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# Oracle GRID Technology Day

**sponsored by IBM**


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**GRID Architect-Greece & SEE**

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# Grid

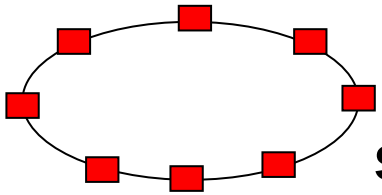
Gabriel Trauvitch
Senior Solutions Specialist-GRID Architect – Greece & SEE

# Why Grid? A business perspective

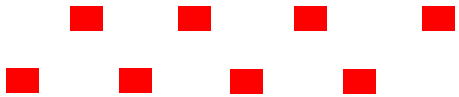
| Business Demand | IT Challenge |
| --- | --- |
| Be more efficient | Operational Complexity<br>Built in redundancy |
| Deliver highest QoS | Unpredictable workloads<br>Increasing 24x7 requirements |
| Respond quickly to change | Inflexible silo infrastructure<br>Monolithic applications |

# Grid Versus H/W Virtualization

## Oracle Grid



10g

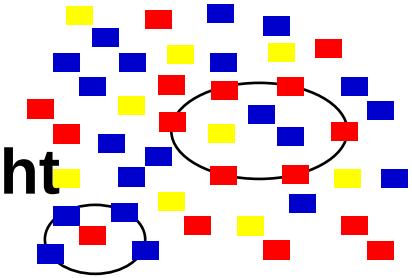


Makes lots of separate small servers look like one big server

**Virtualization across resources**

**scale up/out/right**

## H/W Virtualization



Linux
Unix
Windows

**Virtualization Layer**

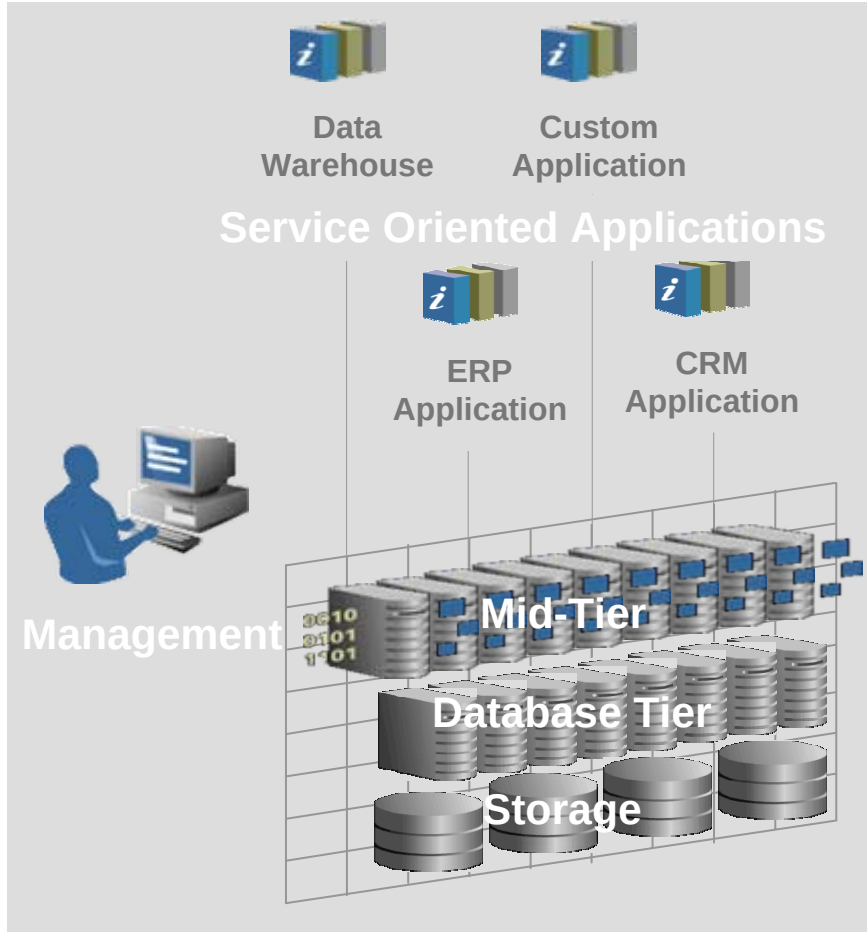
**Large powerful Multi-CPU server**

Makes one big server look like lots of separate small servers

**Virtualization within a resource**

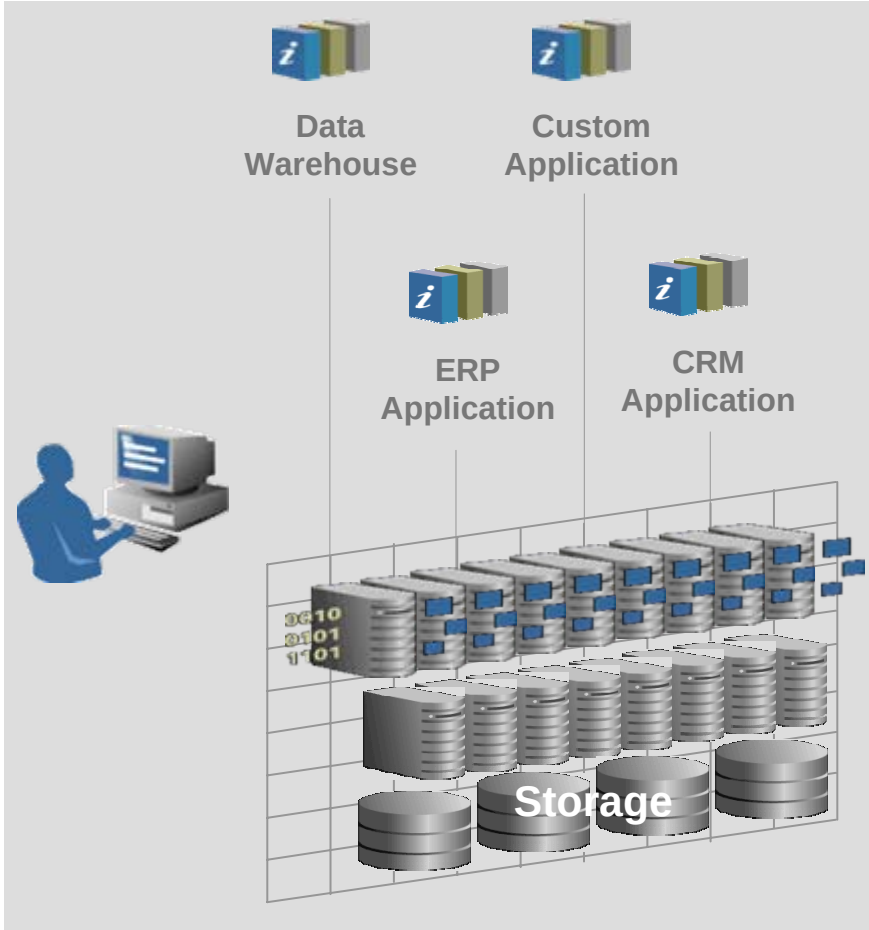
# What is Grid?
## Key Grid Concepts

- Resource pooling & sharing
- Dynamic resource provisioning
- Automated monitoring & management



