

HOUG Oracle Cloud workshop-sorozat

Oracle Cloud Infrastructure (OCI) alapozó

Kovács Norbert, Farkas **Miklós** 2023. szeptember 14.

Safe harbor statement

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Program

8:30 - 9:00	Regisztráció és reggeli
9:00 - 9:10	Köszöntő, workshop sorozat ismertetése
9:10 - 9:40	Oracle publikus felhő szolgáltatásainak áttekintése
9:40 -10:30	Alap fogadókörnyezet elemeinek áttekintése
10:30 -10:50	Kávészünet

10:50 -12:00 Fogadókörnyezet kialakítása és alkalmazás elhelyezése 12:00 -13:00 Ebéd

HOUG Oracle Cloud workshop-sorozat

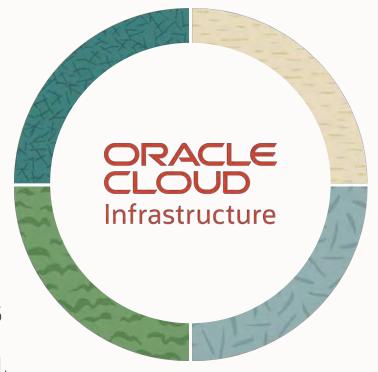
Distributed Cloud stratégia





Multicloud

Our products work with your other providers



X.

Hybrid cloud

We bring cloud services to you



Public cloud

Access cloud services in 45 global locations including Commercial, Governmental, and European Sovereign (2023)



Dedicated cloud



Oracle Cloud Infrastructure (OCI) alapozó





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Dedicated cloud



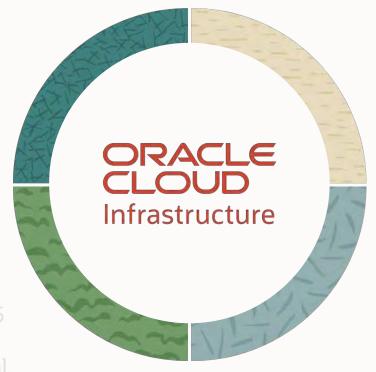
Oracle privát/hibrid felhő





Multicloud

Our products work with your other providers



Hybrid cloud

Oracle Exadata Cloud@Customer - Cloud autonomous databases running in customer data centers

Oracle Compute Cloud@Customer - Fully-managed rack-scale, OCI regional resource bringing cloud services on-premises

Oracle Cloud Vmware Solution - Complete control using familiar VMware tools



Public cloud

Access cloud services in 45 global locations including Commercial, Governmental, and European Sovereign (2023)



Dedicated cloud



Oracle Multi-cloud ajánlatai





Multicloud

OCI Interconnect with Azure - 2 millisecond latency private connection and identity federation

OCI Database Service for Azure - OCI databases provisioned and managed through Azure (AWS, GCP on roadmap)

Inbound Multicloud (Cloud Hub) - GCP, AWS, Azure services available in OCI (on roadmap)

MySQL HeatWave on AWS - Database runs on AWS and managed through OCI console



Public cloud

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Hybrid cloud

We bring cloud services to you



Dedicated cloud



Alkalmazás modernizáció





Multicloud

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Public cloud

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Dedicated cloud



Oracle felhő áttekintése



Telepítési opciók a szuverenitási elvárások szempontjából

	Commercial Regions Global operations	Government Regions US, UK & Australia operations	EU Sovereign Cloud EU operations	Dedicated Region Cloud deployed in your datacenter	Isolated Region Designed to work in disconnected mode	Oracle Alloy* Enables partners to become cloud providers
Data Center Location	Global	US/UK/Australia	EU	Customer-defined	Customer-defined	Partner-defined
Operations and Support	Oracle Global	US or UK or Australia personnel	Oracle EU	Oracle Global	Customer-defined	Partner-defined
Network Isolation (Realm)	Global realm	US or UK or Australia government realms	EU realm	Dedicated realm	Air-gapped, dedicated realm	Dedicated realm
Multi-tenancy	Yes	Yes	Yes	Customer's organization	Customer-defined	Partner's customers

