



DM

Data Management

CERN IT
Department

Database Monitoring Tools

Database Developers' Workshop

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Outline

- Session Manger
 - demo
- Oracle Enterprise Manager
 - demo
- 3D monitoring
 - demo
- DB dashboard
 - demo
- Q & A



Session Manager

- Simple tool developed at CERN to look at and manage your sessions
- It allows users to:
 - see a list of user's sessions
 - look at sessions' details:
 - SQL being processed
 - lock held by other sessions
 - kill your sessions



Session Manager (demo)

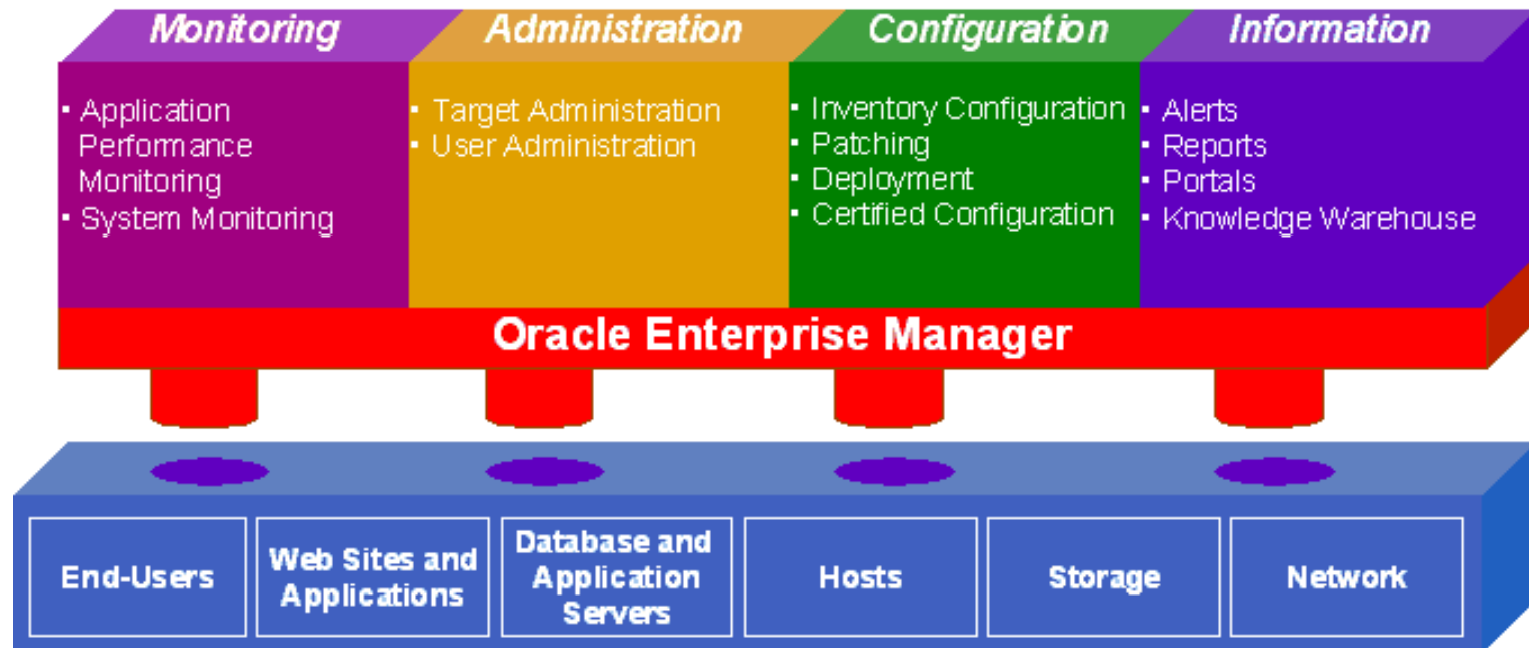
Session Manager start page:

