Introduction to Infrastructure as Code (IaC) – Løsningsforslag

1. What is asecurity groupin OpenStack? What do you use it for?

A security group is a set of firewall rules that applies to the port of an instance. All traffic is disallowed by default so you need to open any ports you are goingto use.

3. What isautomation fear? How can it happen?

Not trusting your automation tool, only use it partially. Can happen because you don't dare to run it automatically periodically when you don't trust it.

4. In pseudo code, write an ordered list (reflecting the sequence you would run) of openstack (or nova and neutron commands) (including all command line arguments) to set up your own router, network and Ubuntu server in SkyHiGh in such a way that you can reach it with ssh from other hosts in the NTNU-network (similar to what we have done in the lab).

POSSIBLE SOLUTION:

```
openstack keypair create KEY_NAME > KEY_NAME.pem
openstack network create net1
openstack subnet create subnet1 --network net1 --subnet-range 192.168.1XY.0/24
openstack router create router1
neutron router-gateway-set router1 ext-net
openstack router add subnet router1 subnet1
openstack server create --image NAME_OR_ID --flavor NAME_OR_ID \
--nic net-id=UUID --key-name KEY_NAME INSTANCE_NAME
openstack ip floating create ext-net
openstack ip floating add FLOATING_IP_ADDRESS INSTANCE_NAME_OR_ID
openstack security group rule create --protocol tcp --src-ip 0.0.0.0/0 \
--dst-port 22 default
```