CSE 383
Module 11
OpenStack

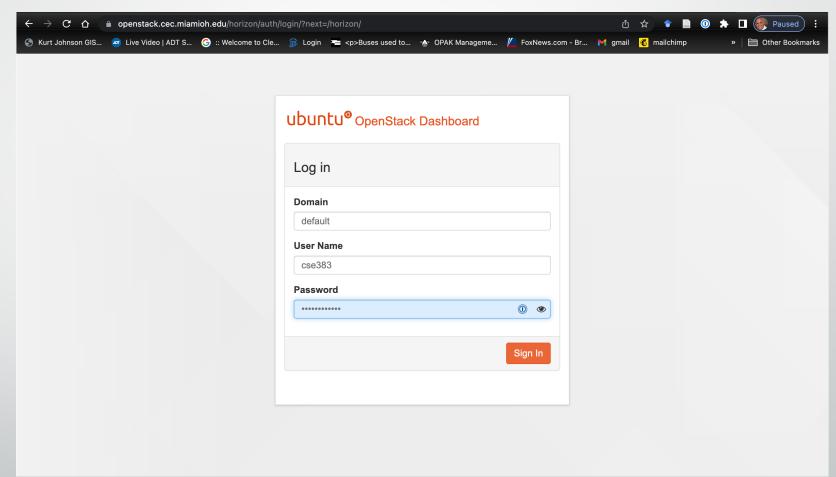
Login

https://openstack.cec.miamioh.edu/

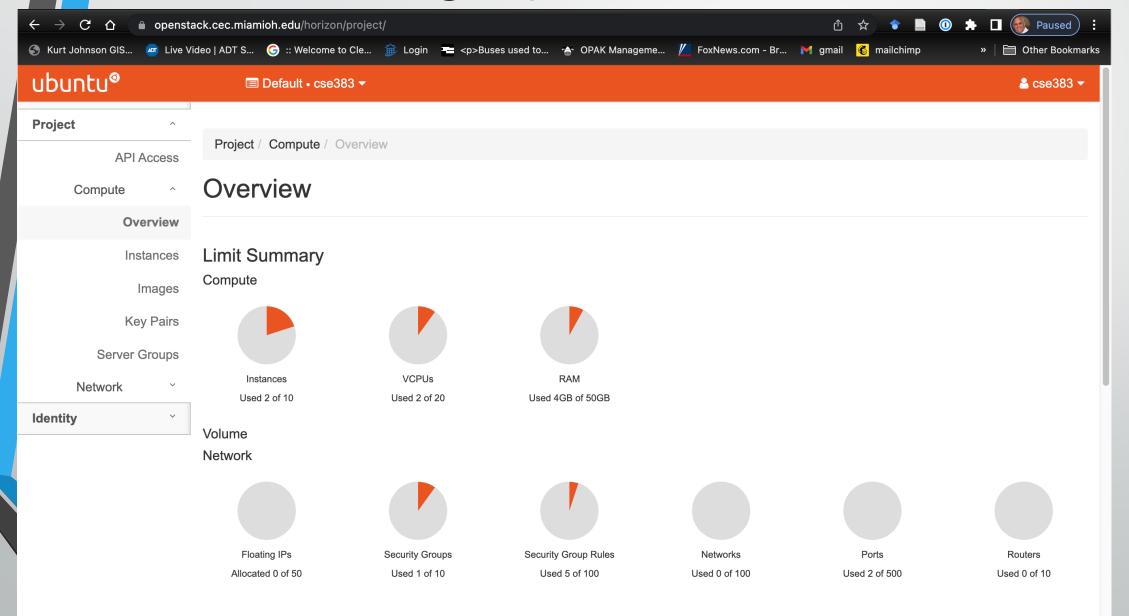
Domain: default

User Name: cse383

Password: (as given)