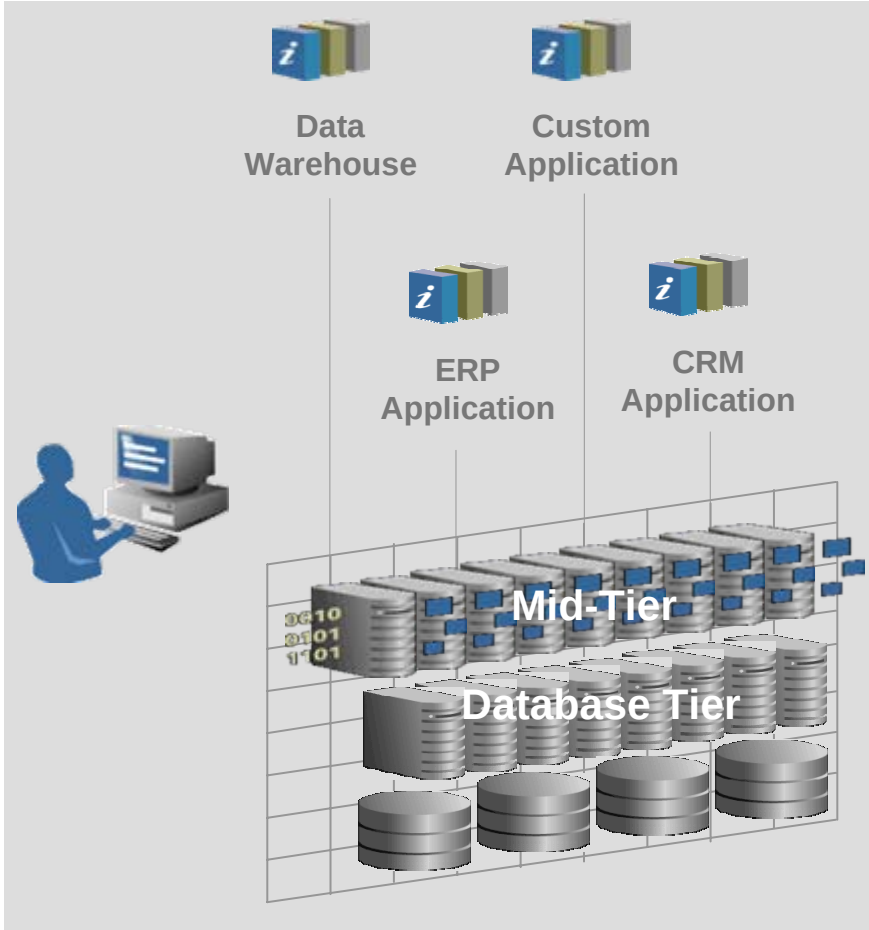
# Storage Capabilities

- Virtual storage pool
- Support for low cost storage options
- Dynamic capacity management
- Auto data distribution
- Intelligent mirroring
- Oracle version interoperability

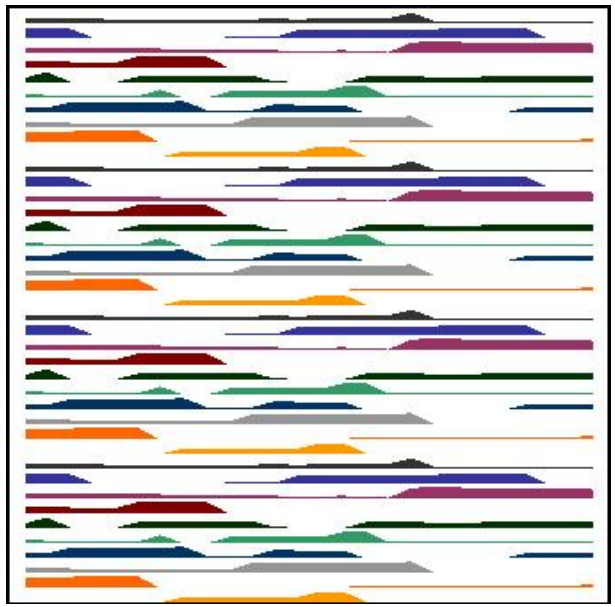


# Database & Mid-Tier Capabilities

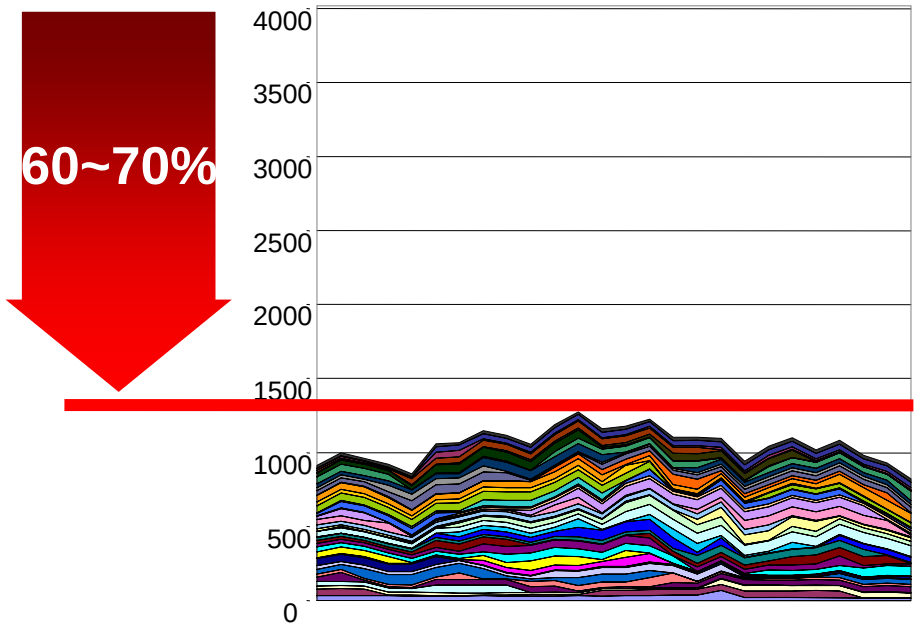
- Automated load balancing
- Dynamic workload management
- No single point of failure
- Add/Drop resources on-line
- Incremental scaling



