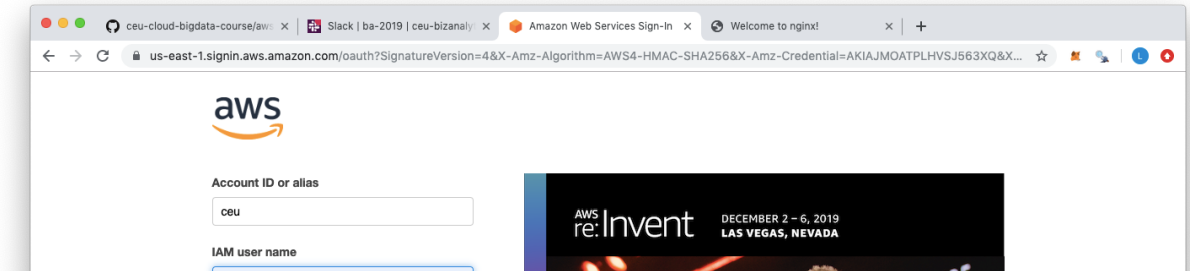
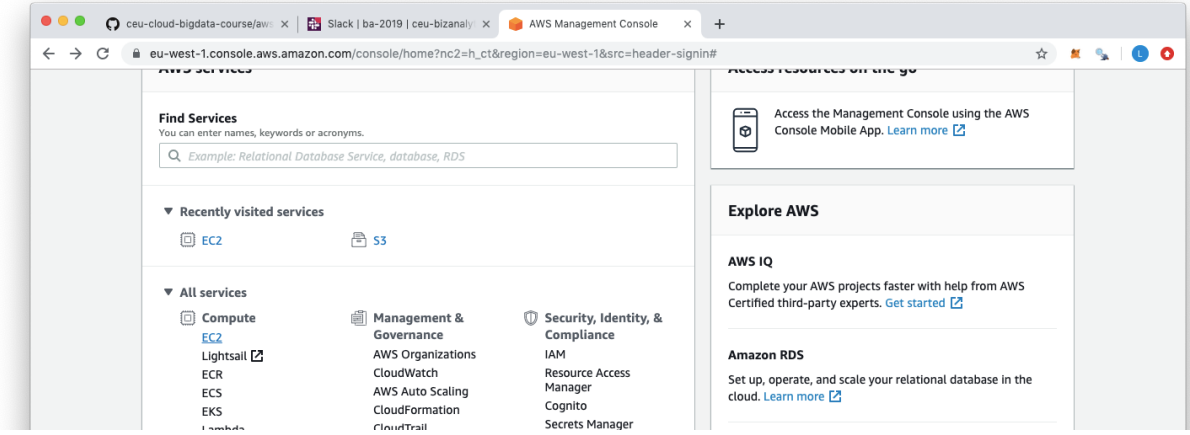
Homework - Week 2 - EC2 (1902224)

Log in to AWS

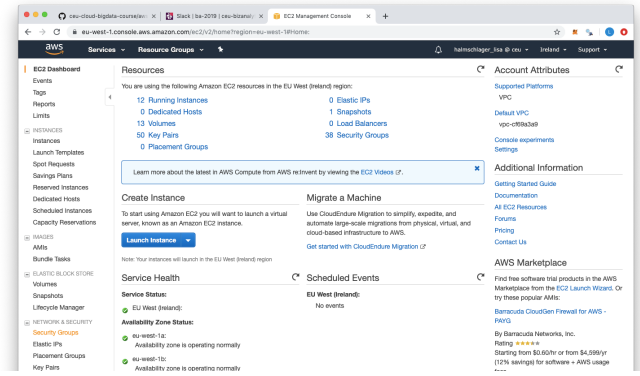


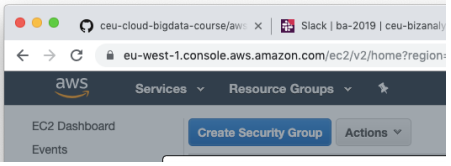
Select ER2 from AWS Service menu

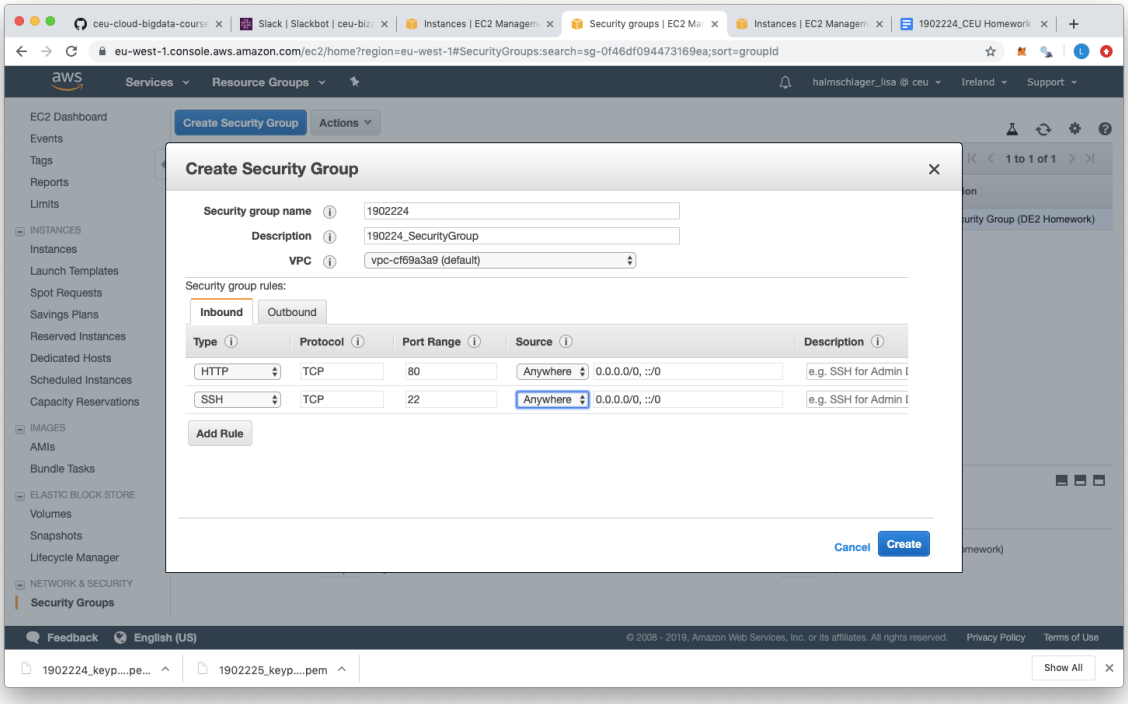


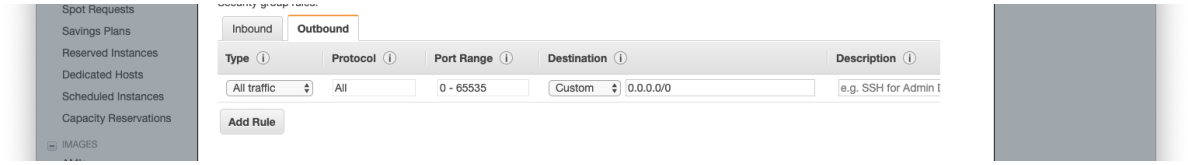
Create a Security Group + Configure the Security group

Select Security Group on the left hand side menu
Click CREATE SECURITY GROUP, configure it and click CREATE.