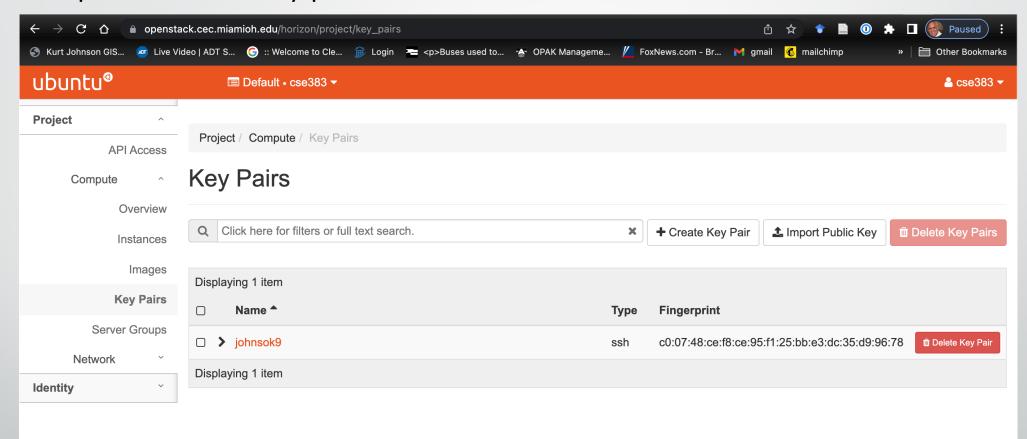


Brings up Dashboard



Set up "Key Pairs"

Under Compute – Select Key pairs



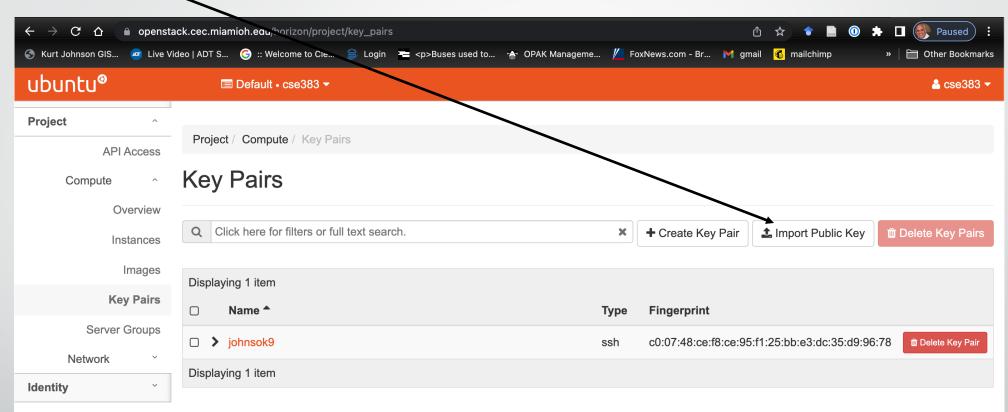
Login to Ceclinux to prepare Keypair

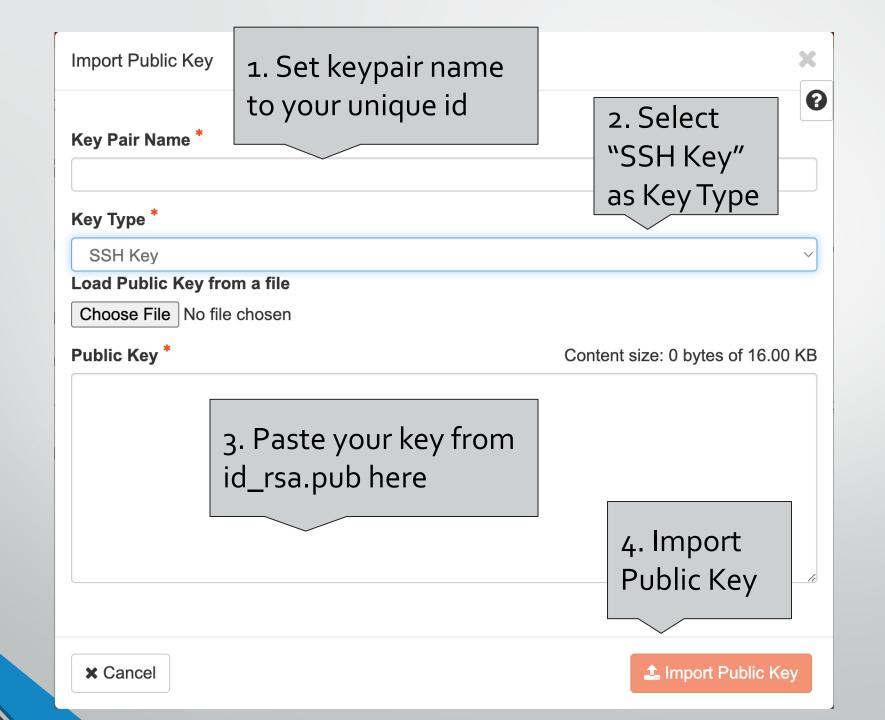
- Log into ceclinuxo1
- Type: cat ~/.ssh/id_rsa.pub
- (do NOT try to use id_ed25519, our git key)
- 4. If no file found, then create it by
 - ssh-keygen –t rsa (hit enter at all prompts without entering any response to get default settings)
 - 2. When complete retry step 2
- 5. Copy the entire output of step 2 (my key is shown below as an example) ssh-rsa