Same OCI architecture, services, experience, and value

*coming soon



Az alapoktól építettük fel a felhőszolgáltatásunkat







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 quaranteed bandwidth between your resources, with 90% lower costs to access data and 80% lower costs to serve data



Maximum computing density per MW

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



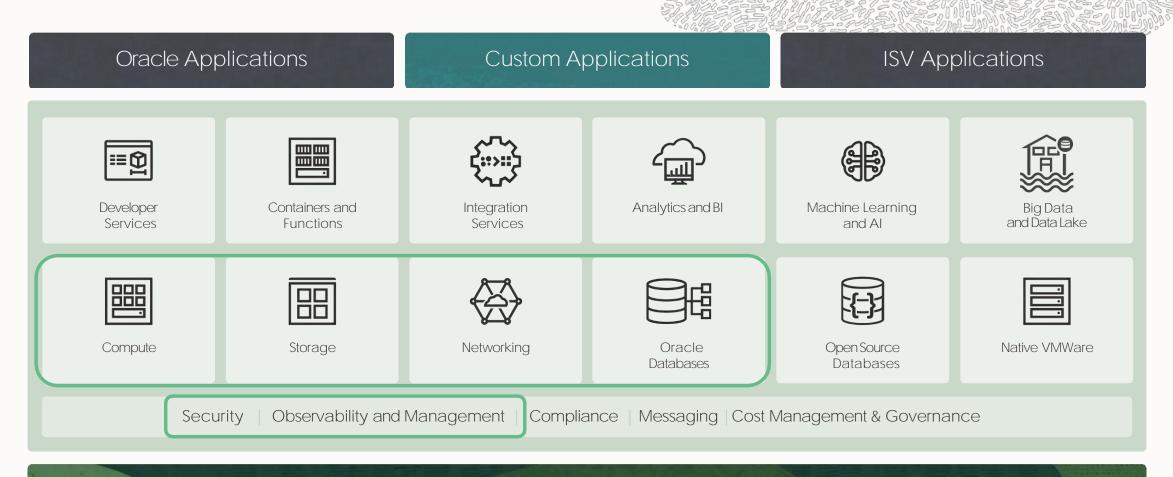
Simple, predictable pricing

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



Széles szolgáltatás portfólió, 100+ szolgáltatás



Global Cloud Datacenter Infrastructure

Commercial and Government Public Cloud Regions | Hybrid Cloud: Cloud@Customer, Dedicated Regions, Roving Edge



Nyílt és rugalmas választás

Managed services based on upstream open source

Reduce operational burdens and use the skills you already on your team.

Run the technologies you already use

Extend technology investments you've already made

Native integrations with the dev tools you're used to

Simplifies building, deploying, and managing applications with skills you already have





















