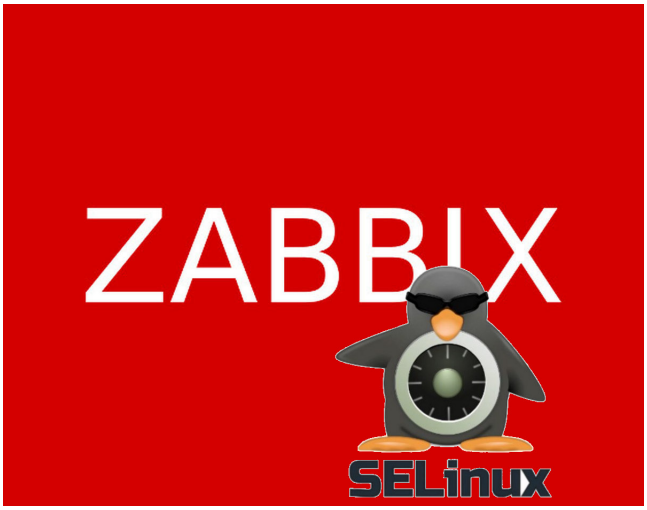
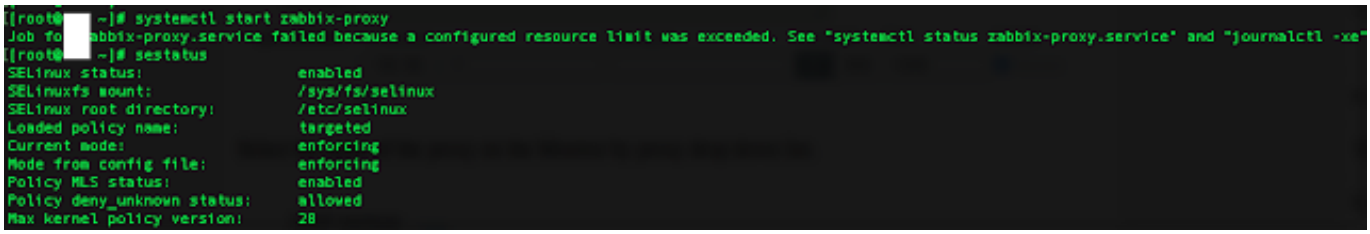
# Fix Zabbix selinux caused permission issues on CentOS 7 Linux / cannot set resource limit: [13] Permission denied error solution

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**If you have to install Zabbix client that has to communicate towards Zabbix server via a Zabbix Proxy you might be unpleasently surprised that it cannot cannot be start if the selinux mode is set to Enforcing.**
Error message like on below screenshot will be displayed when starting proxy client with systemctl.




In the zabbix logs you will see error messages such as:

**"cannot set resource limit: [13] Permission denied, CentOS 7"**

*29085:20160730:062959.263 Starting Zabbix Agent [Test host]. Zabbix 3.0.4 (revision 61185).*
*29085:20160730:062959.263 **** Enabled features ****
29085:20160730:062959.263 IPv6 support: YES
29085:20160730:062959.263 TLS support: YES
29085:20160730:062959.263 **************************
29085:20160730:062959.263 using configuration file: /etc/zabbix/zabbix_agentd.conf*
***29085:20160730:062959.263 cannot set resource limit: [13] Permission denied***
*29085:20160730:062959.263 cannot disable core dump, exiting...*

Next step to do is to check whether zabbix is listed in **selinux's enabled modules to do so run:**

```
[root@centos ~ ]# semodules -l
...
.....
vhostmd    1.1.0
virt    1.5.0
vlock    1.2.0
vmtools    1.0.0
vmware    2.7.0
vnstatd    1.1.0
vpn    1.16.0
w3c    1.1.0
watchdog    1.8.0
wdmd    1.1.0
webadm    1.2.0
webalizer    1.13.0
wine    1.11.0
```

