

How to make the graphlab canvas work when running jupyter on EC2 instance

```
In [5]: # .show() visualizes any data structure in GraphLab Create  
sf.show()
```

Canvas is accessible via web browser at the URL: `http://localhost:52766/index.html`
Opening Canvas in default web browser.



This site can't be reached

localhost refused to connect.

ERR_CONNECTION_REFUSED

[Details](#)

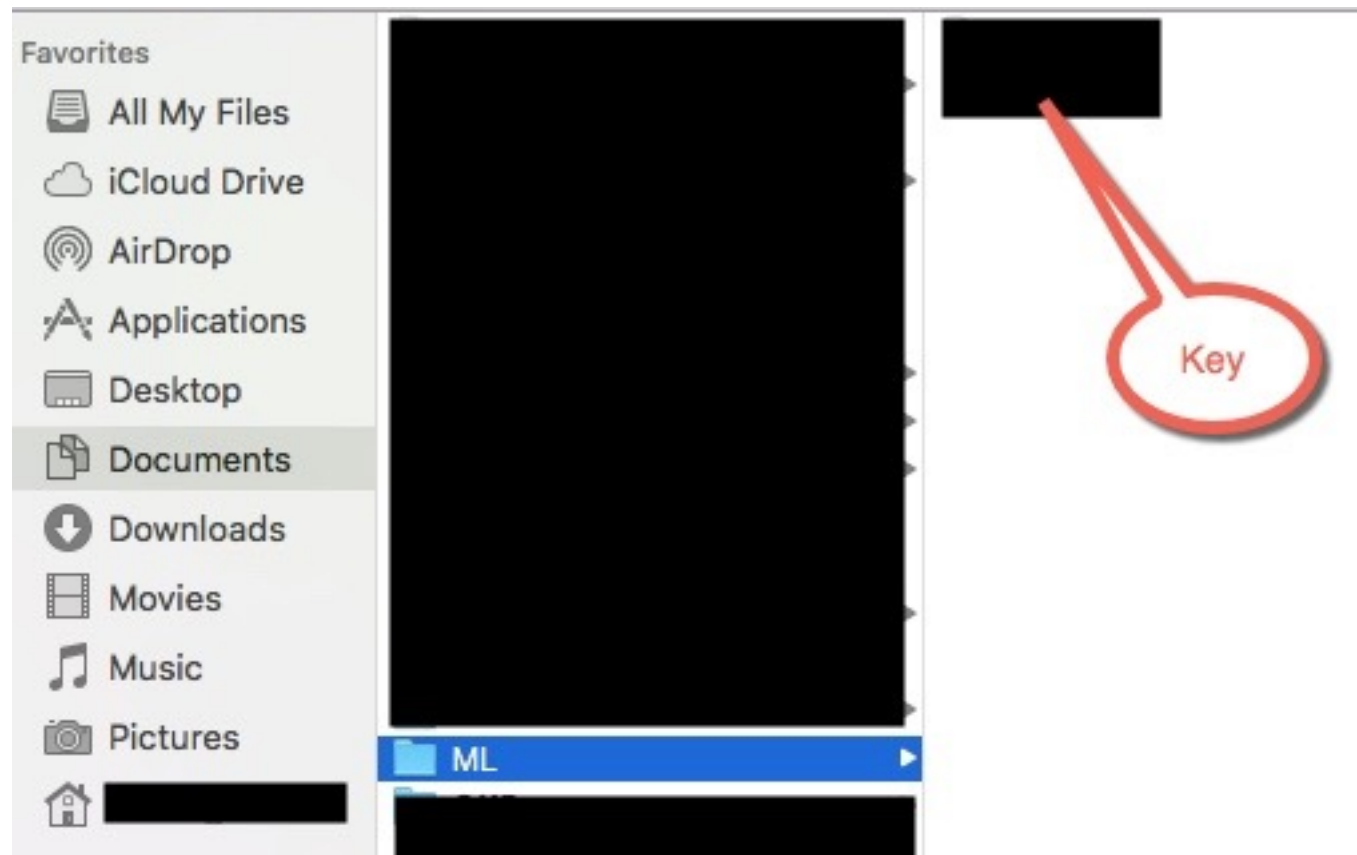
Setting up your EC2 instance correctly

The screenshot shows the AWS Management Console for the us-west-2 region. The left sidebar contains navigation links for Reports, Limits, INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The main content area displays a list of EC2 instances. Two instances are visible: 't-2a' (terminated) and 't-2b' (running). Below the list, the 'Description' tab for instance 't-2b' is selected, showing details like Instance ID, Instance state, Instance type, Private DNS, Private IPs, Secondary private IPs, and VPC ID. Three red callout boxes provide instructions:

- Callout 1:** "When setting up your instance, ensure you create/ select a key pair" (points to the 'Key Name' column header).
- Callout 2:** "You will need this when creating a tunnel" (points to the 'Public IP' and 'Elastic IP' fields in the instance details).
- Callout 3:** "Creating an elastic IP ensures your IP does not change every time you restart your instance" (points to the 'Elastic IP' field).

