



# Configuring SiteScope for Oracle RAC



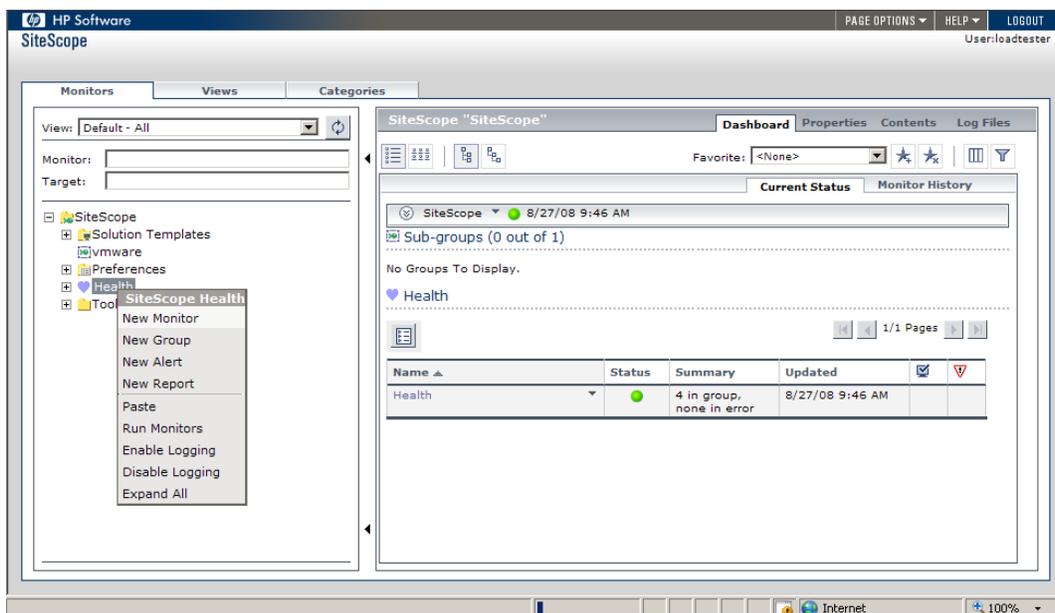
## Oracle RAC:

Oracle Real Application Cluster (RAC) is a component of the Oracle database that allows a database to be installed over multiple servers. Companies are beginning to utilize this technology in their production environment due to its administrative advantages. Oracle RAC allows for increased scalability because servers can be added or removed to meet the current needs. If one server fails, the additional servers can absorb the workload.

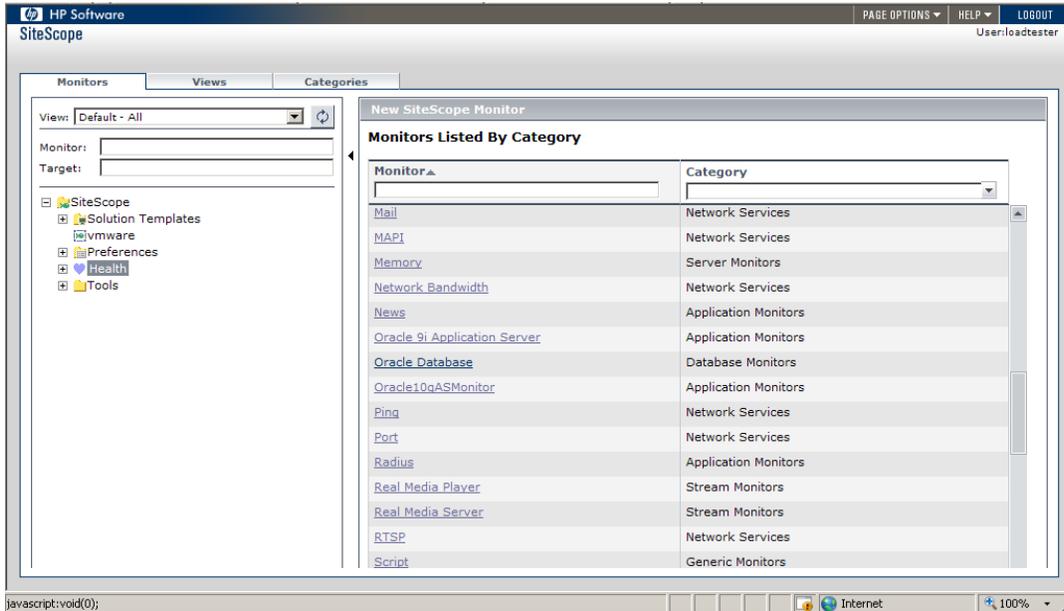
Traditionally to monitor the Oracle Database in SiteScope, a connection would be made to the individual Oracle Database Machine using a JDBC Connection. Since Oracle RAC is installed over multiple servers, you cannot point SiteScope to a singular IP address. This causes many issues when trying to monitor the database.

