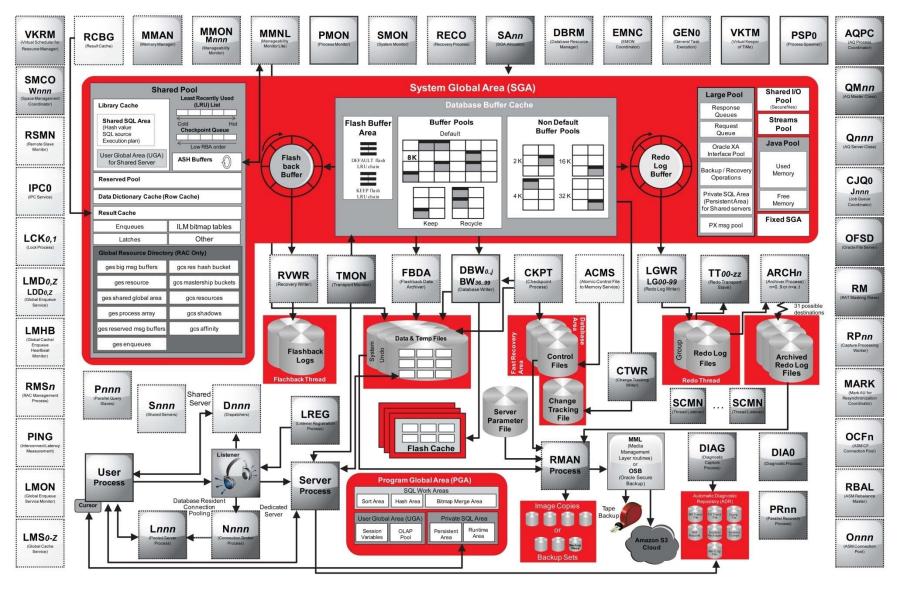
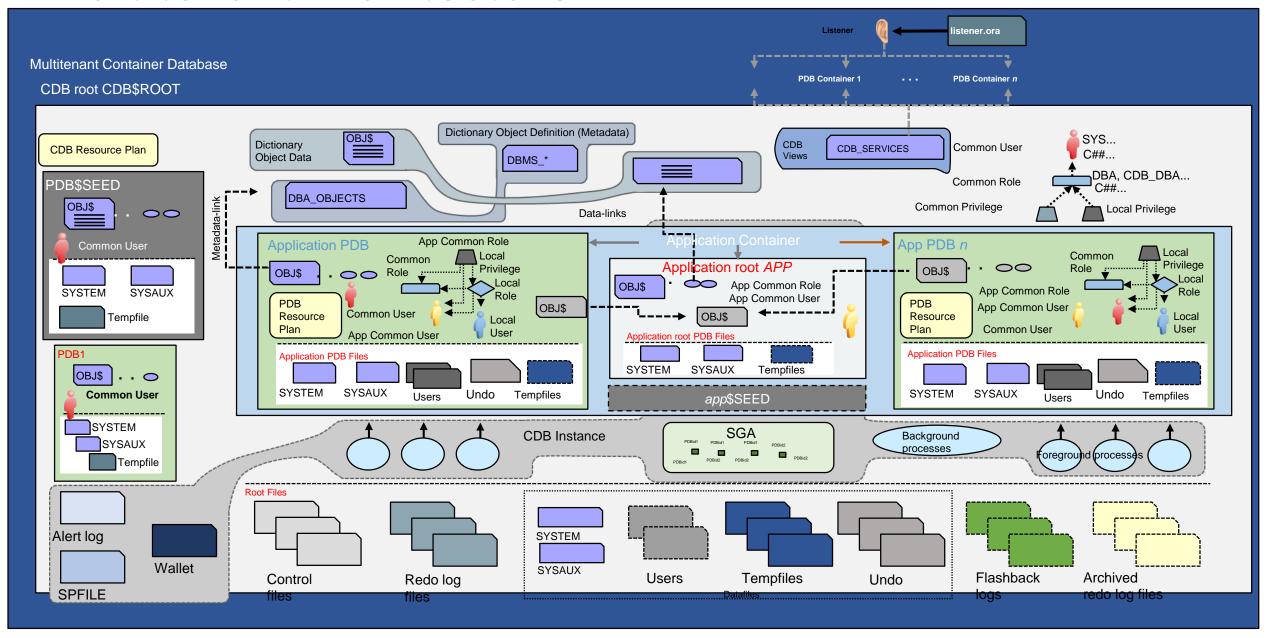
Processes, Views, Parameters, Packages, and Privileges

## Instance and Database



#### Multitenant Architecture



- CDB\_xxx: All of the objects in the CDB across all PDBs
- DBA\_xxx: All of the objects in a container or PDB
- CDB PDBS: All PDBs within CDB
- CDB TABLESPACES: All tablespaces within CDB
- CDB USERS: All users within CDB (common and local)
- CDB\_PDB\_SNAPSHOTS: All PDB snapshots associated with PDBs
- V\$PDBS: Displays information about PDBs associated with the current instance
- V\$CONTAINERS: Displays information about PDBs and the root associated with the current instance
- PDB\_PLUG\_IN\_VIOLATIONS: Displays information about PDB violations after compatibility check with CDB
- RC PDBS: Recovery catalog view about PDB backups

