



# Oracle Converged Database Continuous Availability

## Workshop

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## **Safe harbor statement**

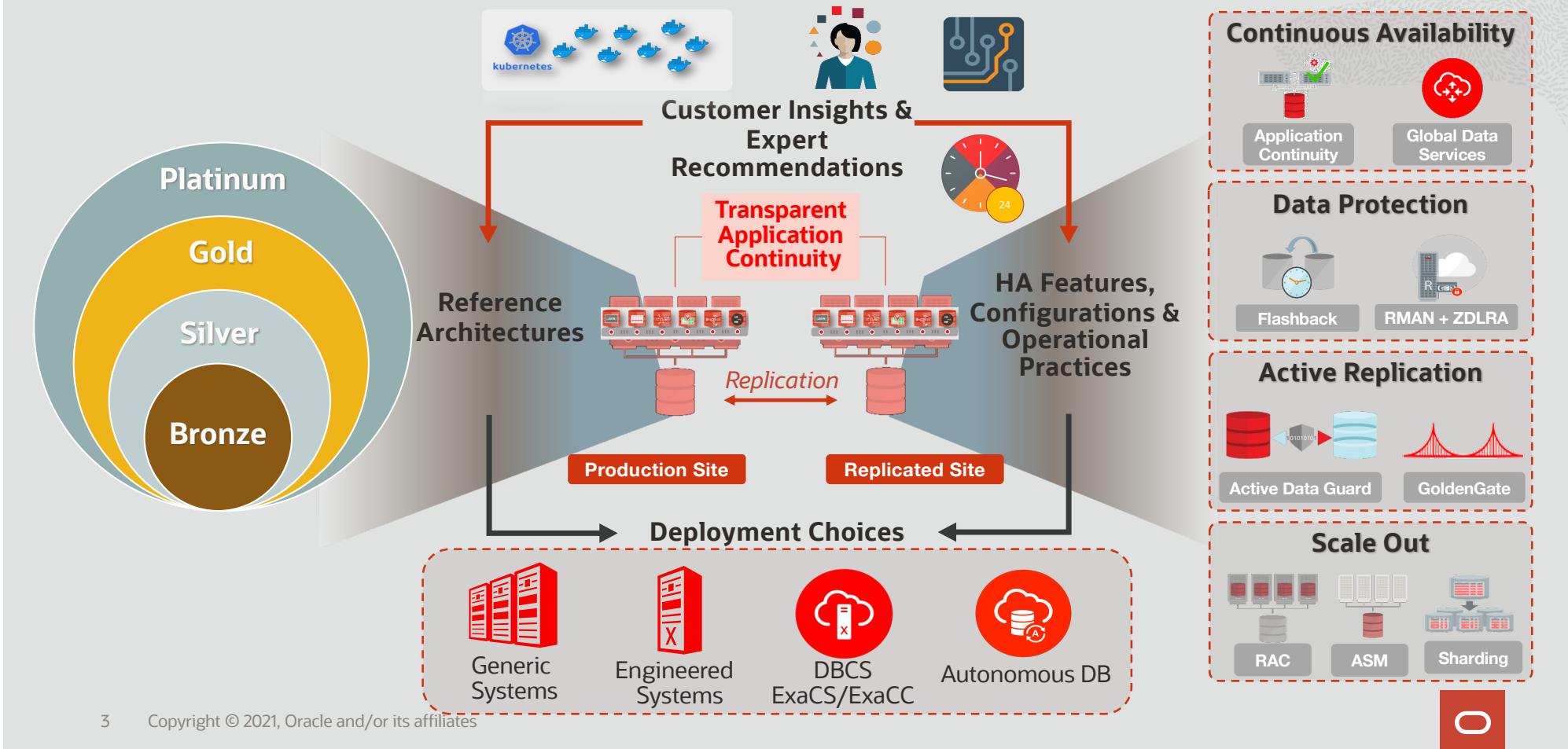
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# Oracle Maximum Availability Architecture (MAA)



# Overview

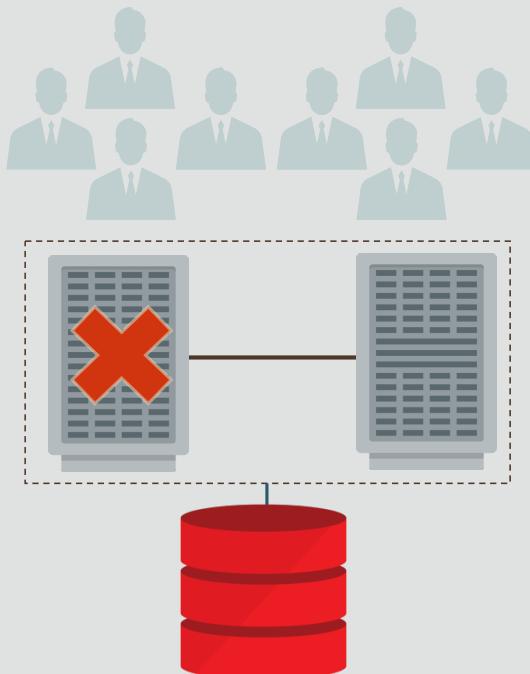
- Real Application Clusters
- Active Data Guard and FSFO
- Database sharding