# Workload Management



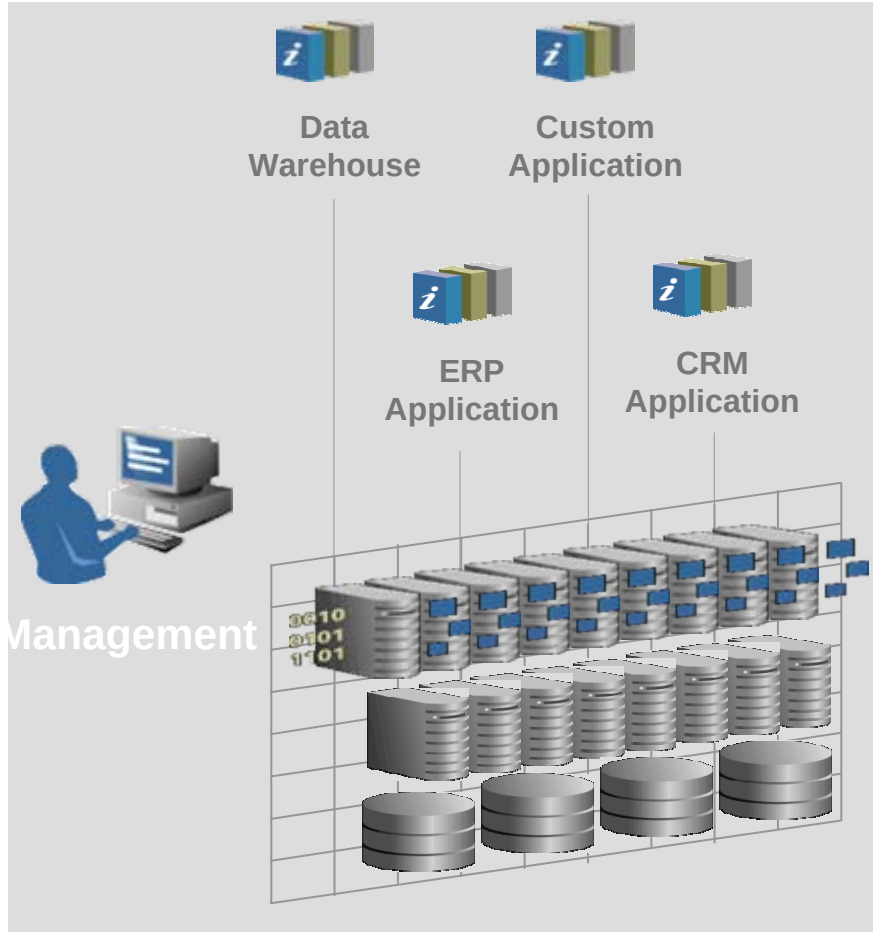
Silo Infrastructure




Grid Infrastructure

# Management

- End-to-end monitoring & management
- Policy driven service frameworks
- Selftuning
- Root cause analysis
- 3rd party product integration