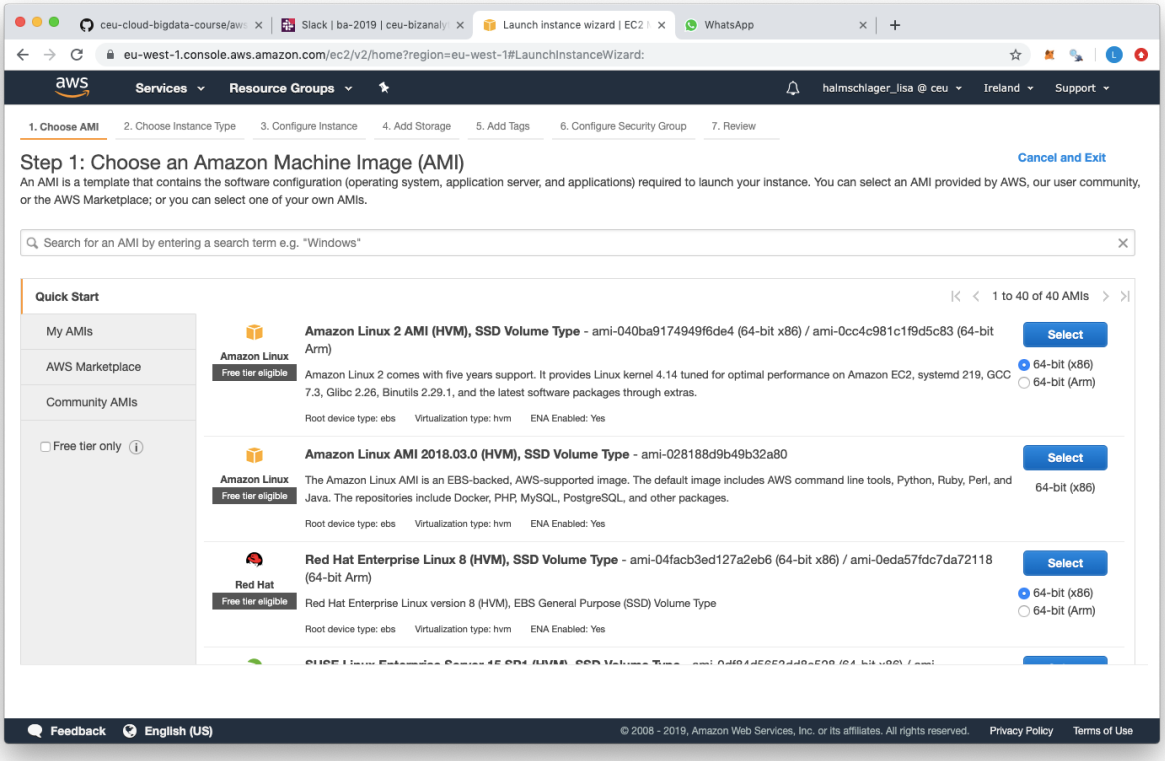




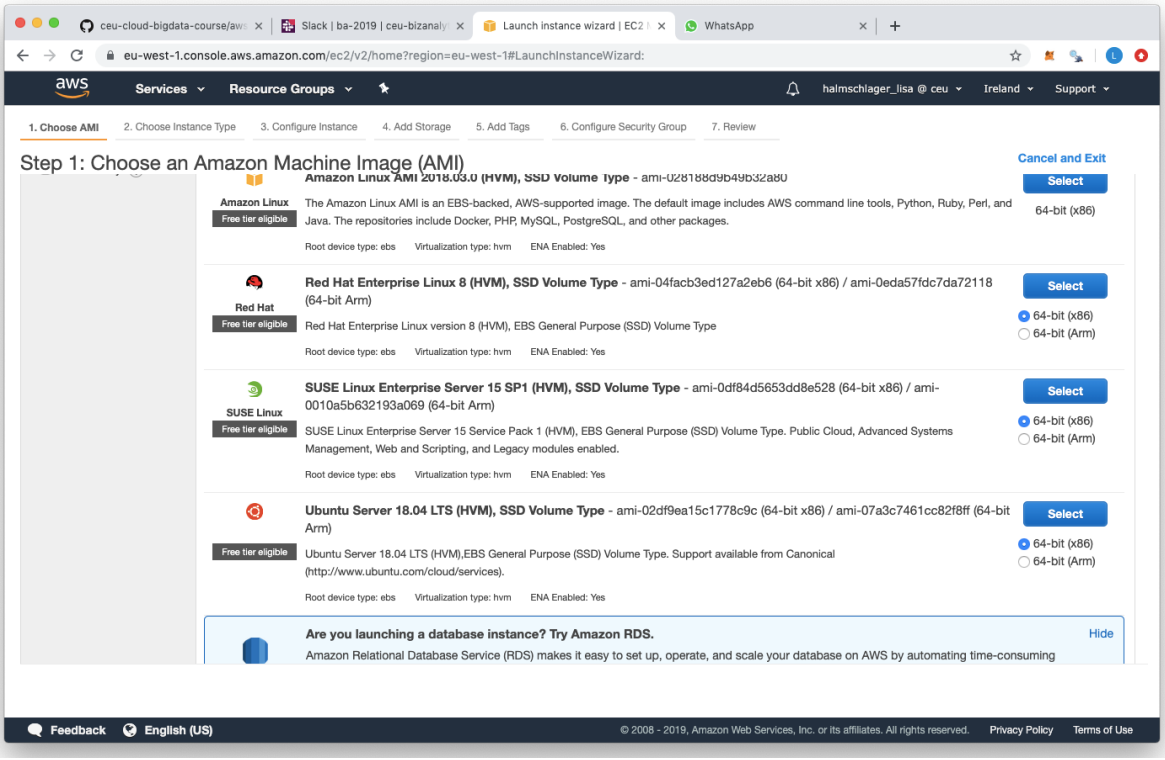


Create a t2.nano instance

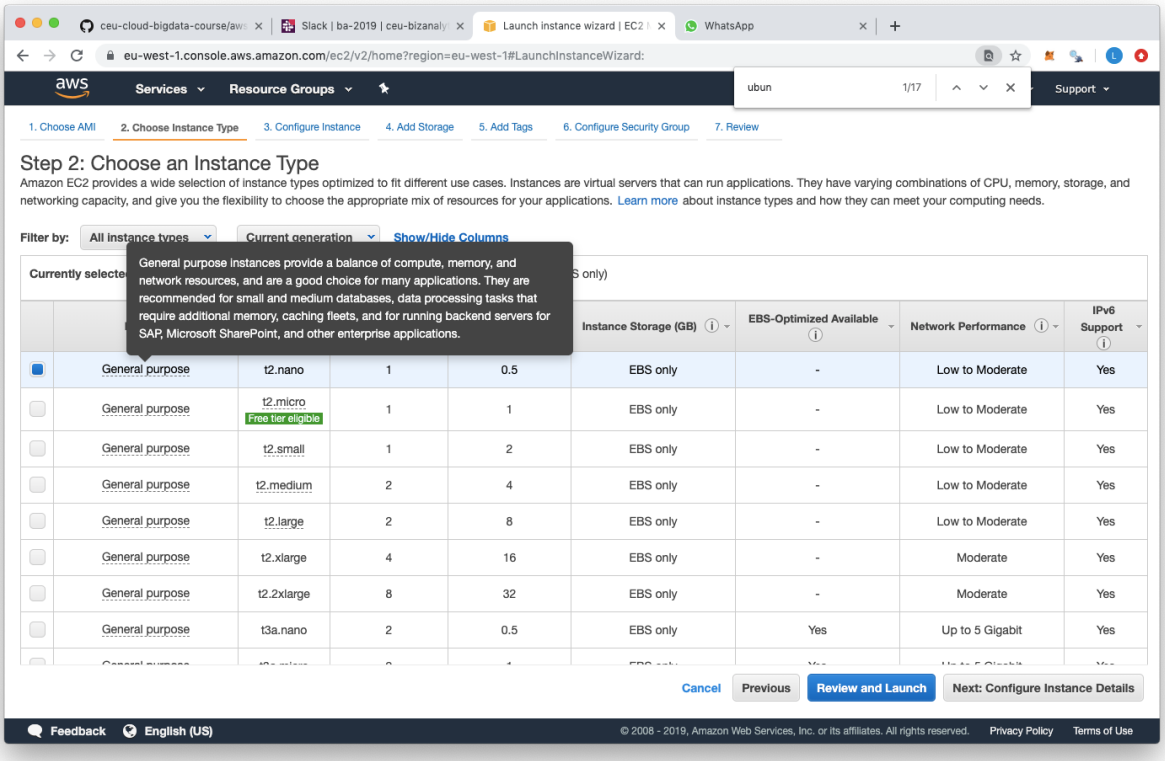
Click INSTANCES on the left-hand-side menu
STEP 1: Choose AMI



Scroll through options in QUICK START menu, select preferred AMI and click SELECT

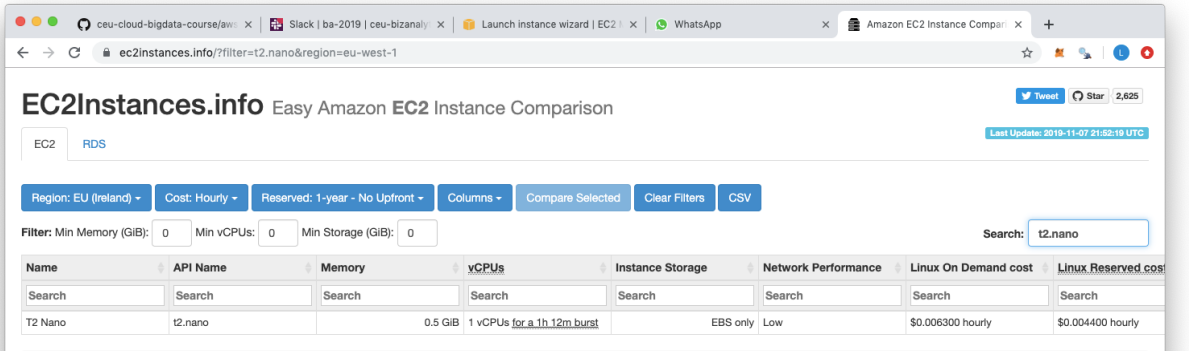


STEP 2: Choose an Instance Type
Select t2.nano and click NEXT

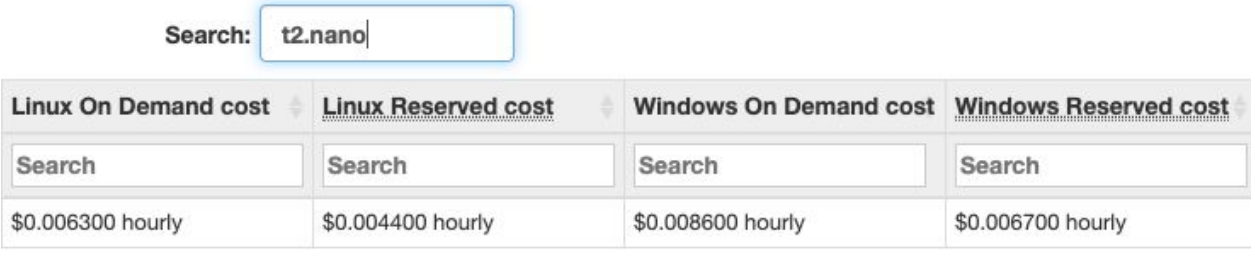


	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
☑	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.micro (Free tier eligible)	1	1	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
☐	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
☐	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes

Check the price of this instance on ec2instances.info
Go to website www.ec2instances.info and search for t2.nano

