

HOW TO Install Nagios Plugin to monitor Oracle Tablespaces... and everything you can monitor through a SQL*Plus query

1- System Requirements

- Nagios release 3.x
- Java JDK 1.6.0_xx

I assume that the `java` and `javac` commands are included in your path and are part of JDK 1.6.0_xx version: if not, everywhere you'll find the command "java" or "javac", you MUST write before the full path of your java JDK installation (for example `/usr/java/jdk_1.6.0_37/bin/javac`).

2- Download and install the plugin

Download the plugin by submitting these commands:

```
cd /tmp
wget www.giuseppeturri.it/nagios_checkoracle.tar.gz
```

Extract the tarball:

```
tar xzf nagios_checkoracle.tar.gz
```

Install it by compiling the source and moving it to the nagios commands path:

- `cd nagios_checkoracle`
- `cp check_tablespace_oracle.* /usr/local/nagios/libexec`
- `cp ojdbc14.jar /usr/local/nagios/libexec`
- `cd /usr/local/nagios/libexec`
- `javac -cp ./ojdbc14.jar:. check_tablespace_oracle.java`

At this point we have compiled and copied all we need in the `/usr/local/nagios/libexec` folder: ***If in your future you need to modify the java code to execute other SQL Queries to monitor your DB you need to recompile it by submitting the last command (`javac -cp ./ojdbc14.jar:. check_tablespace_oracle.java`) from the nagios/libexec folder.***

Now you have to add the new command to the nagios repository commands by adding at the end of your `/usr/local/nagios/etc/objects/commands.cfg` the following lines:

```
define command{
    command_name    check_tablespace_oracle
    command_line    /usr/java/jdk1.6.0_37/bin/java -cp
/usr/local/nagios/libexec/ojdbc14.jar:/usr/local/nagios/libexec check_tablespace_oracle
$ARG1$ $ARG2$ $ARG3$ $ARG4$ $ARG5$ $ARG6$ $ARG7$ $ARG8$
}
```

Remember to substitute your full path of your java installation in the yellow section of the code above !!!

Once saved the commands.cfg you can use your new plugin to check, for example, the status of your tablespaces by editing your configuration files (/usr/local/nagios/etc/objects/localhost.cfg) in this way:

```
define service{
    use                local-service
    host_name          localhost
    service_description Oracle_Tablespace_USERS
    check_command
check_tableSPACE_oracle!DATABASE_IP_ADDRESS!PORT_NUMBER!SID_OF_YOUR_DB!DB_username!DB_P
assword!TABLESPACE_NAME!WARNING_MB_FREE_SPACE!CRITICAL_MB_FREE_SPACE
    notifications_enabled 1
}
```

Practical Example:

We Assume that:

| | |
|---------------------------------------|--|
| Our database server IP is: | 10.100.20.12 |
| The listener port is: | 1521 |
| The SID of our DB is: | ORA10G |
| Username able to select the V\$ view: | SYSTEM (Or any other user that can access the view/table used in our check_tableSPACE_oracle script) |
| Password of this user: | ORACLE (since 11g oracle passwords are case sensitive) |
| Tablespace name: | USERS (IT MUST BE IN UPPER CASE) |
| WARNING_MB_FREE_SPACE: | 1500 (It specify the minimal amount of space in MB before to enter in Warning condition) |
| CRITICAL_MB_FREE_SPACE: | 800 (It specify the minimal amount of space in MB before to enter in CRITICAL condition) |

So, assuming all these parameters, the final code to write in the /usr/local/nagios/etc/objects/localhost.cfg file is:

```
define service{
    use                local-service
    host_name          localhost
    service_description Oracle_Tablespace_USERS
    check_command
check_tableSPACE_oracle!10.100.20.12!1521!ORA10G!system!ORACLE!USERS!1000!500
    notifications_enabled 1
}
```

Once saved and closed the file we need to check our configuration files by issuing the verify command:

```
/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
```

And, is no serious problems were detected, we can restart nagios service to make effective the plugin

```
service nagios restart
```

| | | | | | |
|--------------------------------|----|---------------------|-----------------|-----|---|
| Oracle_Tablespace_TBLDATJSEC | OK | 10-23-2012 14:42:14 | 11d 3h 19m 38s | 1/4 | Tablespace OK: TBLDATJSEC 79% used: 4 datafiles, used 6467 MB of 8144 MB total 1677 MB liberi |
| Oracle_Tablespace_TBLDATJSIAC | OK | 10-23-2012 14:46:37 | 11d 2h 55m 15s | 1/4 | Tablespace OK: TBLDATJSIAC 76% used: 5 datafiles, used 7831 MB of 10240 MB total 2409 MB liberi |
| Oracle_Tablespace_TBLDATJSIDIC | OK | 10-23-2012 14:41:51 | 10d 16h 45m 1s | 1/4 | Tablespace OK: TBLDATJSIDIC 40% used: 2 datafiles, used 1637 MB of 4096 MB total 2459 MB liberi |
| Oracle_Tablespace_TBLDATJSIPE | OK | 10-23-2012 14:46:47 | 2d 6h 50m 5s | 1/4 | Tablespace OK: TBLDATJSIPE 89% used: 13 datafiles, used 23591 MB of 26624 MB total 3033 MB liberi |
| Oracle_Tablespace_TBLDATJSISAN | OK | 10-23-2012 14:42:22 | 10d 16h 34m 30s | 1/4 | Tablespace OK: TBLDATJSISAN 59% used: 3 datafiles, used 3637 MB of 6144 MB total 2507 MB liberi |
| Oracle_Tablespace_TBLINDJSIAC | OK | 10-23-2012 14:46:18 | 11d 2h 55m 34s | 1/4 | Tablespace OK: TBLINDJSIAC 64% used: 8 datafiles, used 10405 MB of 16384 MB total 5979 MB liberi |
| Oracle_Tablespace_TBLINDJSIDIC | OK | 10-23-2012 14:42:32 | 11d 2h 19m 20s | 1/4 | Tablespace OK: TBLINDJSIDIC 51% used: 1 datafiles, used 1037 MB of 2048 MB total 1011 MB liberi |
| Oracle_Tablespace_TBLINDJSIPE | OK | 10-23-2012 14:42:45 | 10d 16h 34m 7s | 1/4 | Tablespace OK: TBLINDJSIPE 91% used: 21 datafiles, used 39245 MB of 43008 MB total 3763 MB liberi |
| Oracle_Tablespace_TBLINDJSISAN | OK | 10-23-2012 14:42:59 | 10d 16h 33m 53s | 1/4 | Tablespace OK: TBLINDJSISAN 39% used: 2 datafiles, used 1609 MB of 4096 MB total 2487 MB liberi |



<http://www.nagios.com/#ref=s57X31>