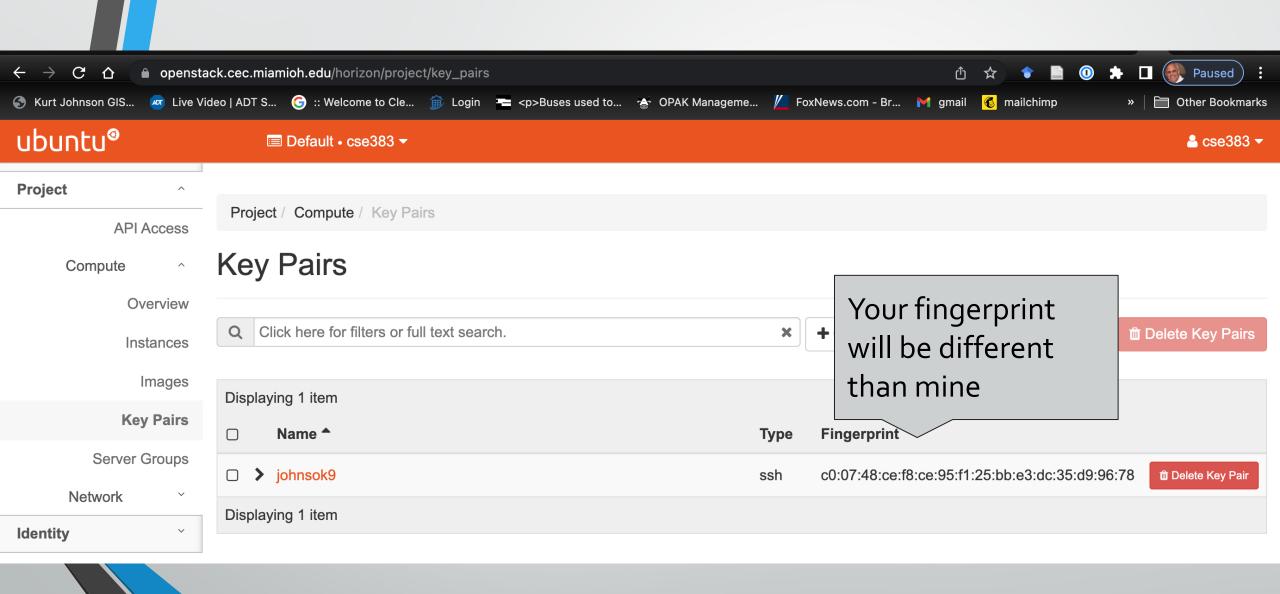
AAAAB3NzaC1yc2EAAAADAQABAAABAQCzlIVC//VYTzb4JXhuwF6eUNig4d5 teJNl4ekf1kWY8LG7EIonDemhvtgW+guuhOh/T+2EWpuo9ssflcBmUXcoVzdVq bvdo6QCD1ePWKb4pbI9N43GxfK63ZFJ9EJJcuGmY77BlTjszXZWKiuNehnKm3Z6aYuZMiqJqXPM+BEs8oxGUa/Ooax7+VcwH5YsUrOgkGNL/gRvzN2s78Usqn mrq1FjWxrRNbf5vmmPatWfTEDJbo1JLs1nUZSZcP7UOd3jYL3DpqYrBitZ3xBZg1+eAPqFfluAP5pEAS+6YiW/mKTdWupk61BZoA89lkaASBTptVNm7g1NdG2Gl7aVnYZx johnsok9@ceclnxo1

Import Keypair (on OpenStack console)