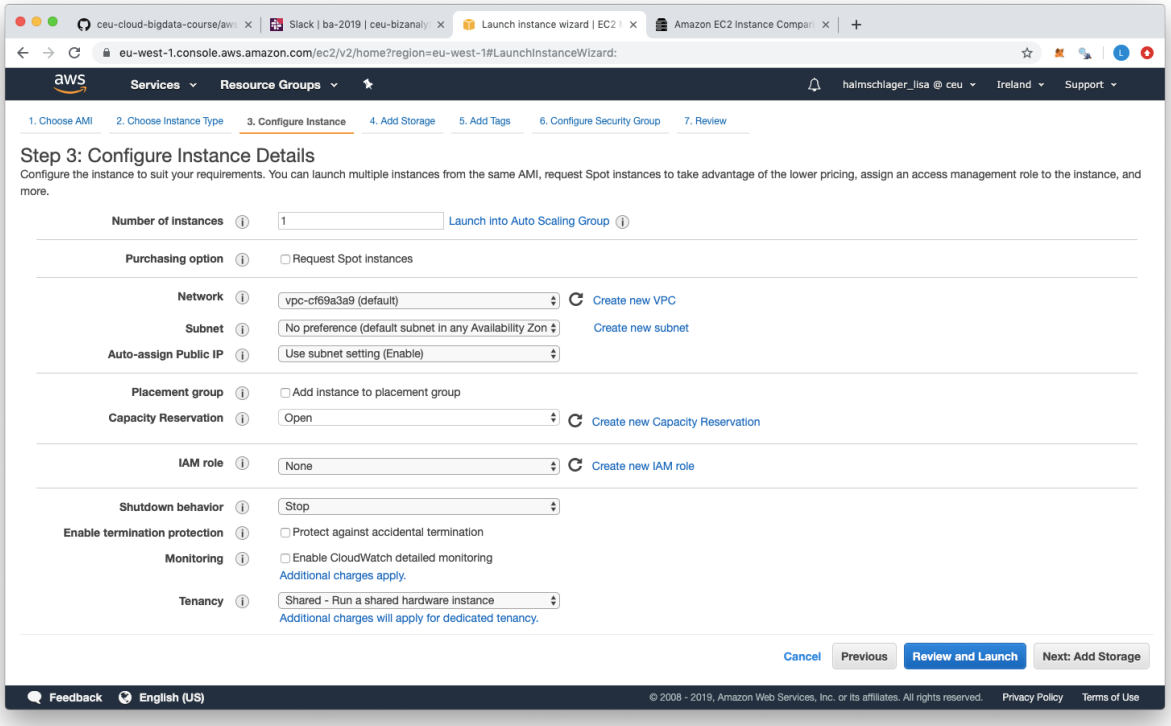


Price:

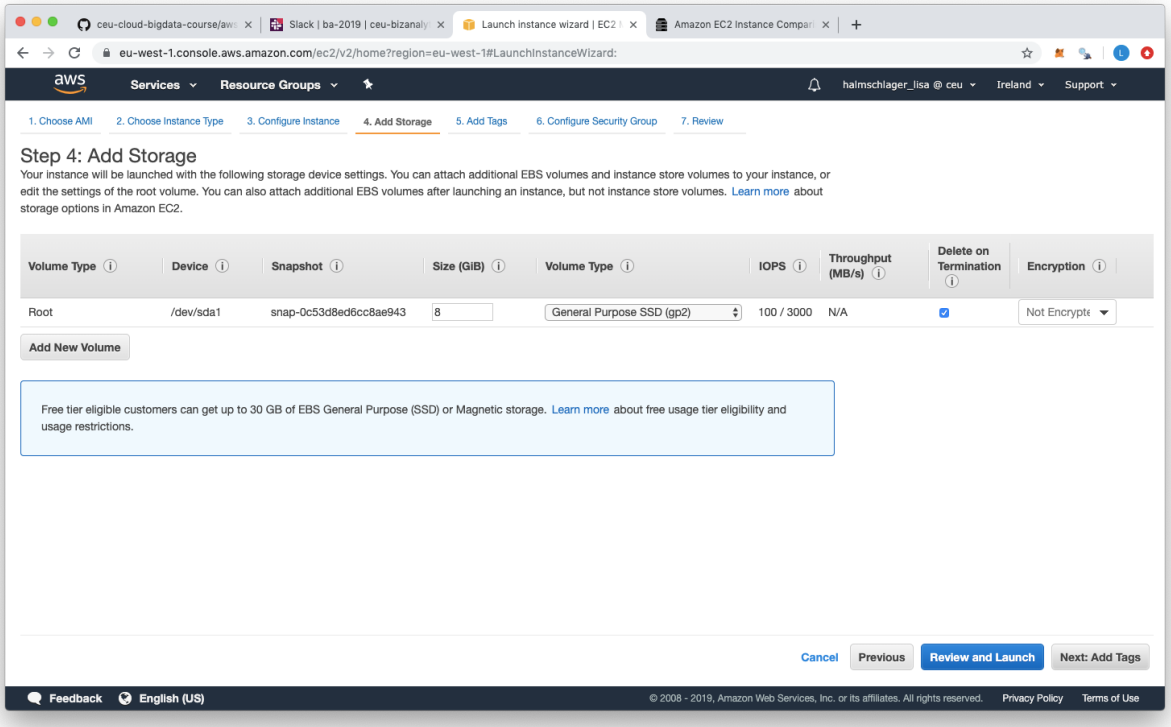


Continue with t2.nano instance

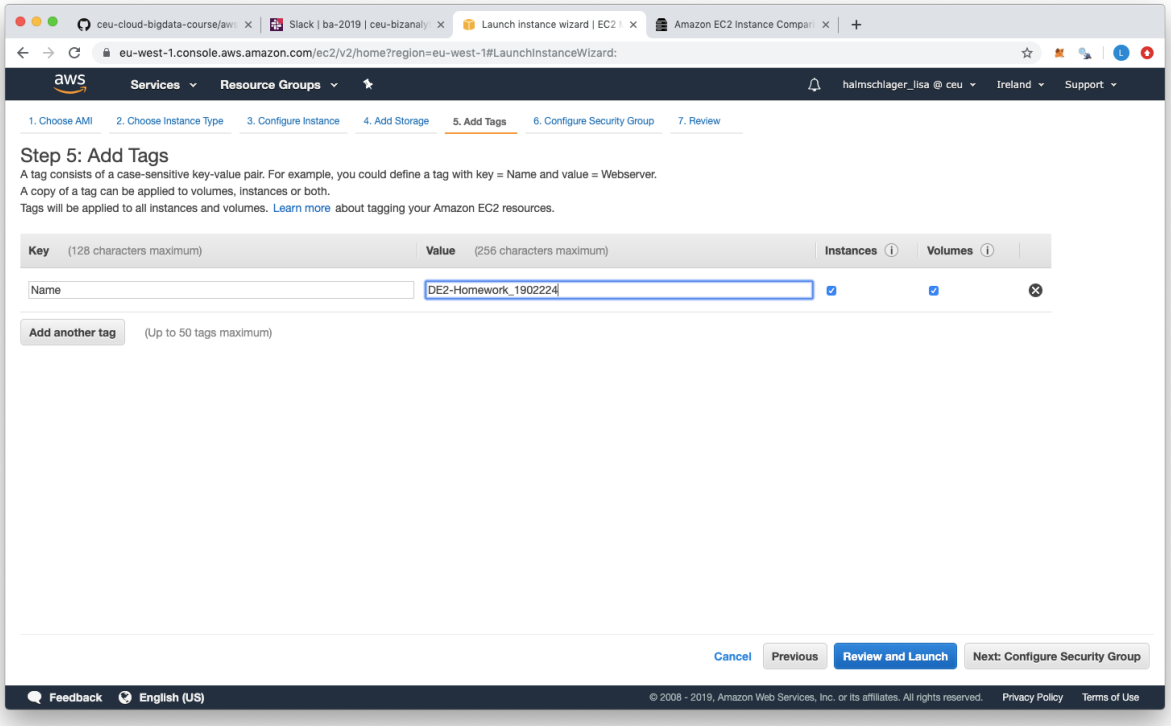
Step 3: Configure Instance Details and click NEXT



