



**COLLABORATE14**

TECHNOLOGY AND APPLICATIONS FORUM  
FOR THE ORACLE COMMUNITY

#C14LV

# PeopleSoft Administration 101 for Oracle DBAs – Including PUM Demo

**Session ID#:** 101990



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PSDB Solutions Inc.

**PSDB**  
*Solutions Inc.*

**REMINDER**

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# Agenda

*This is a subtitle or bulleted list*



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# Agenda

- Introduction
- PeopleSoft Architecture
- PeopleSoft Installation Overview
- PeopleSoft Administrator Roles & Responsibility
- Demo of Peoplesoft 9.2/Tools 8.53 Installation
- Summary

# Introduction

## PSDB Solutions Inc.

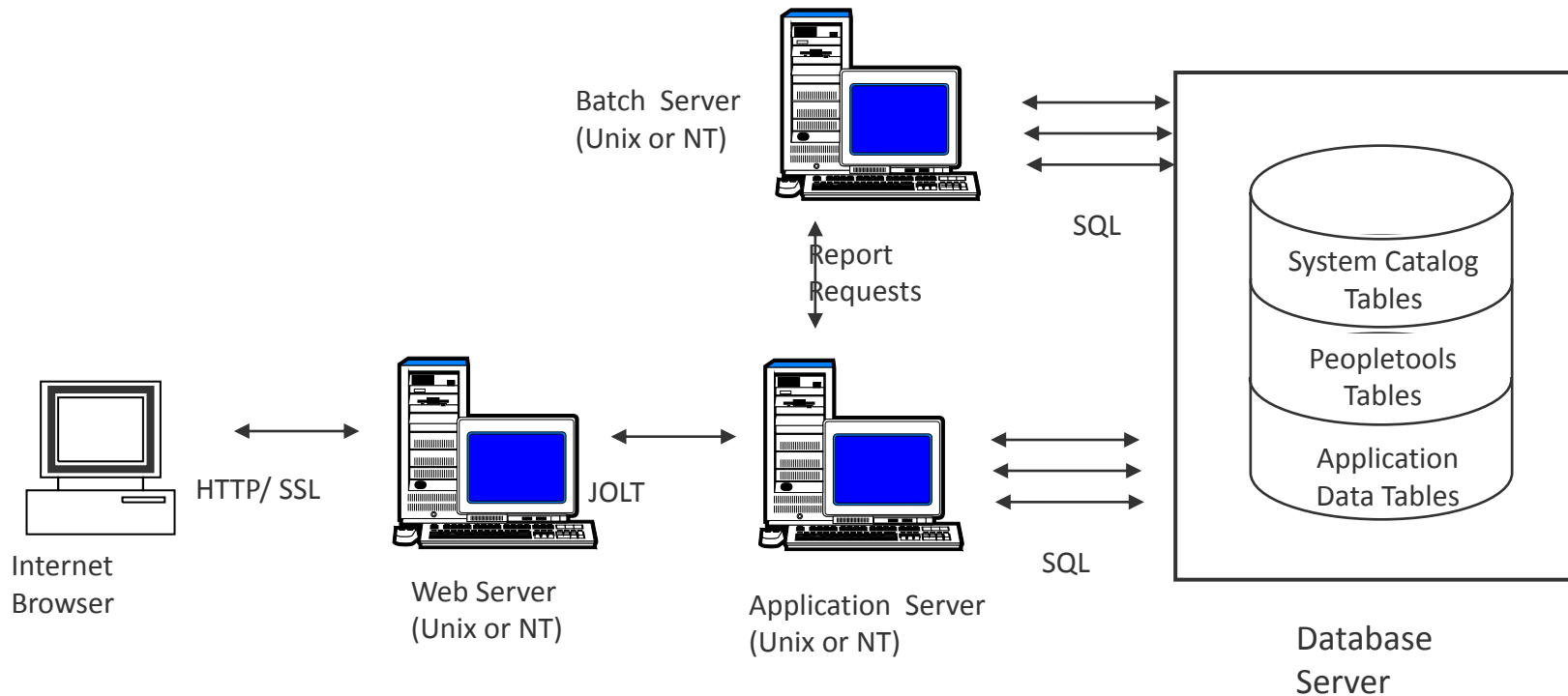
- Established in 2004, located in Alpharetta GA.
- Engaged in providing consulting services :
  - PeopleSoft HCM/FSCM Upgrade
  - PeopleSoft HCM/FSCM New Implementation
  - Oracle Database Administration
  - Oracle/PeopleSoft Production Support
  - Monitoring and Performance Tuning
  - Platform migration services