## Configuring SiteScope:

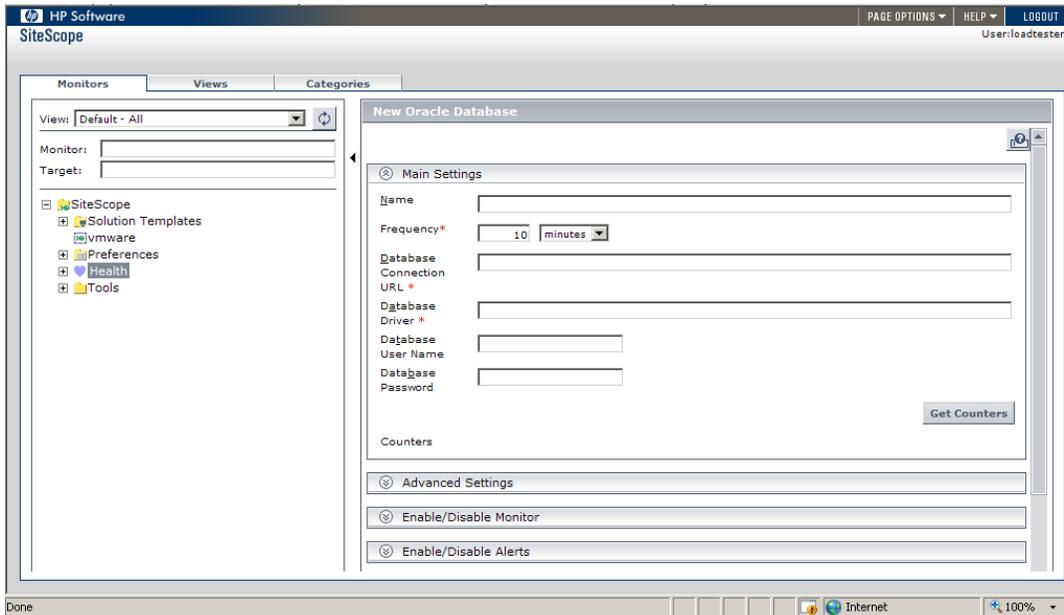
1. Ensure that the Oracle Client is installed on SiteScope Server. It may require assistance from the Database Administrators to install the current version of Oracle Client on the SiteScope Server.
2. Copy the Oracle driver file classes12.zip from within the Oracle Client folder to <sitescope>\java\lib\ext sub directory. Do not unzip the files.
3. After copying the Oracle Client Drivers, stop and restart the SiteScope Service. This is extremely important. If this is not completed first, SiteScope will not recognize the driver.
4. In SiteScope, add a new monitor.



5. Select Oracle database as the monitor Type.



The Oracle Database monitor setup screen in SiteScope should look like this:



6. Enter a Name for the monitor.
7. Enter the desired Frequency of the Monitor.
8. Enter the Database Connect URL in the following format:

jdbc:oracle:thin:@<Oracle RAC JDBC Connection String>

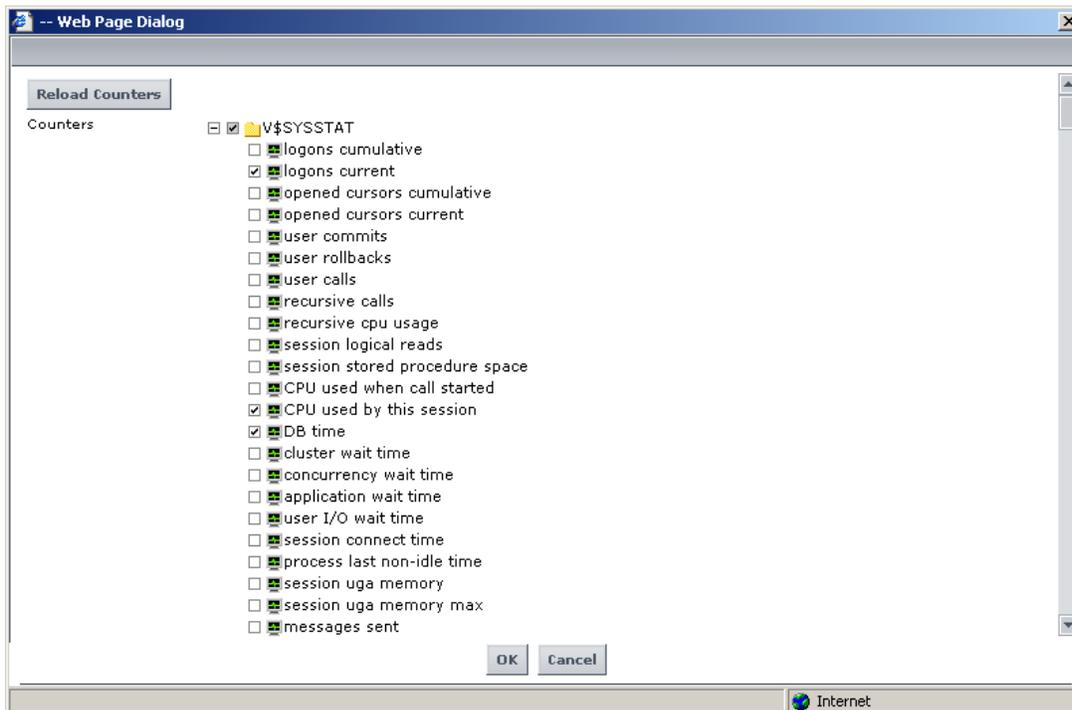
Use the Oracle RAC JDBC Connection String (which may require assistance from the Oracle Database Administrator).

**Example:**

To connect to an Oracle RAC database on two servers named server1 and server 2 using port 1521 you would use a JDBC Database Connection URL string of:

```
jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=Server1)(PORT=1521))(ADDRESS=(PROTOCOL=TCP)(HOST=Server2)(PORT=1521)))(CONNECT_DATA=(SERVICE_NAME=ORCL)))
```

9. Enter the Oracle Database Username.
10. Enter the Oracle Database Password.
11. Add the desired Counters.



## Possible Errors:

HP has compiled a list of the possible errors that you may encounter. These have been provided in this document to assist with common issues that may be encountered:

1. "error, connect error, No suitable driver"	Check "Database Connection URL" for syntax errors such as dots instead of colons.
2. "error, connect error, Io exception: The Network Adapter could not establish the connection"	In "Database Connection URL", check jdbc:oracle:thin:@206.168.191.19:1521:ORCL .
3. "error, connect error, Io exception: Invalid connection string format, a valid format is: "host:port:sid"	In "Database Connection URL," check jdbc:oracle:thin:@ <u>206.168.191.19:1521:ORCL</u> .
4. "error, connect error, Invalid Oracle URL specified: OracleDriver.connect"	In "Database Connection URL," check for a colon before the "@" - jdbc:oracle:thin:@206.168.191.19:1521:ORCL .
5. "Refused:OR=(CODE=12505)(EMFI=4)))))"	In "Database Connection URL," the database SID is probably incorrect (ORCL part). This error can also occur when the TCP address or TCP port is incorrect. If this is the case, verify the TCP port and check with the database administrator to verify the proper SID.
6. "String Index out of range: -1"	In "Database Connection URL," check for the database server address, port, and the database SID.
7. "Database error 1, connect, ..., Protocol violation, 0, null"	The JDBC driver is incompatible with Oracle Database or is corrupt.
8. "error, driver connect error, oracle.jdbc.driver.OracleDriver"	Check the syntax in the "Database Driver" field.
9. "error, driver connect error, oracle.jdbc.driver.OracleDriver"	Verify that the driver is loaded in the correct place.
10. "error, connect error, No suitable driver"	Check the driver specified in "Database Driver" field; make sure there are no trailing spaces.
11. "error, connect error, No suitable driver"	Check "Database Connection URL" for syntax errors such as dots instead of colons.
12. "error, id ORA-00942: table or view does not exist"	Check "User/Password" and the SID (database) to ensure that appropriate permission and access to the system tables has been granted to see these counters.
13. "error,driver connect error, oracle/jdbc/driver/OracleDriver"	Check driver specified in field "Database Driver", and make sure there are no trailing spaces.

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