Step 4: Add Storage and click NEXT

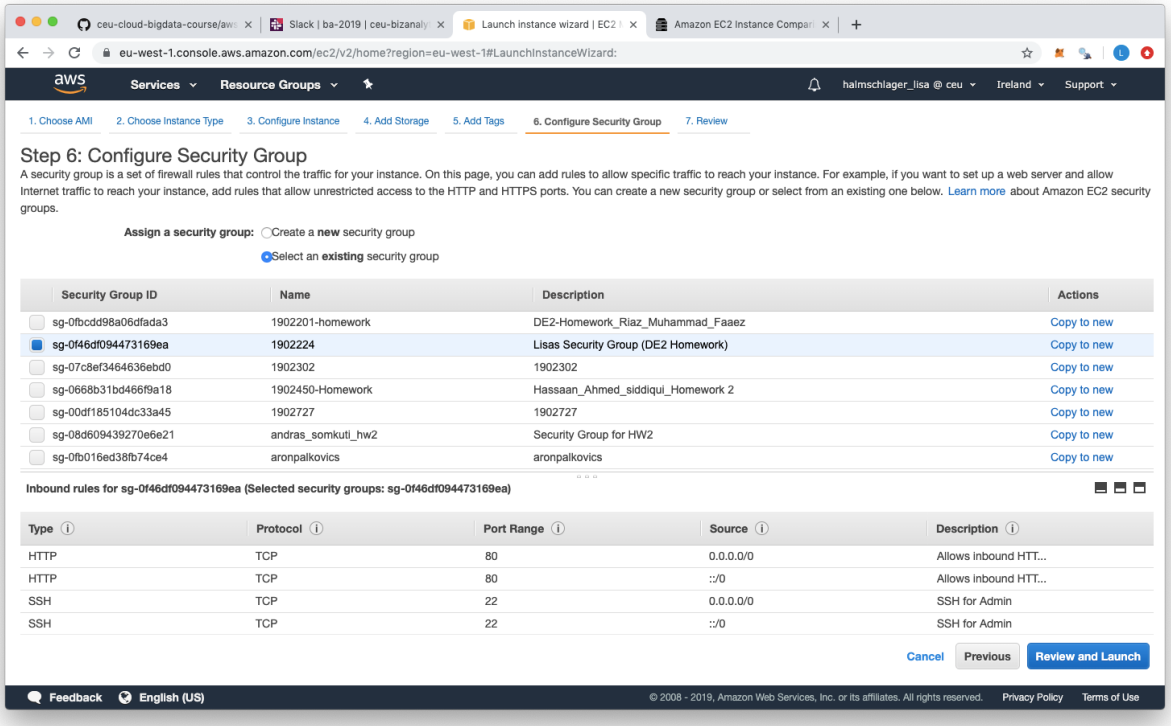


Step 5: Add Tags and click NEXT

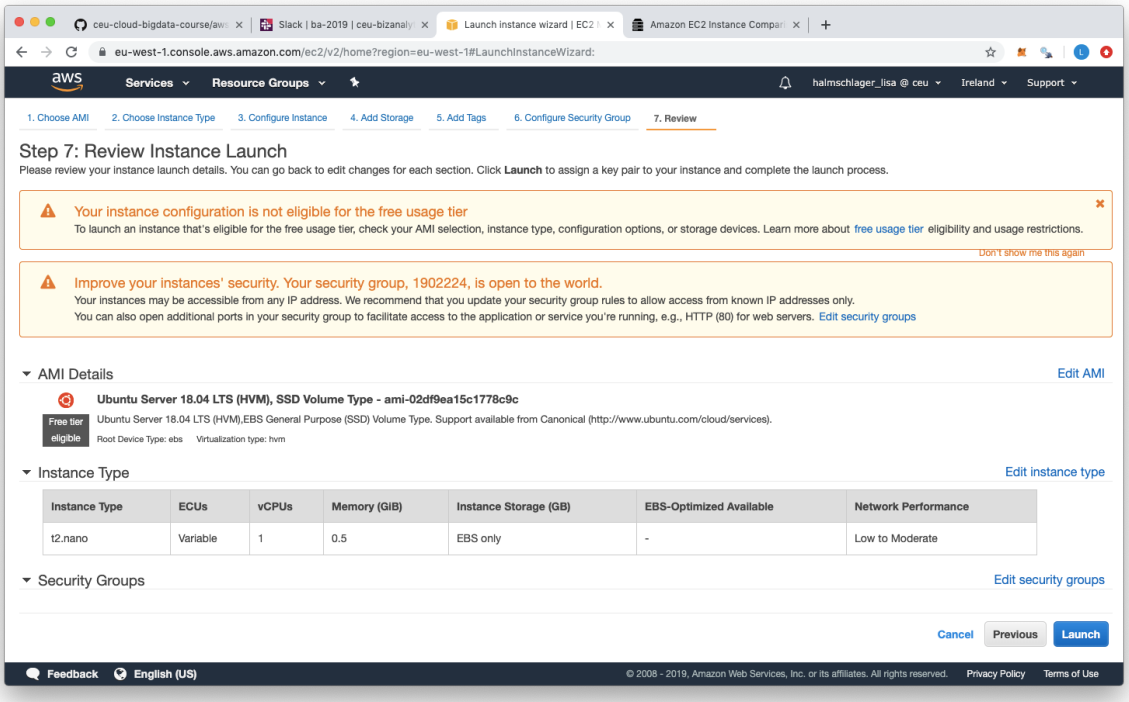


Attach your security group

Step 6: Configure Security Group
Select security group and click REVIEW AND LAUNCH



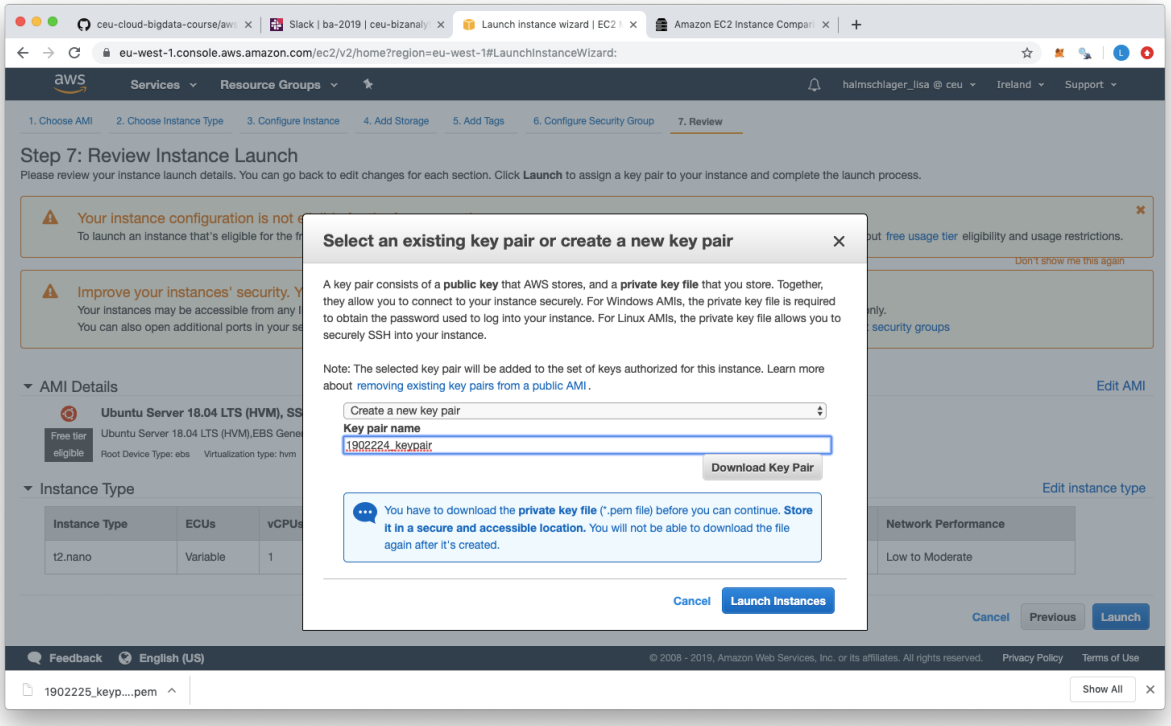
A few warnings appear. Ignore and press LAUNCH