- DBA APPLICATIONS: Application created on top of application PDBs
- Other views related to applications:
  - DBA APP PATCHES
  - DBA APP STATEMENTS
  - DBA APP ERRORS
  - DBA APP VERSIONS
- New columns in V\$CONTAINERS view:
  - APPLICATION ROOT = YES | NO
  - APPLICATION PDB = YES  $\mid$  NO
  - APPLICATION SEED = YES | NO
  - APPLICATION ROOT CON ID =  $\langle con id \rangle$
  - APPLICATION ROOT CLONE = YES | NO
  - PROXY PDB = YES|NO
  - PDB\_COUNT = < nbr >
- New columns in V\$PDBS view:
  - PDB COUNT =  $\langle nbr \rangle$

- New columns or column values in CDB PDBS view:
  - UPGRADE PRIORITY =  $\langle nbr \rangle$
  - APPLICATION ROOT = YES | NO
  - APPLICATION PDB = YES|NO
  - APPLICATION SEED = YES | NO
  - APPLICATION ROOT CON ID =  $\langle con \ id \rangle$
  - IS PROXY PDB = YES|NO
  - STATUS = NORMAL | RELOCATING | RELOCATED | REFRESHING | STUB 19c
  - SNAPSHOT MODE = NONE | MANUAL | AUTO
- New columns in DBA TABLES view:
  - CONTAINER MAP OBJECT = YES | NO
  - CONTAINERS DEFAULT = YES | NO
  - CONTAINER MAP = YES | NO

- New values in CDB\_OBJECTS view, column SHARING = METADATA LINK | DATA LINK | EXTENDED DATA LINK | NONE
- New column INHERITED = YES | NO in views:
  - CDB\_USERS
  - CDB ROLES
  - CDB\_TAB\_PRIVS
  - CDB\_SYS\_PRIVS
  - CDB\_ROLE\_PRIVS
  - ROLE\_ROLE\_PRIVS
  - ROLE\_SYS\_PRIVS
  - ROLE TAB PRIVS
  - AUDIT\_UNIFIED\_POLICIES
  - DVSYS.DBA DV REALM
  - DVSYS.DBA DV REALM OBJECT

- New values in PROPERTY NAME, column in DATABASE PROPERTIES view:
  - MAX PDB SNAPSHOTS = 8 19c
  - CONTAINER\_MAP, LOCAL\_UNDO\_ENABLED , LEAD\_CDB = TRUE | FALSE

19c

- LEAD CDB URI = dblink: link to cdb lead 19c
- CONTAINERS\_HOST = <hostname>
- CONTAINERS\_PORT = 1521
- New column in V\$ENCRYPTION WALLET view:
  - KEYSTORE MODE = NONE | UNITED | ISOLATED 19c
  - CDB LOCKDOWN PROFILES
  - V\$RESTORE POINT

- AWR ROOT PDB IN SNAP
- AWR PDB PARAMETER
- AWR PDB RSRC PDB METRIC
- AWR PDB SQL SUMMARY
- V\$RSRCPDBMETRIC / V\$RSRCPDBMETRIC\_HISTORY / DBA\_HIST\_RSRC\_PDB\_METRIC
- V\$RSRC\_PDB / V\$RSRC\_PDB\_HISTORY

# CDB and PDB Parameters

- ENABLE PLUGGABLE DATABASE: Required to create a CDB at CDB instance startup
- PDB\_FILE\_NAME\_CONVERT: Maps names of existing files to new file names when processing a CREATE PLUGGABLE DATABASE statement
- CDB COMPATIBLE: Enables you to get behavior similar to a non-CDB
- PDB OS CREDENTIAL: Enables another OS user than oracle to connect to PDBs
- DB PERFORMANCE PROFILE
- PDB LOCKDOWN
- SGA\_MIN\_SIZE
- MAX PDBS
- WALLET\_ROOT: Replaces the ENCRYPTION\_WALLET\_LOCATION parameter in the sqlnet.ora file, which is easier to use to set the location of keystores
- TDE\_CONFIGURATION: Sets the type of keystore to use

# CDB and PDB New Packages

- DBMS PDB.DESCRIBE
- DBMS PDB.CHECK PLUG COMPATIBILITY
- DVSYS.DBMS MACADM.CREATE REALM :
  - REALM SCOPE =>
    - DBMS MACUTL.G SCOPE COMMON
    - DBMS MACUTL.G SCOPE LOCAL
  - ENABLED =>
    - DBMS\_MACUTL.G\_SIMULATION
    - DBMS MACUTL.G YES
    - DBMS MACUTL.G NO