

# Troubleshooting SELinux

## Problem

SELinux in Enforcing mode causes FreeRADIUS to fail when enabling the ABFAB server

## Solution

Switch off SELinux temporarily and try to restart the server. If that succeeds, use the following SELinux policy as a starting point:

### CentOS 6

```
#===== radiusd_t =====
module radiusd_moonshot 1.1;
require {
    type security_t;
    type radiusd_t;
    type radsec_port_t;
    type pam_var_console_t;
    type var_lib_t;
    type default_context_t;
    type system_dbusd_var_lib_t;
    type port_t;
    type dbusd_exec_t;
    type initrc_t;
    type default_context_t;
    class process ptrace;
    class tcp_socket { name_bind name_connect };
    class netlink_selinux_socket { bind create };
    class file { execute read execute_no_trans write getattr open };
    class process execmem;
    class capability sys_ptrace;
    class security compute_av;
    class dir search;
}
#===== radiusd_t =====
allow radiusd_t dbusd_exec_t:file { read execute open execute_no_trans };
allow radiusd_t default_context_t:file { read getattr open };
allow radiusd_t pam_var_console_t:dir search;
allow radiusd_t port_t:tcp_socket name_connect;
allow radiusd_t radsec_port_t:tcp_socket { name_bind name_connect };
allow radiusd_t security_t:security compute_av;
allow radiusd_t self:capability sys_ptrace;
allow radiusd_t self:netlink_selinux_socket { bind create };
allow radiusd_t self:process { ptrace execmem };
allow radiusd_t system_dbusd_var_lib_t:dir search;
allow radiusd_t system_dbusd_var_lib_t:file { read getattr open };
allow radiusd_t var_lib_t:file { read write getattr open };
```

Then compile and install this policy with the following commands:

```
# checkmodule -M -m -o radiusd_moonshot.mod radiusd_moonshot.te
# semodule_package -o radiusd_moonshot.pp -m radiusd_moonshot.mod
# semodule -i radiusd_moonshot.pp
```

Additionally, you have to change the following line in the `/etc/init.d/radiusd` file to add the highlighted portion to ensure it works:

```
daemon --pidfile $pidfile runcon unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023 $exec -d $config_dir
```

This line will eventually no longer be necessary.

## Related articles

## Content by label



There is no content with the specified labels

