Connecting from Off Campus:

Since Hpc64 does not accept direct connections coming from "non Brandeis" IP addresses, if you want to connect from home or from your favorite coffee shop, you will need to follow one of the following 3 procedure:

- the easier and recommended option - especially if your computer has Windows - is to use a VPN, a tool that allows you to join the Brandeis network when you are off campus.
  
  Please follow these instructions on how to setup the VPN client on your laptop or home computer: Using the Brandeis VPN (if you have a Mac or Windows computer) or Linux VPN Access if your laptop has Linux.
  
  Once you have initiated the VPN connection, then you could simply log into hpc64 exactly as you would do when you are on campus: How to connect.

- as alternative method, you could use a two step connection: first log into one of the public LTS Secure Shell (SSH) servers, and from there open your connection to hpc64.brandeis.edu

```bash
[you@homecomputer ~]$ ssh <your_username>@starfish.unet.brandeis.edu
Welcome to a Brandeis University Shell Server!
[your_username]@starfish ~]$ ssh hpc64.brandeis.edu
Login node Compute Node
[your_username]@login-node-1-0 ~]$ 
```

- or you could tunnel your ssh connection through a gateway (for example one of the public LTS Secure Shell (SSH) servers).

```bash
[you@homecomputer ~]$ ssh -fN -L 2222:hpc64.brandeis.edu:22 <your_username>@starfish.unet.brandeis.edu
## note that here I am using port 2222 but that's totally arbitrary
[you@homecomputer ~]$ ssh -p 2222 <your_username>@localhost
Login node Compute Node
[your_username]@login-node-1-0 ~]$ 

## or, if you want to scp stuff:
[you@homecomputer ~]$ scp -P 2222 yourlocalfile <your_username>@localhost:
```

###PLEASE NOTE THAT to specify the port ssh use a lowercase p ( e.g. ssh -p 2222 ) while scp uses an uppercase P ( e.g. scp -P 2222 )