

ORACLE

Multicloud evolúció és Hibrid Cloud üzenetek

HOUG Tech Day 2023

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Technology Cloud, Hungary

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Oracle Cloud pillérek

Egységes OCI cloud szolgáltatások, érték minden megoldási területen

Multicloud

Our products work with your other cloud providers

Public cloud

Oracle Cloud offers services from 46 public cloud regions in 23 countries.



Hybrid cloud

Cloud @ Customer

We bring cloud services to your data center

Dedicated cloud

We build a cloud just for you, with all OCI services in your data center

Az alapoktól építettük fel Gen2 felhőszolgáltatásainkat

Az első generáció után megalkottunk a második generációs Cloud architektúrát



Off-box virtualization

The way we manage OCI is entirely separate from your resources, maximizing isolation, performance, and security



Nonblocking networks, minimal charges

We optimized our networks, so you get guaranteed bandwidth between your resources, with 90% lower costs to access data and 80% lower costs to serve data



Maximum computing density

We pack over 230,000 cores into each megawatt and can deliver an entire cloud region in only 12 racks



Flex infrastructure

You can choose exactly the number of cores, memory, and storage performance you need, and pay for exactly that, minimizing waste

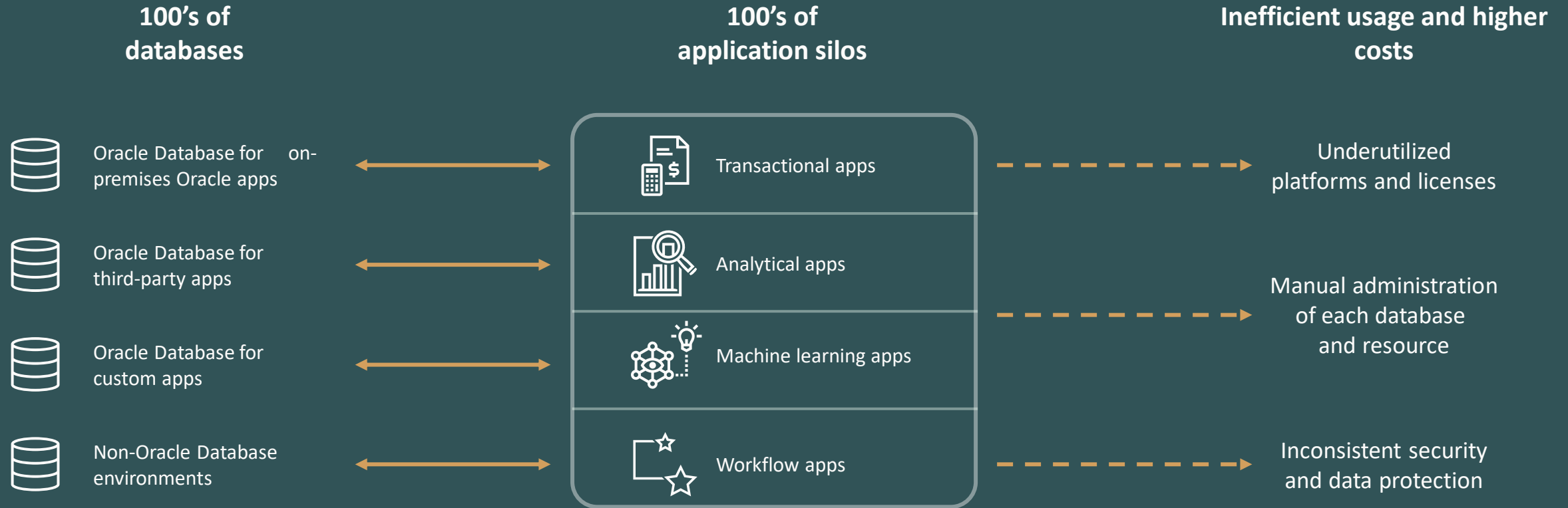


Simple, predictable pricing

Our pricing is simple to understand, 50-90% lower than other hyperscalers, and consistent worldwide, so you get predictable savings with no surprises

The unique design of OCI enable Oracle to offer to **most competitive and extensive SLAs in the market covering availability, performance and scalability**

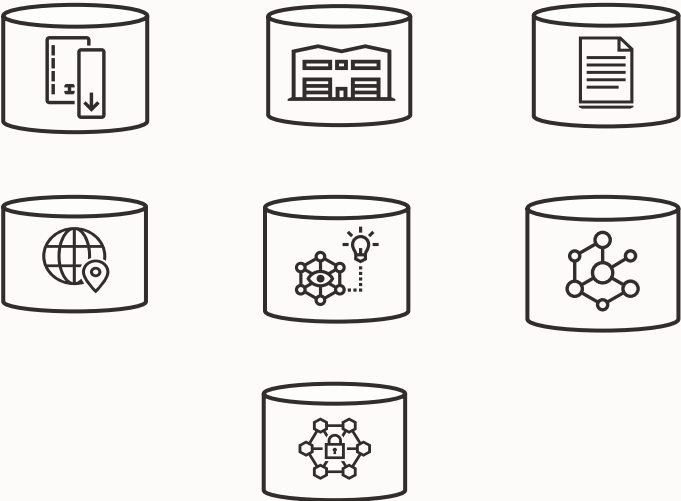
A sziget szerű adatbázis környezetek hátrányai



