

Oracle Database
Last update 02/28/2013

Oracle JDBC driver:

The SolutionPack requires the Oracle JDBC driver matching your Oracle database version available on your APG collector. You can get it from:

<http://www.oracle.com/technetwork/database/features/jdbc/index-091264.html>

The filename should be something like ojdbcX.jar.

If you have not already uploaded this .jar file to your collector server, you must copy this file under the JDBC driver repository. By default, location is:

<INSTALLATION_DIRECTORY/Databases/JDBC-Drivers/Default/lib

Restart your collector-manager for changes to take effect.

Configuring the Oracle Database SolutionPack with an unprivileged account:

The Watch4net collector must connect to each instance of Oracle databases and perform SQL queries. You can use either an administrator equivalent system account, or create a dedicated system account for the collector. If you want to use the last option, please ask the DBA administrator to run the following query against every instances/RAC cluster. This will create a "watch4net" account, which specific grant for the Watch4net collector.

```
create user watch4net identified by securepassword default tablespace users temporary tablespace temp;
grant connect, resource to watch4net;
grant select on V_$SYSTAT to watch4net;
grant select on v_$filestat to watch4net;
grant select on v_$database to watch4net;
grant select on dba_data_files to watch4net;
grant select on dba_extents to watch4net;
grant select on dba_free_space to watch4net;
grant select on v_$parameter to watch4net;
grant select on v_$sgainfo to watch4net;
grant select on v_$rowcache to watch4net;
grant select on v_$librarycache to watch4net;
grant select on v_$latch to watch4net;
grant select on v_$rollstat to watch4net;
grant select on v_$dispatcher to watch4net;
grant select on v_$instance to watch4net;
grant select on v_$sesstat to watch4net;
grant select on v_$statname to watch4net;
grant select on v_$session to watch4net;
grant select on v_$sess_io to watch4net;
grant select on v_$asm_disk to watch4net;
grant select on v_$asm_diskgroup to watch4net;
grant select on v_$logfile to watch4net;
grant select on v_$log to watch4net;
```

For Oracle 11g, you'll also need to run:

```
begin
dbms_network_acl_admin.create_acl (
acl              => 'Resolve_Access.xml',
description      => 'Resolve Network Access using UTL_INADDR',
principal        => 'WATCH4NET', -- MUST BE IN CAPS
is_grant         => TRUE,
privilege        => 'resolve',
start_date       => null,
end_date         => null
);
```

```
);  
commit;  
end;  
begin  
dbms_network_acl_admin.assign_acl (  
acl          => 'Resolve_Access.xml',  
host         => '*',  
lower_port   => null,  
upper_port   => null);  
commit;  
end;
```

Configuring the Oracle Database SolutionPack with server polling:

This SolutionPack features optional complementary server polling. Activating this feature allows richer KPI, by mixing Oracle's KPI and server KPI. For example, Oracle's tablespace maximum size can be computed using server file system size.

- **Requirements:**
 - SNMP, EMC Smarts or RSC server polling must be enabled. See appropriate documentation for more details on how to configure this.
 - "device" property must match between SolutionPack for Oracle, and server polling. In the Oracle SolutionPack, the "device" property is extracted from Oracle's hostname (SELECT UTL_INADDR.get_host_name FROM dual). In server polling, this depends on the technology used, see previous point.

Known issues:

- You may see in collector logs a line like this:

```
WARNING -- [2013-02-13 09:44:55 EST] -- d::a(): Main query 'getemptydatafiles' returned no result  
(connection group: ORACLE0).
```

This behavior is normal, if your database does have empty datafiles.

- Support for Oracle secure communication (SSL/TCPs)
This feature is currently not supported by the SolutionPack.