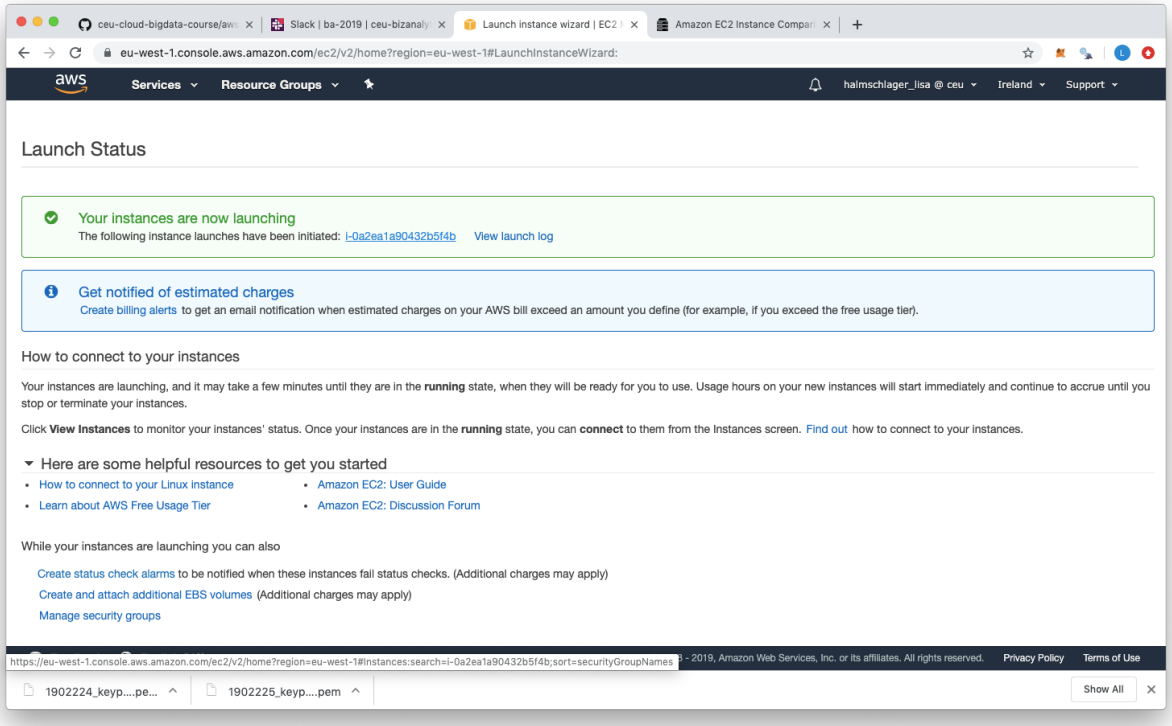


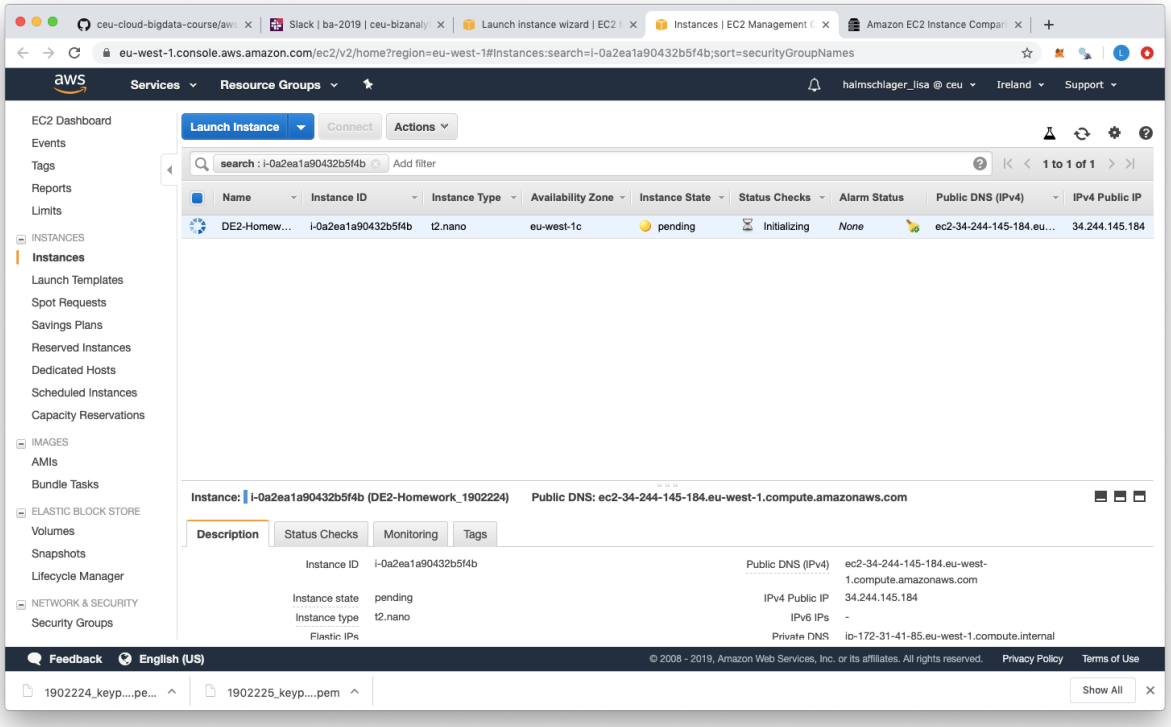
Generate a set of keypairs,
call it “<your student id>-homework”

