Oracle ACE Associate

From on-premises to OCI

A practical guide to move your Oracle Application

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OCI Architect



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MCX Administration Services in Apeldoorn







MCX in a flash

MCX

ENGINEERED FOR IT

About us

- Started September 1st 1999
- Technical Administrators of Oracle Apps

- Focus on automating

- High focus on security from top to bottom

- Hosting of Oracle Apps
  - Private Cloud
  - Oracle Cloud Infrastructure
  - Multicloud (OCI/Azure)



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Agenda

1. The power of OCI for your application
2. Technical solutions that benefit Oracle Applications
3. Cost and budget
4. Future ready solutions



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The power of OCI

Run your Oracle Apps in Oracle Cloud Infrastructure

Oracle Cloud is Infrastructure, Platform, & SaaS in One Cloud

Oracle Cloud Applications
Industry | ERP | EPM | SCM | HCM | ACX

Custom Applications
Migrate with minimal rearchitecture

ISV Applications
Hundreds to choose from


Developer Services


Containers & Functions


Integration


Analytics & BI


Machine Learning & AI


Data Lake


Compute & AI Infrastructure


Storage


Networking


Oracle Database


Open Source Databases


Operating Systems, Native VMWare

Security | Observability | Compliance | Messaging | Governance

Distributed Cloud

85 Commercial and Government Public Cloud Regions | Cloud@Customer | Dedicated Cloud | Roving Edge | Multicloud

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OCI Helps You Leverage Your Existing Technology Investments

Use our managed open source or run your 3rd party and open source on better infrastructure

Oracle Cloud Infrastructure

OCI-Managed Open Source Services

kubernetes, docker, MySQL, kafka, hadoop, Apache Spark, OpenSearch, fluentd, Valkey, Terraform, cloudevents, OPEN API INITIATIVE, fn

Key Supported Tech & Integrations

Red Hat, Oracle Linux, Ubuntu, CentOS, Debian, SUSE, Microsoft, vmware, aws, Google Cloud, Microsoft Azure, OPENSHIFT, OpenJDK, GraalVM, PyTorch, LangChain, mongoDB., cassandra, Hyperledger FOUNDATION