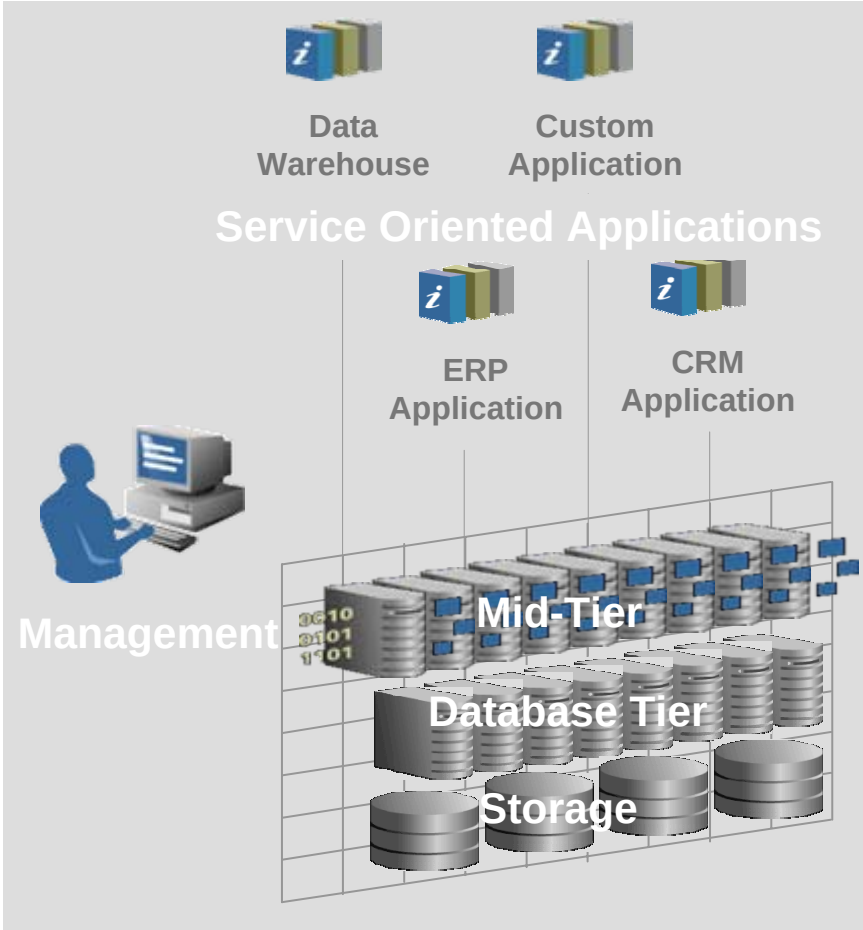
# Grid Benefits Summary

**Technical Benefits**

- Dynamically configurable infrastructure
- Effective workload management
- No single point of failure
- Incremental scaling
- Centralised automated management

**Business Benefits**

- Increased ROI and reduced TCO
- Highest Qualities of Service
- Agile and responsive IT

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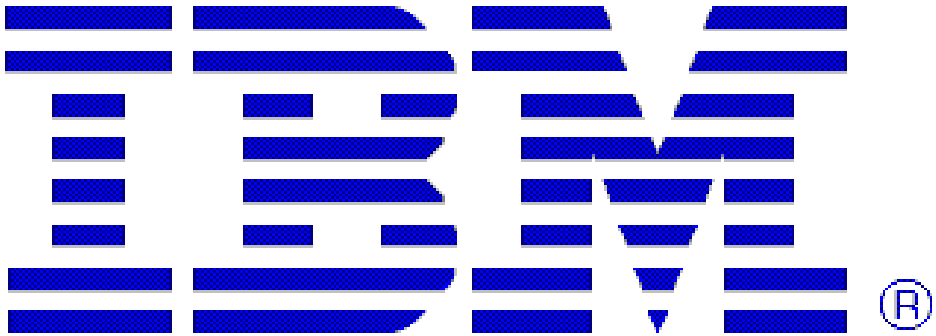
IBM

# The Oracle/IBM Technology Relationship

- The global business relationship between Oracle and IBM leverages the products and services of both companies to provide mutual customers with a unique value proposition:
  - best-of-breed software
  - world-class hardware
  - unmatched global delivery capability.
- Our measure of success:  Successful customers.


# Oracle & IBM Together

- Long History
  - Oracle: 20 years
  - PeopleSoft: 17 years
  - JD Edwards: 28 years
  - Siebel: 7 years
- 80% of IBM for System p™ servers customers run Oracle
  - Including RAC (recent Proof of Concept available on request)
  - And growing
- Over 15,000 Joint Applications Customers Worldwide

# The Oracle/IBM Technology Relationship

- A strong technology relationship
  - Continuous technology exchange
  - Significant investment by both companies
- Joint work on all key requirements for a viable grid based solution
  - Performance
  - Reliability
    - High Availability & Disaster Recovery (RAC & Data Guard)
  - Manageability (both for Oracle and IBM software)
    - Plugs-in for DB2
  - Quality & Support (joint escalation process)

# How?

- Joint Development
  - IBM engineers at Oracle
    - Permanently working on-site at Oracle Headquarters
    - Montpellier testing Oracle Database Server 11*g*
- Three IBM/Oracle Competency Centers
    - US: Based in San Mateo, CA (close to Oracle HQ)
    - EMEA: Joint Solutions Center based in Montpellier
    - A/P: IBM/Oracle Competency Center based in Tokyo
- IBM's BCS practice
- Oracle's Enterprise Technology Center

# IBM System P: Scale up. Scale Out. Scale right! *with more than 70 leadership benchmarks!**

- ***From 1- to -64 core,***
- ***For AIX 5L™ and Linux® operating systems***
- ***Using IBM POWER6™ and POWER5+™ Dual-Core and Quad-Core technologies***

System p5 505 Express

System p5 510 Express

System p5 520 Express

System p5 550 & 550Q Express

~ p5 570

~ p5 575

~ p5 590/595

*Source for ~(R) p5 systems benchmarks: http://ibm.com/eserver/benchmarks

# IBM and Oracle | Oracle and IBM

A partnership designed to bring value to you Based on Industry leading hardware and software stack

# Next Steps

- Identify Possible Grid Solution Targets
  - Mixed Workload Infrastructure – OLTP, DW, Batch
  - Infrastructure Consolidation
  - Rapid, Predictable Scalability
  - Data Warehousing Modernization
- Review analyst papers on Oracle.com
  - Gartner, IDC, Ovum, Forrester
- Talk to us: we have IBM and Oracle Experts available

# Thank you


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# Oracle Grid Computing Customers