Konvergens adatbázis kezelő eltérő adatfelhasználásra

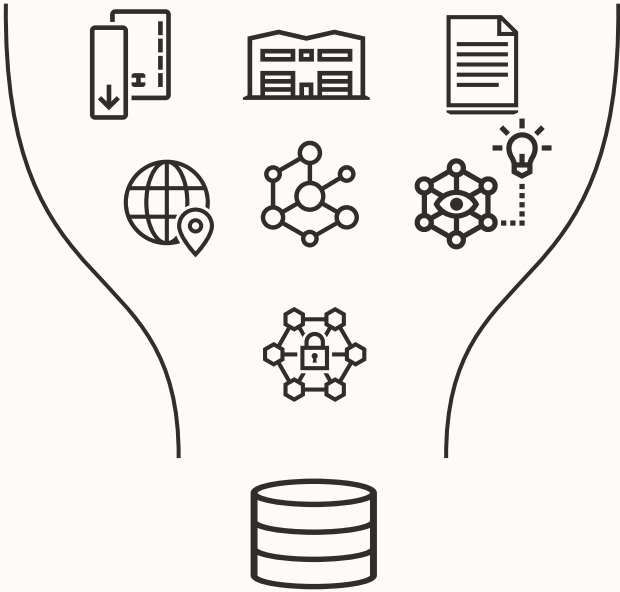
Non-converged databases

Apps integrate multiple database types, one for each type of data



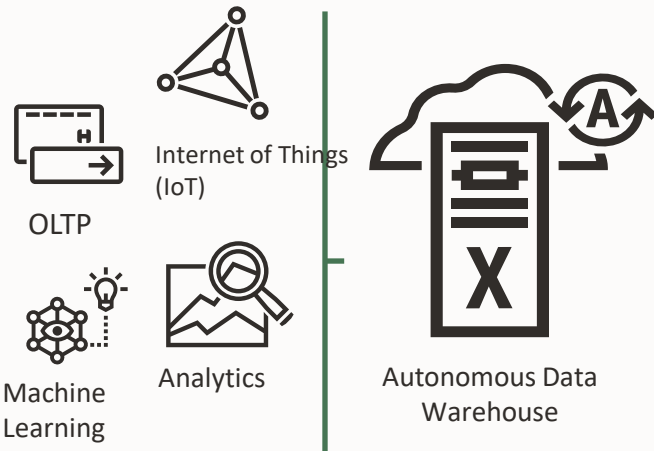
Converged Oracle Database

Apps use one database for all data types and workloads



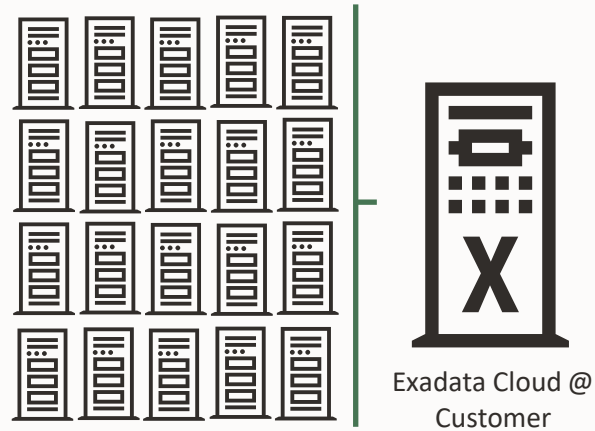
Adatbázis konszolidáció eredményei – Hatékonyabb működés

Use fewer databases



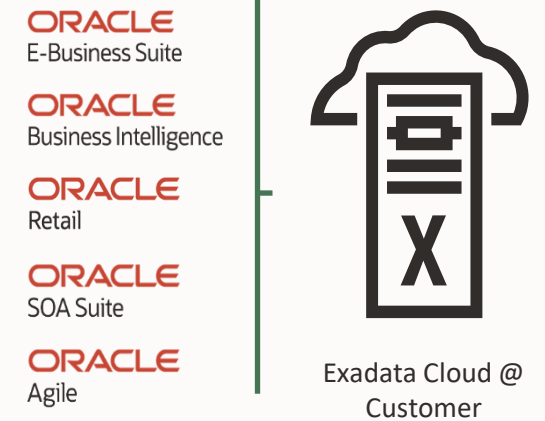
4:1 Consolidation of the type and number of databases