Key Dev Tools

GitHub, HELM, ATLASSIAN, ANSIBLE, NVIDIA

Security | Observability | Compliance | Messaging | Governance

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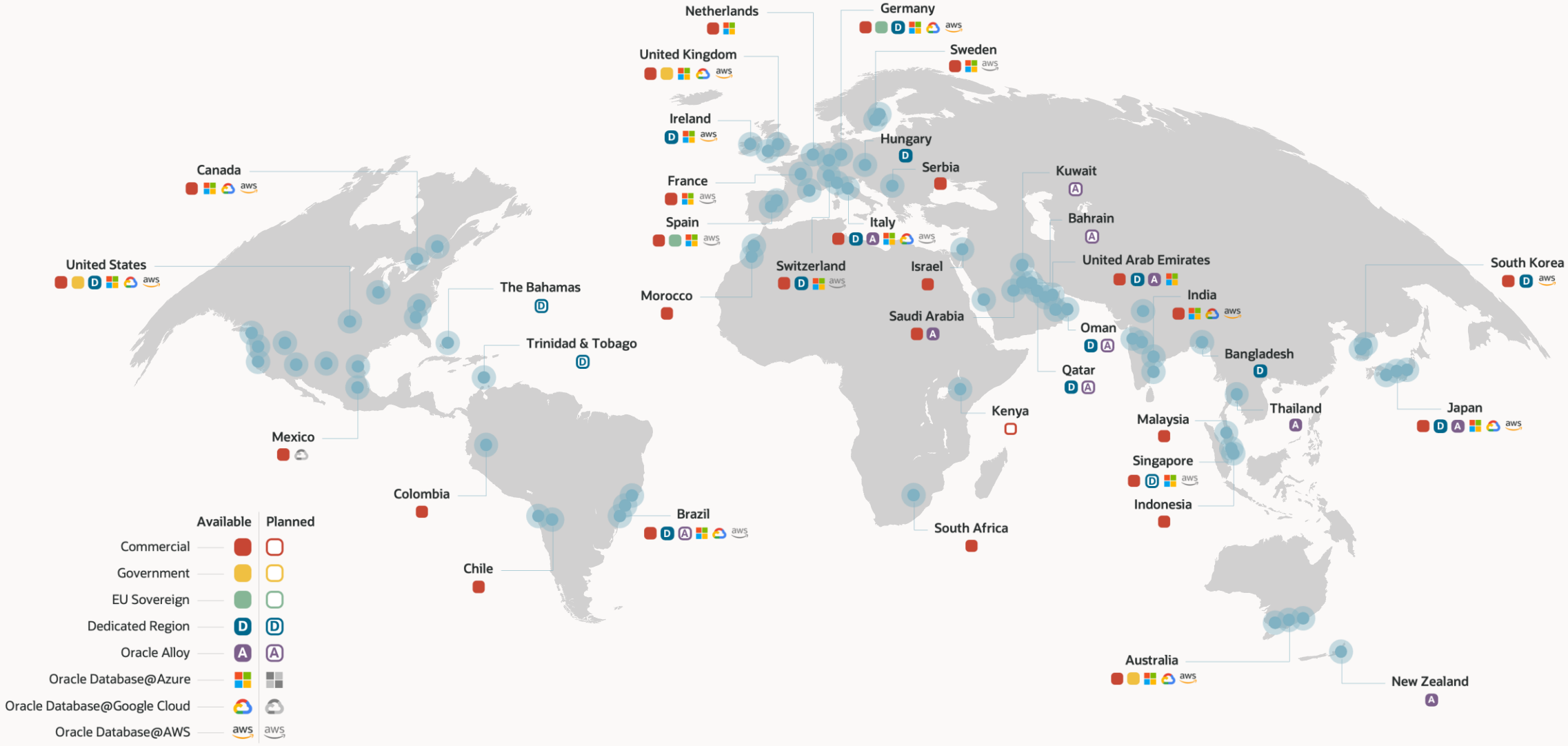
Oracle Cloud Infrastructure global footprint

Updated April 14th, 2026

200+ live and planned regions



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Technical Solutions

How to make your migration a success

Technical layers

Landingzone

- Foundational work
- First time right

Services to choose

- Iaas vs PaaS
  - Lift & Shift
  - Move & Improve
- Less is more

Configuration of services

- Patch management
- OS Management
- Security

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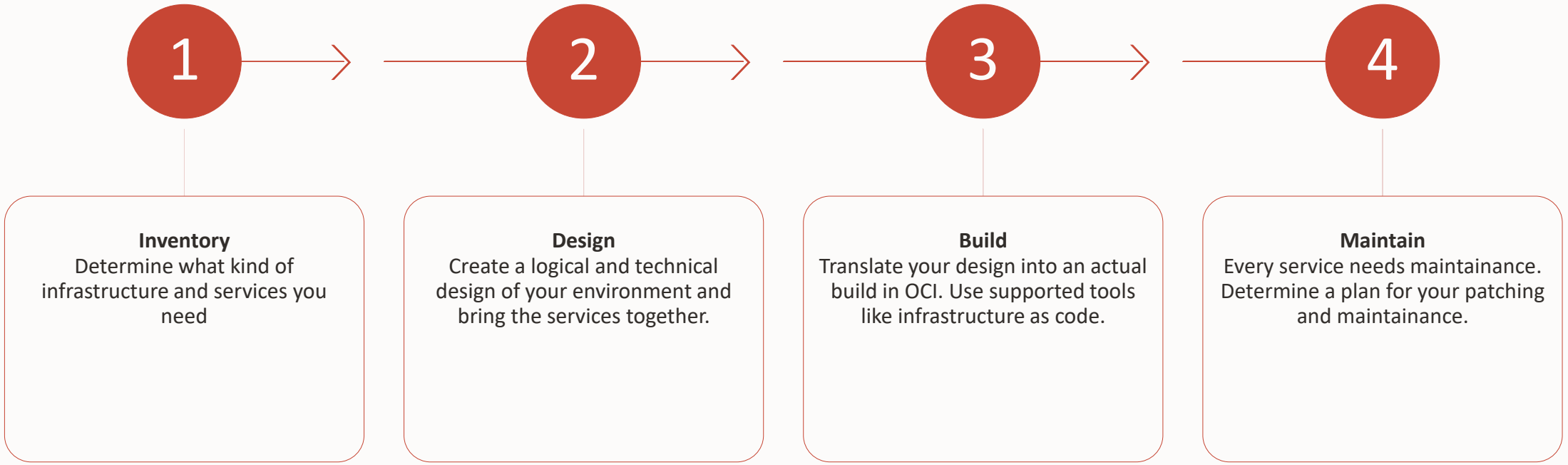
Landingzone

