**What is a *security group* in OpenStack? What do you use it for?**

**What is *automation fear*? How can it happen?**

**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).**

eps@xiao:~/Escritorio$ ssh sofiaxf@login.stud.ntnu.no

sofiaxf@login.stud.ntnu.no's password:

Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.4.0-81-generic x86\_64)

loginstud03:~$ . IIKG3005\_H21\_sofiaxf-openrc.sh

loginstud03:~$ openstack network create network1

loginstud03:~$ openstack subnet create subnet1 --network network1 --subnet-range 192.168.155.0/24

loginstud03:~$ openstack router create router1

loginstud03:~$ openstack router set router1 --external-gateway ntnu-internal

loginstud03:~$ openstack router add subnet router1 subnet1

loginstud03:~$ openstack server create --image d60a5c81-2657-4d21-921b-1ea29a6e8d58 --flavor m1.medium --nic net-id=8bffb054-f243-449b-9a6c-ecb1bd4640be --key-name Xiaomiredmi31 medium1

loginstud03:~$ nova get-password medium1 Xiaomiredmi31.perm

loginstud03:~$ openstack server list

loginstud03:~$ openstack floating ip create ntnu-internal

loginstud03:~$ openstack server add floating ip medium1 10.212.143.141

loginstud03:~$ openstack security group rule create --protocol icmp --remote-ip 0.0.0.0/0 default

loginstud03:~$ openstack security group rule list default

loginstud03:~$ openstack security group rule create --protocol tcp --remote-ip 0.0.0.0/0 --dst-port 80 default

loginstud03:~$ openstack security group rule create --protocol tcp --remote-ip 0.0.0.0/0 --dst-port 443 default

loginstud03:~$ openstack security group create linux

loginstud03:~$ openstack security group rule create --protocol tcp --remote-ip 0.0.0.0/0 --dst-port 22 linux

loginstud03:~$ openstack server add security group medium1 linux

loginstud03:~$ openstack security group create windows

loginstud03:~$ openstack security group rule create --protocol tcp --remote-ip 0.0.0.0/0 --dst-port 3389 windows

loginstud03:~$ openstack server add security group medium1 windows

loginstud03:~$ openstack volume create --size 1 linux\_vol

loginstud03:~$ openstack volume create --size 1 windows\_vol

loginstud03:~$ openstack server add volume medium1 linux\_vol

loginstud03:~$ openstack server add volume medium1 windows\_vol

loginstud04:~$ fdisk /dev/vdb