Oracle 12c, high availability architecture

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SII-358 **3 Days (21 Hours)**

Description

This course will teach you how to implement a high availability architecture with Oracle 12c. You will also see the new features of Grid Infrastructure, Real Application Clusters and Data Guard which will be implemented in a multi-tenant database architecture context.

Who is this training for ?

For whom

Oracle 12c database administrator, application administrator, systems administrator and consultants.

Prerequisites

Good knowledge of Oracle 12c and Oracle Data Guard administration or knowledge equivalent to that provided by the Orsys OAD and DMO reference courses.

Training objectives

- Set up and ensure high availability of an Oracle 12c database
- Discover what a shared architecture is
- Install a Flex ASM architecture
- Install and configure a Flex cluster
- Create databases in a high availability architecture

Training program

Introduction à l'architecture mutualisée

- Contribution of the implementation of the shared architecture.
- Creation of a CDB container database.
- Create, clone and delete a PDB database.
- Move a PDB database from one CDB container to another.
- Manage talespaces, users and privileges.
- Integration with RAC and Data Guard .

Architecture Data Guard

- Data Guard remote and transport synchronization.
- Data Guard enhancements.
- Non-concurrent database upgrades.
- Improvements to Data Guard Broker.

ASM et Flex ASM

- The architecture.
- Configure and manage Flex ASM.
- Monitor Flex ASM connections and transfer an ASM client.
- Improvements made to ASM Fast Mirror Resync.
- Rebalancing enhancements.
- Proactive data integrity validation.
- ASM password file management.
- Global change of file owner.

Oracle Clusterware

- The architecture.
- Configure the shared GNS service.
- Transferring the GNS service to another cluster.
- Cluster Health Monitor services .
- Grid Infrastructure management framework.

Flex Clusters

- The architecture.
- Install and configure Flex Clusters.
- Flex Clusters and failure detected on a node.
- Presentation of the management of a Cluster based on strategies.
- Classification of servers into categories.
- Evaluation of an order by simulation.
- Evaluation of the impacts of a failure.

Nouvelles fonctionnalités RAC

- RAC and Flex ASM.
- RAC and policy-based Cluster Management.
- RAC and order evaluation by simulation.
- RAC and application continuity.

Global Data Services

- Introduction.
- Logical components.
- Physical components.
- Global services and RAC.
- Global services and Data Guard Broker.
- Global connection load balancing.