Supermicro Fan Problems

If you are running Noctua cooling fans in your PC and the PC is cycling fans up and down, then it's probably because the motherboard thinks a fan has failed and is ramping them all up to compensate.

This is happening because Noctua fans run a lower RPM than other fan models.

If you are trying to fix this fan problem on an esxi host, you will need to install IPMITool from here:

Installing IPMITool on ESXI

This tutorial taken from here: Supermicro motherboard loud fans

To fix this, requires editing the fan config via IPMITOOL.

Open a command line on your server, and download or install ipmitool:

```
apt-get install ipmitool
```

List the fans of the motherboard with:

```
ipmitool -I lan -U ADMIN -H 10.100.10.200 sensor
```

If you're running on the actual host, you can just use this:

```
ipmitool sensor
```

The listing will include all the relevant fan Ids the motherboard recognizes.

You will need to update the lower speed limits of each fan, with the following:

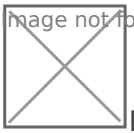
```
ipmitool -I lan -U ADMIN -H 10.100.10.200 sensor thresh FAN1 lower 150 225 300
```

Or, from the local host:

```
ipmitool sensor thresh FAN1 lower 150 225 300
```

```
root@esx243:~/fan-control# ipmitool sensor thresh FANA lower 150 225 300
Locating sensor record 'FANA'...
Setting sensor "FANA" Lower Non-Recoverable threshold to 150.000
Setting sensor "FANA" Lower Critical threshold to 225.000
Setting sensor "FANA" Lower Non-Critical threshold to 300.000
root@esx243:~/fan-control#
```

Image not found or type unknown

Repeat the above command for each fan Id that shows up in the sensor listing.

The above command has these switches:

ADMIN – enter username of your IPMI interface

10.1550.20.200 – enter IP address of your IPMI interface

FAN1 – FAN for which you want to set values

150 – lower non-recoverable value

225 – lower critical value

300 – lower non-critical value

Usually, the change is immediate.
But if not, shutdown the host, disconnect the power cord for a few minutes.
Then, reboot. And, it should be corrected.

Revision #1
Created 10 April 2025 02:34:34 by glwhite
Updated 10 April 2025 02:38:51 by glwhite