This is an output exaple applying the [defaults] limits to the /etc/security/limits.conf file

This is an output exaple applying the [oracle] limits to the /etc/security/limits.conf file

```
PuTTY (inactive)
           +# This file is controlled by CHEF. >>>Do not modify<<<
            #<domain>
                                                    <value>
                              soft
           -#*
           -#@student
           -#@faculty
           -#@faculty
           -#ftp
           -#@student
           -# End of file
                            soft
           +oracle
                                    nproc
                                                    16384
                                                    16384
$$$$$$ Running legacy setup for 'Docker' Driver
   --> Installing Busser (busser)
Fetching: thor-0.19.0.gem (100%)
```

### # This is the main directory for the cookbooks

```
[root@sandman tunes]# pwd
/opt/company-chef-repo/cookbooks/tunes
```

## # This is the main template for tje /etc/security/limits.conf file

```
[root@sandman tunes]# cat templates/default/limits.conf.erb
# /etc/security/limits.conf
#Each line describes a limit for a user in the form:
#<domain>
                  <type> <item> <value>
#Where:
#<domain> can be:
          - an user name
         - a group name, with @group syntax

- the wildcard *, for default entry

- the wildcard %, can be also used with %group syntax,
                   for maxlogin limit
#<type> can have the two values:
         - "soft" for enforcing the soft limits
- "hard" for enforcing hard limits
#<item> can be one of the following:
         - core - limits the core file size (KB)
         - data - max data size (KB)
         - fsize - maximum filesize (KB)
         - memlock - max locked-in-memory address space (KB)
         - nofile - max number of open files
         - rss - max resident set size (KB)
         - stack - max stack size (KB)
         - cpu - max CPU time (MIN)
        - nproc - max number of processes
- as - address space limit
         - maxlogins - max number of logins for this user
         - maxsyslogins - max number of logins on the system
         - priority - the priority to run user process with - locks - max number of file locks the user can hold
         - sigpending - max number of pending signals
- msgqueue - max memory used by POSIX message queues (bytes)
         - nice - max nice priority allowed to raise to
         - rtprio - max realtime priority
# This file is controlled by CHEF. >>>Do not modify<<<
#<domain>
                        <item>
                <type>
                                         <value>
<% @ulimits = [] -%>
<% @ulimits = [@ulimit_domain, @ulimit_type, @ulimit_item, @ulimit_value] -%>
<% if (( @ulimit_domain.size == @ulimit_type.size ) && ( @ulimit_type.size == @ulimit_item.size )</pre>
&& ( @ulimit_item.size == @ulimit_value.size )) -%>
  <% for e in 0..@ulimit_item.size do -%>
<% end -%>
<%else -%>
  <%= "Ulimits attributes mismatch" + "%2s" % "#{@ulimit_domain.size}" + "%2s" %</pre>
"#{@ulimit_type.size}" + "%2s" % "#{@ulimit_item.size}" + "%2s" % "#{@ulimit_value.size}" %>
<% end -%>
```

### # This is the [default] limits attributes using the default [tunes::default] recipe

```
[root@sandman tunes]# cat attributes/default.rb
#
## Cookbook Name:: ../tunes/
## Attributes:: default
#
#Author::
#Copyright 2016, Company
#
default[:limits_conf][:d] = '*','*','*','*','*'
default[:limits_conf][:t] = 'soft','hard','soft','hard','soft','hard'
default[:limits_conf][:i] = 'memlock','memlock','nofile','nofile','nproc','nproc'
default[:limits_conf][:v] = '8388608','8388608','16384','16384','16384','16384'
```

# # This is the [ default ] recipe for the [tunes] cookbook (TODO: restart the SSHD service)

# # This is the [oracle] recipe (wrapper) with the limits attributes using the default [tunes::default] recipe

```
[root@sandman tunes]# cat recipes/oracle.rb
#
# Cookbook Name:: ../tunes/ (Wrapper)
# Recipe:: oracle
#
# Copyright 2016, YOUR_COMPANY_NAME
#
node.default[:limits_conf][:d] = 'oracle','oracle','oracle','oracle'
node.default[:limits_conf][:t] = 'soft','hard','soft','hard'
node.default[:limits_conf][:i] = 'nproc','nproc','nofile','nofile'
node.default[:limits_conf][:v] = '16384','16384','65536','65536'
include_recipe 'tunes::default'
```

CHEF cookbook [ tunes ] example.

# # This is the [ .kitchen.yml ] file to test the recipes using "kitchen test" with docker

```
[root@sandman test]# egrep -v '#|^$' .kitchen.yml
---
driver:
   name: docker
provisioner:
   name: chef_solo
   cookbooks_path: /opt/ company-chef-repo/cookbooks
   platforms:
        name: centos-7
suites:
        - name: default
        run_list:

        #- recipe[tunes::default]
        #- recipe[tunes::oracle]

        attributes:
```