



Move on-premise applications to the cloud using Marketplace VMs

Sid Joshi

Business Development Director

EMEA OCI Platform Services | Application Development

 www.linkedin.com/in/sid-joshi

 [@SidJoshi_uk](https://twitter.com/SidJoshi_uk)



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Business Needs are Driving Enterprises Towards Cloud Consideration

STRATEGIC



Introduce more products, take them to market faster, respond faster to changes in requirements.

Improved **Agility**,
Rapid Innovation

FINANCIAL



Reduce over-provisioning, and move from fixed to variable costs, lowering total cost of ownership.

Pay-As-You-Go,
Elastic Scaling,
True Cost Control

BUSINESS OPS



Reduce risk of interrupting business operations, recover faster from outages and failures.

Reduced Risk,
Increased
Resilience

IT OPS



Automate standard operations, redirect IT to support higher value business processes.

Repeatable Best Practices
(Infrastructure-as-Code)

Cloud Migration Objectives

WebLogic Server Evolution : On-Premise & Cloud

Dev and DevOps

Java EE 7 and Java SE 8

Tooling: IDEs, Maven, Gradle,
CI/CD, Provisioning, Testing



Oracle Cloud

High Availability

Zero Downtime Patching
Multi Data Center/DR support

Kubernetes

Certification and best practices

Tooling: Operator, Monitoring,
Logging, Migration, Patching



On-Premise Systems
Including Private Clouds

Manageability

REST Management API
Auto-Scaling

Why Move Custom Applications to Oracle Cloud

Extended Benefits vs On-Premises and Other Clouds



Superior performance and lower TCO, backed by SLAs



BYOL and Pay-as-you-Go licensing options, for flexible deployment of dev-, test- and production environments



Security from the core to the edge, with fine-grained controls



Automated fast provisioning of WLS and DB with best practices to minimize admin time and maximize productivity



Extensive support for JavaEE and WebLogic migrations to Oracle Cloud



Most comprehensive database migration services in the industry - 95% of WebLogic migrations involve DB migrations too!



56% lower TCO vs onprem

40% lower TCO vs AWS

Improved **Flexibility** and Support for Agile Deployment

More **Secure** and Easier to Manage

Migrate in **hours/days**, not months

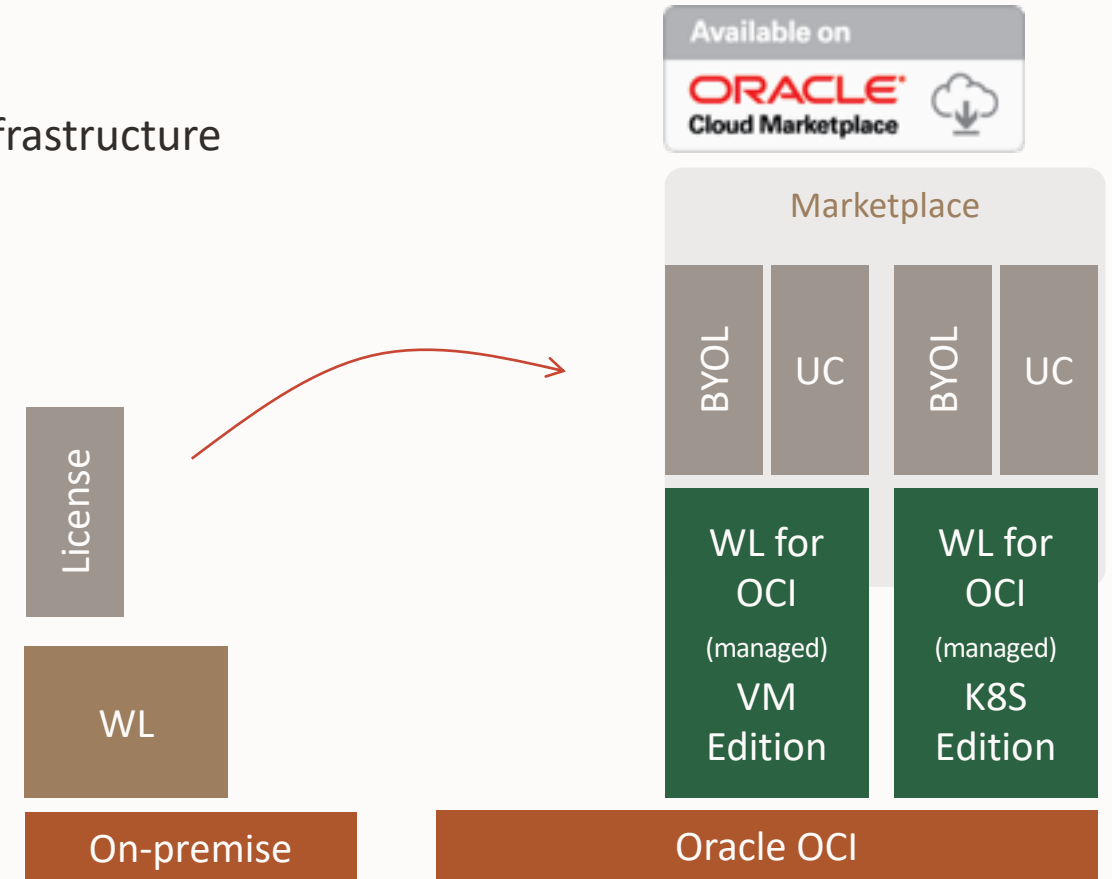
Oracle WebLogic Server for Oracle Cloud Infrastructure

Customer managed Oracle WebLogic Server for Oracle Cloud Infrastructure

- **Bring Your Own License (BYOL):** 3 Options
 - Standard, Enterprise and Suite
- **Universal Credit (UC):** 2 Options
 - Enterprise and Suite