Import Public Key

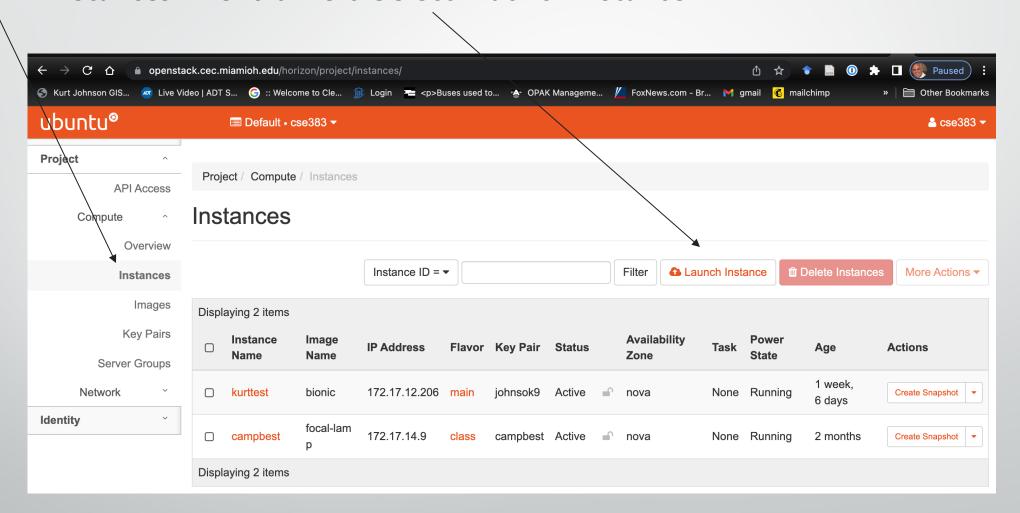




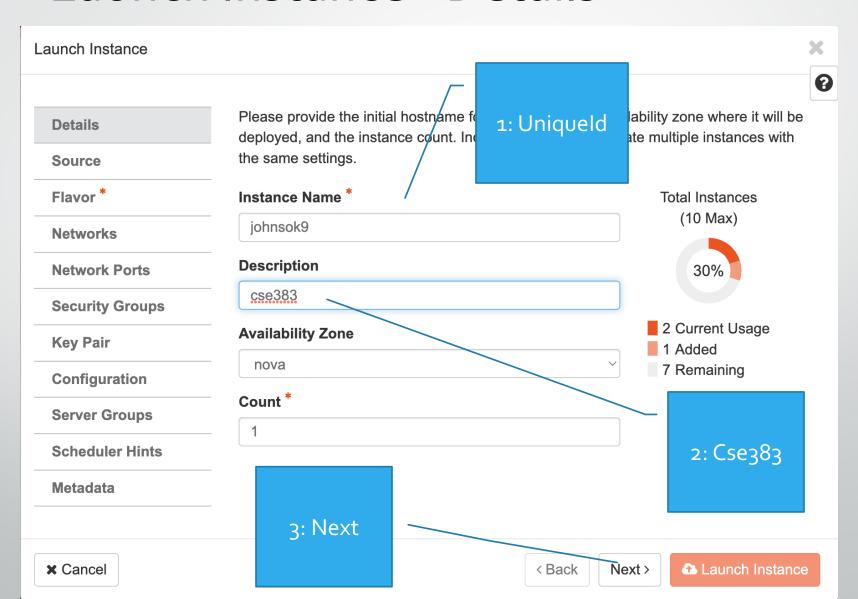


Launch Instance

From "Instances" menu on left. Select "Launch Instance"