The foundation of every OCI environment



How does that work in practice?

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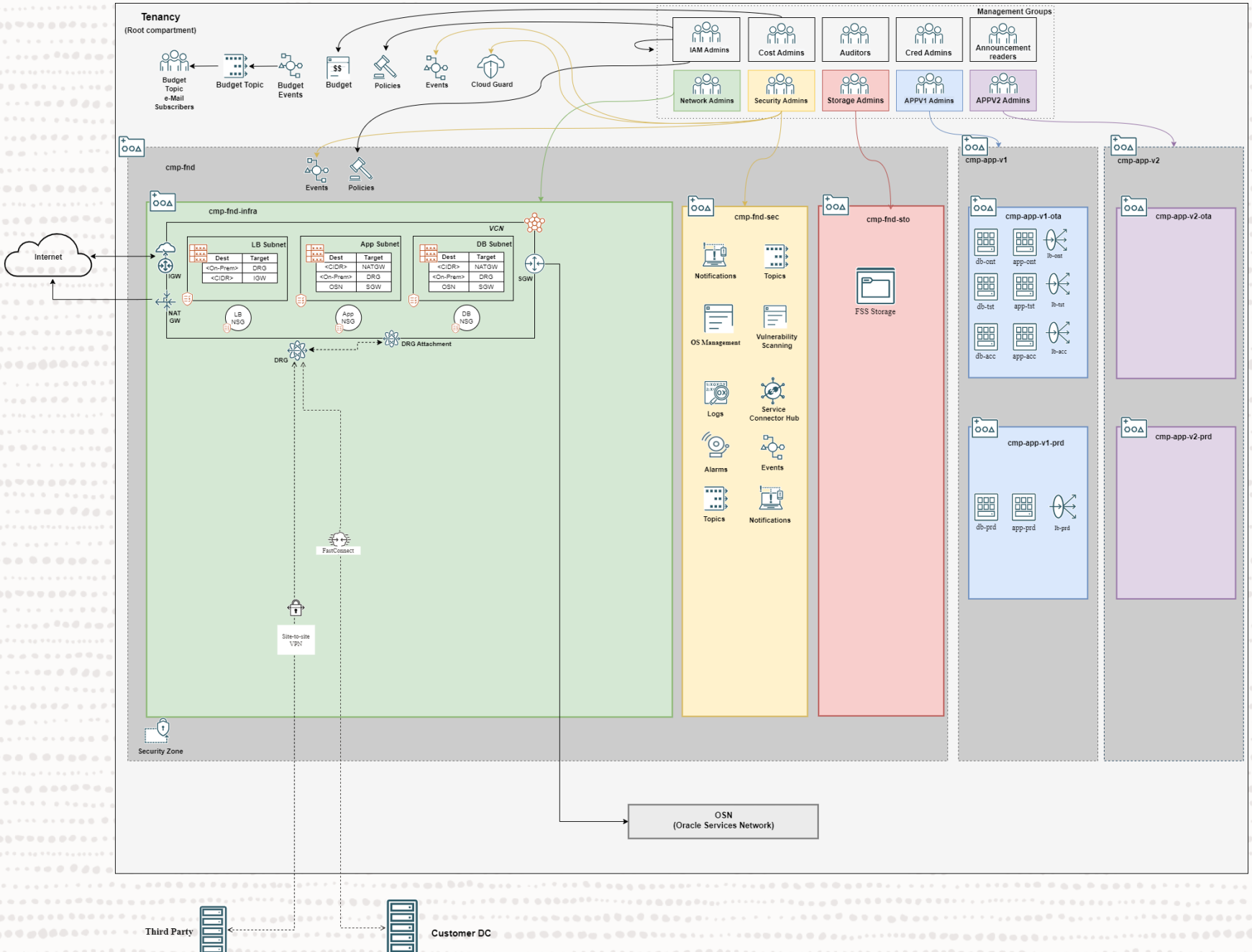