The instance details for 't-2b' show the following fields:

- Instance ID
- Instance state
- Instance type
- Private DNS
- Private IPs
- Secondary private IPs
- VPC ID
- Public DNS
- Public IP
- Elastic IP
- Availability zone
- Security groups
- Scheduled events
- AMI ID




In jupyter notebook on EC2 instance

```
In [1]: import graphlab  
graphlab.product_key.set_product_key( [REDACTED] )
```

```
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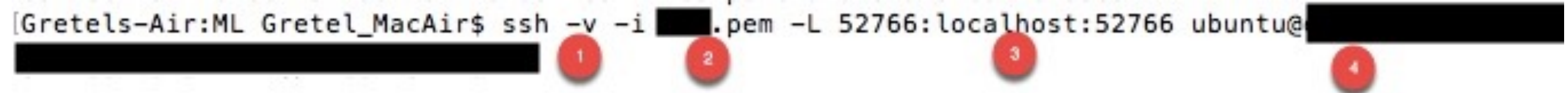
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You need this
port number of
the tunnel

In Terminal

```
[Gretels-Air:ML Gretel_MacAir$ ssh -v -i [REDACTED].pem -L 52766:localhost:52766 ubuntu@[REDACTED]
```

A terminal window showing an SSH command. The command is: ssh -v -i [REDACTED].pem -L 52766:localhost:52766 ubuntu@[REDACTED]. There are four red circles with numbers 1 through 4 pointing to specific parts of the command: 1 points to -v, 2 points to -i, 3 points to the port mapping -L 52766:localhost:52766, and 4 points to the host part of the destination [REDACTED].

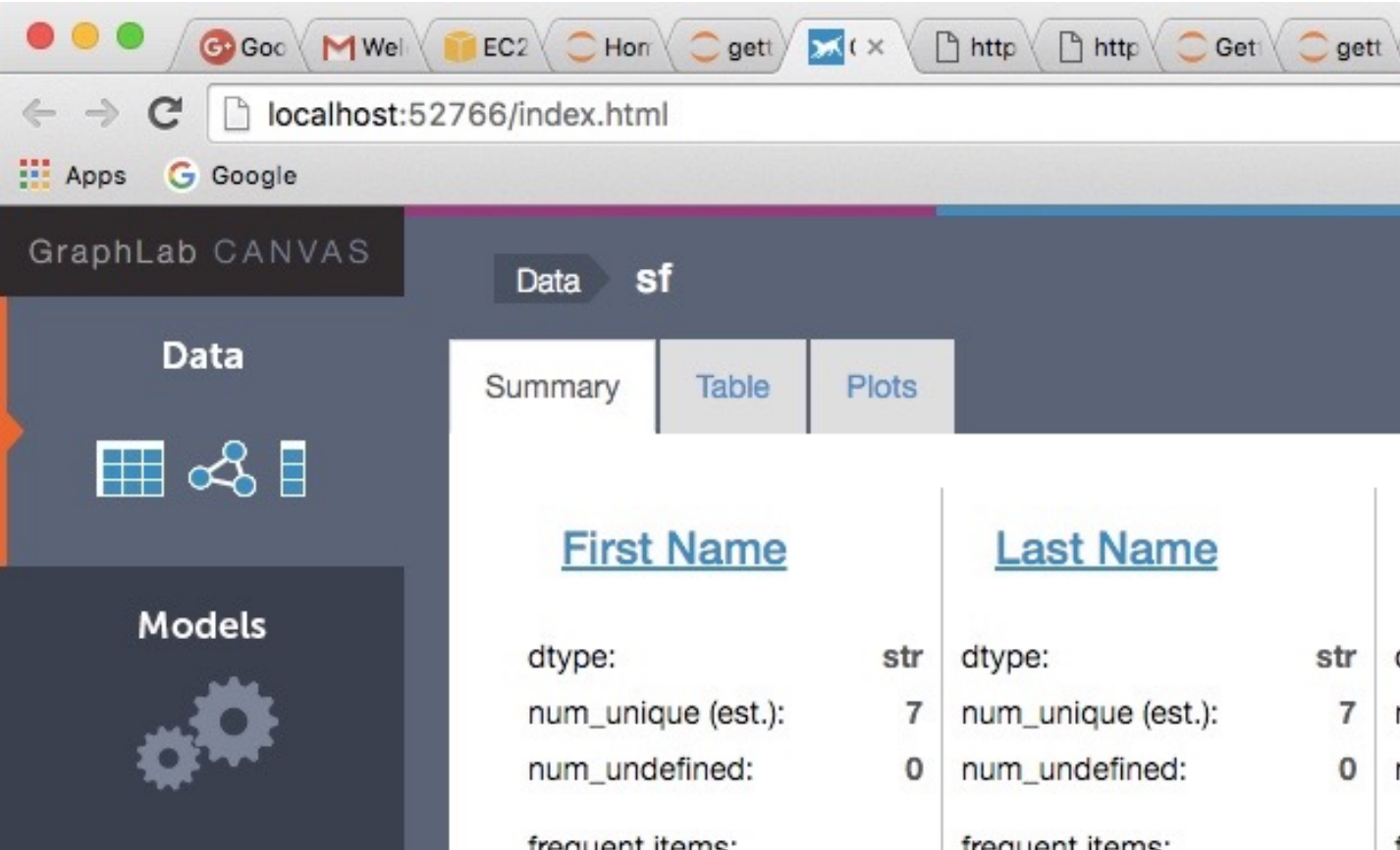
- 1.-v is not required but it will give you all the details in case something goes wrong
- 2.-i the name of the key
- 3.use the port number obtained above in yupyter
- 4.use Public DNS from your EC2 instance details

Result

```
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Now it does
work



The screenshot shows a web browser window with the address bar displaying `localhost:52766/index.html`. The browser's tab bar shows several tabs, including 'Goc', 'Wel', 'EC2', 'Hor', 'gett', and 'http'. The GraphLab CANVAS interface is visible, with a sidebar on the left containing 'Data' and 'Models' sections. The 'Data' section is active, showing a table of data for the variable 'sf'. The table has two columns: 'First Name' and 'Last Name'. The 'Summary' tab is selected, displaying statistics for both columns.

First Name		Last Name	
dtype:	str	dtype:	str
num_unique (est.):	7	num_unique (est.):	7
num_undefined:	0	num_undefined:	0
frequent items:		frequent items:	