**wireshark 2.4.0**
**xen 1.13.0**
**xguest 1.2.0**
**xserver 3.9.4**
**zabbix 1.6.0**
**zarafa 1.2.0**
**zebra 1.13.0**
**zoneminder 1.0.0**
**zosremote 1.2.0**

```
[root@centos ~ ]# sestatus
# sestatusSELinux status:                 enabled
SELinuxfs mount:                /sys/fs/selinux
SELinux root directory:         /etc/selinux
Loaded policy name:             targeted
Current mode:                   enforcing
Mode from config file:          enforcing
Policy MLS status:              enabled
Policy deny_unknown status:     allowed
Max kernel policy version:      28
```

To get exact zabbix IDs that needs to be added as permissive for Selinux you can use **ps -eZ** like so:

```
[root@centos ~ ]# ps -eZ |grep -i zabbix
system_u:system_r:zabbix_agent_t:s0 1149 ?     00:00:00 zabbix_agentd
system_u:system_r:zabbix_agent_t:s0 1150 ?     00:04:28 zabbix_agentd
system_u:system_r:zabbix_agent_t:s0 1151 ?     00:00:00 zabbix_agentd
system_u:system_r:zabbix_agent_t:s0 1152 ?     00:00:00 zabbix_agentd
system_u:system_r:zabbix_agent_t:s0 1153 ?     00:00:00 zabbix_agentd
system_u:system_r:zabbix_agent_t:s0 1154 ?     02:21:46 zabbix_agentd
```

As you can see zabbix is enabled and hence **selinux enforcing mode** is preventing zabbix client / server to operate and communicate normally, hence to make it work we need to **change zabbix agent and zabbix proxy to permissive mode.**

## Setting selinux for zabbix agent and zabbix proxy to permissive mode

If you don't have them installed you might neet the **setroubleshoot setools, setools-console** and **policycoreutils-python** rpms packs (if you have them installed skip this step).

```
[root@centos ~ ]# yum install setroubleshoot.x86_64 setools.x86_64 setools-console.x86_64 policycoreutils-python.x86_64
```

Then to add zabbix service to become permissive either run

```
[root@centos ~ ]# semanage permissive --add zabbix_t
```

```
[root@centos ~ ]# semanage permissive -a zabbix_agent_t
```

In some cases you might also need in case if just adding the permissive for **zabbix_agent_t** try also :

**setsebool -P zabbix_can_network=1**

Next try to ***start zabbox-proxy and zabbix-agent systemd services***

```
[root@centos ~ ]# systemctl start zabbix-proxy.service
...
```

```
[root@centos ~ ]# systemctl start zabbix-agent.service
...
```

Hopefully all should report fine with the service checking the status should show you something like:

```
[root@centos ~ ]# systemctl status zabbix-agent
? zabbix-agent.service - Zabbix Agent
  Loaded: loaded (/usr/lib/systemd/system/zabbix-agent.service; enabled; vendor preset: disabled)
  Active: active (running) since Thu 2021-06-24 07:47:42 CEST; 1 weeks 5 days ago
Main PID: 1149 (zabbix_agentd)
  CGroup: /system.slice/zabbix-agent.service
          ??1149 /usr/sbin/zabbix_agentd -c /etc/zabbix/zabbix_agentd.conf
          ??1150 /usr/sbin/zabbix_agentd: collector [idle 1 sec]
          ??1151 /usr/sbin/zabbix_agentd: listener #1 [waiting for connection]
          ??1152 /usr/sbin/zabbix_agentd: listener #2 [waiting for connection]
          ??1153 /usr/sbin/zabbix_agentd: listener #3 [waiting for connection]
          ??1154 /usr/sbin/zabbix_agentd: active checks #1 [idle 1 sec]
```

**Check the Logs finally to make sure all is fine with zabbix being allowed by selinux.**

```
[root@centos ~ ]# grep zabbix_proxy /var/log/audit/audit.log
...
```

```
[root@centos ~ ]# tail -n 100 /var/log/zabbix/zabbix_agentd.log
```

**If no errors are in and you receive and you can visualize the usual zabbix collected CPU / Memory / Disk etc. values you're good, Enjoy ! :)**