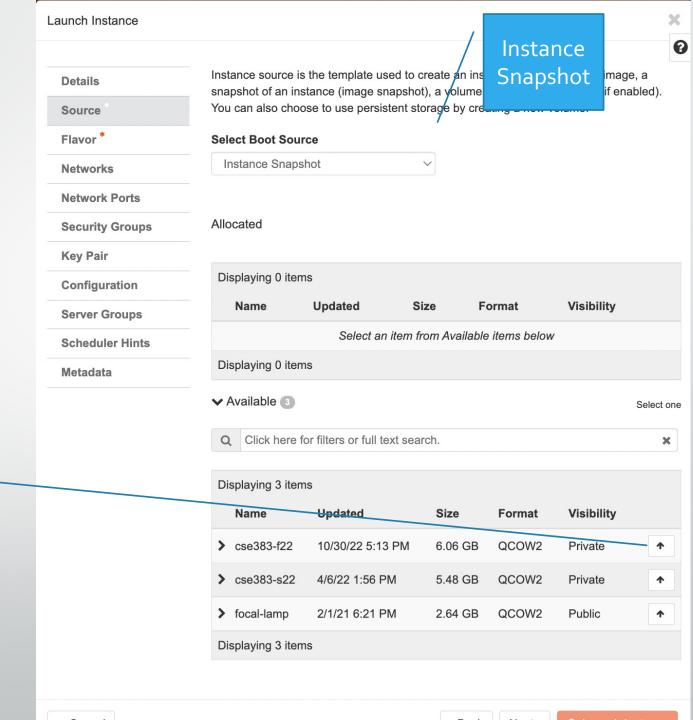


Launch Instance - Details

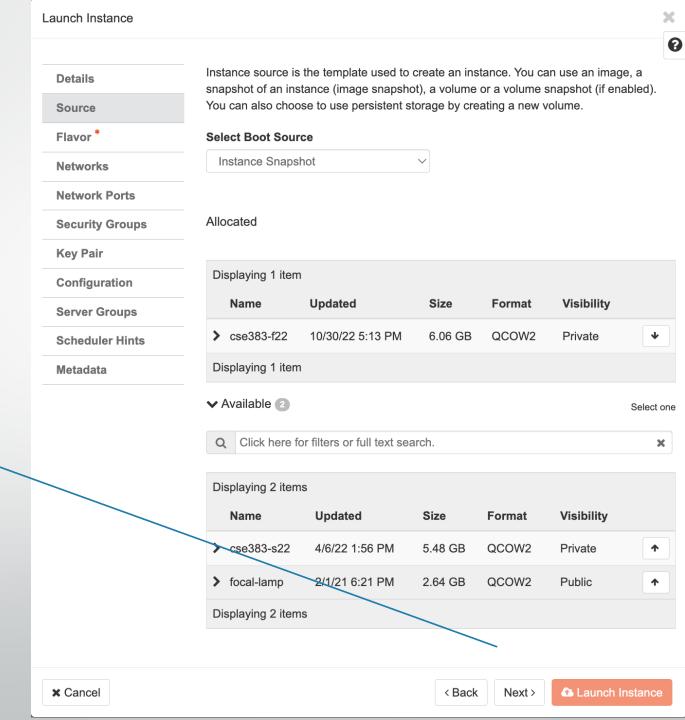


Select Source (1)

Press UP To Select

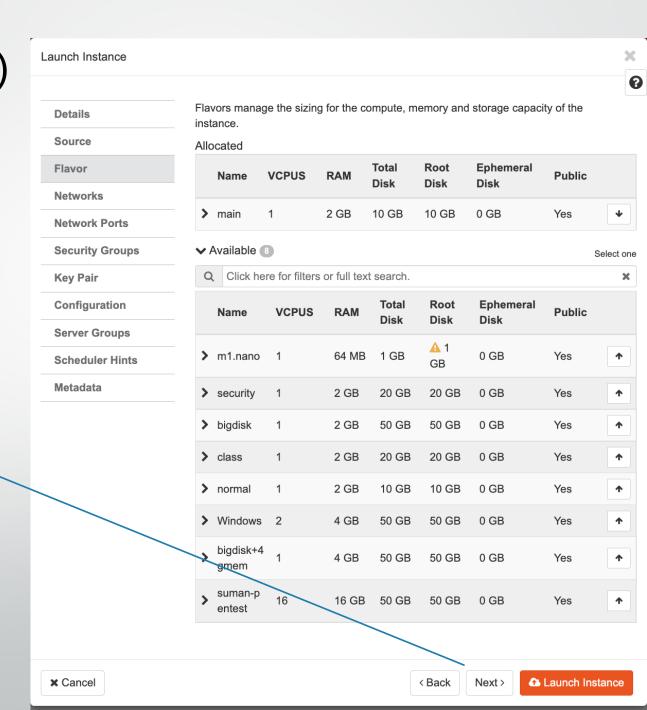


Select Source (2)