Use fewer platforms



40:1 Platform consolidation with multi- $\$$ M savings

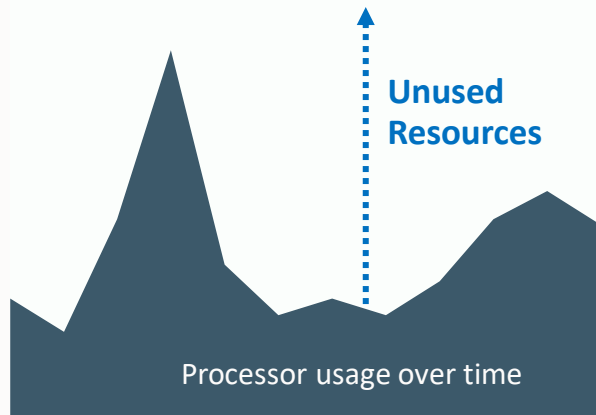
Consolidated management



3:1 Management burdens eliminated

Elasztikus skálázás saját adatközpontban is

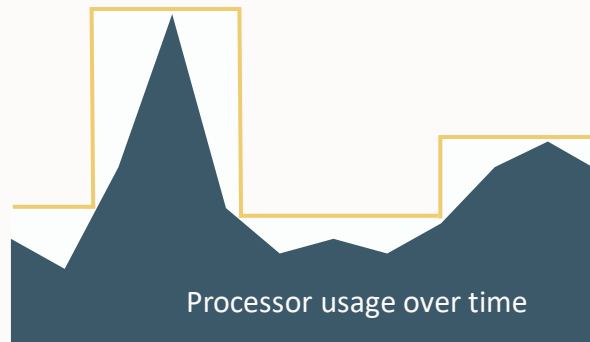
Total Processor Resources



On-Premises & Other Clouds – Static

Purchase server processors and software licenses for **highest projected peak load**

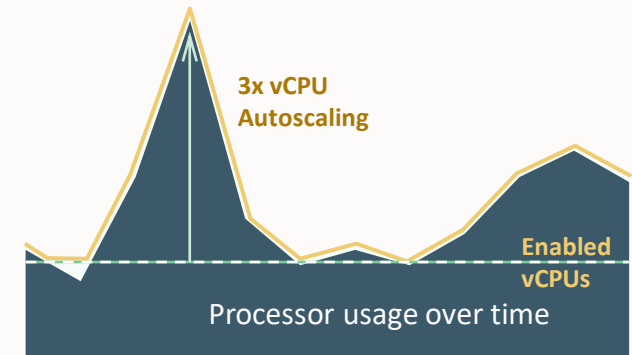
Manually Scaled CPU cores



Exadata Database Service – Elastic

Adjust enabled CPUs to match **actual workload** via APIs and web UI - CPUs are charged per second

Autonomously Scaled CPU cores



Autonomous Database – Self-scaling

Automatically scales CPU core consumption based on **dynamic workload demands**, in real-time

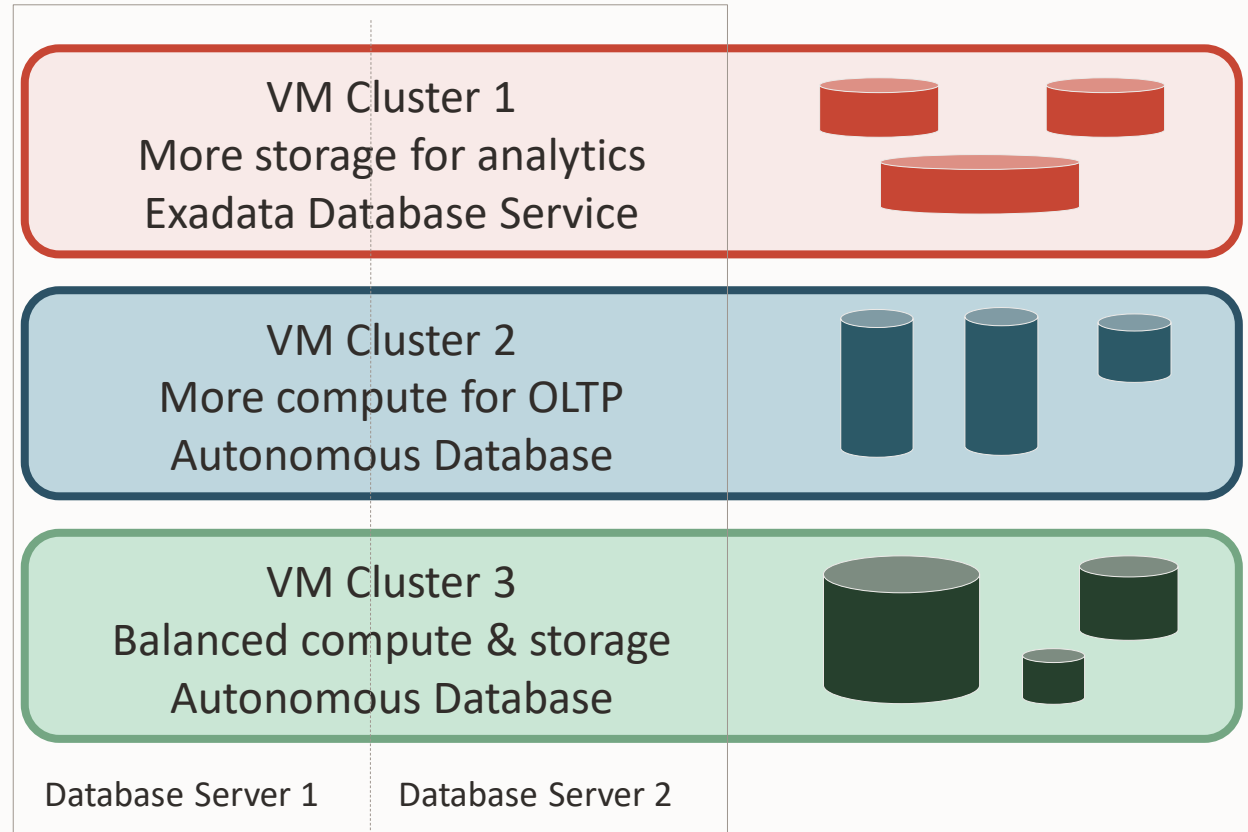
Exadata Cloud@Customer – VM klaszter felépítés

