How to access CINECA HPC facility.

General information concerning access to CINECA facilities can be found here:

https://wiki.u-gov.it/confluence/display/SCAIUS/Get+Started

Particularly, the steps to follow to get access to our HPC system LEONARDO are:

1. You have to first register in our UserDB (unless already registered) https://userdb.hpc.cineca.it/, click on "Create new user" and fill in the form with your personal Data.
2. You will receive by email the information needed to complete your registration.
3. Follow the instructions; click on the link in the mail, change your password. When logged into your UserDB space, follow the "HPC Access" link in the left-hand panel of your UserDB home page and follow the instructions (please fill completely also the sections called "Institution" and "Documents for HPC", uploading a digital copy of your national ID card or of your passport).

   Please remember that **your account is strictly reserved to you**. **No other person can use your username and password**. For this reason, we kindly ask you to complete your registration personally.

4. If enabled, click on "submit", otherwise inform our UserSupport team about your registration (superc@cineca.it).
5. You will get your credentials to login on LEONARDO by e-mail within 24 hours.

   CINECA is happy to announce to have increased the security on our cluster introducing a **two-factor authentication (2FA) method to access Leonardo.** The 2FA adds a further level of security to the authentication for access to services based on the Identity Provider.

   A one-time configuration on the Identity Provider, and the installation of the smallstep client and of a One-Time Password (OTP) authenticator are required.

   Shortly, before connecting to the cluster you have to request the ssh certificate to our Identity Provider (IP) via the smallstep client.

   A web page will be automatically opened on the browser and you will be asked to authenticate to our IP by inserting an OTP.

   Once the authentication has taken place, the server will issue a time-limited certificate valid for 12 hours through which you can connect to Cineca systems via SSH client (just ssh to the cluster login). After 12 hours a new certificate needs to be generated.

   Please, refer to the on-line documentation to configure the OTP and install/configure the smallstep client on your local PC: Access to the system

6. Ask your collaborators to follow the same procedure in order to get their credentials.
7. Once your collaborators have been registered on the userdb, you can add them to the project by yourself. To do this, you must follow these steps:
   a. Log on the UserDB;

b. Click on "My Projects";
c. Select the project, as soon as it is active;
d. Move to the tab "edit";
e. Once there, move to the section "collaborators" and add each collaborator by typing his surname and selecting it from the menu.
f. Click on "save" button.

Please note that, collaborators are not added "by default", i.e. if they are simply registered on the userdb.

It is your responsibility, as PI, to add them to the project.

Please contact superc@cineca.it in case you need assistance to access to the cluster.