

## SE round Table







How to get it Why Licensing Use cases What is missing Do's and Don't







#### Oracle Database Software Downloads

You must accept the OTN License Agreement to download this software. O Accept License Agreement | Decline License Agreement

#### From 12.1.0.2 onwards SE and EE are 2 different downloads ...

#### Oracle Database 12c Release 1

#### (12.1.0.2.0) - Enterprise Edition

差 Microsoft Windows x64 (64-bit)	File 1, File 2 (2.5 GB) See All
諅 Linux x86-64	File 1, File 2 (2.5 GB) See All
諅 Oracle Solaris (SPARC systems, 64-bit)	File 1, File 2 (2.6 GB) See All
諅 Oracle Solaris (x86 systems, 64-bit)	File 1, File 2 (2.3 GB) See All
🚽 HP-UX Itanium	File 1, File 2 (3.1 GB) See All
🚽 AIX (PPC64)	File 1, File 2 (2.7 GB) See All
差 zLinux64	File 1, File 2 (2.3 GB) See All

(12.1.0.1.0) - Standard Edition, Standard Edition One, and Enterprise Edition

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- See All page above contains unzip instructions plus Database Client (32 and 64-

bit), Gateways, Grid Infrastructure, more



#### Upgrade your Database - NOW!

#### ORACLE

About

Ease your Oracle Database upgrades and migrations - Best Practices, Workshops, Projects - and something about the pleasures of traveling

#### Recent Posts

New in Oracle 12c: \_optimizer\_gather\_stats\_on\_load

OOW 2015 Sessions and Labs -Oracle Open World

Some Seoul Impressions - 09/2015

No OS Authentication? datapatch will fail in every upgrade

Upcoming Upgrade Workshops in Prague and Bucharest

New version of the UPGRADE 12c SLIDE DECK available

DBUA displays wrong RMAN backup for restore - Oracle 12.1.0.2

SE2 - Some questions, some answers

Script: Is your database ready for Oracle GoldenGate?

SQL Plan Management - Known Issues in Oracle 12.1.0.2

#### « Upgrade downtime ... | Main | No patches anymore ... »

### Oracle Database 12.1.0.2 Standard Edition (SE2) available for download

By Mike Dietrich-Oracle on Sep 01, 2015

Finally ...

Oracle Database 12.1.0.2 Standard Edition (SE2) is available for download.

Some information is already available in the Oracle Database Licensing Information. And you'll find more here: <u>https://www.oracle.com/database/standard-</u> edition-two/index.html

Quoting from the pricing document:

#### http://www.oracle.com/us/corporate/pricing/databaselicensing-070584.pdf

"Oracle Database Standard Edition 2 may only be licensed on servers that have a maximum capacity of 2 sockets. When used with Oracle Real Application Clusters, Oracle Database Standard Edition 2 may only be licensed on a maximum of 2 one-socket servers. In addition, notwithstanding any provision in Your Oracle license agreement to the contrary, each Oracle Database Standard Edition 2 database may use a maximum of 16 CPU threads at any time. When used with Oracle Real Application Clusters, each Oracle Database Standard Edition 2 database may use a maximum of 16 CPU threads at any time. When used with Oracle Real Application Clusters, each Oracle Database Standard Edition 2 database may use a maximum of 8 CPU threads per instance at any time. The minimums when licensing by Named User Plus (NUP) metric are 10 NUP licenses per server."





Mike Dietrich Master Product Manager - Database Upgrade & Migrations - Oracle

Based in Germany. Interlink between customers/partners and the Upgrade Development. Running workshops between Arctic and Antartica. Assisting customers in their reference projects onsite and remotely. Connect via:





# WHY



Promote Oracle Database

## Oracle is Affordable



Show that SE is a cost effective reliable solution



• Some missing feature can be added







 Cheap Supported alternative to OpenSource Db's

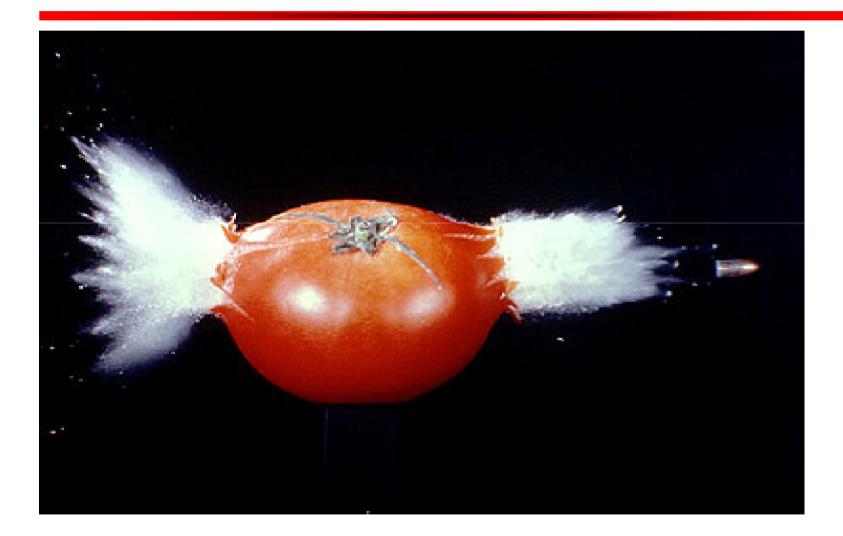


• Prepare myself for customers with SE ;-)



