Virtual Machine migration from old to new cloud infrastructure

Let's consider the following points:

1. If you are an HPC-CINECA CLOUD user and you can login and access to the dashboard https://cloud.pico.cineca.it
2. If you have been enabled to use the new HPC-CINECA CLOUD resources available at https://cloud.hpc.cineca.it
3. If you want to migrate your virtual machines, images and/or volumes from the old to the new cloud infrastructure

Please read the instructions below.

- List the virtual machines, volumes and/or images you want to migrate.

  - For the **Virtual Machine (VM)**:
    - Login in the VM and:
      - Stop users services (if present)
      - Umount e xternal volume (both cinder volume and or volumes exported via NFS or FUSE)
      - Check the /etc/fstab file: if it is set the automatic mount of the external volumes, please comment such lines. Take care to not comment the mount of the root disk.
      - Shut down the VM. The VM must be shut offed during all the migration process.
    - Send an email to superc@cineca.it writing:
      - your name and email
      - the name of the project in which the VM is
      - the name of the VM
      - the ID of the VM
      - the name and the ID of cinder volumes attached (if present)
      - Hostname - floating IP association (if present)
      - NFS export of DRES CINECA or other CINECA storage (if present)
      - If in the vm there are critical services, please communicate it
    - You will be contact when the migration starts.

  - For the **Volumes**:
    - check that the volumes are not mounted in any VM
    - Send an email to superc@cineca.it writing:
      - your name and email
      - the name of the project in which the volume is
      - the name of the volume
      - the ID of the volume
    - You will be contact when the migration starts.

  - For the **Images**:
    - Send an email to superc@cineca.it writing:
      - your name and email
      - the name of the project in which the image is
      - the name of the image
      - the ID of the image
    - You will be contact when the migration starts.

- At the end of the migration, for each virtual machine, volume and image, you will receive an email with
  - the name of the object (VM, volume or image)
  - a "transfer id"
  - a "transfer key"

  - For each object, please, select the project on which such object has to be stored,
  - Click on "Project Volumes Volumes" and then click on the button "Accept Transfer" on the right of the page. Insert the "transfer id" and "transfer key" provided in the email.
  - At the end of the transfer, you will have everything listed in the "Volumes" page.

  - To restart a just transferred virtual machine in the new infrastructure, select the corresponding volume, click on "Edit" button at the right side of the page and check "Bootable". Then you can start the virtual machine from such bootable volume.
  - Network, subnet and router are not migrated from the old infrastructure, so create them. Refer to How to create an instance of virtual machine in your Project for creation instruction.
  - Security rules and security groups are not migrated from the old infrastructure, so create them.
  - After the creation of the virtual machine, associate a new floating IP.

  - If there is an hostname - floating IP association, or a NFS export to reconfigure, please reply to the email in which you asked the migration, and communicate the operation you want and the new floating IP.