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I would be very happy, if somebody is helped from my article(s). Wish to share something useful as amal jariah (benefaction) to the world ツ

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Fedora - Setting power management when low battery

Peace be upon you, I have issue with Fedora power management when my `DELL Inspiron 14R 7420 SE` battery are low, my laptop just shutdown and I lose what I currently working on. It bad when there is no autosave while editting some document or waiting f***ing Android Studio doing indexing or compiling.

Some how our spining disk also can get corrupt if it often happen like this. To be honest, I normally sleep at late night and mostly with my lappy on my desk (bad habit pun intended huh >_<)

We actually can control what action to take when you battery / ups are reach certain percentage or time left. There is three option :

- PowerOff
- Hibernate
- HybridSleep

I prefer to use `hibernate` so if you like please read and follow my note how to hibernate Fedora but it recommended always do hybrid-sleep instead of suspend or hibernation.

You need to open and edit `/etc/UPower/UPower.conf` file. Here example of mine:

```
1    # Only the system vendor should modify this file, ordinary users
2    # should not have to change anything.
3
4    [UPower]
5
6    # Enable the Watts Up Pro device.
7    #
8    # The Watts Up Pro contains a generic FTDI USB device without a specific
9    # vendor and product ID. When we probe for WUP devices, we can cause
10   # the user to get a perplexing "Device or resource busy" error when
11   # attempting to use their non-WUP device.
12   #
13   # The generic FTDI device is known to also be used on:
14   #
15   # - Sparkfun FT232 breakout board
16   # - Parallax Propeller
17   #
18   # default=false
19   EnableWattsUpPro=false
20
21   # Don't poll the kernel for battery level changes.
22   #
23   # Some hardware will send us battery level changes through
24   # events, rather than us having to poll for it. This option
25   # allows disabling polling for hardware that sends out events.
26   #
27   # default=false
28   NoPollBatteries=false
29
30   # Do we ignore the lid state
```

```
31   #
32   # Some laptops are broken. The lid state is either inverted, or stuck
33   # on or off. We can't do much to fix these problems, but this is a way
34   # for users to make the laptop panel vanish, a state that might be used
35   # by a couple of user-space daemons. On Linux systems, see also
36   # logind.conf(5).
37   #
38   # default=false
39   IgnoreLid=false
40
41   # Policy for warnings and action based on battery levels
42   #
43   # Whether battery percentage based policy should be used. The default
44   # is to use the time left, change to true to use the percentage, which
45   # should work around broken firmwares. It is also more reliable than
46   # the time left (frantically saving all your files is going to use more
47   # battery than letting it rest for example).
48   # default=true
49   UsePercentageForPolicy=true
50
51   # When UsePercentageForPolicy is true, the levels at which UPower will
52   # consider the battery low, critical, or take action for the critical
53   # battery level.
54   #
55   # This will also be used for batteries which don't have time information
56   # such as that of peripherals.
57   #
58   # If any value is invalid, or not in descending order, the defaults
59   # will be used.
60   #
61   # Defaults:
62   # PercentageLow=10
63   # PercentageCritical=3
64   # PercentageAction=2
65   PercentageLow=20
66   PercentageCritical=15
67   PercentageAction=10
68
69   # When UsePercentageForPolicy is false, the time remaining at which UPower
70   # will consider the battery low, critical, or take action for the critical
71   # battery level.
72   #
73   # If any value is invalid, or not in descending order, the defaults
74   # will be used.
75   #
76   # Defaults:
77   # TimeLow=1200
78   # TimeCritical=300
79   # TimeAction=120
80   TimeLow=1200
81   TimeCritical=300
82   TimeAction=120
83
84   # The action to take when "TimeAction" or "PercentageAction" above has been
85   # reached for the batteries (UPS or laptop batteries) supplying the computer
86   #
87   # Possible values are:
```

```
88   # PowerOff
89   # Hibernate
90   # HybridSleep
91   #
92   # If HybridSleep isn't available, Hibernate will be used
93   # If Hibernate isn't available, PowerOff will be used
94   CriticalPowerAction=HybridSleep
```

The file comes with comment, so just read and you should understand what to modified. Have a look on `UsePercentageForPolicy=true`, you can set it as `false` if you prefer to depend on battery time remaining before deplete istead of battery percentage.

Then take look on `Percentage` (if you use `UsePercentageForPolicy=true`) or `Time` (if you use `UsePercentageForPolicy=false`) set the value according you need.

Lastly check `CriticalPowerAction`, here you should choose `PowerOff`, `Hibernate` or `HybridSleep`.

After you done with configuration, save the file (as root) and restart and check status of `upower` service

```
$ sudo systemctl restart upower.service
$ sudo systemctl status upower.service
```

Now you power management should work as you want.
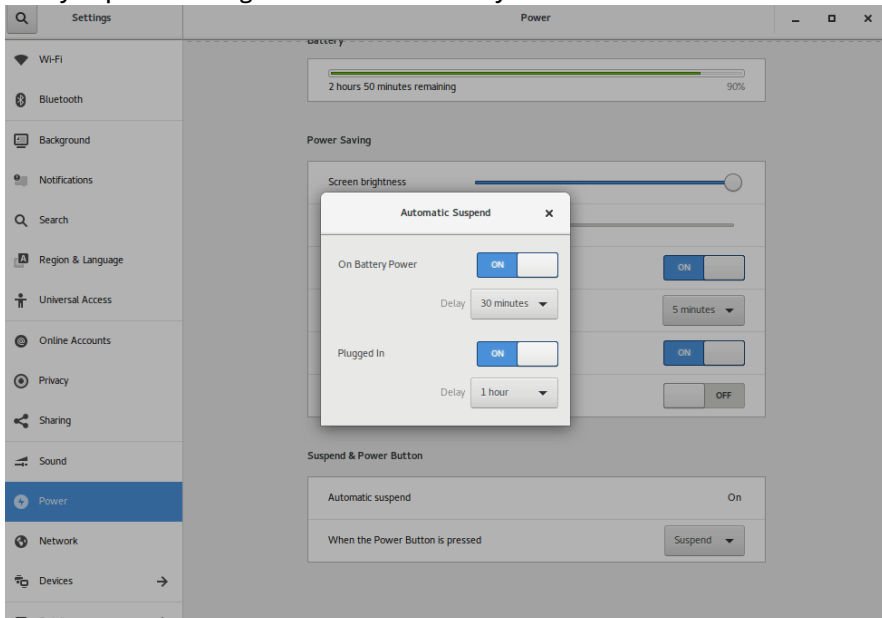
You also should actived the automatic suspend to save you battery if you left the computer too long.

That all, thanks!

⊖ Robbi Nespu | #Electrical, Fedora, Linux

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