Sorry I named it “<your student id>_keypair”, hope that’s ok

Create a new key pair and click LAUNCH INSTANCES




eu-west-1.console.aws.amazon.com/ec2/v2/home?region=eu-west-1#LaunchInstanceWizard:
Services
Resource Groups
halmschlager_lisa @ ceu
Ireland
Support
Launch Status
Your instances are now launching
The following instance launches have been initiated: i-0a2ea1a90432b5f4b View launch log
Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).
How to connect to your instances
Your instances are launching, and it may take a few minutes until they are in the running state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.
Click View Instances to monitor your instances' status. Once your instances are in the running state, you can connect to them from the Instances screen. Find out how to connect to your instances.
Here are some helpful resources to get you started
How to connect to your Linux instance
Learn about AWS Free Usage Tier
Amazon EC2: User Guide
Amazon EC2: Discussion Forum
While your instances are launching you can also
Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
Create and attach additional EBS volumes (Additional charges may apply)
Manage security groups
Privacy Policy
Terms of Use
1902224_keyp....pe...
1902225_keyp....pem
Show All

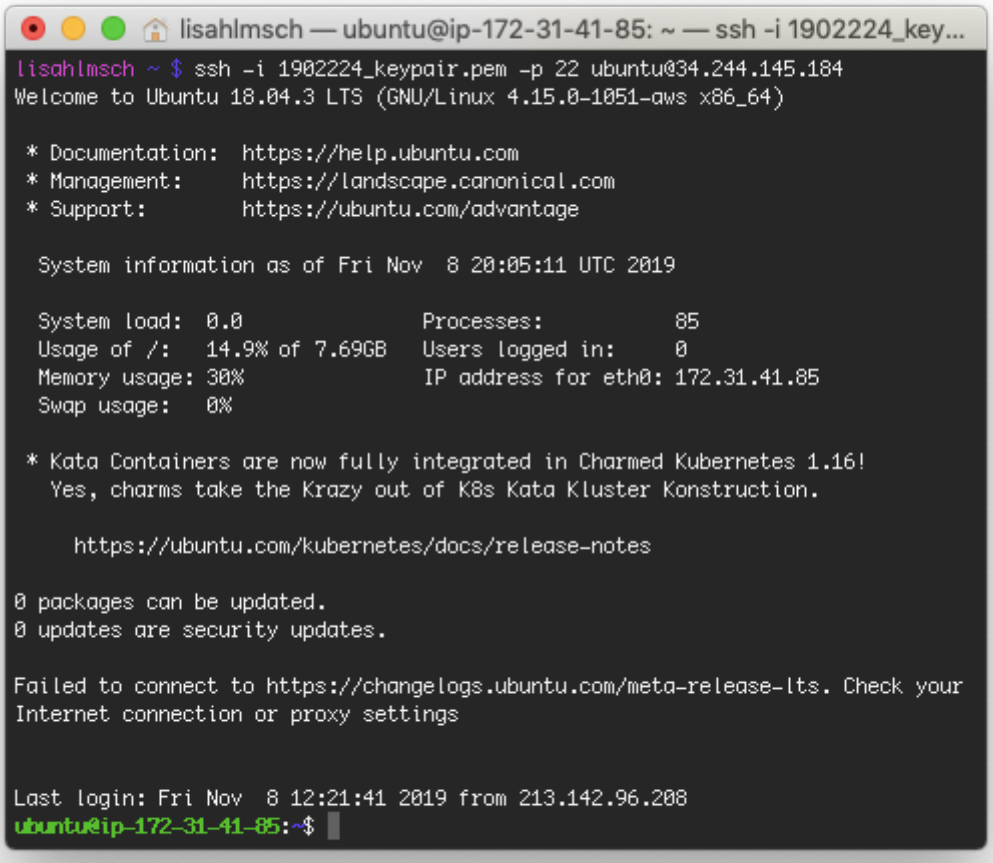

eu-west-1.console.aws.amazon.com/ec2/v2/home?region=eu-west-1#Instances:search=i-0a2ea1a90432b5f4b;sort=securityGroupNames
Services
Resource Groups
halmschlager_lisa @ ceu
Ireland
Support
EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
Lifecycle Manager
NETWORK & SECURITY
Security Groups
Launch Instance
Connect
Actions
search : i-0a2ea1a90432b5f4b
Add filter
1 to 1 of 1
Name
Instance ID
Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Public DNS (IPv4)
IPv4 Public IP
DE2-Homew...
i-0a2ea1a90432b5f4b
t2.nano
eu-west-1c
pending
Initializing
None
ec2-34-244-145-184.eu...
34.244.145.184
Instance: i-0a2ea1a90432b5f4b (DE2-Homework_1902224)
Public DNS: ec2-34-244-145-184.eu-west-1.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-0a2ea1a90432b5f4b
Instance state
pending
Instance type
t2.nano
Public DNS (IPv4)
ec2-34-244-145-184.eu-west-1.compute.amazonaws.com
IPv4 Public IP
34.244.145.184
IPv6 IPs
-
Private DNS
ip-172-31-41-85.eu-west-1.compute.internal
Feedback
English (US)
Privacy Policy
Terms of Use
1902224_keyp....pe...
1902225_keyp....pem
Show All