• The whole core thing is Exploding...











• The same great database as EE although some features removed (see later)



RAC included at no extra cost for 4 sockets in total

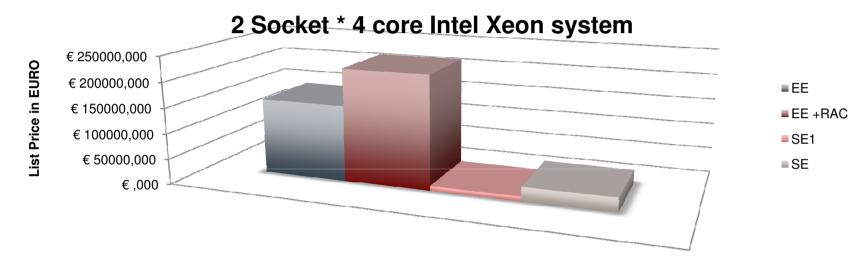


 Full 3 tier Rapid Application Development environment



 Oracle Warehouse Builder ( in 11g) not anymore there in 12c





License	List per Unit	Nr License	Tota	l Price
Oracle EE	€ 37.492,00		4	€ 149.968,00
Oracle EE + RAC	€ 55.646,00		4	€ 222.584,00
Oracle SE1	€ 4.578,00		2	€ 9.156,00
Oracle SE	€ 13.813,00		2	€ 27.626,00







### Business case

- Capture
- Combine
- Professionalize
- Mobilize





### According to Oracle

- Enterprise-Class Performance and Security
- Optimized for deployment in:
  - small enterprises
  - line-of-business departments
  - distributed branch environments.
- Available on all Oracle-supported os including Windows, Linux, and Unix.



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Mike Dietrich Master Product Manager - Database



### • Standard Edition can go a long way

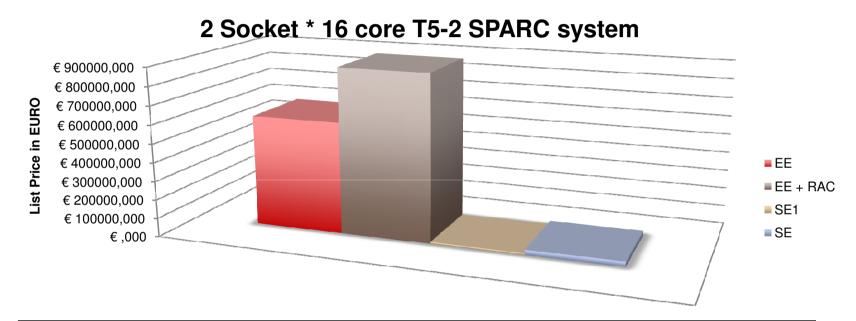


2 *Sockets* Maximum No limit RAM No limit Database Size



4 *Sockets* Maximum No limit RAM No limit Database Size





License	List per Unit	Nr License	Tota	l Price
Oracle EE	€ 37.492,00		16	€ 599.872,00
Oracle EE + RAC	€ 55.646,00		16	€ 890.336,00
Oracle SE1	€ 4.578,00		2	€9.156,00
Oracle SE	€ 13.813,00		2	€ 27.626,00



### Lets be honest



**Block Recovery** Online Rebuild Transportable Tablespace Bitmap Indexes Tablespace point in time recovery Online indexes rebuild Parallelism Virtual Private Database Parallel backup Data Guard Flashback database features Partioning Resource Manager Trial Recovery **Connection Manager** DBMS\_REDEFINITION Duplexed backup sets



## Oracle EE Options + Packs

Option	Database Management Packs
Partioning	Diagnostic
Advanced Security	Tuning
Active Data Guard	Data Masking
Advanced Compression	Lifecycle Management Pack
In memory Database Cache	Test Management Pack
Multitenant	
Label Security	
OLAP	
Real Application Clusters	
RAC One	
Real Application Testing	
Spatial	