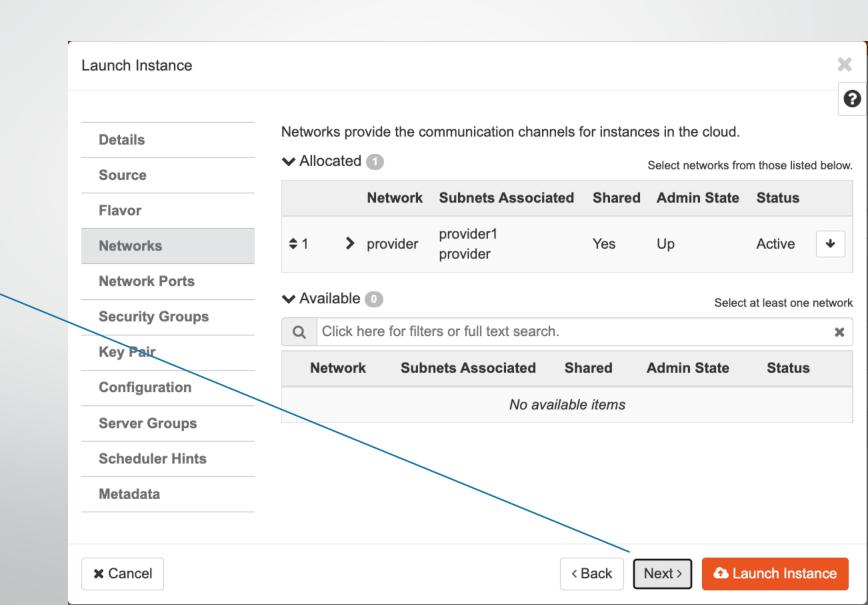


Select Flavor (instance type)

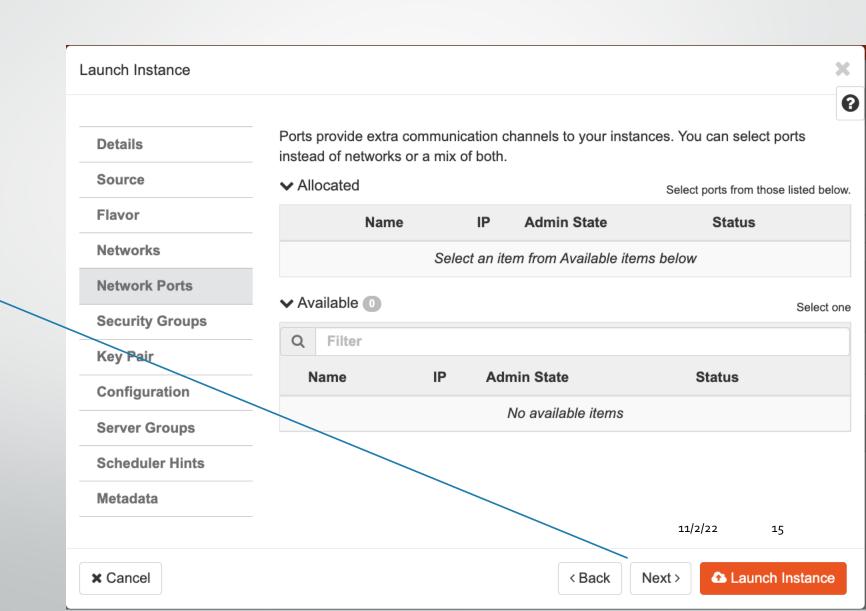
Press Up arrow next to Main – so that it moves from Available to Allocated



Networks

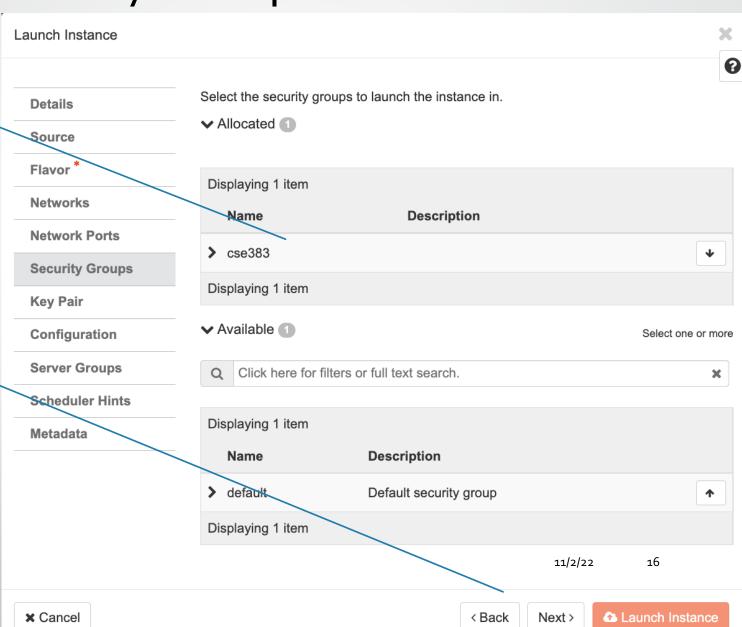


Network Ports



Security Groups

Make sure cse383
Security group is
selected – and
default is un-selected
(Available)