IPv4 Public IP	Instance ID
34.244.145.184	i-0a2ea1a90432b5f4b

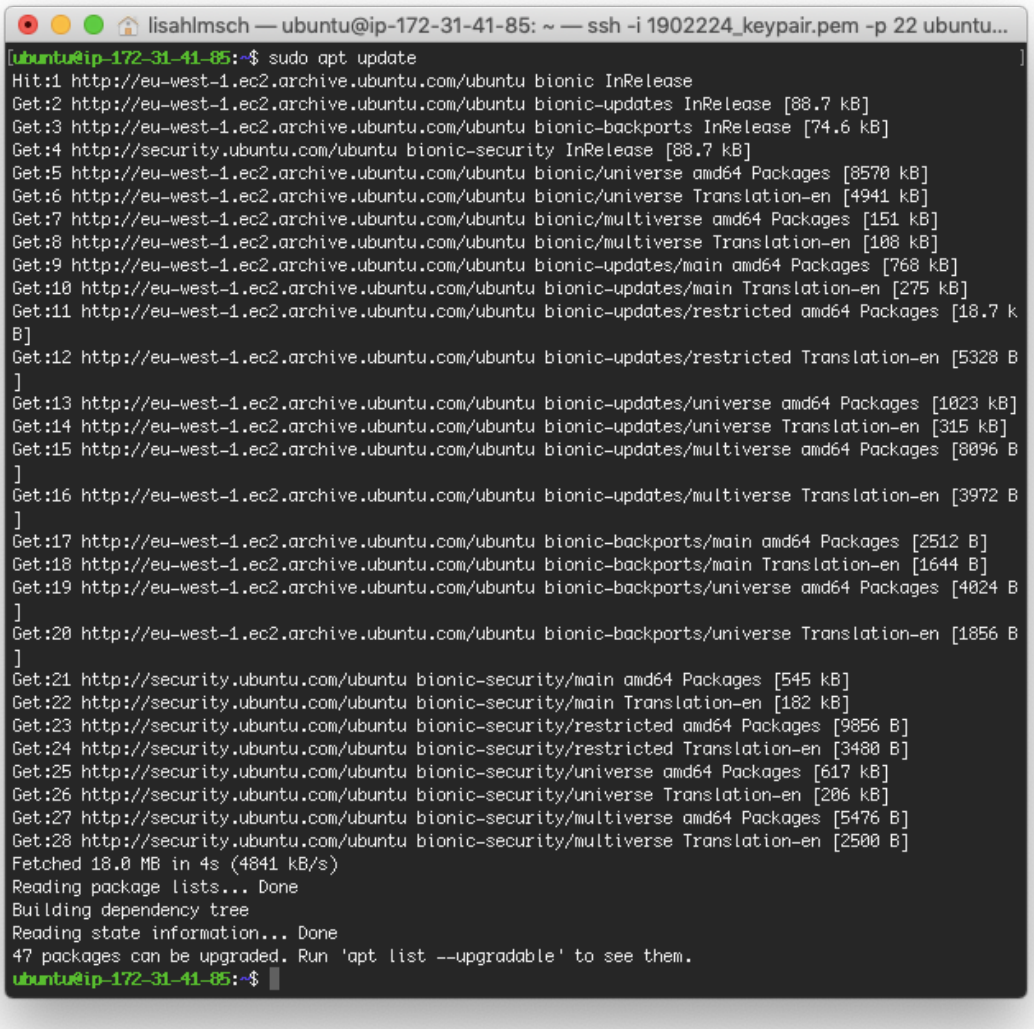
SSH into the instance

Copy Paste the .pem file into home folder
Run chmod command

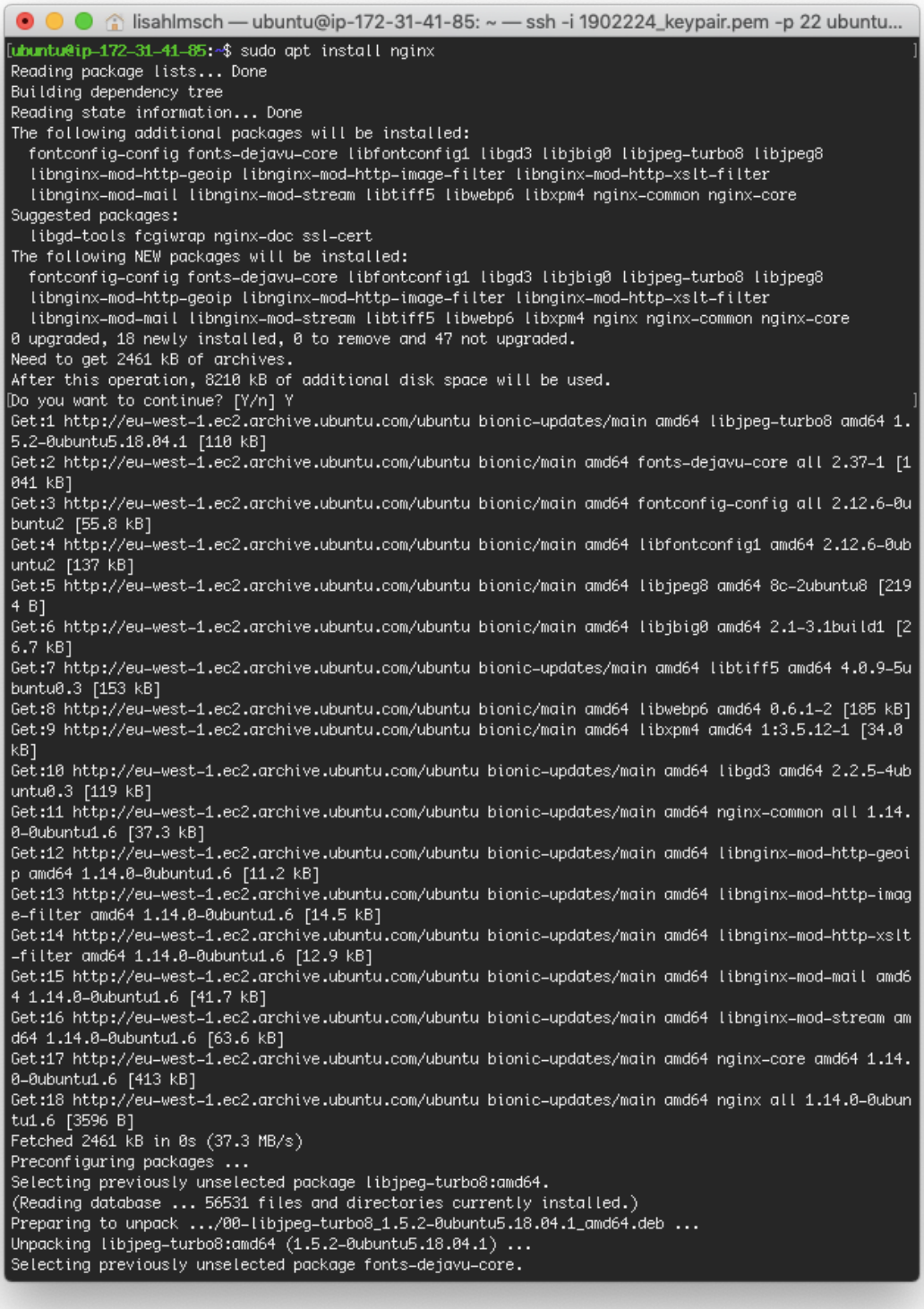
Log into Instance



Update the OS



Install nginx



Modify the nginx default HTML page

```
ubuntu@ip-172-31-41-85:/var/www/html$ sudo nano index.nginx-debian.html
ubuntu@ip-172-31-41-85:/var/www/html$
```

lisahlmsch — ubuntu@ip-172-31-41-85: /var/www/html — ssh -i 19022...

```
 GNU nano 2.9.3                  index.nginx-debian.html

<!DOCTYPE html>
<html>
<head>
<title>Welcome to Lisas nginx page on Amazons EC2 instance!</title>
<style>
    body {
        width: 35em;
        margin: 0 auto;
        font-family: Tahoma, Verdana, Arial, sans-serif;
    }
</style>
</head>
<body>
<h1>Welcome to nginx on Amazons EC2 instance!</h1>

<p>This is part of the DE2 Homework - Week2.</p>

<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

                        [ Read 28 lines ]
^G Get Help  ^O Write Out  ^W Where Is  ^K Cut Text  ^J Justify   ^C Cur Pos
^X Exit      ^R Read File  ^\ Replace   ^U Uncut Text ^T To Spell  ^_ Go To Line
```

Visit your instance’s site in a browser