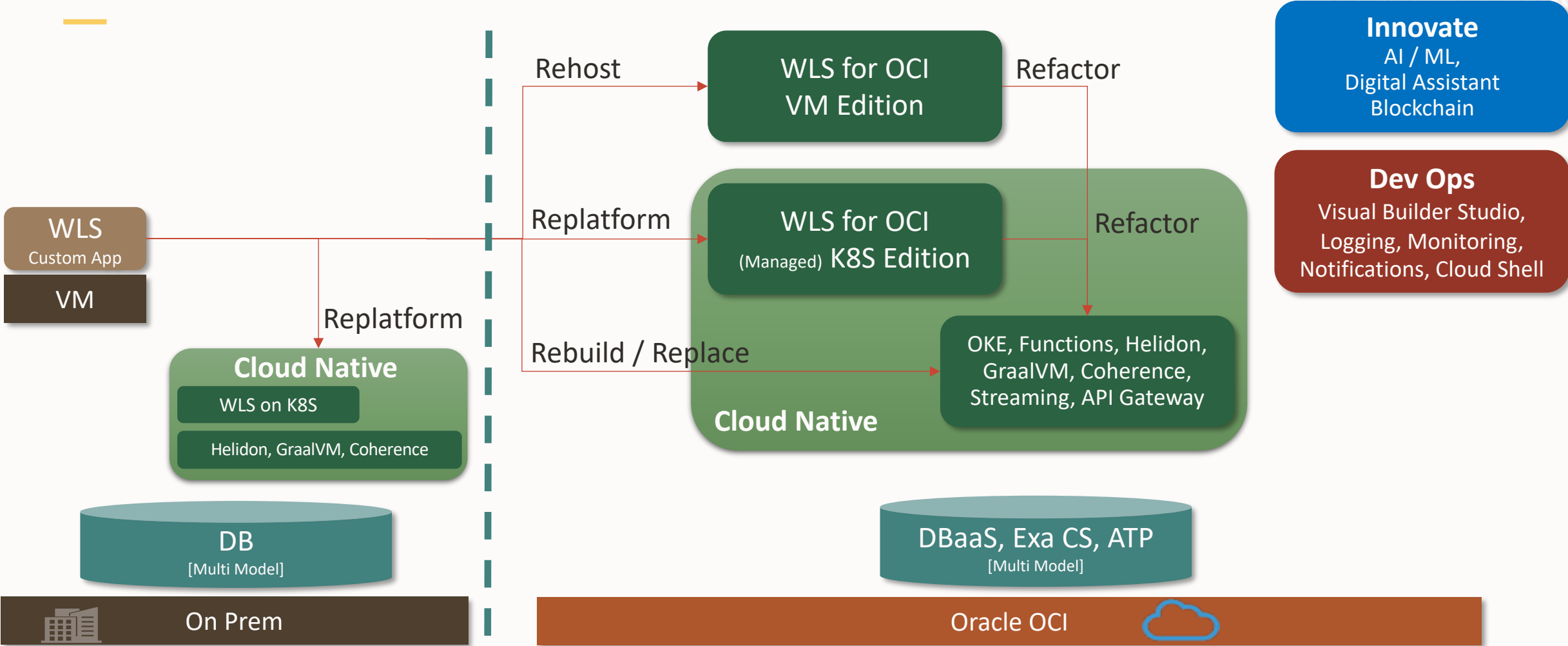
Supports

- WebLogic Server **11g** (10.3.6) [VM]
- WebLogic Server **12c**
 - 12.2.1.3 [VM]
 - 12.2.1.4 [VM, **OKE**]
- Supports JRF and Non-JRF domains
- Supports ATP DB and OCI DB as infra DB



More information – [WLS for OCI](#), [WLS for OKE](#)

Middleware Modernization Pathways: Application Modernization



Summarizing the Benefits of WLS for OCI versus On-Premises

BYOL and UCM



Instant Access To Cloud Capacity

- Short lead time
- Self Service
- On demand consumption model
- Automated scaling



Full Stack Automation

- Provision in 15 min
- Automated patching
- Infra as Code



True Cost Control: Lower TCO

- Elastic configurations
- Existing license with BYOL
- Pay for what you use with UCM
- Lower Operational cost
- Superior performance