Autonomous Database Service

és

Base Database Service

egységes platformon



Leverage existing Exadata Cloud@Customer infrastructure to run Autonomous Database



Az Exadata platform technológiai előnyei

Analytics

Storage Offloading

Smart Scans, Filters, Joins...
 Storage Indexes
 HCC (Column Compression)
 JSON, XML, LOBs, CLOBs
 In-Memory Columnar

OLTP/Consolidation

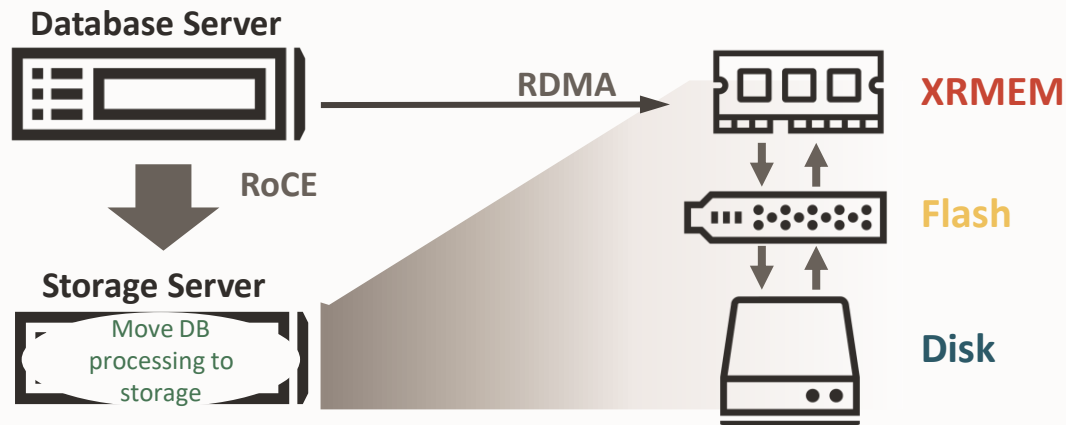
XRMEM + Flash + RoCE

Exadata RDMA Memory (XRMEM)
 Smart Flash (NVMe/PCIe)
 RDMA over Converged Ethernet
IO Resource Management
 Network Resource Management

Availability

Proactive & Predictive

Instant Failure Detection
Sub-Second Failover
 ML-Based Health Monitoring
 I/O Latency Capping
 Max. Availability Architecture



