Computing
infrastructure
for **Science**

Generating your ssh keys

Before you can access the system, we will need the public ssh keys from your laptop/desktop computer. We need to install them in our ssh gateway, to allow access to the HPC.

Mac / Linux

On a Mac or Linux system, the key is in a file ~/.ssh/id_rsa.pub . If the file does not exist, you can easily create you keys using the ssh-keygen command as below:

```
[demouser@hostx~]#  ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/demouser/.ssh/id_rsa):
Created directory '/demouser/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /demouser/.ssh/id_rsa.
Your public key has been saved in /demouser/.ssh/id_rsa.pub.
The key fingerprint is:
0F:6d:6b:8e:55:b6:6c:d8:12:62:65:6a:b3:0c:f4:vc demouser@hostx
The key's randomart image is:
+--[ RSA 2048]----+
|                 |
|     .       y   |
|    . +          |
|     - =         |
|   . =   S       |
|    B  *   @     |
|     * B         |
|      x .     .  |
|                 |
+-----------------+
```

Then if you can send us a copy of the contents, as per the example below.

```
[demouser@hostx~]#  cat ~/.ssh/id_rsa.pub
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQCpuDhOM7+J9JUOaBkWoFiKHdTF6SPixwDr12E6Vb5q8+F
GLOYXsSMvgGZk9AqqJYcPbjjQ0oimHp+H/bCMzDW1N9FkoH7tQUxpWfrM1DXH4sGdPNMxkilO5Z
mAbyiBhg4nzlrAiXOYTuqkqiXTWKXzGxEuCDarizZJ41XCWhWBQrs7AZ+3w2qeLN16/SZbol0tb
ZmIcTNUUws3I5TIS47p1fH4o6B47KjuaIplPzp1kh8aNSRB4YMJbMEsCieERrPQ/xcPTq2vaCH5
8iQ2bj3lkM04ng+3rz25kggOF4tz6vFfSBvNzcE/6MY5jjArRoiftoNrbqITFtAl3oOfjU3L
demouser@hostx
```

Please ensure you include the highlighted areas also.

Windows

On Windows you should use the PuTTY application (free).

Launch puttygen and generate the key:

We need the openssh key, shown in the red box.
Please remember to save the private part: