

Workshop Goals

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DB Service Status

- Database application deployment is smooth in production
- Not yet running at full expected load
 - Need to maintain good integration between application developers and service providers
- Using the established development, validation and production layers has been essential
 - Both sides need to work together on continuously improving the applications and their efficient deployment

Hardware Upgrade

- Recent hardware upgrade to 8-core nodes has provided a lot more DB performance to applications
 - should not be spent to hide efficiency problems which can be removed by proper optimization
- One goal of this workshop is to give developers all tools necessary to make the best use of the available capacity
 - We need to leave headroom to avoid running close to the resource limits

Service Structure

- Current service
 - 24x7, for production DBs on best effort
 - 8x5, for streams setup
- How can we still improve the services which are provided?
- Do we need to add additional redundancy eg via DataGuard?
 - If yes, for which applications? Are the h/w resources available within the experiment requests?

Main Agenda Items

- Database Design
- Application failover and retry
- Debugging and diagnostic tools
- Database optimization
- Some case studies showing the positive impact of the above

- Recognizing the importance DB services to the experiments' activities, we have built up **robust**, **scalable** and **flexible** solutions
- These solutions successfully address a wide-range of use cases
- **Testing** and **validation** – hardware, DB versions, applications – proven key to **smooth** production
- Many years of **close** cooperation between application developers and database administrators have resulted in **reliable**, **manageable** services