



Easy Path to 11g RAC

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Today's Agenda

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- Oracle RAC Basics
- Oracle RAC Challenges
- Why RAC now?
- 11g RAC new features
- Building the next-generation database infrastructure with GridApp Clarity™
- Q&A

Oracle RAC Fundamentals - Clustering

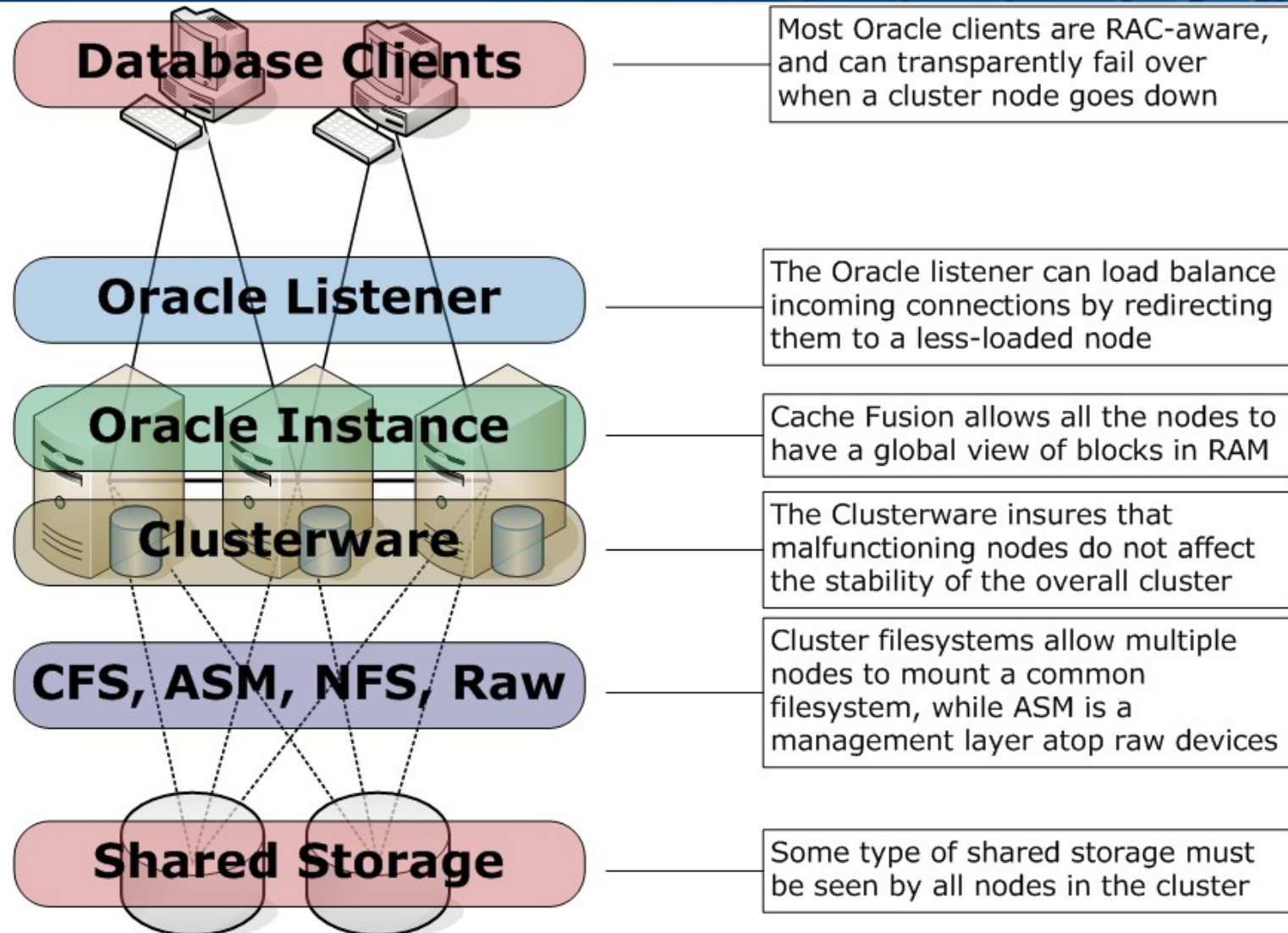
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- Shared-nothing – Each cluster node has no common resource with any other node
- Shared-everything – Each cluster node shares a universal pool of common resources
- Shared-something – Each cluster node shares some resources, but not others
- Active-Passive – Only one cluster node at a time is providing any given service

Oracle RAC

- Oracle RAC is a “shared-something” cluster
- RAC nodes share:
 - Application state awareness (Cache Fusion)
 - A single set of on-disk data (ASM, OCFS, etc.)
- RAC provides
 - Enhanced reliability
 - Enhanced scalability
 - Reduced processing cost

What RAC Looks Like



RAC Objections & Challenges

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- RAC is too complicated
 - Adds moving parts
 - Applications can behave differently under RAC
- RAC is too expensive
 - Licenses cost extra
 - Requires EE for all but small deployments
- RAC requires additional training and education
 - Fewer DBAs know RAC
 - Requires DBAs to learn storage, networking

Oracle 11g RAC Benefits

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- ASM Enhancements
 - Fast resync
 - Preferred mirror
 - SYSASM user
 - Online upgrades
- Online Upgrades
 - Built-in for CRS+ASM
 - For regular database, requires RAC + standby database
 - Automatically fails over to standby at correct moments

Why 11g RAC now?

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- Reduce Cost
 - Buy only what you need today
 - Scale incrementally & online
 - Upgrade incrementally
- Improve uptime
 - Better online/rolling patching
 - No SPOF
 - Rolling maintenance
- 11g RAC has proved stable
 - In production at many organizations
 - Can run 11g CRS and ASM with 10g databases

GridApp Systems

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- GridApp Systems is the only automation company that focuses solely on the database
- GridApp Clarity™ provides turnkey RAC solutions for organizations that need to improve the efficiency of their database infrastructure
- GridApp's customers have depended on Clarity for RAC deployment since Oracle 9iR2

GridApp Clarity™

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- “Click and deploy” Oracle RAC
 - Average time to deploy RAC manually - 1-2 weeks
 - Average time to deploy RAC with Clarity - **45 minutes**
- Little to no RAC expertise needed
 - Software understands RAC out of the box
 - Allows DBA to focus on application tuning and testing
- Automated patching for Oracle RAC
 - Deploy patches in minutes
 - Centralized patch compliance reporting
- Easy upgrade to 11g RAC
- Scale RAC online and in minutes

Summary

- Oracle RAC is the next step in database infrastructure
- GridApp Clarity is the easiest path to a simple, stable RAC rollout
- GridApp's support for 11g, coupled with the 11g new features and stability, shows this is the right time to look at 11g



Q&A