# Introduction

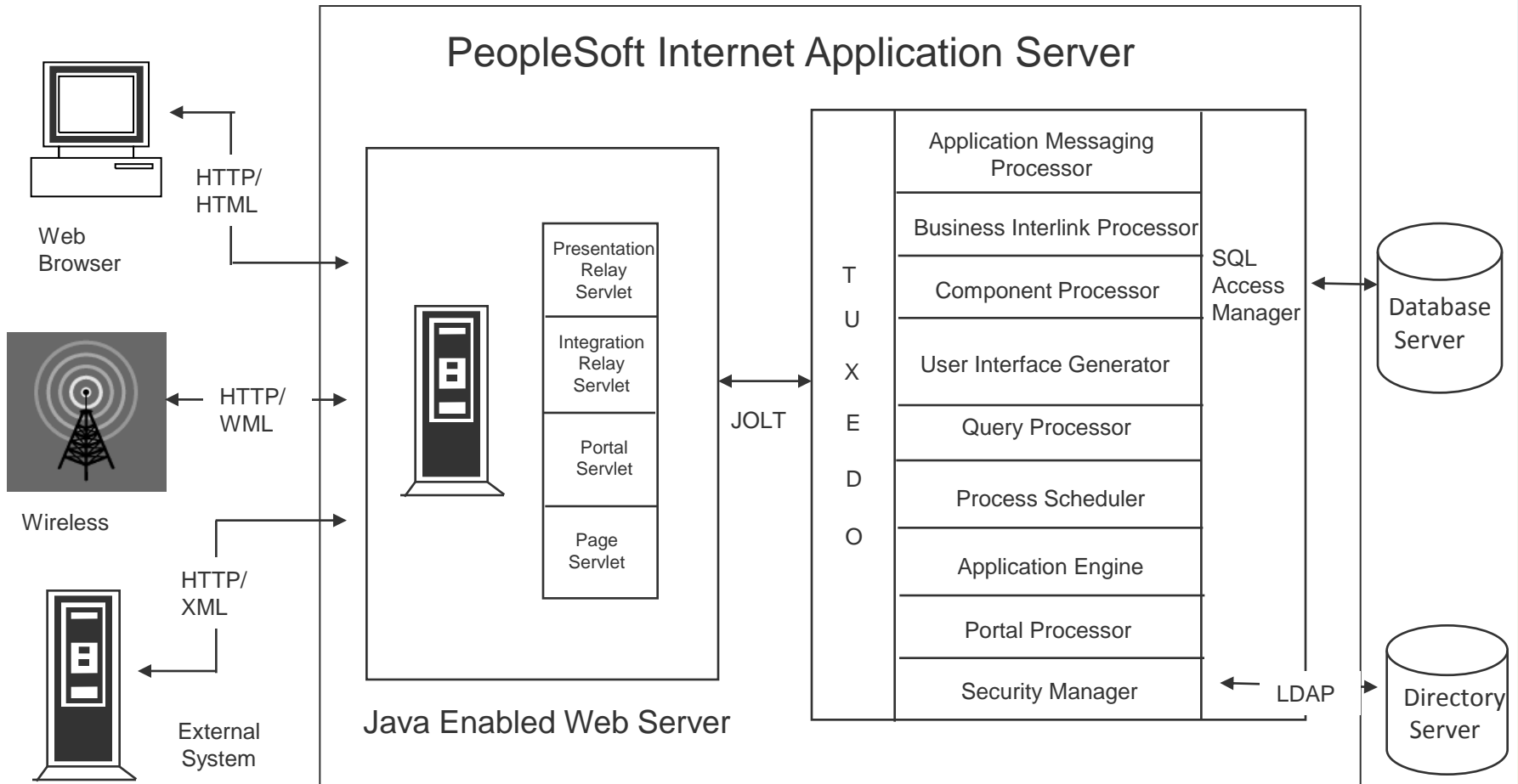
## Raghav Pujari

- 20+ years of IT experience prominently in Oracle Technology, Infrastructure Project Management, PeopleSoft Architecture, Production Support, Performance Tuning
- Oracle Certified Professional (OCP – DBA Track)
- Area of expertise Hands-on : Infrastructure Architect, Oracle DBA, PeopleSoft Admin, Upgrade Specialist, System Administrator, Security Administrator etc.
- Performed multiple Oracle PeopleSoft HR/ Finance major upgrades and platform migration projects, New Implementation, Support and Management of hosted environment.