Recognized by
 IDC for the
 Highest Level of
 Availability

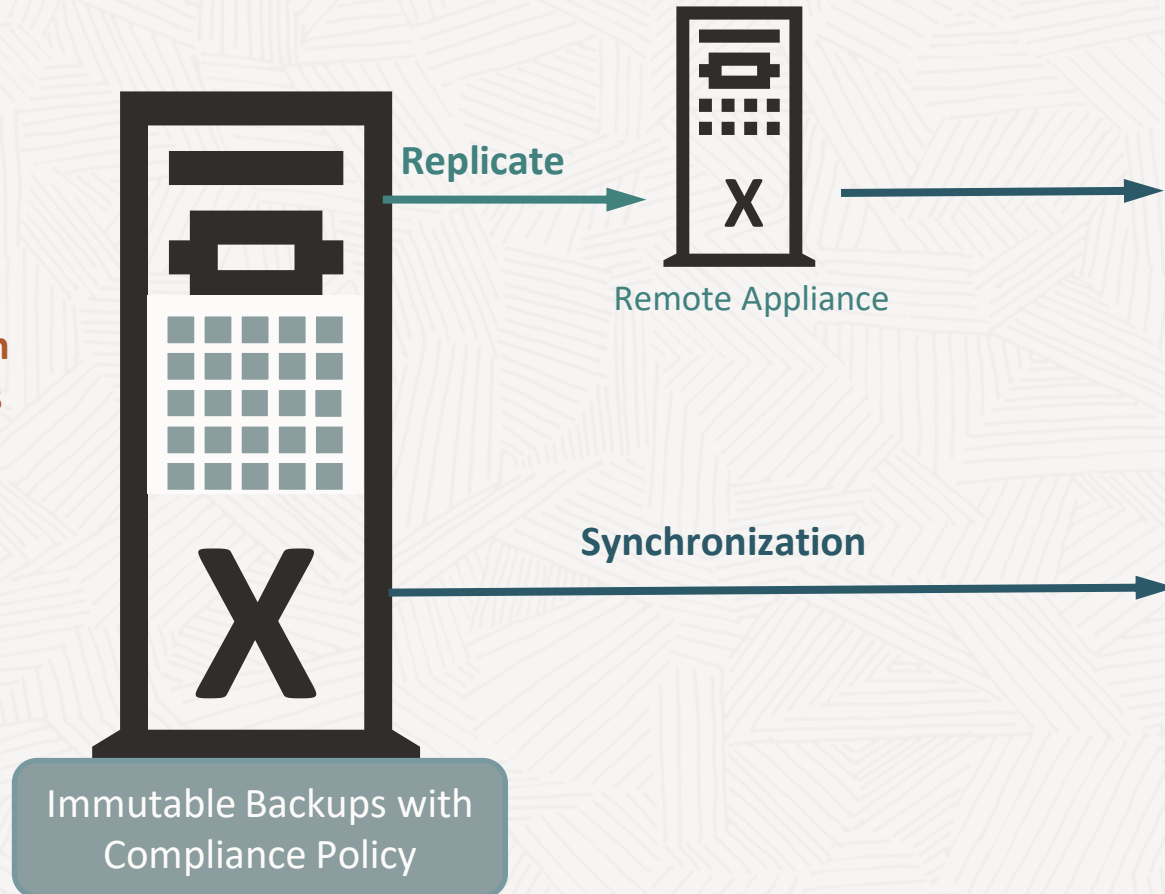


Hibatűrő rendszerek kiterjesztett Cloud szolgáltatásokkal

Folyamatos rendelkezésre állás, georedundáns kiszolgálással



Consolidation of Databases



- Object Storage
- Compute Instances
- Database
- Integrated security

Oracle Database HA:

- Real Application Cluster
- Application Continuity
 - VM Cluster
- Redundant HW components



Microsoft & Oracle partnerség következő lépcsőfoka

2019

Oracle Interconnect for Microsoft Azure

Improving multicloud connectivity

2022

Oracle Database Service for Azure

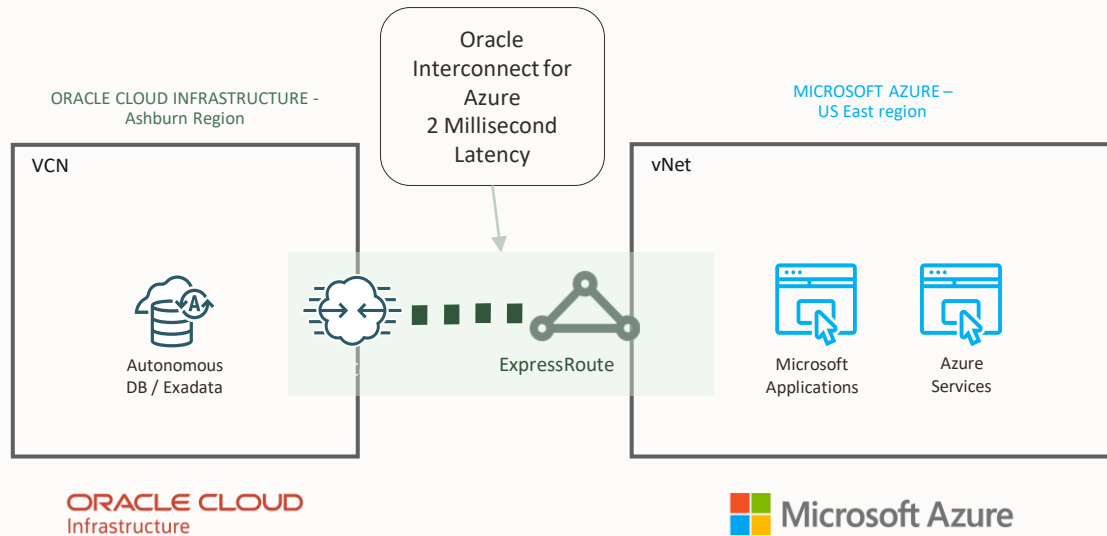
Oracle managed service built on Interconnect