& kafka

















redis







































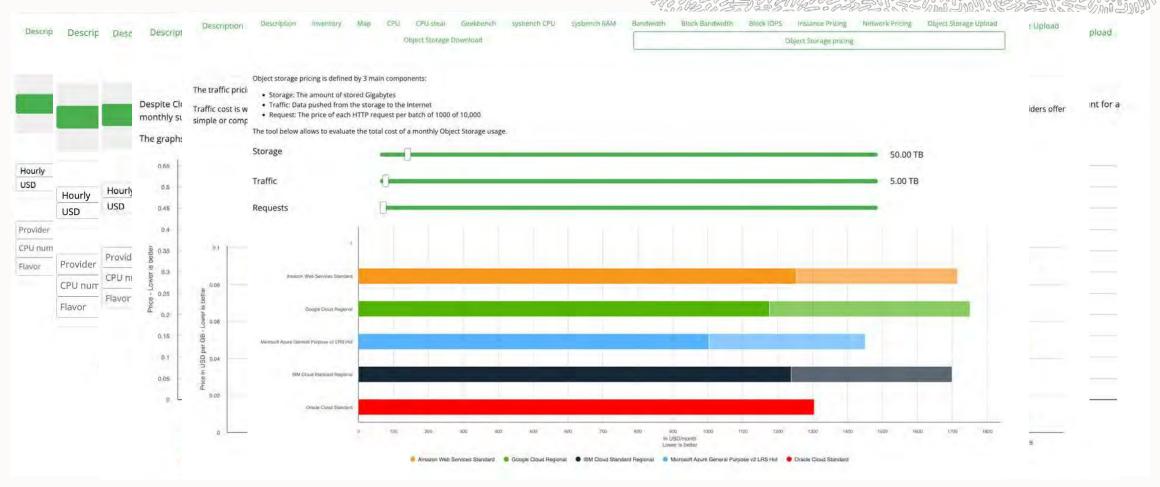






Benchmark

AWS vs Azure vs Google vs IBM vs Oracle - VMs Q2 2023



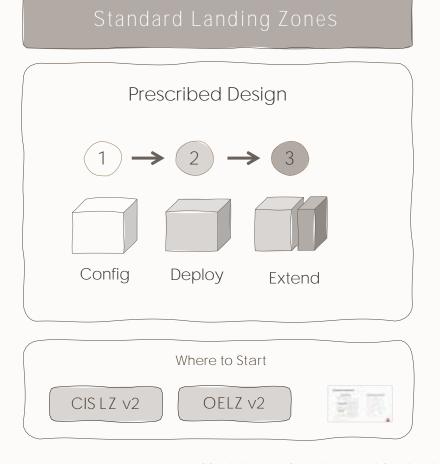
https://projector.cloud-mercato.com/projects/aws-vs-azure-vs-google-vs-ibm-vs-oracle-vms-q2-2023



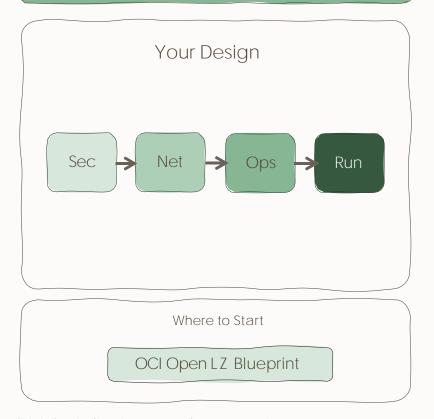
Fogadókörnyezet/Landing Zone



Landing Zone koncepció (standard, tailored)



Tailored Landing Zones

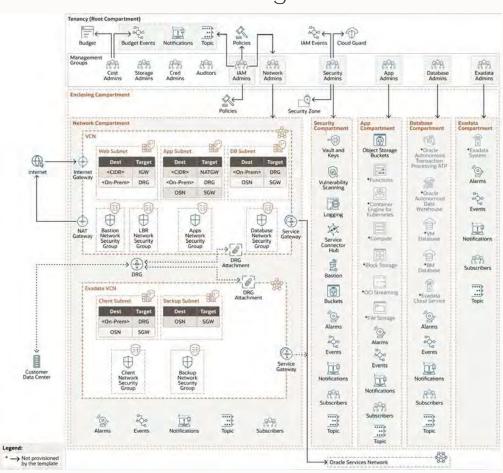


https://github.com/oracle-devrel/technology-engineering/blob/main/landing-zones/README.md