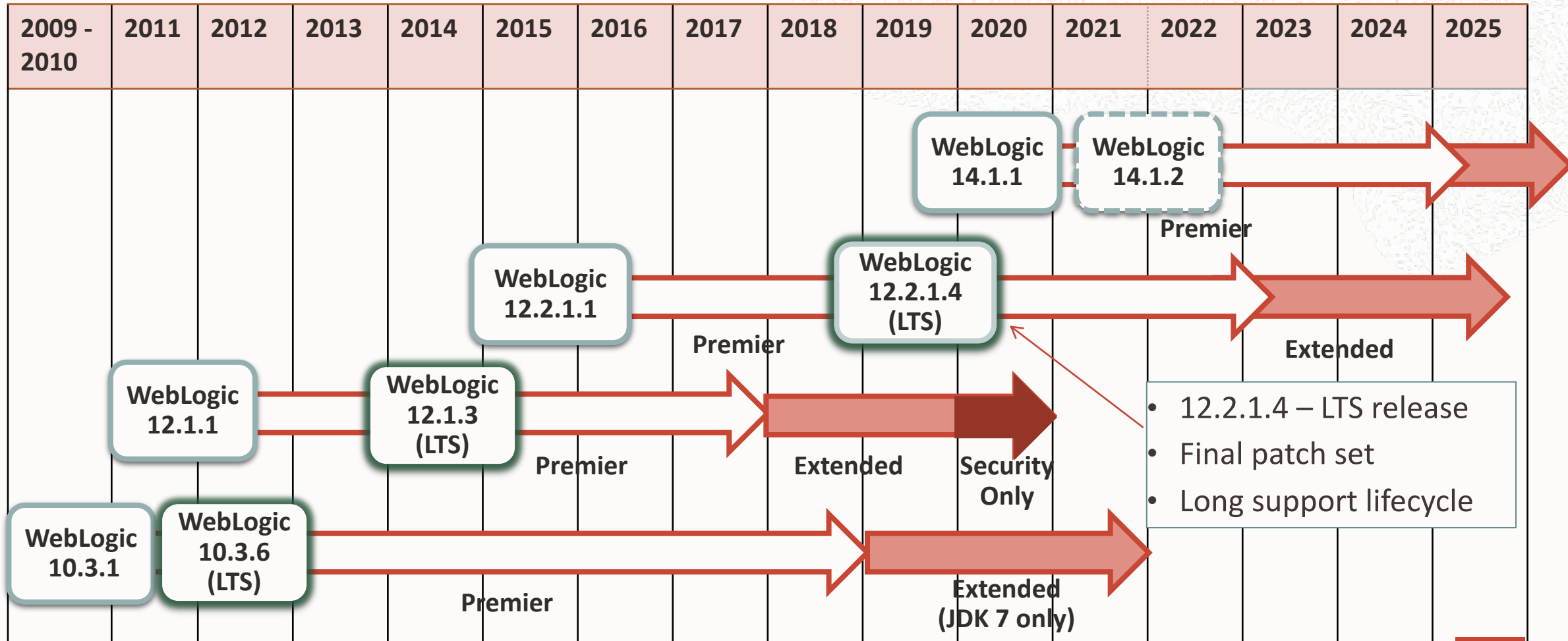


Operational Excellence

- Faster time to market
- Always secure platform
- DevOps enabled
- Low-cost DR

WebLogic, Coherence Version Support

Leverage WebLogic, Coherence 12.2.1.4 Error Correction Through 2025

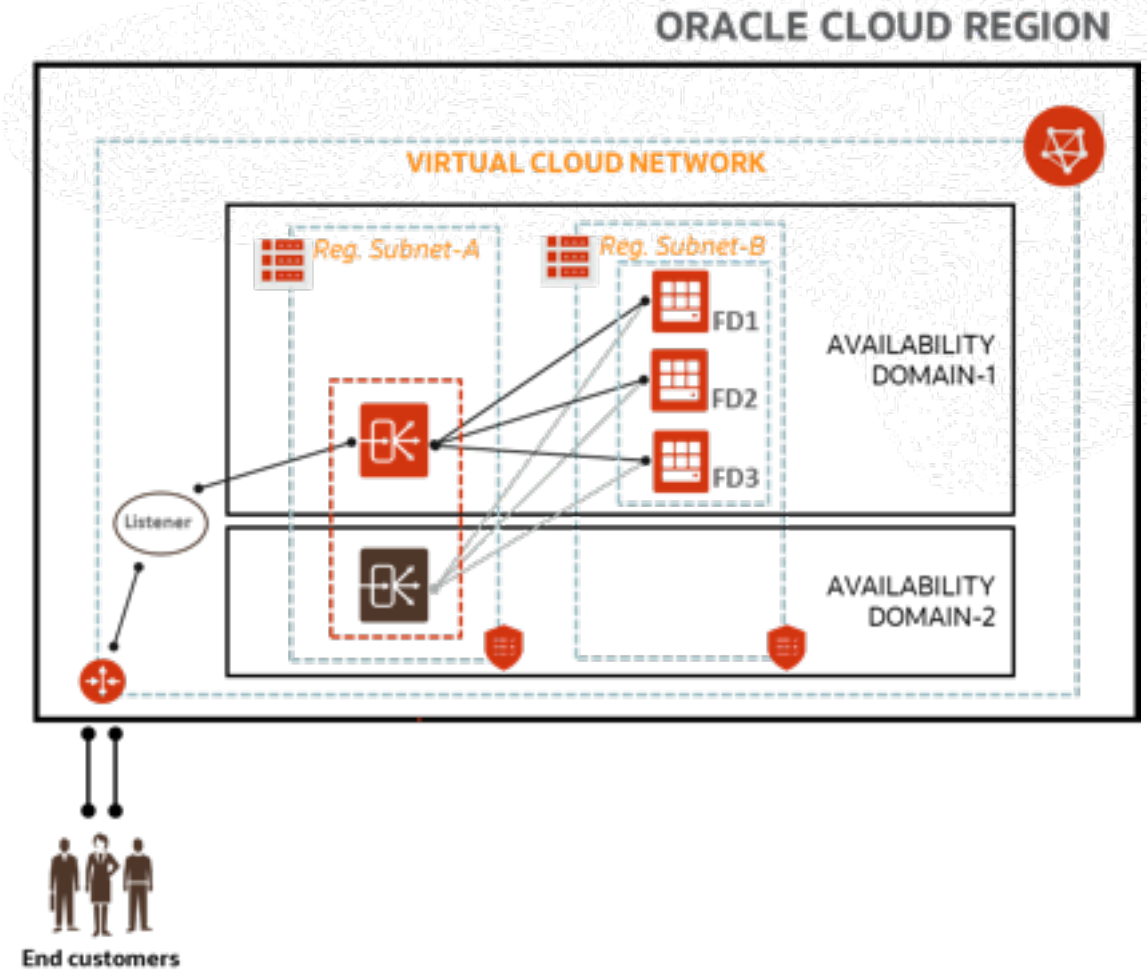




Oracle WebLogic for OCI Topology

WLS for OCI – High Availability (HA)