2023

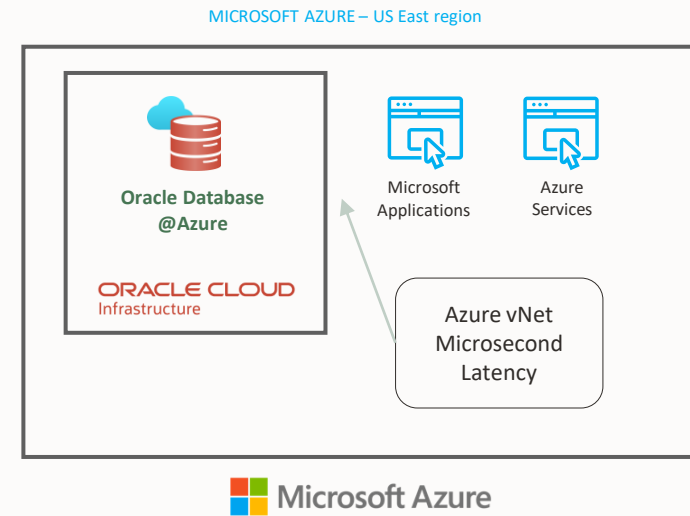
The Future Begins Today

Oracle Database@Azure

Oracle for Azure Interconnect



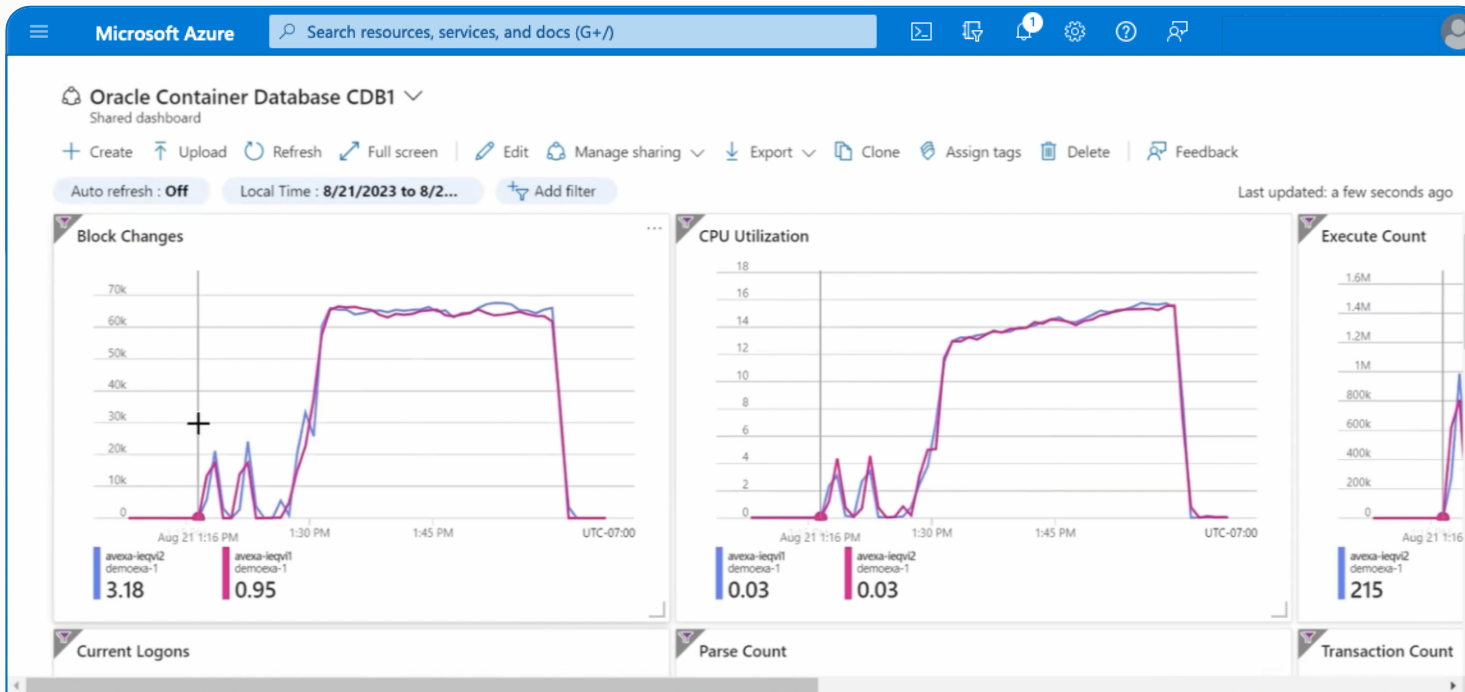
NEW: Oracle Database@Azure



- Lower latency, identical to other Azure services, enables even the most mission critical workloads
- Equivalent to Oracle Database Services in OCI
- Use Azure commitments for Oracle Database@Azure