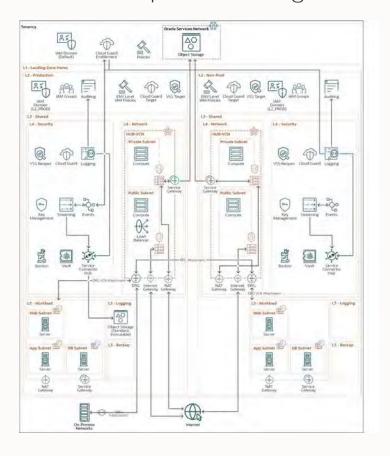


OCI Standard Landing Zones

CIS Landing Zone



Oracle Enterprise Landing Zone

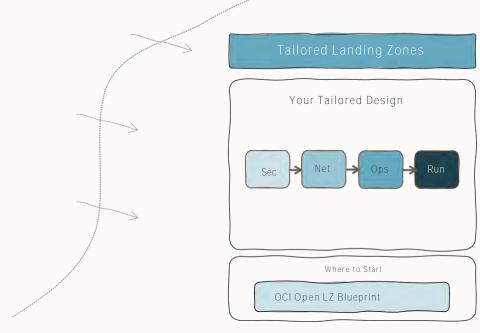




Tailored Landing Zone



- 1. Onboarding and reflecting your organization structure & business units.
- 2. Fine grained segregation of duties and responsibilities across resources.
- 3. Highly tuned network design and security posture.
- 4. Mirror existing landing zones on other CSP.
- 5. Heterogeneuous/Large workloads landscape.
- 6. Adopting a highly scalable operating model.

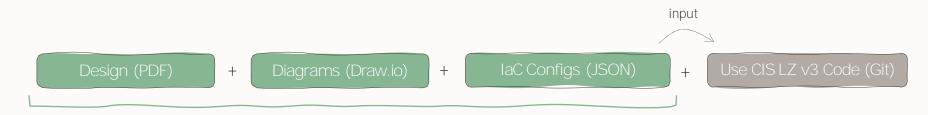




OCI Open LZ

OCI Operating Entities Landing Zone

A blueprint to simplify the Onboarding of Organizations, Business Units, and Subsidiaries into OCI.