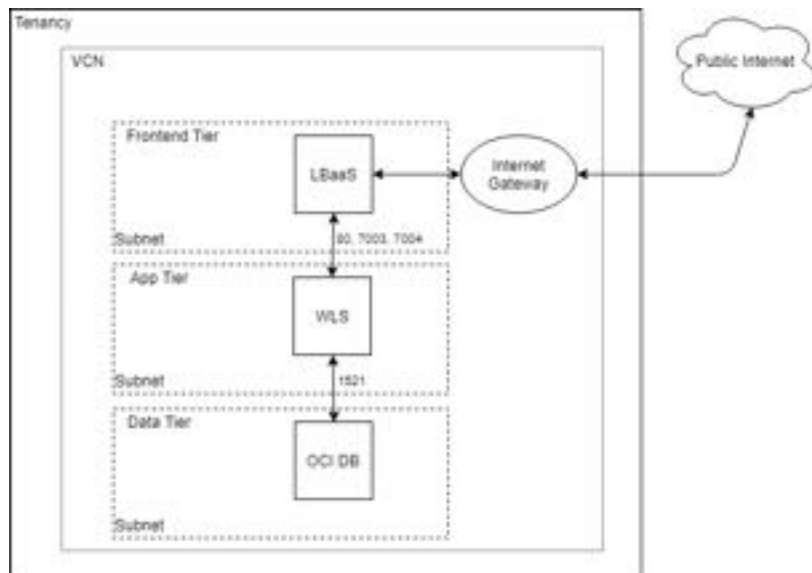
- Nodes are distributed across OCI Availability Domains (AD) so they are not on the same physical hardware
- Hardware failures or maintenance events that affect one fault domain do not affect instances in other fault domains.



WebLogic for OCI – Network topology

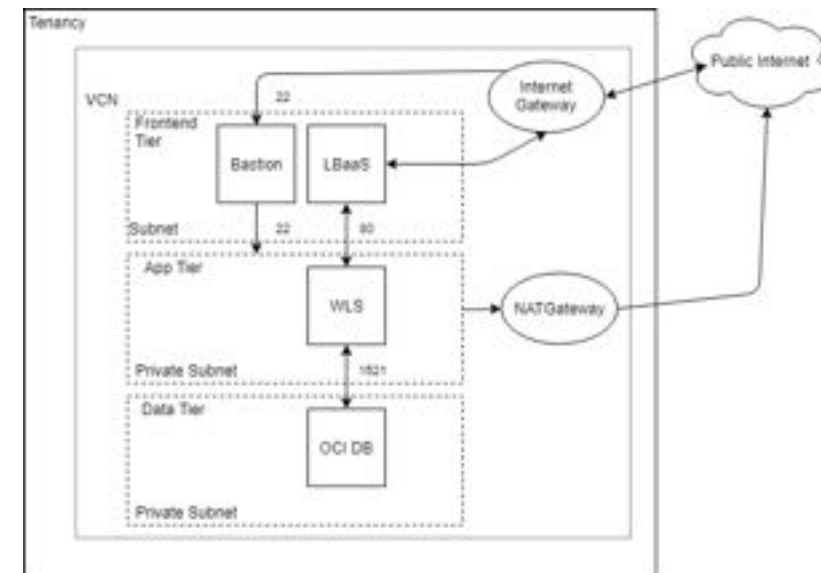
Public Subnet Provisioning

In this topology WLS and Load balancer subnets are created as public subnets with security rules and routing rules.



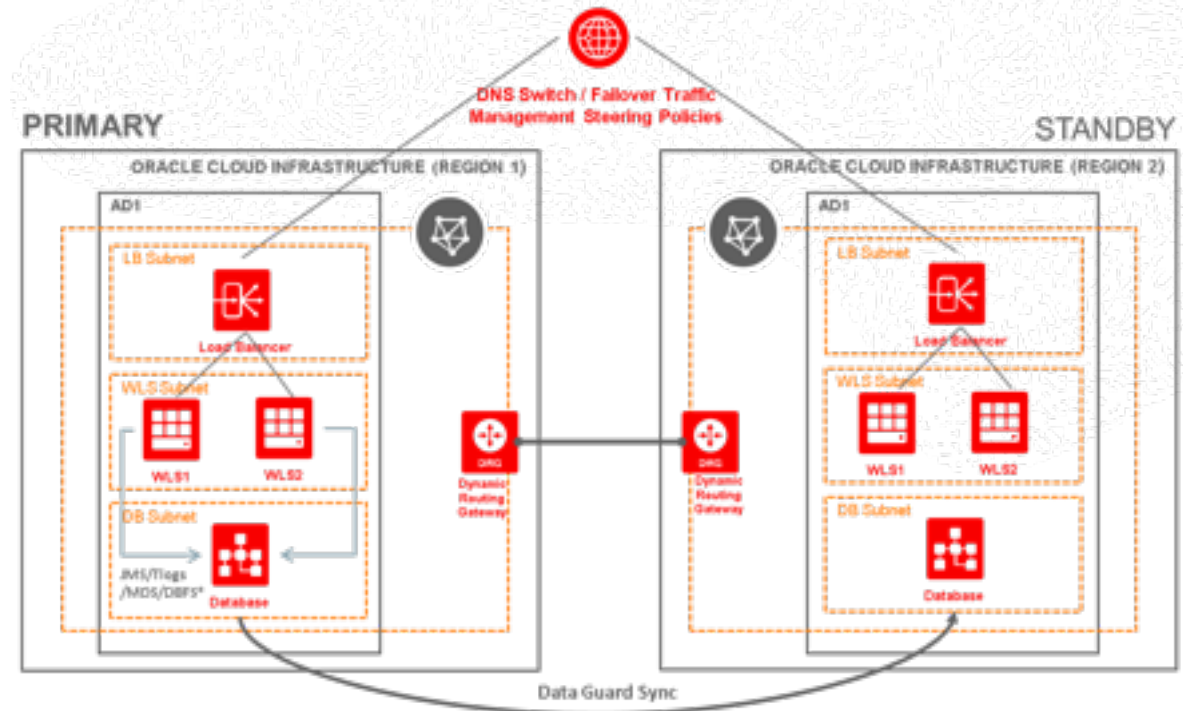
Private Subnet Provisioning

This topology creates WLS in private subnet and LB and, bastion host in the public subnet.