# PeopleSoft Architecture Overview



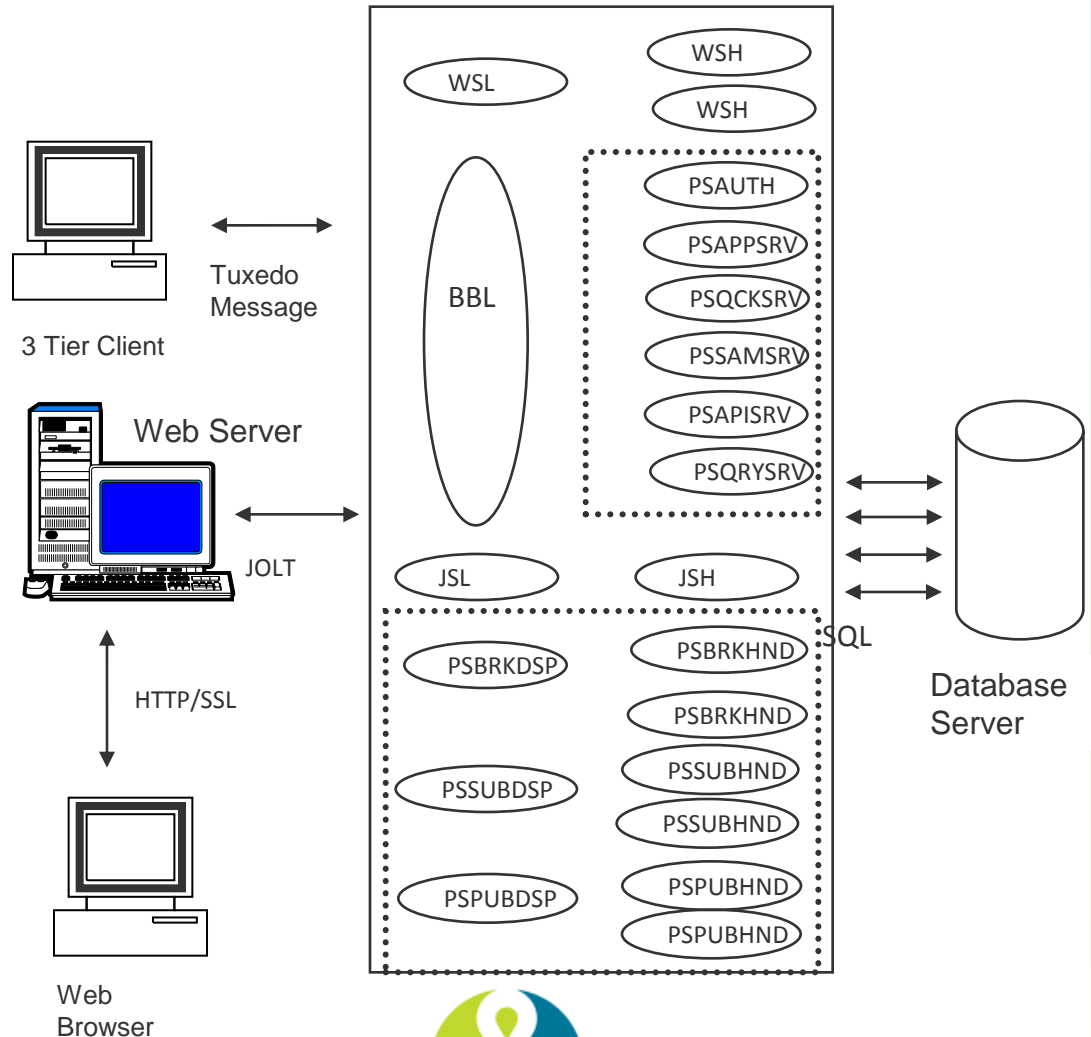
# PeopleSoft Internet Architecture - PIA