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Services if your choosing

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Running Oracle Apps on OCI

PROVISION & CLONE WITH

Cloud Manager

The building blocks you choose from for each layer of an Oracle Apps deployment — from how users reach it, to where the application tier and database run, to how it is all secured.

Users & on-prem
Browsers, Forms, integrations, data centre

01 · EDGE
Network & connectivity

02 · APPLICATION TIER
Virtual machines

03 · DATABASE TIER
Oracle Database

04 · ACROSS EVERY LAYER **Security, identity & compliance**

Network & connectivity

Virtual Cloud Network (VCN)
Private network with separate subnets for load balancer, app tier and DB tier

FastConnect
Dedicated private link (1–100 Gbps) from your data centre for predictable latency

Site-to-Site VPN
Encrypted IPSec tunnels over the internet; also a backup path for FastConnect

Dynamic Routing Gateway (DRG)
Routing hub joining on-prem, VCNs and other regions (DR)

Load Balancer
Spreads web traffic over multiple app-tier nodes, terminates SSL

DNS (public & private)
Resolves OCI hostnames but also internal hostnames if preferred

Gateways
Determine the method of access to resources, like services and the internet

Virtual machines

Compute VM – Flex shapes
x86 AMD / Intel shapes on Oracle Linux; size OCPUs and memory per app node

Bare Metal instances
Whole physical server for large app tiers or licensing needs

Dedicated VM Hosts
Single-tenant hosts for your VMs, for isolation or compliance

Block Volume
Boot and data volumes for the application file system, with backup policies

File Storage (NFS)
Shared application tier file system across multiple app nodes

Object Storage
Backups, clone sources and lift-and-shift staging

OS Management Hub
Central OS patching and package management for the VMs

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Base Database Service
Oracle-managed DB on VMs (EE / High / Extreme Performance), RAC option

Exadata Database Service
Dedicated Exadata infrastructure for the largest, most demanding database loads

Exadata Cloud@Customer
Same Exadata service, running in your own data centre

Autonomous Database (Dedicated)
Self-patching, self-tuning DB on dedicated Exadata infrastructure

Database on Compute
Self-managed DB on a VM when you need full OS-level control

Data Guard
Standby database in another AD or region for HA and disaster recovery

Autonomous Recovery Service
Managed, protected DB backups with near-zero data loss

Security

IAM & Identity Domains
Compartments and policies; single sign-on into Oracle Apps

Network Security Groups
Per-tier firewall rules, e.g. only app nodes reach DB port 1521

Web Application Firewall
Filters attacks on internet-facing traffic

Bastion
Time-limited SSH sessions to private hosts, no public IPs needed

Vault
Customer-managed keys (TDE, volumes) and secrets such as APPS passwords

Data Safe
DB security assessment, user audit and data masking for clones

Cloud Guard & Security Zones
Detects misconfigurations and enforces security policies per compartment

Plus: Monitoring · Logging · Full Stack DR

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By using the native features of OCI, you leverage the best performance and support of Oracle