## SE what's missing





## But are you using it?



# Does Your Application Use It ?



## Or does it just uses the db for persistency

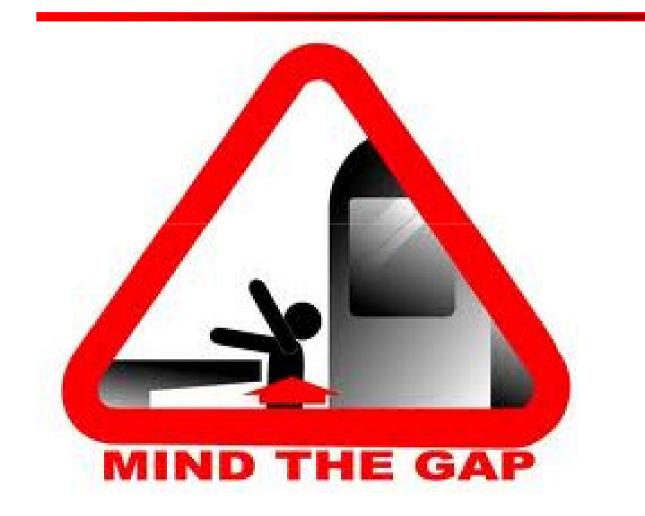


## Do correct size-matching

# TIP











## Good old STATSPACK

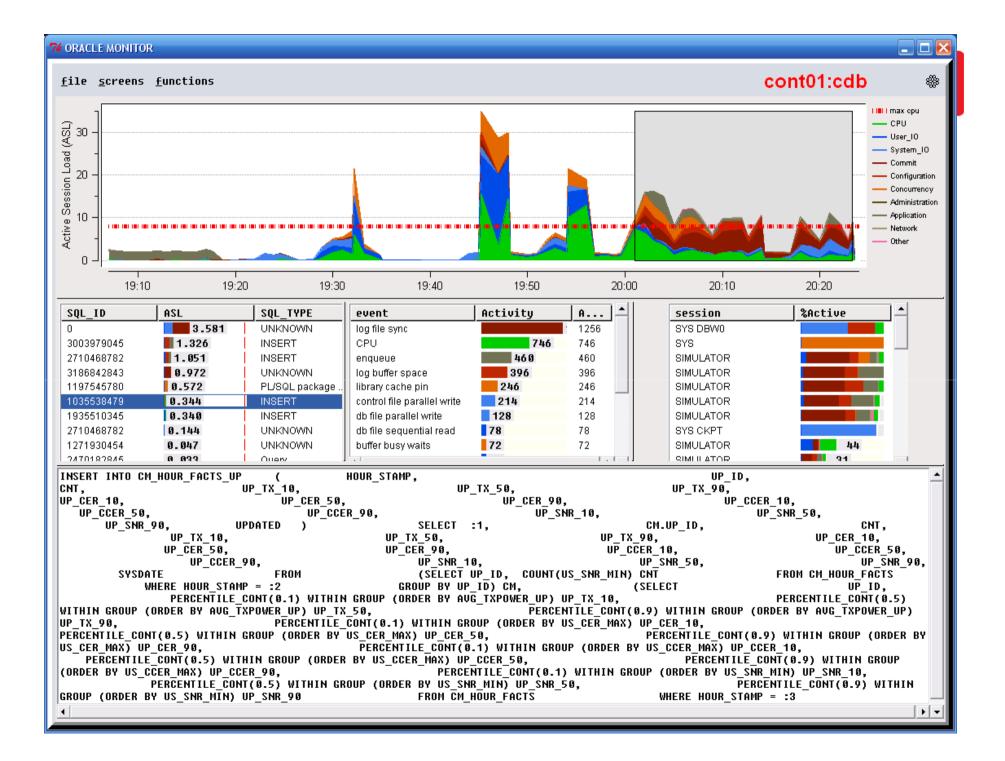


- Ash is great to diagnose performance issues
- However only in EE with tuning Pack and 10g feature
- Kyle Hailey made Simulated ASH:
  Works in versions < 10g and on SE</li>
- Marcin Przepiorowski maintains is now here
  - https://github.com/pioro/orasash



## Ora Simulation Ash

- Easy to install
- Makes use of a repository database
- Both Marcin as Kyle have some graphical tools to display data





## **Dbvisit Standby**

- Offers a supported alternative to the scripted standby
- Comes with a nice webbased gui
- Encrypted redo log traffic between db's





- Supports gracefull switch-over
- Reporting Environment

## However no use of standby redo log files it **uses the archived redo**



## **Dbvisit Replicate**

- Streams and Golden Gate alternative
- Uses it's own CDC
- Low impact Downstream capture possible
- Wizard Driven





### **Dbvisit Replicate**

- Cross Platform and Cross Database:
  - Oracle
  - Oracle Mysql
  - Oracle SQL Server





### **Round Table**