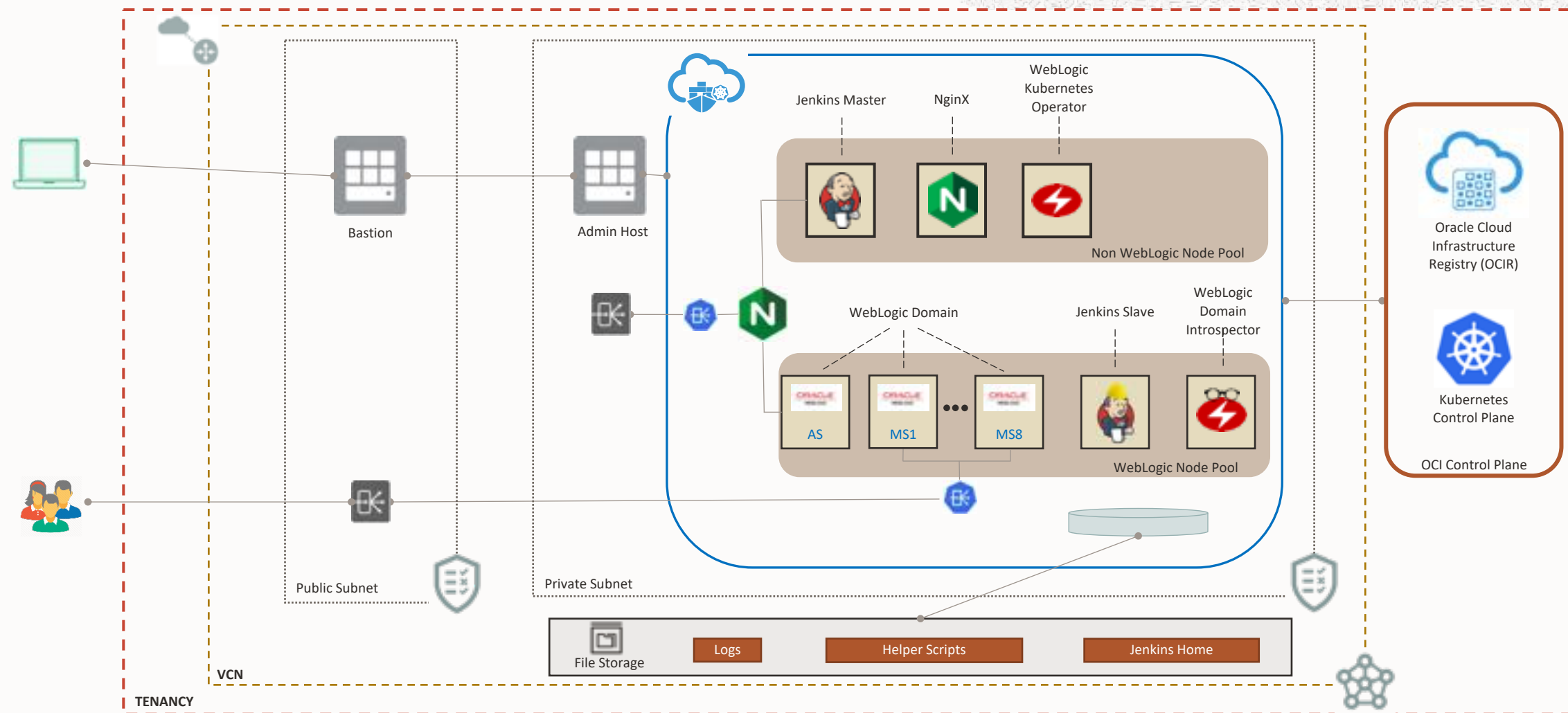
WLS for OCI – Disaster Recovery (DR)

- Single Region with multiple ADs / Cross Region Strategies
- Based on DBFS and Data Guard
- Maximum Availability Architecture (MAA)
Whitepaper and tools
<https://www.oracle.com/a/otn/docs/middleware/maa-wls-mp-dr.pdf>