<https://twiki.cern.ch/twiki/bin/view/PSSGroup/SessionsManager>



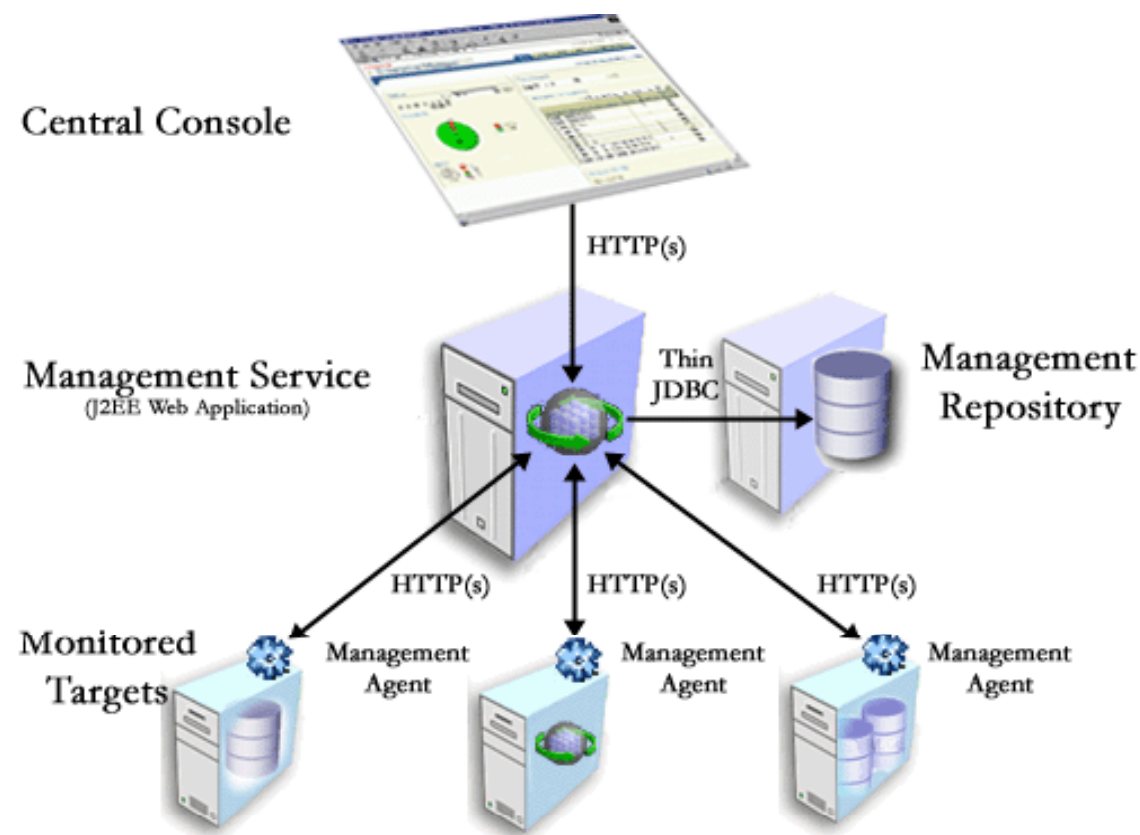
Oracle Enterprise Manager

- Oracle Enterprise Manager Grid Control



Oracle Enterprise Manager

- Oracle Enterprise Manager Grid Control Architecture



Oracle Enterprise Manager (demo)

3D Enterprise Manager:

<http://oms3d.cern.ch:4889/>

CERN Enterprise Manager:

<https://oms.cern.ch/em/>



3D Monitoring

- Complex 3D databases and streams monitoring tool developed at CERN
- It allows users to:
 - monitor 3D database status, availability, memory usage, load, etc.
 - monitor streams health, performance, diagnose errors
 - retrieve streams performance graphs over chosen period of time



3D Monitoring (demo)

3D Monitoring:

<http://oms3d.cern.ch:4889/streams/main>



DB Dashboard

- Composition of different monitoring tools providing global overview:
 - SLS – service availability (Top Level)
 - 3D Monitoring (Streams Mon)
 - RACMon – OS load, CPU utilization by DB, physical reads & writes
 - Performance plots per service – top 5 applications usage from the last 2 months (Sessions, CPU hours, logical reads & writes)
 - Experiment reports (applications/services, technical & administrative contacts)



DB Dashboard (demo)

DB Dashboards:

<https://phydb.web.cern.ch/phydb/ATLAS>

<https://phydb.web.cern.ch/phydb/CMS>



Q & A