Integrált menedzsment és monitoring funkciók

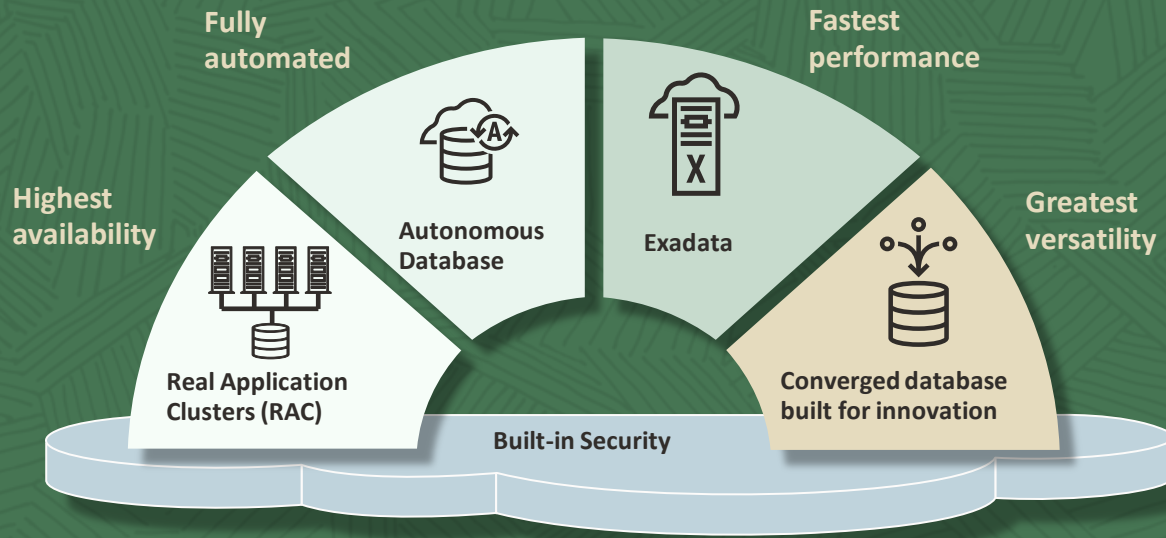


- Use your existing Azure and Oracle skills together
- Oracle database service logs, metrics, and events are directly available in Azure to simplify monitoring and troubleshooting
- Federation with Microsoft Entra ID simplifies identity and access management
- Collaborative support model



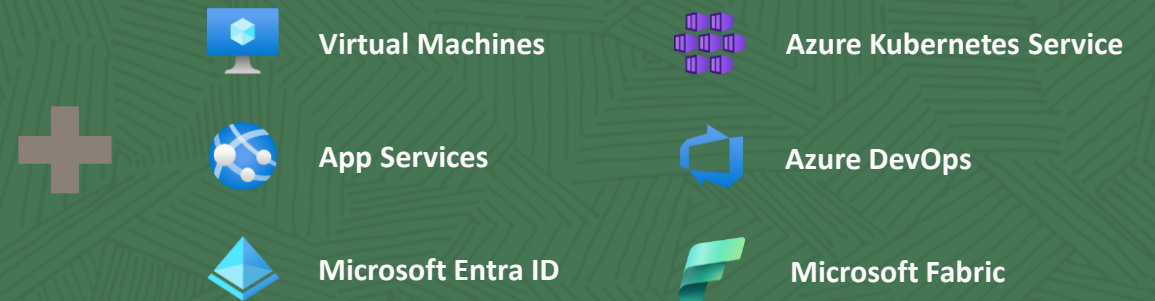
A Multicloud következő generációja

Trusted data management



ORACLE
CLOUD
Infrastructure

Trusted application services



Microsoft
Azure



ORACLE



Cloud@Customer árazási struktúra



Infrastructure Subscription

- Configure dedicated infrastructure for the services
- Select optional upgrades
- Add installation
- Pay monthly fixed costs



Metered Consumption

- OCI infrastructure services
 - Compute
 - Storage (Block, Object, File)
 - Load Balancer
- Use Universal Credits across OCI, Compute Cloud@Customer, and Exadata Cloud@Customer



Oracle Cloud Guard

Cloud Guard helps you maintain good security posture by detecting misconfigured resources, insecure activity drifts, and malicious behaviors.

- Consolidated view: A single pane of glass to view global security concerns
- Easy to use: Out of the box recipes to find common issues with notification & remediation features to drive fixes
- Inexpensive: Provided for no-charge to paid OCI tenancies

The screenshot displays the Oracle Cloud Guard console interface. The top navigation bar includes the Oracle Cloud logo, a search bar, and the region 'US West (Phoenix)'. The main content area is titled 'Overview' and features several key components:

- Security Rating:** A green box indicating a 'Good' rating with a Security Score of 75 and a Risk score of 100.
- Security recommendations:** A dark blue box listing recommendations such as 'Resolve Public buckets problems to improve your security score' and 'Resolve IAM Keys Older Than 90 Days problems to improve your security score'.
- Problems:** Two donut charts showing the distribution of problems by detector type (Config and HCM) and risk level (Critical and High).
- User activity map:** A map of North America showing activity across various states.
- Trends:** A line graph showing the security score over time from May 13 to May 21, 2021.
- What's new:** A section for recent updates and news.
- Resources and help:** Links to documentation, user guides, and feedback channels.
- Use cases:** Three cards providing quick links to 'Create target to monitor compartments', 'Manage detectors to identify problems', and 'Stay alert with threat monitoring'.



