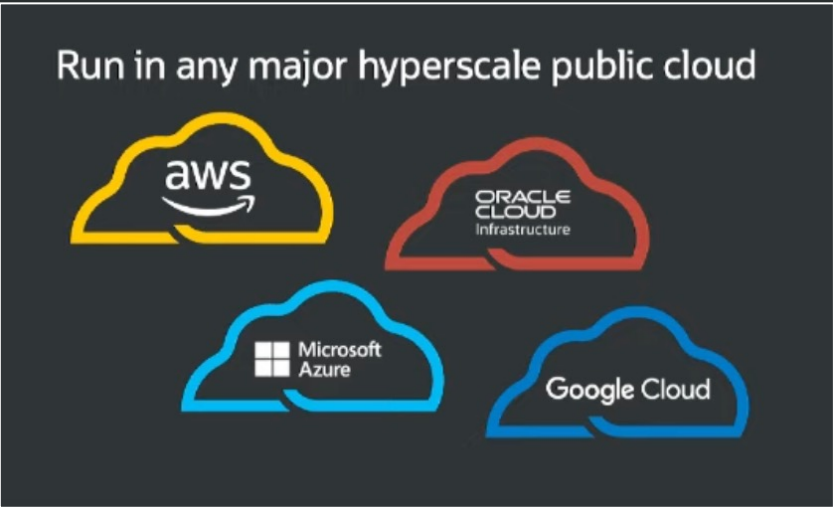
68 active cloud regions in 26 countries

Including:

- Public Cloud regions
- Dedicated Region Cloud@Customer (DRCC)
- Government & Restricted Regions
- Multi-Cloud Interconnectivity



Oracle Cloud Deployment Models



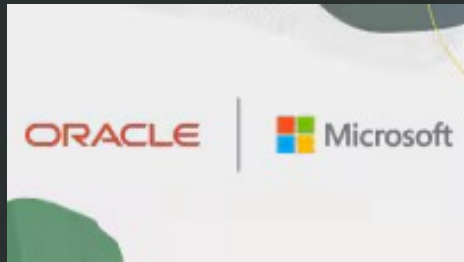
Deployment	When customers choose it
Public OCI	standard cloud workloads
DRCC	strict data residency or full cloud inside customer facility
ExaC@C	database workloads with local control



Multicloud inside-out

Why Multicloud Exists?

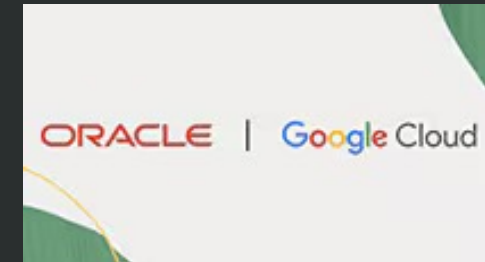
- customers want to keep workloads in existing hyperscalers
- low latency integration
- simplified database access
- unified management and reporting



