

## ## How to connect to a Jupyter notebook on a Rosetta Virtual Machine

A- From a MacOS / Linux computer

1- Get the connection data from the Rosetta web page, for example

Ssh Command for Linux

```
ssh ubuntu@vm-34-240-170-195.rosettavm.com -i private-keys-m-ff072d96-94f3-4ee3-807b-3aa15b405eff-0.pem
```

2- Download the .pem file (there is a link to it on the Rosetta page)

3- Change its permission

```
chmod 0600 *.pem
```

4- Connect to the distant virtual machine

```
ssh ubuntu@vm-34-240-170-195.rosettavm.com -i private-keys-m-ff072d96-94f3-4ee3-807b-3aa15b405eff-0.pem
```

You should get a new prompt. Make sure you are running Linux

5- type 'uname'  
it should return

Linux

6- Start a jupyter notebook

```
jupyter notebook --no-browser --port=8887
```

### NOTES:

- o The "--no-browser" means jupyter will not attempt to start a Web navigator on the distant machine, which would be useless (we can't access it)

- o The "--port=8887" is a network number, the number is arbitrary > 1024

- o The jupyter server will give you a password, like this:

```
http://localhost:8887/?  
token=5a477b6d5944f163a314aa488220787ff7c72c298181eab0
```

7- On a \*new terminal\* window or tab, connect again performing this time a "port redirection"

Type:

```
ssh ubuntu@vm-34-240-170-195.rosettavm.com -i \ private-keys-m-ff072d96-94f3-4ee3-807b-3aa15b405eff-0.pem \  
-N -L localhost:8888:localhost:8887
```

Note that you need to substitute your own VM name and .pem file

NOTES:

- o -N means do not start a new shell (prompt)
- o -L localhost:8888:localhost:8887 redirects the distant 8887 port (given above) to the local 8888 port. Both numbers are arbitrary > 1024

8- Use any local navigator (Google Chrome, Explorer, etc)

connect to

localhost:8888

where 8888 is the number given above

9- Copy-paste the password from the connection line

```
http://localhost:8887/?  
token=5a477b6d5944f163a314aa488220787ff7c72c298181eab0
```

here the password is the long string starting with 5a...eab0

B- For Windows computer, the instructions are nearly the same, simply replace the "ssh" command with the "putty.exe" one

example, step 7 becomes:

```
putty.exe vm-34-240-170-195.rosettavm.com -P 22 -l ubuntu \  
-i private-keys-m-ff072d96-94f3-4ee3-807b-3aa15b405eff-0.ppk -N -L  
localhost:8888:localhost:8887
```

The last two options (-N and -L) are the same as for the MacOS/Linux instructions.

To perform a copy from a Linux putty terminal, just highlight what you want to copy with the mouse, it is automatically copied. A right click performs a paste.