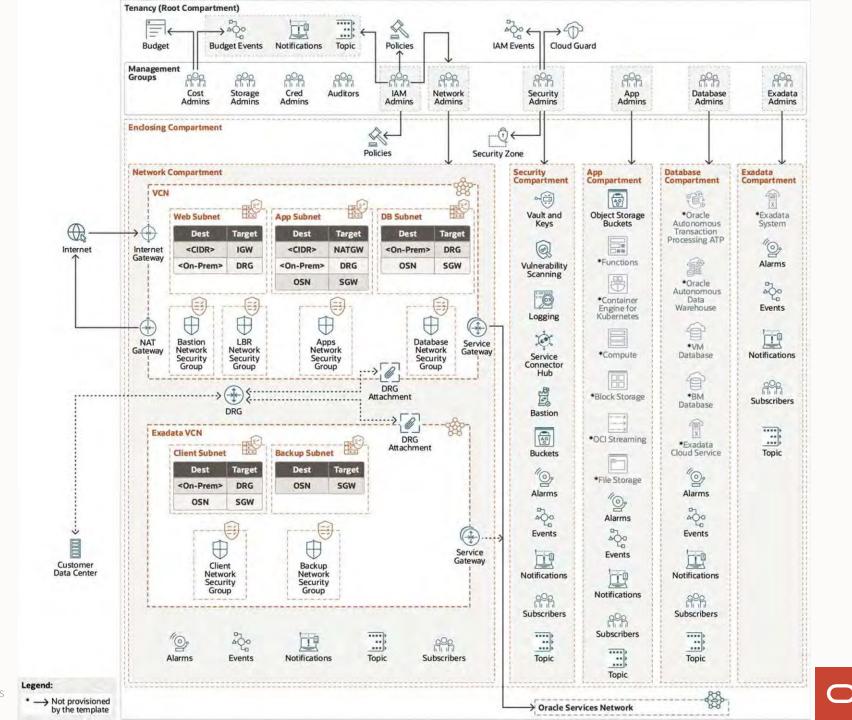


https://github.com/oracle-quickstart/terraform-oci-open-lz



Fogadókörnyezet elemeinek áttekintése

CIS Landing Zone



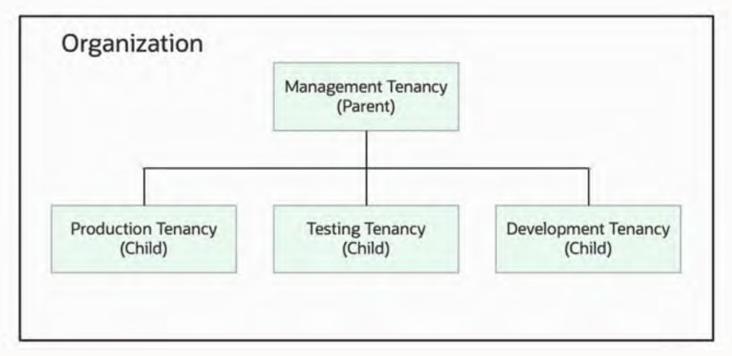
Organization Management

Tenancy, Compartment, Availability Domain, Fault Domain



Tenant kezelés

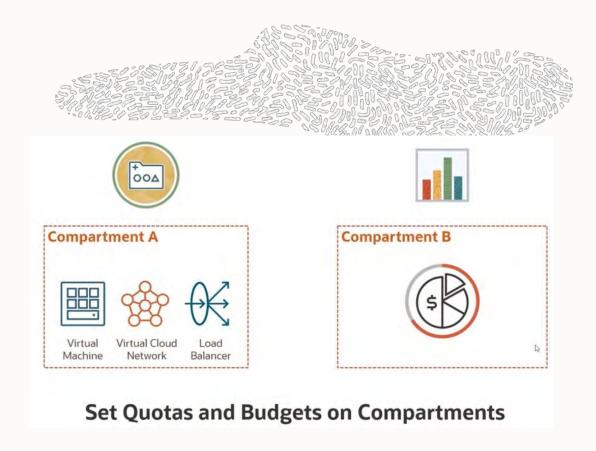






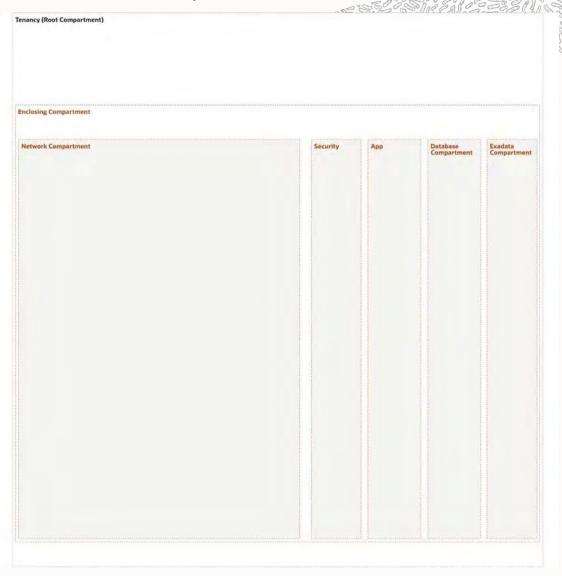
Compartment koncepció





- 1) Compartments can be **nested** and can be **six levels** deep (Six levels of nesting).
- 2) Allows you to write policies for the **root compartment** or even more granular on the **sub-compartments**.
- 3) You could **set quotas** on the shapes of the VM's that the compartment is allowed to consume.
- 4) You can also set a **Spending budget** on each compartment.
- 5) Resources from **multiple regions** can be in the same compartment, you can restrict access to users based on region.