WebLogic for OKE

Topology



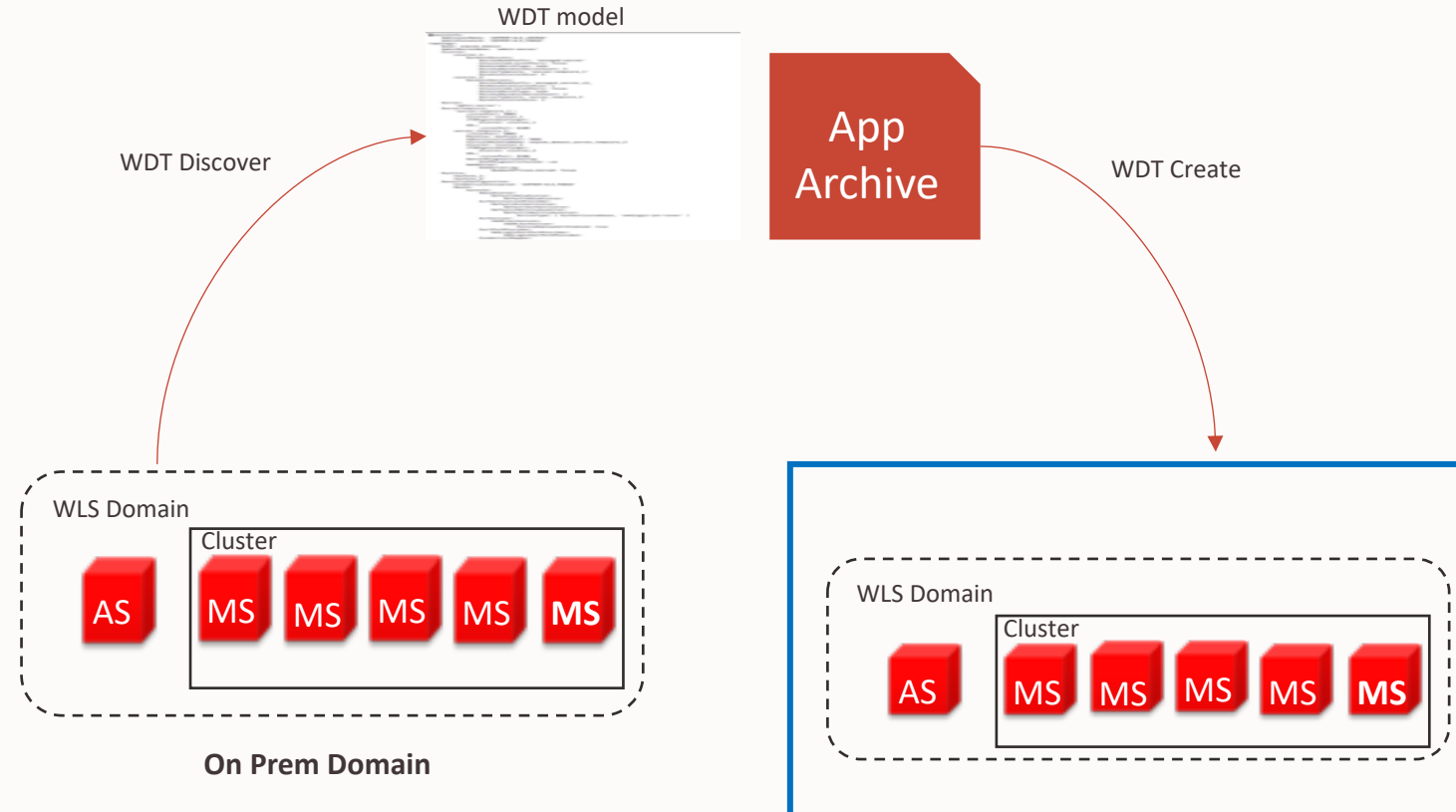


Migration Tooling

WebLogic Deploy Tooling

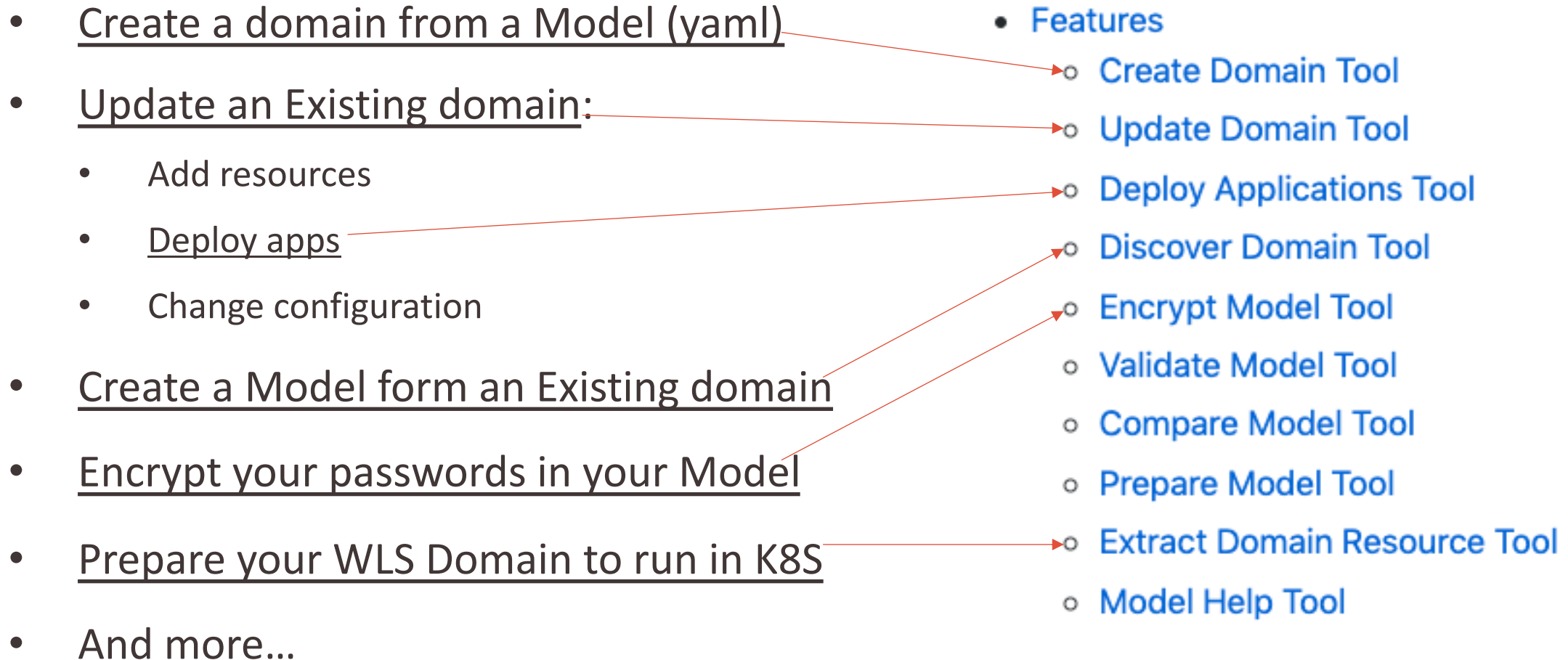
Migrate your WLS Domains

- Introspect domains
 - WebLogic 10.3.6, 12.1.3, 12.2.1.X
 - Create a **WDT Model** (yaml) and **Application Archive**
 - Migrate existing domains and applications
 - Upgrade (if required) to 12.2.1.X
- Customize and Validate configuration to meet destination requirements
- Update from Model and deploy Apps