# Inside PeopleSoft Application Server

## Application Server Processes

- Bulletin Board Liaison (BBL)
- Workstation Listener (WSL)
- Tuxedo Authentication (PSAUTH)
- Application Server Manager (PSAPPSRV)
- Quick Server Manager (PSQCKSRV)
- SQL Access (PSSAMSRV)
- Query Server (PSQRYSRV)
- Jolt Station Listener (JSL)
- Messaging Processes
  - Broker Dispatcher (PSBRKDSP)
  - Broker Handler (PSBRKHND)
  - Subscriber Dispatcher (PSSUBDSP)
  - Subscriber Handler (PSSUBHND)
  - Publisher Dispatcher (PSPUBDSP)
  - Publisher Handler (PSPUBHND)

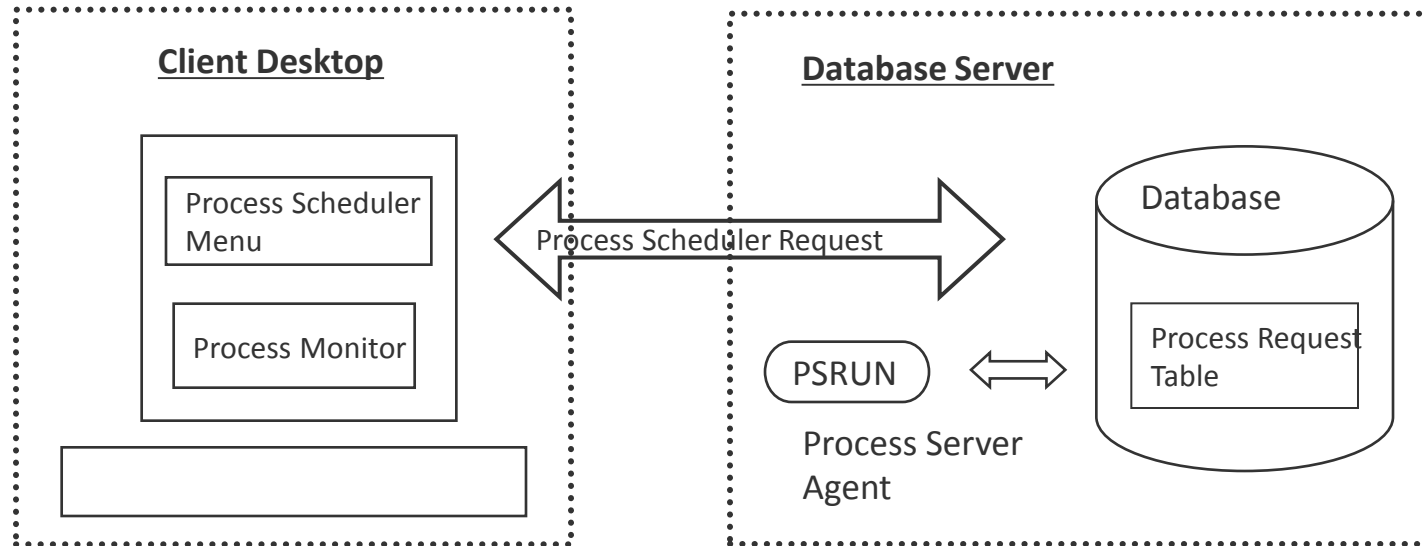




# PeopleSoft Batch Server Architecture

## ■ Process Scheduler Agent

- Schedule and Run Reports/Batch Processes/ Multi-process jobs
- Schedule Recurring Processes
- Agent run on Unix/Linux (PSUNX) or Windows (PSNT)
- Run SQR Reports/Application Engine, Crystal Reports/Cobol Process



# PeopleSoft Installation : Checklist

- Refer to Tools Documentation Home page on Oracle Support site <http://support.oracle.com>
  - Oracle's PeopleTools 8.52 Documentation Home Page (Doc ID 1356456.1)
- Confirm Platform Certification
  - Certification for Database and O/S release with Peopletools
  - Certification for Web Browser for target PeopleTools release
  - Certification for Third party software e.g. Cobol Compile/ Crystal Reports etc.
- Download Software from Oracle Software Delivery Cloud <https://edelivery.oracle.com/>
- Review necessary documentation for target PeopleTools release