Landing Zone architektúra - compartment





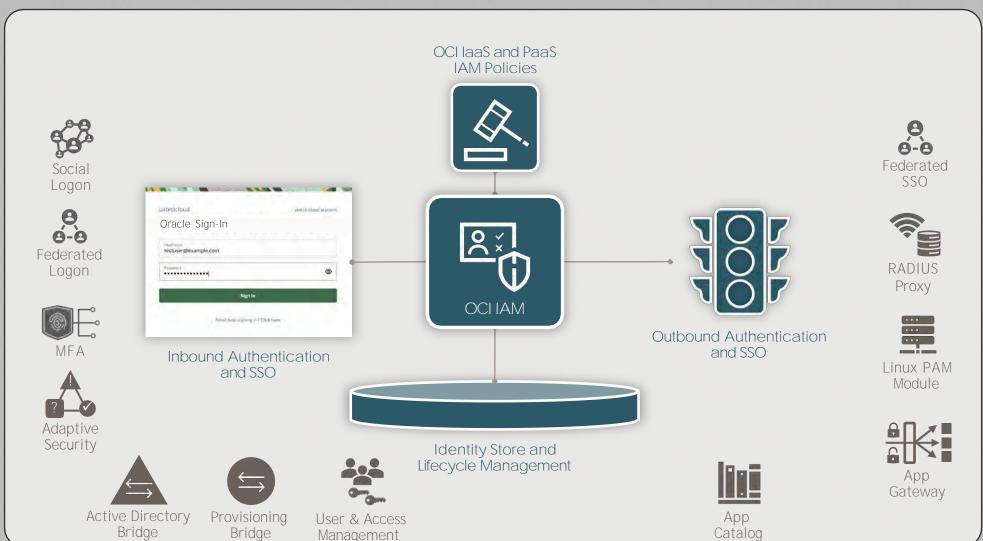
Identity and Access Management

Authentication, Authorization, Identity, Policies



OCI Identity & Access Management (OCI IAM)

Enterprise Identity & Access Management







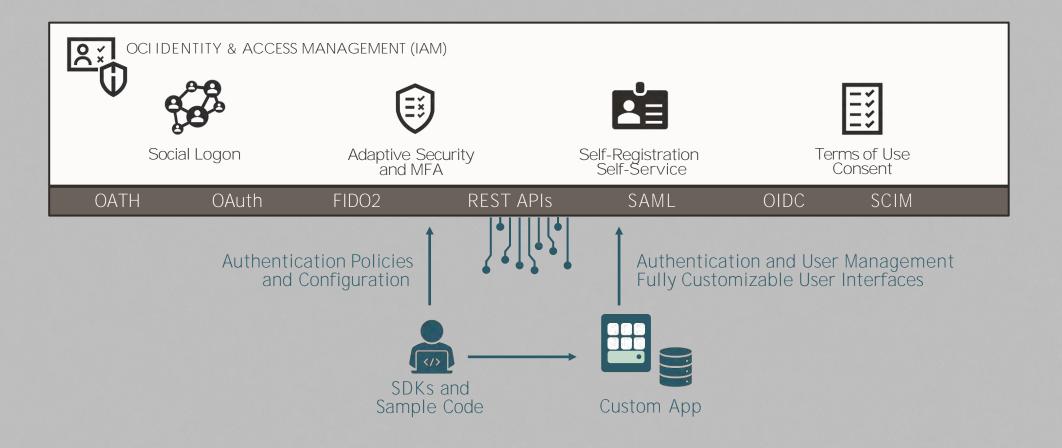






OCI Identity & Access Management (OCI IAM)

IAM Domains for Application Developers





AuthN options



Social / Username & Password

Oracle generated token strings



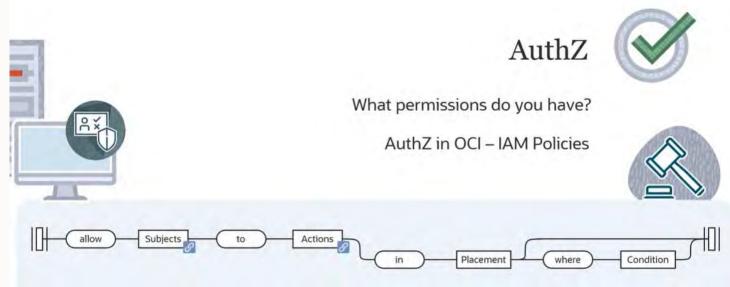
Using OCI API + CLI / SDK

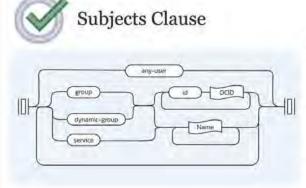
```
begin

DBMS_CLOUD.create_credential (
    credential_name => 'OBJ_STORE_CRED',
    username => '<userXX>',
    password => '<your Auth Token>'
);
end;
/
```