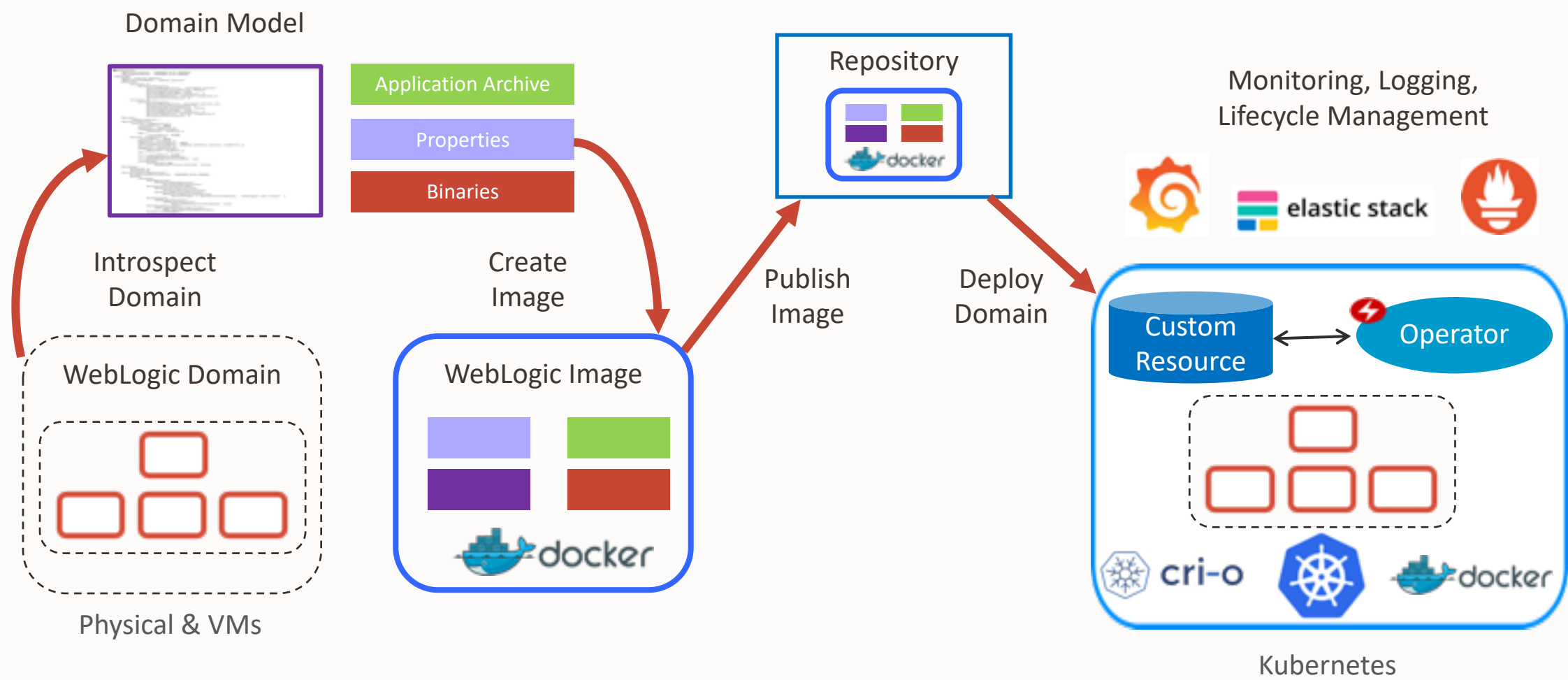


WebLogic Deploy Tooling

OpenSource Project By Oracle

- Create a domain from a Model (yaml)
 - Update an Existing domain:
 - Add resources
 - Deploy apps
 - Change configuration
 - Create a Model form an Existing domain
 - Encrypt your passwords in your Model
 - Prepare your WLS Domain to run in K8S
 - And more...
- **Features**
 - Create Domain Tool
 - Update Domain Tool
 - Deploy Applications Tool
 - Discover Domain Tool
 - Encrypt Model Tool
 - Validate Model Tool
 - Compare Model Tool
 - Prepare Model Tool
 - Extract Domain Resource Tool
 - Model Help Tool
- 

WebLogic Kubernetes ToolKit Example - Migrate to Kubernetes



DEMO

Oracle Cloud for Application Development

Developer Tools

Any Language, Any Framework

Caching

App Server

Low Code

Mobile

AI/ML

Management and Security

Cloud Native

Data Management

OCI (Global IaaS)

Regions

Availability Domains

Networking

Compute

Storage

LBaaS

Edge

IAM

Key Mgmt

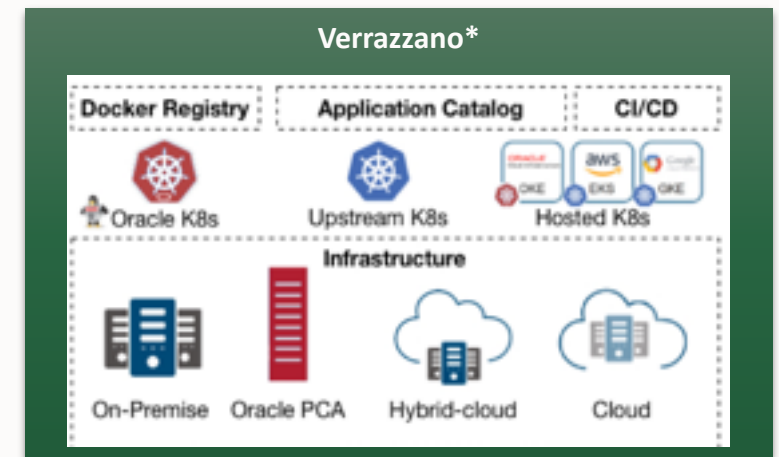
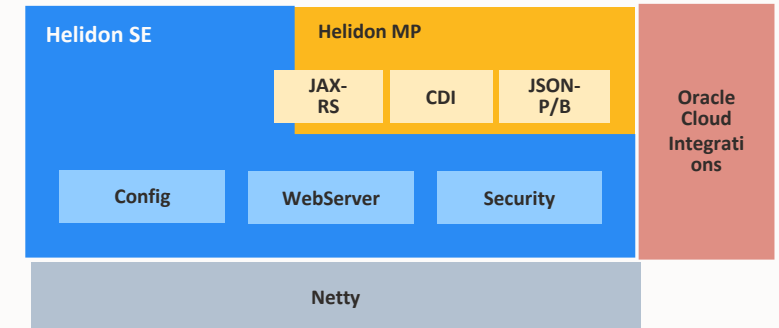
API / CLI