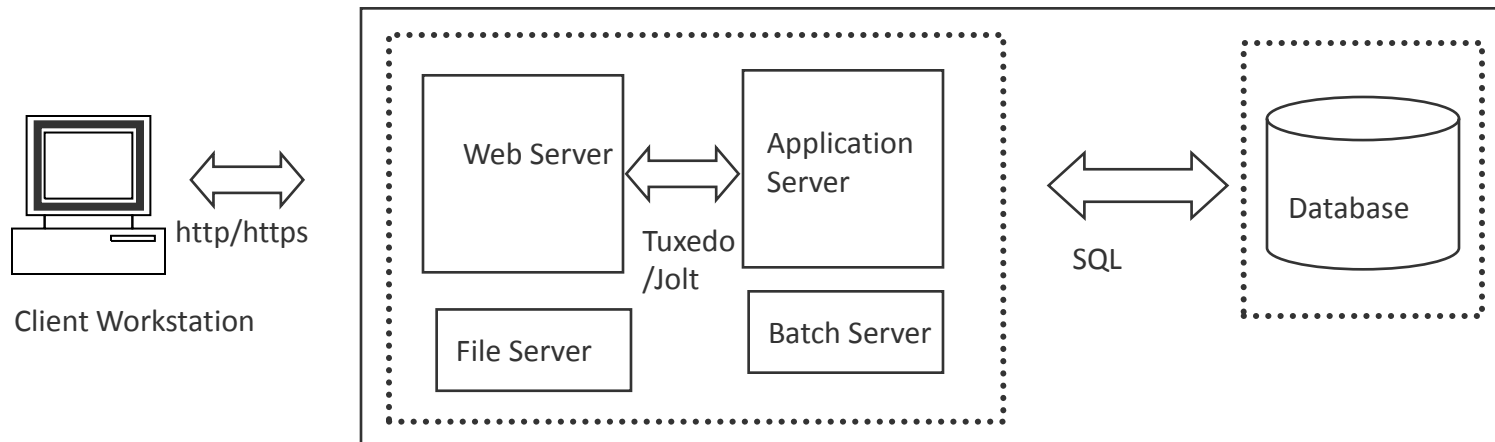
# PeopleSoft Installation : Documentation

Name	Description
PeopleTools Release Notes	This document provides a comprehensive description of the new features in PeopleTools
PeopleTools Release Value Proposition	This document provides an overview of the value proposition that is associated with the new features and enhancements that are planned for PeopleTools
PeopleTools 8.52 Hardware and Software	Provides an in depth discussion of the hardware and software requirements for the various elements of the PeopleTools infrastructure.
PeopleTools 8.52 Install Guides	Step-by-step instructions for installing PeopleTools on your database platform and operating system.
PeopleTools Cumulative Feature Overview Tool	The CFO tool helps you plan your upgrades by providing concise descriptions of new and enhanced solutions and functionality in new Tools release.

