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Debugging for FreeRADIUS

Enabling debug mode requires restarting RADIUS.

Enabling debug mode

1. Enable the FreeRADIUS control-socket:

```
ln -s /etc/raddb/sites-available/control-socket /etc/raddb/sites-enabled/
```

This module allows the RAdmin administration tool to work.

1. Configure RAdmin write permissions in /etc/raddb/sites-available/control-socket:

```
mode = rw
```

Possible values:

- ro = read-only access (default)
- rw = read and write access

1. Verify that the module is added to the main config:

```
ls -la /etc/raddb/sites-enabled/
```

1. Restart radiusd:

```
systemctl restart radiusd
```



Restarting **does not terminate subscriber sessions** (neither auth nor acct), but during the restart Proxy **packet loss may occur from SSG to RADIUS**, for example several Interim-Update or Access-Request packets. They will be resent after the restart.

Working with RAdmin

1. Open RAdmin:

```
radmin
```

1. Logging is written to the directory defined in /etc/raddb/radiusd.conf, by default it is radius.log
2. Enable debug mode

```
debug level 4
```

The logging verbosity can be set from 0 (disable logging) to 4 (debug mode, similar to `radiusd -X`).



Important! Even with logging level 1, debug mode generates a large number of logs, so it is not recommended to keep logging enabled for a long time to avoid filling system storage.

1. Select a file for writing logs:

```
debug file [filename]
```



Commands must be entered sequentially; they cannot be used simultaneously as in: `debug level 3 debug file [filename]`

1. If an error occurs after restarting `radiusd` or when attempting to connect to RAdmin — check whether the socket `/var/run/radiusd/radiusd.sock` exists and what permissions are assigned to it.

If there are no access permissions (default is `radiusd`) — change the `gid` and `uid` parameters to "root" in `/etc/raddb/sites-available/control-socket`.

- `uid` — the user name allowed to connect to the control socket.
- `gid` — the group name allowed to connect to the control socket.