Oracle Data Safe

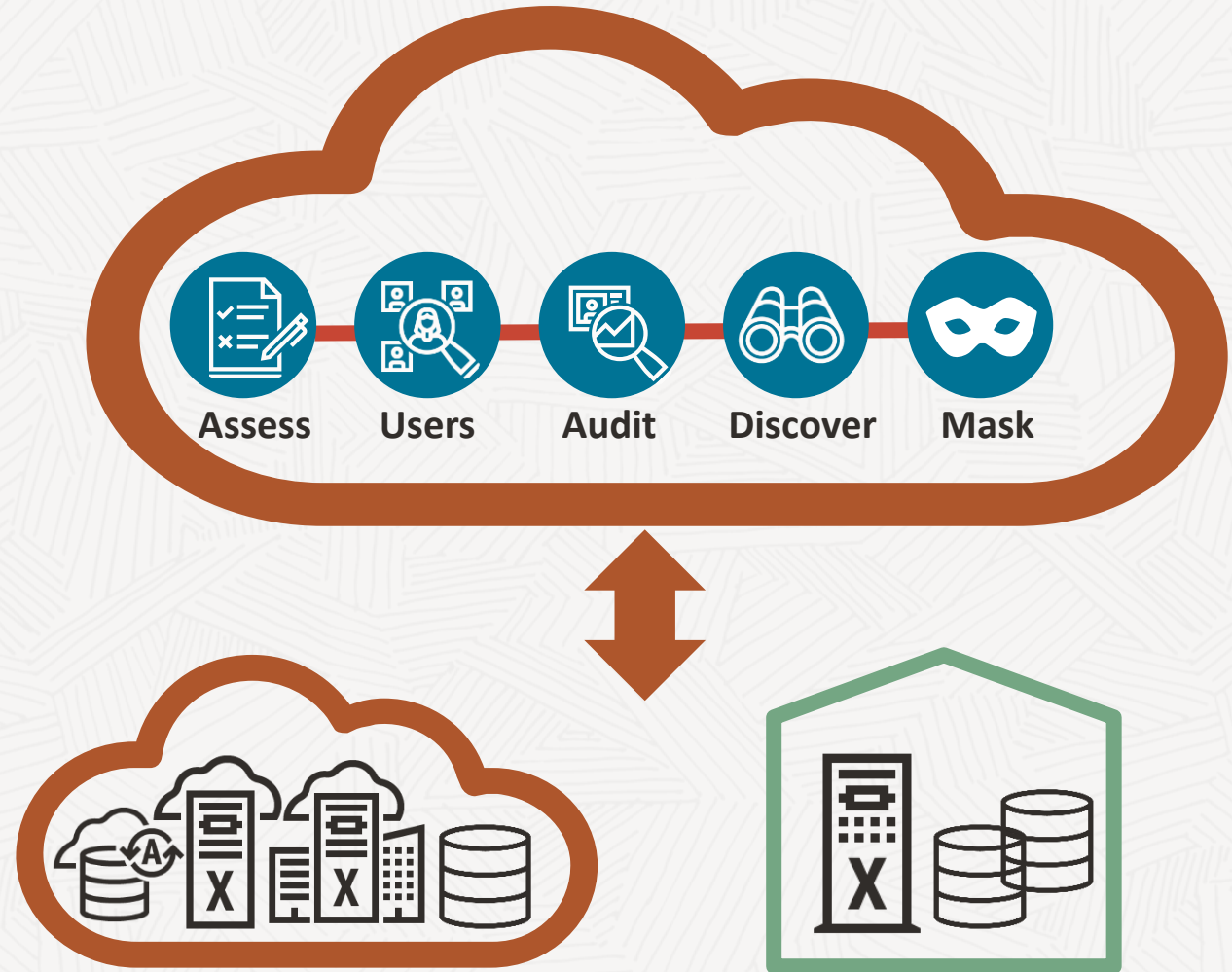
Unified database security control center

- Risk dashboard: configuration, data, users
- Monitor user activity
- Mask data for test environments
- Policy management and governance

Benefits

- ✓ No special expertise needed: click-and-secure
- ✓ Saves time and mitigates security risks
- ✓ Defense-in-depth security for all customers

Securing both your cloud and on-premises databases



Operator Access Control (OpCtl)

OpCtl enables customers to grant, audit, and revoke access to Exadata & Compute Cloud@Customer infrastructure by Oracle Cloud Operations team

- Actions controlled: diagnostics, maintenance, VM control, root
- Limit when operators have access, components they can access, commands they can execute
- All keyboard entries and commands are recorded and audited
- Operator connections can be terminated at customer discretion

Autonomous Database - OpCtl enables customers to control Oracle Cloud Operators access to Autonomous VM Clusters

OpCtl provides access control, and compliance management for customers who function under strict regulatory

