# Run Windows and Oracle Performance Counters

Assuming that Oracle Performance Counters for Windows has been installed.

Get a list of all available counters:

typeperf -qx > all--counters.txt

Get a list of all available Oracle counters:

typeperf -qx | findstr /R "Database.\*HealthService" > all-windows-oracle-counters.txt

## gen-oracle-counter-files.sh

This script will create oracle counter scripts, based on several available oracle counters

#!/usr/bin/env bash  
  
counterFileDir=counter-files  
  
mkdir -p $counterFileDir  
  
for class in $(grep '\Database(HealthService)' all-windows-oracle-counters.txt | awk -F \\ '{ print $3 }'| awk '{ print $1 }'| sort -u)  
do  
 echo  
 echo class: $class  
 echo  
 grep '\\Database(HealthService)\\'$class all-windows-oracle-counters.txt > $counterFileDir/oracle-$(echo $class | sed -e 's#/##' )-counter.txt  
done  
  
  
metricsDrive=C:  
sampleCount=1440  
sampleInterval=60  
metricsHome=%HOMEPATH%\\counters  
outputDir=csv  
  
  
for baseFile in $(grep '\Database(HealthService)' all-windows-oracle-counters.txt | awk -F \\ '{ print $3 }' | awk '{ print $1 }'| sort -u)  
do  
  
 baseFile=oracle-$(echo $baseFile | sed -e 's#/##' )-counter  
  
 echo baseFile: $baseFile  
  
 cat <<-EOF > $baseFile.cmd  
  
@REM $baseFile.cmd  
@echo off  
  
set counterFileDir=$counterFileDir  
set metricsDrive=$metricsDrive  
set metricsHome=$metricsHome  
set outputDir=csv  
set sampleCount=$sampleCount  
set sampleInterval=$sampleInterval  
  
mkdir %metricsDrive%\%metricsHome%\%outputDir%  
  
%metricsDrive%  
cd %metricsHome%  
  
set countersFile=$baseFile.txt  
set metricsFile=$baseFile.csv  
  
@echo on  
  
typeperf -f CSV -cf %counterFileDir%\\%countersFile% -o %outputDir%\%metricsFile% -sc %sampleCount% -si %sampleInterval% -y  
  
exit  
  
 EOF  
  
  
done

## gen-std-counter-files.sh

This script will create standard Windows counter scripts, based on a few metrics

#!/usr/bin/env bash  
  
  
counterFileDir=counter-files  
  
mkdir -p $counterFileDir  
  
  
grep -E '^\\Memory\\' all-counters.txt > $counterFileDir\win-memory-counters.txt  
  
grep -E '^\\Processor\(\_Total\)\\%' all-counters.txt > $counterFileDir/win-cpu-counters.txt  
  
grep -E '^\\Network Interface\(' all-counters.txt | grep -v Unicast > $counterFileDir/win-network-counters.txt  
  
grep -E '\\PhysicalDisk\(' all-counters.txt > $counterFileDir/win-physdisk-counters.txt  
  
  
metricsDrive=C:  
sampleCount=1440  
sampleInterval=60  
metricsHome=%HOMEPATH%\\counters  
outputDir=csv  
  
for baseFile in win-memory-counters win-cpu-counters win-network-counters win-physdisk-counters  
do  
 echo baseFile: $baseFile  
  
 cat <<-EOF > $baseFile.cmd  
  
@REM $baseFile.cmd  
@echo off  
  
set counterFileDir=$counterFileDir  
set metricsDrive=$metricsDrive  
set metricsHome=$metricsHome  
set outputDir=csv  
set sampleCount=$sampleCount  
set sampleInterval=$sampleInterval  
  
mkdir %metricsDrive%\%metricsHome%\%outputDir%  
  
%metricsDrive%  
cd %metricsHome%  
  
set countersFile=$baseFile.txt  
set metricsFile=$baseFile.csv  
  
@echo on  
  
typeperf -f CSV -cf %counterFileDir%\\%countersFile% -o %outputDir%\%metricsFile% -sc %sampleCount% -si %sampleInterval% -y  
  
exit  
  
 EOF  
  
  
done

## run-all-counters.cmd

Create this CMD script to start all counters:

ls -1 oracle\*counter.cmd win\*counters.cmd > run-all-counters.cmd

Contents:

start oracle-Database-counter.cmd  
start oracle-Defragmentation-counter.cmd  
start oracle-Log-counter.cmd  
start oracle-Pages-counter.cmd  
start oracle-Records-counter.cmd  
start oracle-Sessions-counter.cmd  
start oracle-Table-counter.cmd  
start oracle-Version-counter.cmd  
start win-cpu-counters.cmd  
start win-memory-counters.cmd  
start win-network-counters.cmd  
start win-physdisk-counters.cmd