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# Day 1 - High Availability (HA)

Localized protection with Oracle Real Application Clusters (RAC) and Transparent Application Continuity (TAC)



- ✓ Create database services
- ✓ Configure services for application continuity
- ✓ Install an application
- ✓ Run the application without application continuity
- ✓ Run the application with application continuity
- ✓ Run the application with transparent application continuity
- ✓ Demonstrate TAC with Sql\*Plus
- ✓ Understand and test FAN (Fast Application Notification)

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## Day 2 - Disaster Recovery (DR)

Site failover with Oracle Active Data Guard (ADG) and Fast Start Fail Over (FSFO)

Primary



Observer1

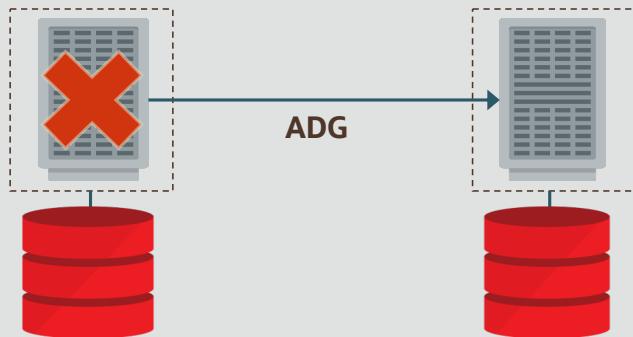


Observer2

Standby



Observer3



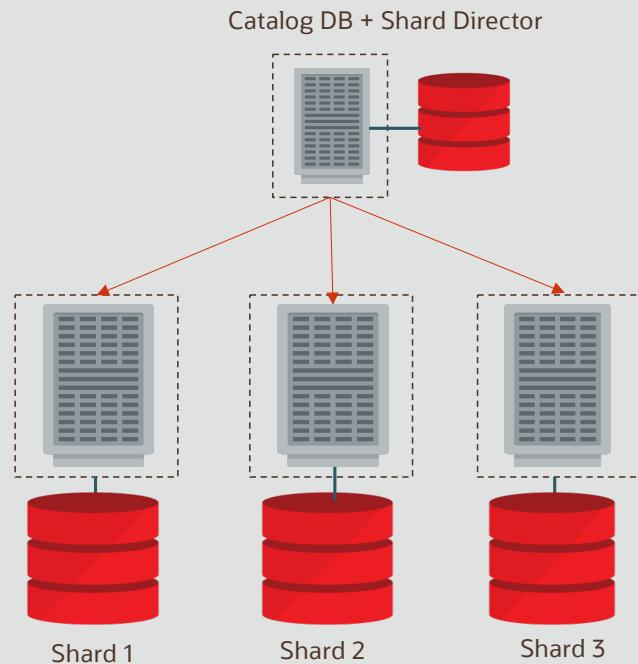
- ✓ Use Data Guard Broker
  - Switchover/Failover/Reinstate
- ✓ Active Data Guard and TAC
- ✓ Create a FSFO configuration
  - Configure observers
  - Start observers in background
- ✓ Resilience testing with FSFO and observers

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## Day 3 – Database Sharding

Resilience and horizontal scalability with DB Sharding



- ✓ Check environment
  - Cata, shd1, shd2, shd3
- ✓ Install shard director software
  - Global Service Manager (GSM)
  - Global Data service (GDS)
- ✓ Configure catalog database
- ✓ Deploy a sharded database on shd1 and shd2
- ✓ Create a non sharded application on shd3
- ✓ Migrate the non-sharded application to the sharded database on shd1 and shd2
- ✓ Setup and run the demo application
- ✓ Add shd3 to the sharded database



# Workshop

## Continuous Availability



<https://github.com/OracleDataManagementSpain/ConvergedDatabase/tree/master/ContinuousAvailability>

Day 1:

[WORKSHOP\\_MAA\\_Part1\\_RAC\\_ENG\\_v1.1.pdf](#)

Day 2:

[WORKSHOP\\_MAA\\_Part2\\_ADG\\_ENG\\_v1.1.pdf](#)

Day 3:

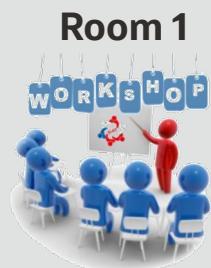
[WORKSHOP\\_MAA\\_Part3\\_Sharding\\_ENG\\_v1.1.pdf](#)



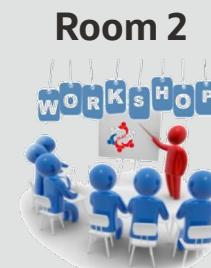
# Hand-on Labs Breakout Rooms



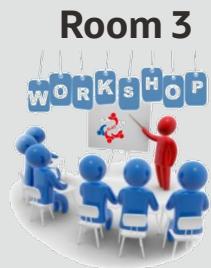
Stephane



Francisco



José



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Continuous Availability*



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O



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see data in new ways, discover  
insights, unlock endless possibilities.



# Thank you

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Oracle Spain

