

# Virtual Datacenter Test Environment

Munin is a networked resource monitoring tool that can help analyze resource trends. It is designed to be very plug and play. A default installation provides a lot of graphs with almost no work ([link](#)).

This exercise should test your abilities in solving simple DevOps task.

1. Prepare two ubuntu based docker images, where
  - a. first represents *munin-master*
  - b. second is *munin-node*

Setup monitoring of *munin-node* container in a way the *munin-master* container connects regularly to *munin-node* and receives data.

2. Implement simple [Munin plugin](#) and deploy it to your solution from point 1.

You can find inspiration in [Munin Plugin Gallery](#) and basic instructions for different programming languages are available also in [Munin guide](#). Feel free to choose language based on your preferences.

3. Prepare document where you describe which files are included (for example Dockerfile, docker-compose.yml, plugin.py) and how the complete solution should be deployed. Also describe limitations and what could be improved in the future.

*note: Feel free to send also incomplete solutions.*

*If you have issues with second container, setup munin-node in the same container as munin-master.*

*If you are interested in this position, but you do not have any experiences with docker or you stucked in some initial step, send only text document with analysis, how you would implement this exercise, and describe the issue which blocked you. Also please add few words about your motivation to apply for this concrete internship program.*