# PeopleSoft Installation : Define Architecture

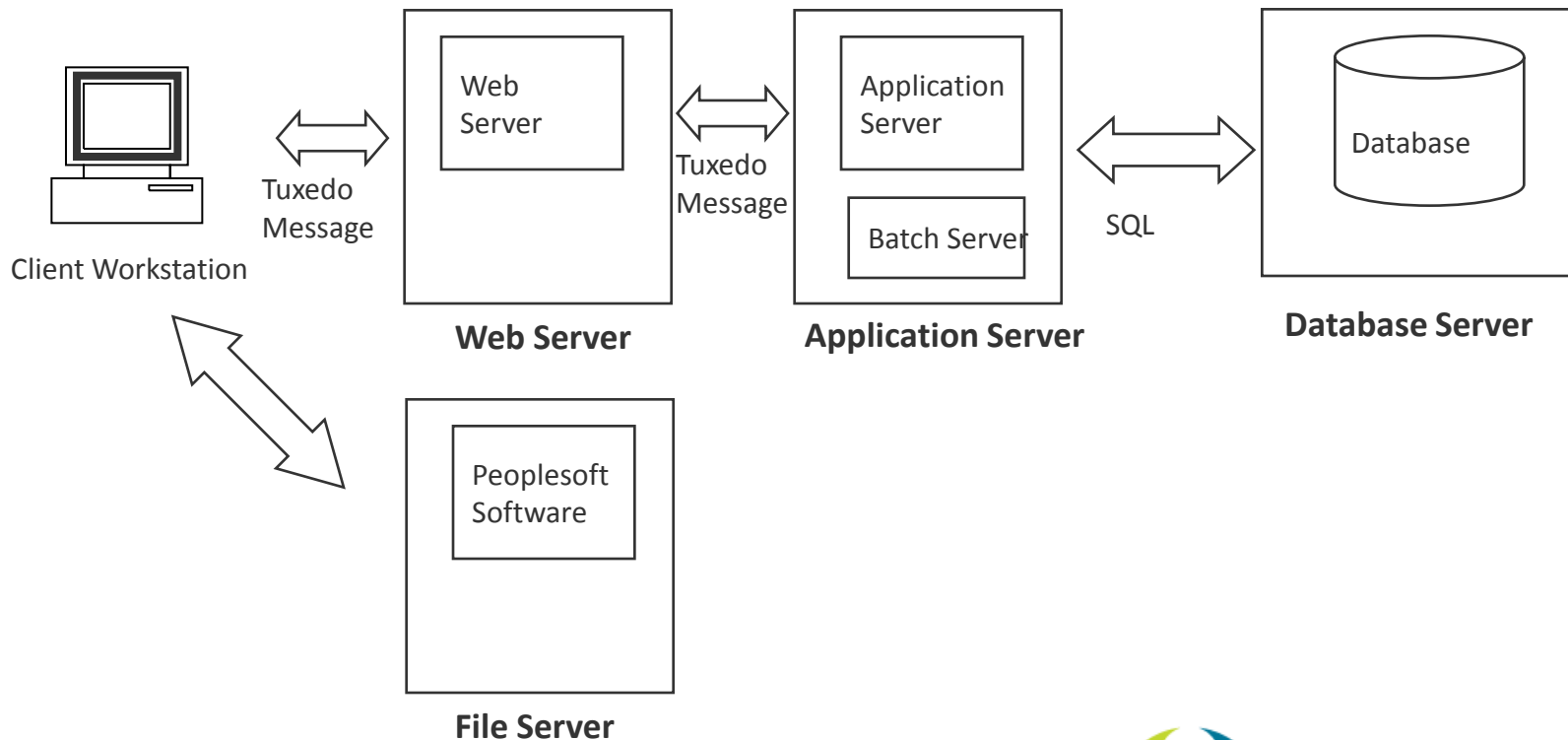
- Define Peoplesoft Components
- Logical Vs. Physical Architecture

## Logical n-Tier Architecture



# PeopleSoft Installation : Define Architecture

## Physical n-Tier Architecture



# PeopleSoft Software Installation

- Install Web Server Products
  - Oracle Weblogic Server 10.2.
  - IBM WebSprere
- Install Additional Products
  - Tuxedo 10gR3
  - Cobol Compiler
  - Crystal Reports
- Install PeopleSoft
  - Install Peopletools software
  - Install Verify Integration/ SES
  - Install application software
  - Install Multilingual software

# PeopleSoft Installation : Create database

- Familiarize with Peopletools
  - Configuration Manager
  - Application Designer
  - Data Mover
- Create Shell Database
- Create PeopleSoft related database scripts

Script Name	Purpose
xxddl.sql e.g. hcddl.sql	Create Tools and Application specific tablespaces
dbowner.sql	Create PS user and PSDBOWNER table
psroles.sql	Create PSADMIN Role
psadmin.sql	Create Application Owner, default SYSADM
connect.sql	Create CONNECT user , default people

# PeopleSoft Installation : Database Import script

- Setup Configuration Manager Profile & Install Workstation
- Launch Data Mover Tool and login using SYSADM id (bootstrap mode)
- Invoke Database Setup Wizard
- Create Database Import script
- Verify ACCESSID/PASSWORD
- Execute script
- Complete database setup as per Installation Guide
  - Update database to latest Peopletools release
  - Run Audit reports





# PeopleSoft Installation : Configure Application Server

- Understanding PeopleSoft Software Files
  - PS\_HOME
  - PS\_CFG\_HOME
  - PS\_PIA\_HOME
  - Psconfig.sh
  - Psdb.sh
- Setup Environment
- Using PSADMIN utility
  - Create App. Server Domain
  - Configure App. Server Domain
    - Jolt Listener (JSL) Port #, WorkStation Listener (WSL) Port #
  - Administer App. Server Domain