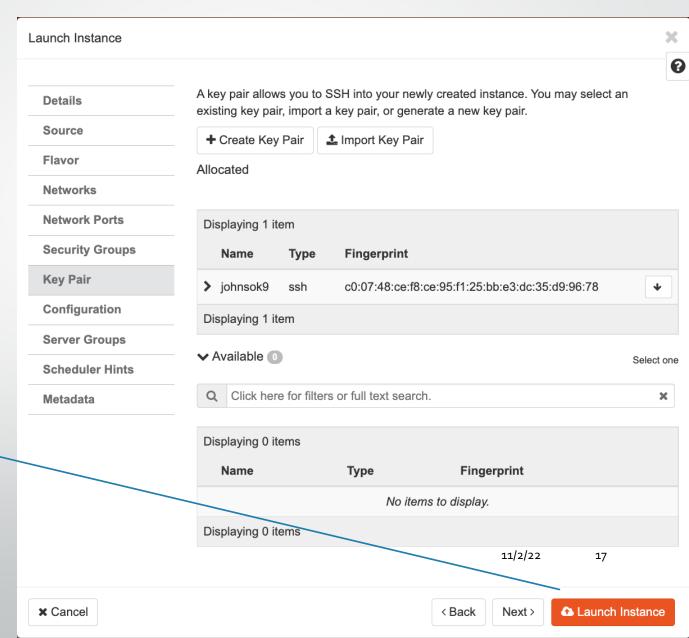


Press Up arrow next to your Unique ID (if it is not available – cancel – and repeat the key import process) – so that it moves from Available to Allocated.

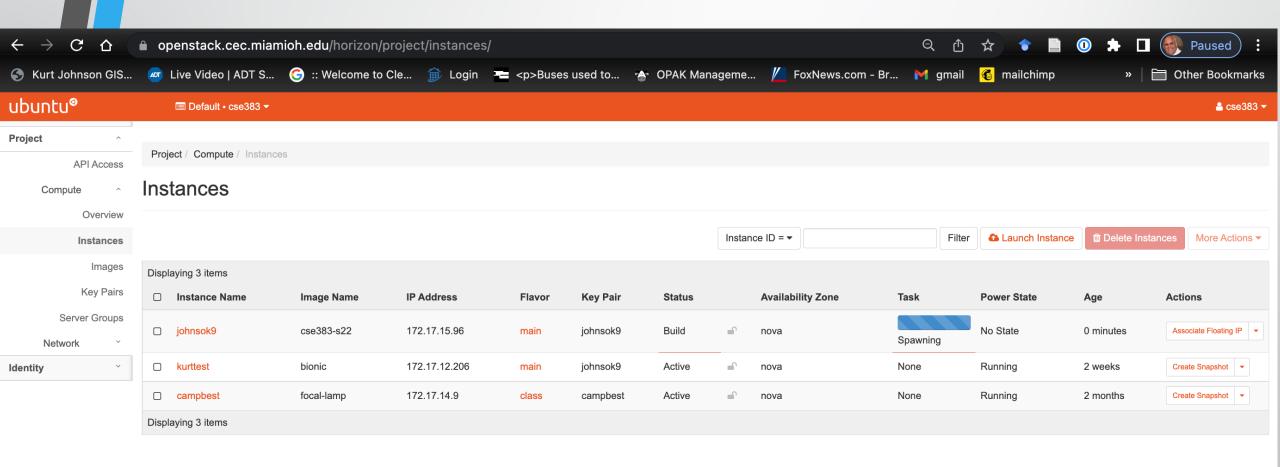
This example shows my key pair selected (use yours – not mine)