Let’s discuss two implemented examples

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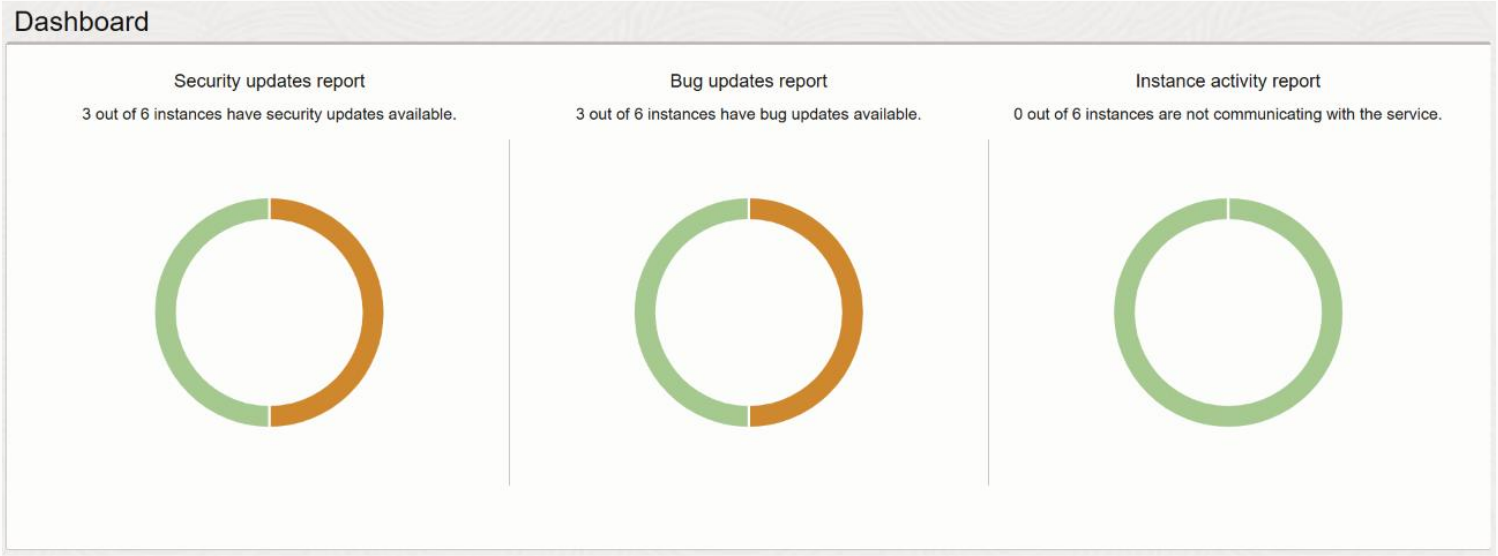
OS Management

Keep control of your Operating System

- Agent to control your OS
- Keep track of installed packages and versions
- Clean dashboards



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OS Management Hub: repository snapshots

Freeze a vendor repo at a point in time, then promote exactly that content through your environments



Predictable patching

Package versions stay fixed — every server gets the same known set

Safe promotion

Prod only receives what Dev and Test already validated

Audit-ready

A versioned, locked baseline shows what was approved, and when

No configuration drift

Rebuilt or newly scaled instances match their siblings

Fast to create

One click, CLI or API call — easy to automate.

Curate with filters

Use snapshot, filter or package-list sources for tighter control

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DNS Management

Integrate communication with external servers

- Prepare OCI to work with your on-premises servers
- KISS
- When integrating SaaS and PaaS it is mandatory



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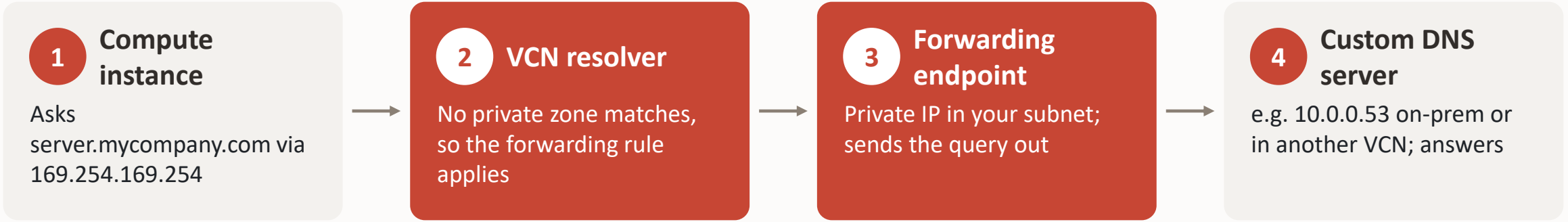
Resolving custom domains with OCI DNS forwarders