Infra as a Code (TF, Chef, Puppet)

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Oracles Open Source Technology : Cloud Native

- **Helidon.io** lightweight Java framework makes creating microservices simple
 - Open source standards, developed by Oracle, Included with WebLogic Server, and integrated with **GraalVM**
- **Verrazzano*** enables management of combined environments
 - Application-level visibility of complex applications with both traditional and microservices
- **GraalVM** – VM for running multi language applications [Polyglot]: Java, JavaScript, Python, Ruby, Scala, Groovy, C/C++
- **Coherence CE*** – In-memory DataGrid / Caching : Java, JavaScript, .Net, C/C++

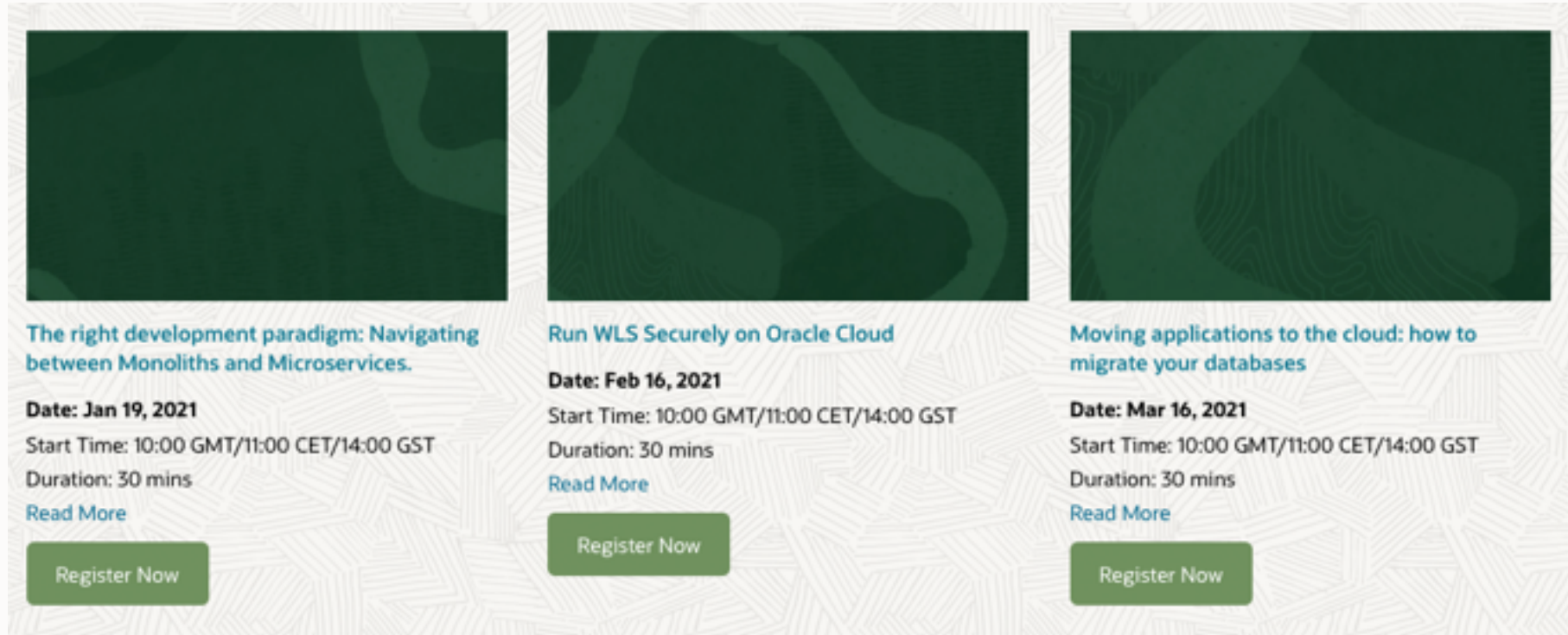


Both these products are part of WLS SKUs and standalone SKUs*

Upcoming EMEA events

- Hands-on labs
- Emea webcasts

<https://go.oracle.com/LP=101830?elqCampaignId=274053>



The image displays three event cards arranged horizontally. Each card features a dark green abstract background image at the top. Below the image, the event title is written in a teal color, followed by the date in bold black text. The start time and duration are listed in a smaller black font. A 'Read More' link in teal is provided for each event. At the bottom of each card is a green 'Register Now' button.

Event Title	Date	Start Time	Duration	Read More Link	Register Now Button
The right development paradigm: Navigating between Monoliths and Microservices.	Jan 19, 2021	10:00 GMT/11:00 CET/14:00 GST	30 mins	Read More	Register Now
Run WLS Securely on Oracle Cloud	Feb 16, 2021	10:00 GMT/11:00 CET/14:00 GST	30 mins	Read More	Register Now
Moving applications to the cloud: how to migrate your databases	Mar 16, 2021	10:00 GMT/11:00 CET/14:00 GST	30 mins	Read More	Register Now

Thank you

Sid Joshi

Business Development Director
OCI Platform Services | Application Development

 www.linkedin.com/in/sid-joshi  @SidJoshi_uk