# PeopleSoft Installation : Configure PeopleSoft PIA (Web Server)

- Installing PIA for Oracle WebLogic Server
  - *Execute PS\_HOME\setup\PsmPPIAInstall\setup.sh*
  - GUI Mode or Console Mode
  - Provide information for
    - Domain Name
    - Site Name
    - http/https port #
    - Machine Name and Jolt Port # for Application Server
  - Start Web Domain
    - PS\_HOME/webserver/<domain name>/bin/startPIA.sh
  - Verify Application Connectivity
    - [http://<machine\\_name>:port#/<domain\\_name>/signon.html](http://<machine_name>:port#/<domain_name>/signon.html)

# PeopleSoft Installation : Configure Process Scheduler (Batch Server)

- Configure Process Scheduler Security
  - PeopleSoft user should have ProcessSchedulerAdmin Role
- Configure Report Distribution Repository Node
- Set Report Distribution Node in Process Scheduler Server definition (PSUNIX and PSNT)
- Configure Process Scheduler Domain
  - Use psadmin utility
  - Enter Userid/Password, Connect Id/ Password
  - Start Process Scheduler domain
- Run Sample reports
  - Verify report run success
  - Verify Report posted successfully to Report Repository

# Performance Tuning Tips : Monitor Active Oracle Sessions

The screenshot displays the SQL Tools 1.6 interface. The main window shows a query titled 'active\_sessions.sql' with the following SQL code:

```
select DISTINCT b.inst_id, a.sid SID,
substr(b.serial#,1,7) SERIAL#,
round(last_call_et/60,2) idle_min,
to_char(LOGON_TIME,'mm/DD hh24:mi:ss') logon,
b.osuser OS_User,
b.username,
b.process,
d.spid,
e.consistent_Gets + e.block_Gets log_io,
e.Physical_reads phy_io,
to_char(substr
(round(100 * ((e.consistent_Gets + e.block_Gets - e.Physical_reads) /
(e.consistent_Gets + e.block_Gets)),2),1,8),'999.9') HitRatio,
b.server,
decode(b.status,'ACTIVE','**',null) state,
decode(b.lockwait,null,null,'**') lockwait,
decode(d.latchwait,null,null,'**') latchwait,
decode(d.latchpin,null,null,'**') latchpin,
b.program, b.client_info
from gv$sesstat a,
gv$session b,
gv$statname c,
gv$process d,
gv$sesio e,
gv$tiar
where a.sid = b.sid
and a.statistic# = c.statistic#
and a.sid = e.sid
and b.sid = e.sid
and b.paddr = d.addr
AND b.inst_id = d.inst_id
AND b.inst_id = e.inst_id
and (e.consistent_Gets + e.block_Gets) > 0
and b.status = 'ACTIVE'
-- AND osuser != 'oracle'
AND b.program NOT LIKE 'oracle%'
-- AND b.client_info LIKE '%PSSUB%'
order by 1;
```

The results pane at the bottom shows the following data:

INST_ID	SID	SERIAL#	IDLE_MIN	LOGON	OS_USER	USERNAME	PROCESS	SPID	LOG_IO	PHY_IO	HITRATIO	SERVER	STATE	LOCKWAIT	PROGRAM	
1	961	93	.05	01/15 12:46:53	oracle	SYS	1298	1579	1027015	2	100.0	DEDICATED	***	cnulb	racgmon@bo	
2	3	872	7256	0	01/28 10:45:31	raghavendra.puani	SYSADM	4896:2116	1021	495710	5	100.0	DEDICATED	***	cnulb	SQLTools.exe
3	898	36728	0	01/28 13:31:34	pslra	SYSADM	2005	28819	15135728	26428	99.8	DEDICATED	***	cnulb	sqr@hqaapp1	
4	3	971	7951	8.5	01/27 15:26:38	pslra	SYSADM	13940	32090	48041985	1482559	76.1	DEDICATED	***	cnulb	PSAESRV@h

The Object Viewer on the right shows the schema structure for SYSADM.PS\_TL\_PAYABLE\_TIME, listing various columns and their data types.

# PeopleSoft 9.2 Installation Demo

- PeopleSoft Upgrade Manager (PUM) Home Page
- Understanding PUM
- Download & Combine PeopleSoft 9.2 Image Files
- Install Virtual Box
- Import Image into Virtual Box

# Summary

- Introduction
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- Demo of Peoplesoft 9.2/Tools 8.53 Installation

# Please complete the session evaluation

We appreciate your feedback and insight

*You may complete the session evaluation either on paper or online via the mobile app*



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