Queries for mycompany.com leave the VCN resolver and are answered by your own DNS server



Setup in four steps

1. **Create a forwarding endpoint** on the VCN's private resolver, in a subnet with 2 free IPs
2. **Add a resolver rule:** domain mycompany.com, destination 10.0.0.53, source = that endpoint
3. **Open the path:** TCP/UDP 53 from the endpoint IP to the DNS server (NSG/security list + DRG route)
4. **Keep 169.254.169.254 in DHCP,** then test from an instance: dig server.mycompany.com

Resolver lookup order

1. Private views (attached, then default)
2. Resolver rules, first match wins
3. Internet DNS

A private zone for the same domain answers first, so the rule never fires.

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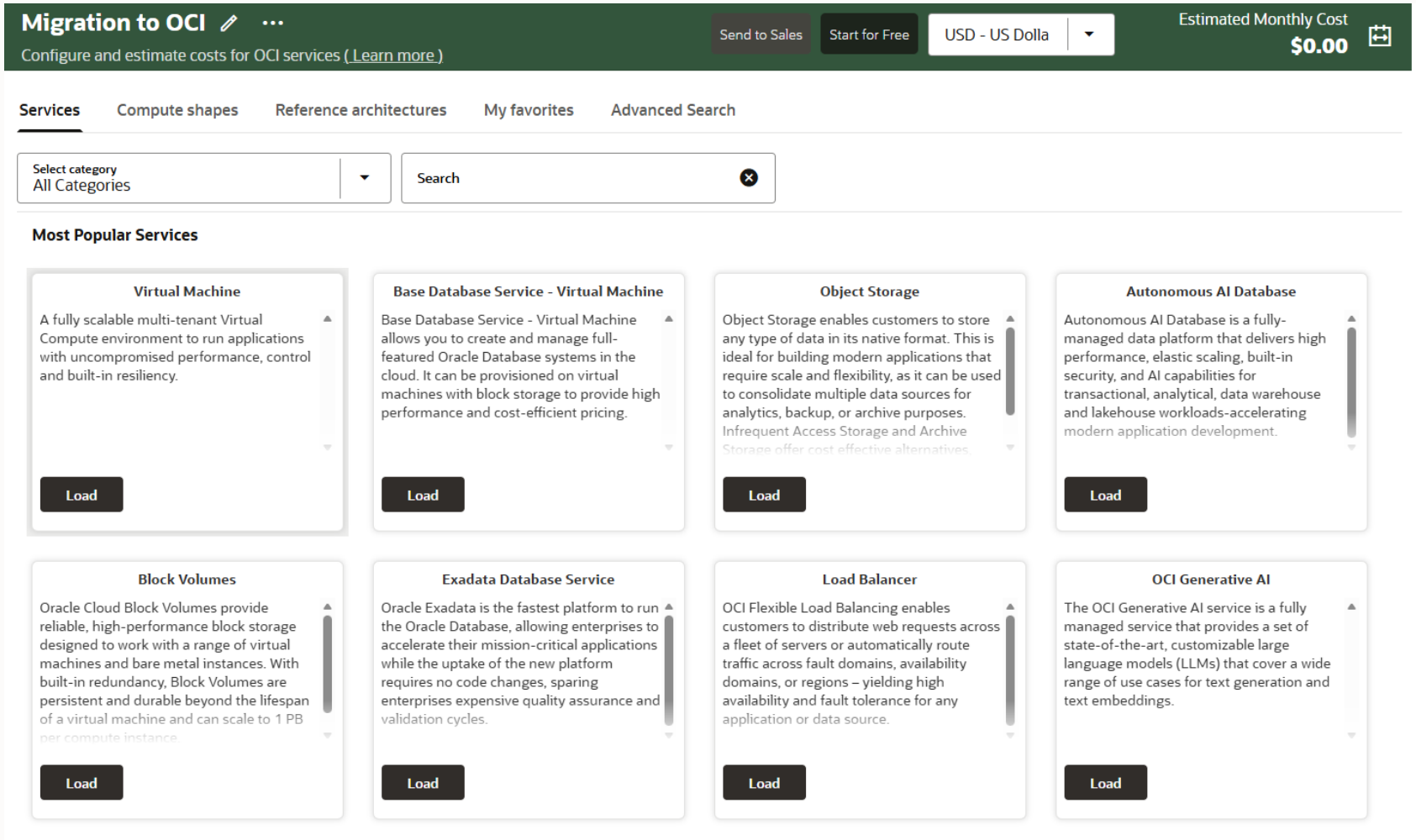
Cost and budget

