

University of *Ljubljana*



University of Ljubljana
Faculty of
computer and
information science



www.fri.uni-lj.si/eneraptor
eneraptor@gmail.com

We look forward to hearing from you!

- The Eneraptor Team



ENERAPTOR

Making your data center *greener* on a *low budget*



Did you know, that with our inexpensive solution you can save up to 30% of energy?



Mr. Novak works at this small data center. He is also responsible for keeping this data center's electricity bill as low as possible.

Up until now this air conditioner worked 24 hours a day, every day.

He recently learned that thinking greener can also make the bills lower. He immediately convinced his boss to invest little money and buy Eneraptor.

He installed a small card and connected various devices to it. The installation was easy - he only had to download some drivers and device managers from the Internet and install a web application on one of the servers.

Now, when the room's temperature is too high, the Eneraptor's DMS compares the indoor and outdoor temperatures. If the temperature outdoor is smaller, it opens some windows, to cool the room.

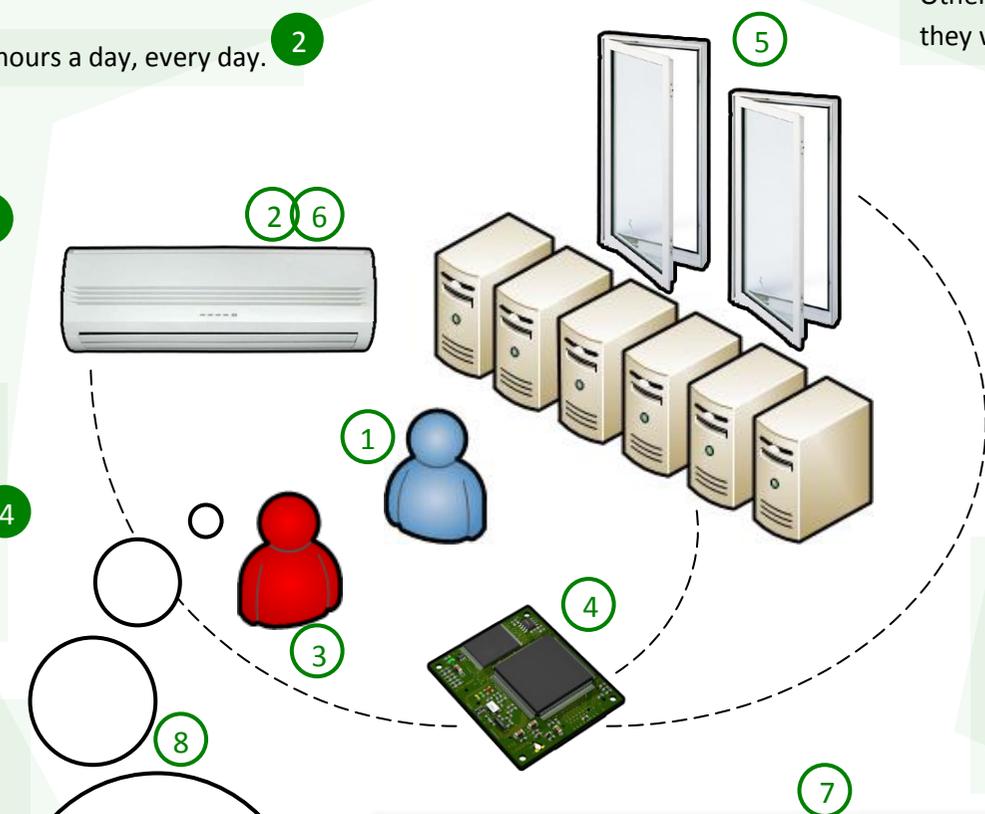
While lowering the costs you also help protecting our planet. In recent years power it has become evident, that we all have to do our part in minimizing our consumption. We concentrate on power use and dissipation in data centres, where we feel more could be achieved. Minimization of the power needed by the servers themselves is already a known problem within the scientific community, we have focused our efforts on the redundant cooling systems.

Only when there are no other ways to cool the room, the air conditioners are turned on. Otherwise they are turned off, sparing the energy they would consume normally.

Then Mr. Novak wants to do some tweaking. He simply connects to the Eneraptor's HCI using a common browser. Now he can look at measurements, statistics and configure how the whole system works. He also has the ability to trigger some actions manually.

The electricity costs drop considerably, making his boss so happy, he earns a big bonus. He goes on a trip to Hawaii. Even from there, he is able to monitor and configure the whole system through a simple browser.

Soon the company grows and more cooling devices are needed. Once again, there is no problem: Mr. Novak adds another Eneraptor card, which he can access through the same HCI as before. Having complete control of the company from one single place.



1

2

3

4

5

5

6

7

8

7

9