AuthZ - Security Policy





Subjects are a clause for the various ways that an authenticated actor can be addressed:

- · By membership in an Identity registered group (e.g., "group Admins", "group id ocid1.group.oc1....")
- · As a service, for OCI services (e.g., "service objectstorage-us-sanjose-1")
- · As a wildcard, with "any-user" (any request from the tenancy)
- · More than one name or group can be named in Subjects element. These can be chained by kind (e.g., "group Alice, Bob")

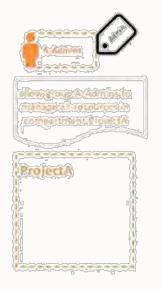


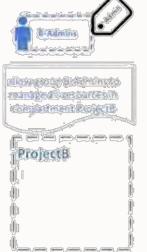


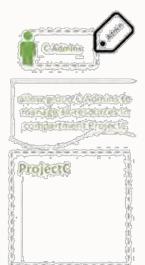
AuthZ - Tag-Based Access Control

Example











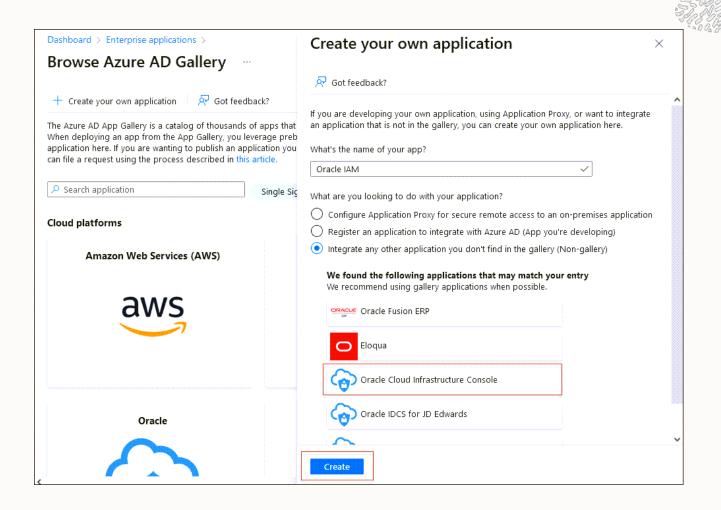
allow any-group to manage all-resources in compartment Test where request principal group tog Employer Group Rele e'Admin'

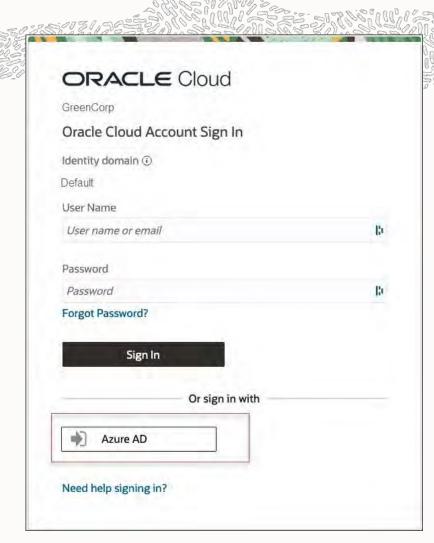


- All existing admin groups with the tag have access to Test compartment.
- Any new group tagged with EmployeeGroup.Role='Admin' will have access without updating policy statements



Azure AD federációs példa







Landing Zone **architektúra** - IAM