Keep control of your financials

Calculate the investment

- Use the Oracle Cost Estimator
- Oracle involvement needed

This is an estimation!



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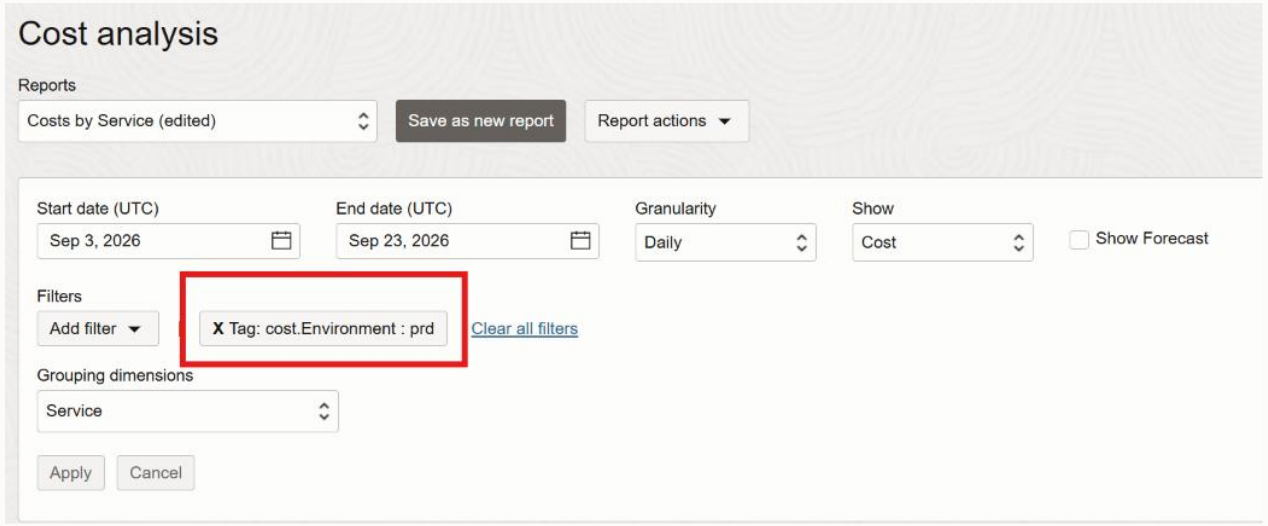
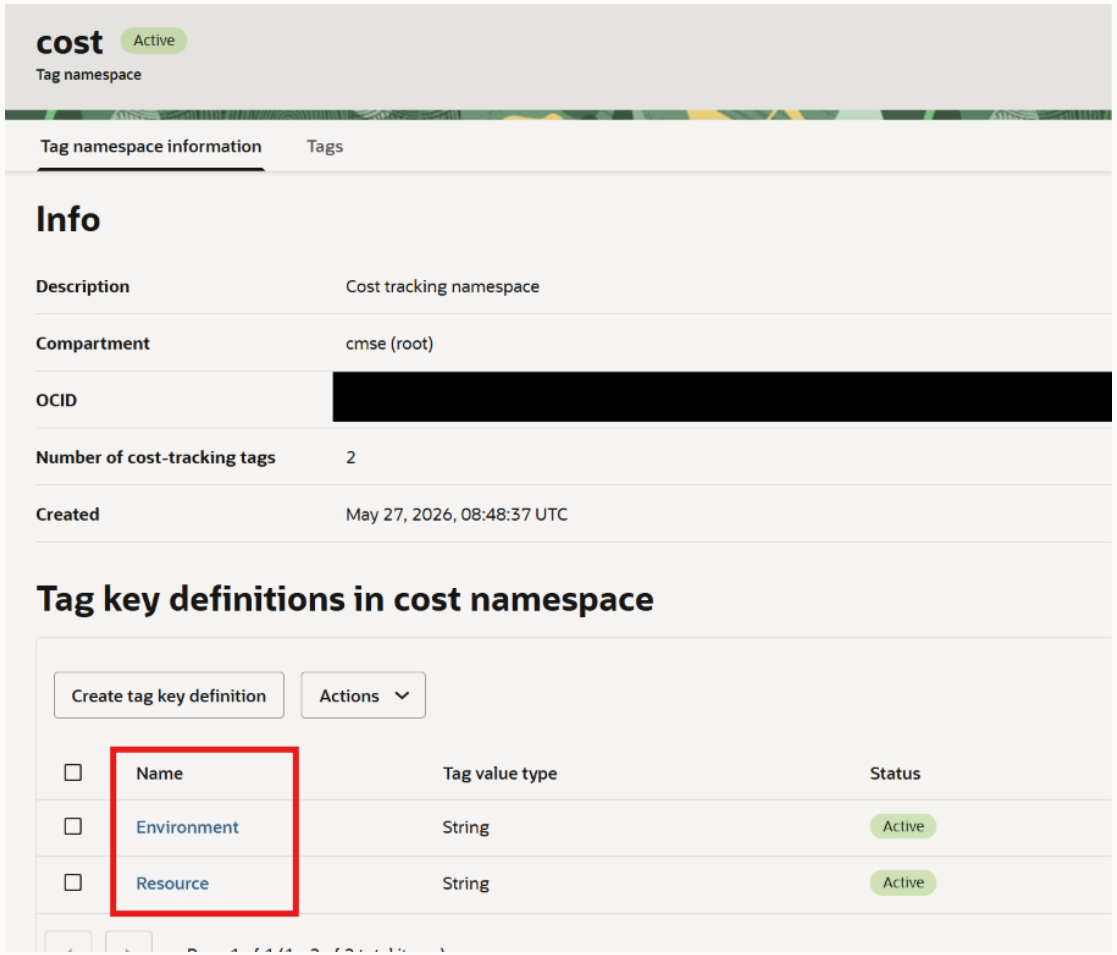
Tagging