Combined power of Oracle and Microsoft



Develop applications faster with Oracle and AWS

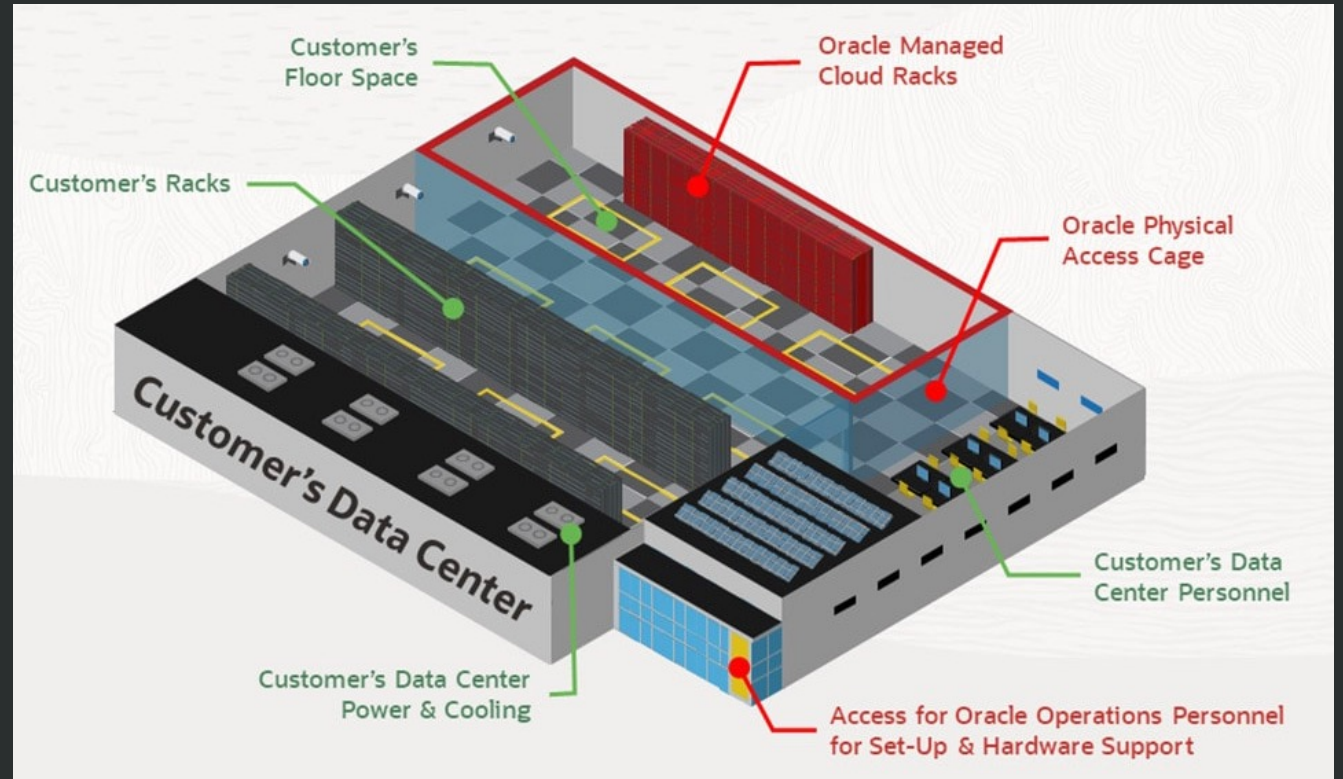


Oracle AI Database services in Google Cloud

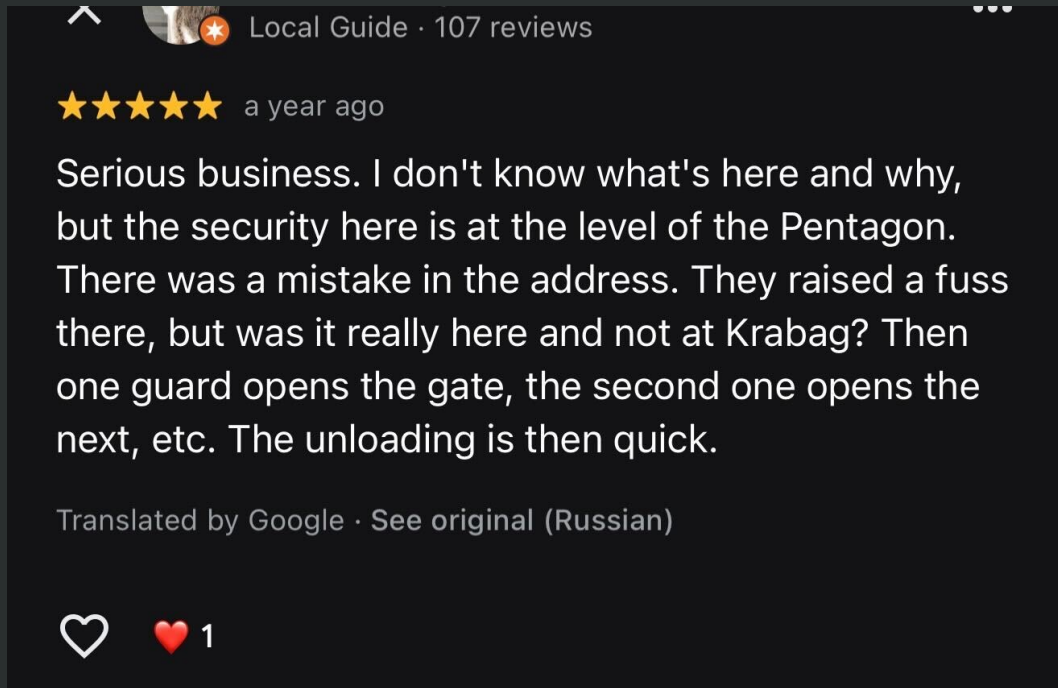
DRCC

Dedicated Region Customer@Cloud

- Full stack of cloud services
- In-depth Security
- Local Governance
- Industry-specific compliance - banking, insurance, healthcare, public sector
- Adherence to federal data protection laws
- Full Control how data is stored and processed



Physical Security



Perimeter security

- Fencing and controlled entry points
- Obfuscated facility locations
- 24/7 monitoring and security personnel

Facility access control

- Strict entry procedures (no tailgating)
- Background checks for authorized personnel
- Multi-factor authentication (badge, PIN, biometrics)

Controlled internal access

- Dedicated access-controlled rooms
- No photo / video policies
- Caged racks

Specialized protections (environment dependent)

- Faraday cages
- Key management systems

Cloud Hardware Support in Switzerland

- OCI Commercial Region
- DRCC
- Oracle @Microsoft
- Oracle @AWS
- On Premises business





I'm sure there are questions

Which I cannot answer

Oracle Research and Development Teams in Zurich

- Oracle Labs Zurich
 - part of global R&D team within Oracle
 - significant footprint in Zurich
 - focus: making the cloud more secure and more efficient
- Oracle Zurich development teams
 - three-digit number of people in Prime Tower and Circle offices
 - Oracle Database (AI agents, AI inference, AI vector search, in-memory, graph, MLE/JavaScript, etc.)