Select Launch Instance

Key Pair

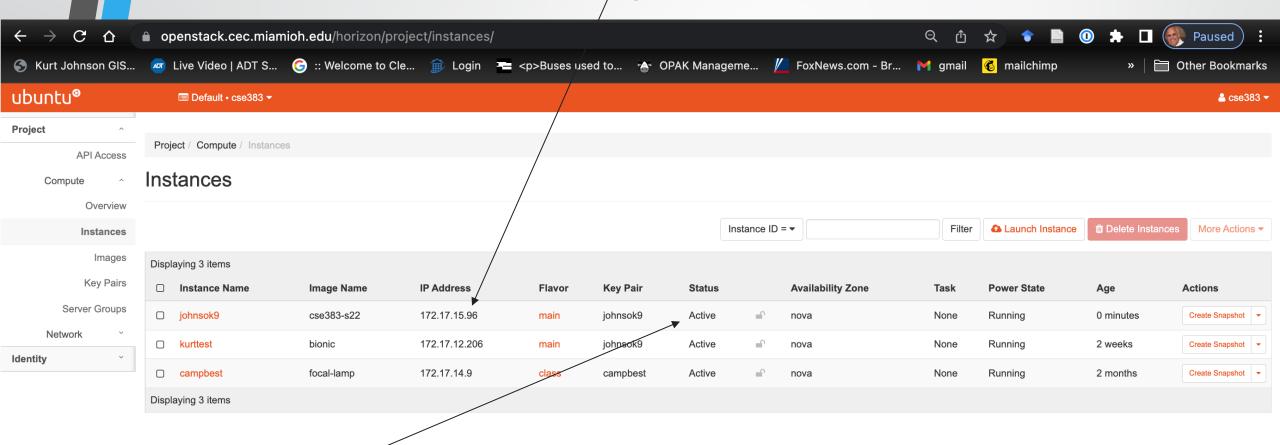


Instance being created – and booting



Go back to instances and find IP address.

Your public ip is on the instances page



ssh as the ubuntu user to your new instance from ceclnxo1.
(will take 3-4 minutes before ready)

ssh ubuntu@IP (my example is: 172.17.15.96) (use the ip from your instance)

Displaying 3 items												
	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status		Availability Zone	Task	Power State	Age	Actions
	johnsok9	cse383-s22	172.17.15.96	main	johnsok9	Active		nova	None	Running	0 minutes	Create Snapshot ▼
	kurttest	bionic	172.17.12.206	main	johnsok9	Active		nova	None	Running	2 weeks	Create Snapshot ▼
	campbest	focal-lamp	172.17.14.9	class	campbest	Active		nova	None	Running	2 months	Create Snapshot ▼
Disp	laying 3 items											

johnsok9@ceclnx01:~\$ ssh ubuntu@172.17.14.146
The authenticity of host '172.17.14.146 (172.17.14.146)' can't be established.
ECDSA key fingerprint is SHA256:Evo5zqxKDcSjIvnmbVLKmT+/z25pnN6Ui9dYTfaVkq8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.17.14.146' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.4.0-107-generic x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage

System information disabled due to load higher than 1.0

* Super-optimized for small spaces - read how we shrank the memory footprint of MicroK8s to make it the smallest full K8s around.

https://ubuntu.com/blog/microk8s-memory-optimisation

0 updates can be applied immediately.

Last login: Wed Apr 6 13:45:49 2022 from 134.53.148.193 ubuntu@kj2:~\$ ■

Next Steps - prepare database software

- sudo su (this makes you root)
- 2) Cd /var/www/html
- 3) wget https://bitbucket.org/phpliteadmin/public/downloads/phpLiteAdmin_v1-9-8-2.zip
 - a) unzip phpLiteAdmin_v1-9-8-2.zip
- 4) vim phpliteadmin.php (or nano if you prefer)
 - a) Set \$password to any password you want
 - b) Set \$directory to "/home/ubuntu/cse383/database"
- 5) Ctrl-D (exit out of sudo) (or type exit)

Next Steps – verify web server

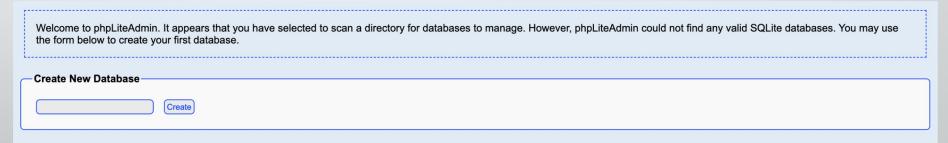
- 1) As user ubuntu
- cd /var/www/html
- 3) sudo vim index.html (or your editor)
 - a) sudo nano index.html (if you prefer nano)
 - Find the "Apache2 Ubuntu Default Page" and change it to "Hello and welcome from ID (your id)"

Set web password

- htpasswd /home/ubuntu/.htpasswd USERNAME (make up your own username)
- Enter the password
- Re-enter the password

Test web server

- Test the web page at
 - a) http://IP (your IP Address of the server)
 - b) Note: http not https
 - c) If nothing happens you have not used the correct security group (slide 16)
 - d) Verify your new message appears
- 2) Test the Database Admin program
 - a) http://IP/phpliteadmin.php
- 3) Should ask for password and then show



If not - verify all steps in slides 22 and slide 23

End of Presentation