Control your budget with tagging

- Default tagging in compartments
- Automated reports

Tip! Use budgets on compartments





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Free native core services in OCI

Two groups: free in every tenancy with no cap, and Always Free with usage limits

FREE IN EVERY TENANCY — NO CAP

Identity & governance

IAM, compartments, policies, tagging, quotas, budgets, cost analysis, Audit, Resource Manager

Networking

VCNs, subnets, NSGs, security lists, Internet / NAT / Service Gateways, LPG, DRG; inbound traffic

Security

Cloud Guard, Security Zones, Security Advisor, Vulnerability Scanning, Bastion, Vault software keys

Management

OS Management Hub (for OCI instances), Events, Oracle Linux with no license cost

ALWAYS FREE — UP TO LIMITS

Compute (AMD)	2 × E2.1.Micro VMs
Compute (Arm A1)	4 OCPU, 24 GB RAM
Block Volume	200 GB, 5 backups
Object Storage	20 GB
Autonomous DB	2 × 20 GB
Load Balancer	1 × 10 Mbps
Outbound data	10 TB / month
Site-to-Site VPN	50 IPSec tunnels
Logging	10 GB / month
Email Delivery	3,000 / month

Still billed: egress above 10 TB, remote peering, FastConnect, extra public IPs, HSM keys above the free allowance, Cloud Guard premium features



Future ready

What is next?

AI Data Platform

Extend your application with Artificial Intelligence

- Service in OCI
- Bring AI to your application
- Build a datawarehouse
- Bringing native AI agent for Apps Unlimited



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Oracle Fusion

SaaS to replace Oracle Apps

- Oracle Integration Cloud Adapters
- New implementation



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Roadmap

Coming to OCI

- Full Stack Backup Recovery
- NetApp Storage System (ONTAP)



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Thank you

Time for some Q&A

Or hit me up on the floor!