 - GraalVM (compiler, languages, frameworks)
 - MySQL Heatwave
 - Java (platform, language)



Oracle Labs – Cutting-edge research for cloud efficiency and security

- Research
 - AI to find out inefficiencies in datacenter operations and proposed mitigations/solutions
 - AI to increase energy efficiency of cloud hardware (turn on and off smartly)
 - AI for predictive maintenance
 - efficient use of GPUs
- Research-driven Development
 - [Application Dependency Management](#)
 - OCI service for improving software supply chain attacks
 - Scans your software for vulnerable third-parties
 - Proposes mitigation of identified vulnerabilities
 - Build From Source: both internal as well as external services ([Macaron](#))
 - GitHub compliance (internal): make Oracle's GitHub repositories consistent and secure
 - Oracle-internal third-party software and approval tracking system (consumer of ADM)

Oracle Labs Apprenticeship Program

- 2 ICT apprentices (platform track)
 - Data center operations
 - Devops
 - Database and Low-Code Programming



Last chance for questions ;-)

To both parts of the presentation... 😊

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Appendix

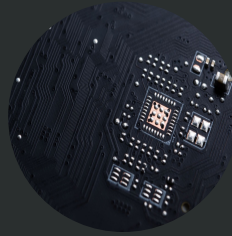
If there is still processing power available



What makes a Data Center



Storage



Compute



Networking



Security & Safety



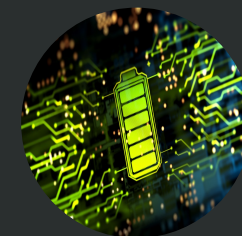
Cooling



Fire Protection



**Monitoring &
Management**



Power

Power

Utility grid
Think of EKZ

Switchgear
Decide what is
used as power
source

UPS
Batteries



Generators
Can run for days

PDU
From 1000 to
400 Volts

**Racks and
Servers**