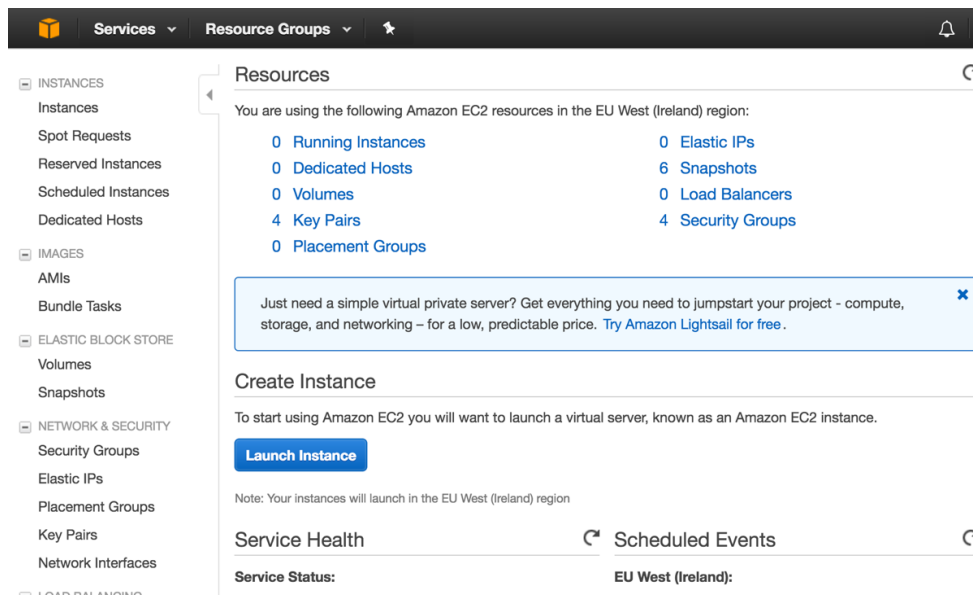


Setup an Amazon GPU Server

1. Create an account on Amazon AWS (and make sure to get the 100\$ through the education program)
2. Sign in to Amazon AWS
3. Locate the section *Compute* -> **EC2**
4. Press the **EC2** button to go to this part of the website

At this point you will see an interface like the image below:



On the page pictured above, we will only use two pages which can be accessed through the navigation bar on the left: *Network & Security* -> **Security Groups** and *Instances* -> **Instances**.

5. Go to the **Security Groups** page through the navigation panel on the left.
6. Press the big blue button reading **Create Security Group**.

At this point you will see an interface like the image below:

Create Security Group

Security group name

Example

Description

Example

VPC

vpc-c6a6b0a2 (default)

Security group rules:

Inbound

Outbound

Type	Protocol	Port Range	Source	Description
Custom TCP	TCP	8888	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
Custom TCP	TCP	6006	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

Add Rule

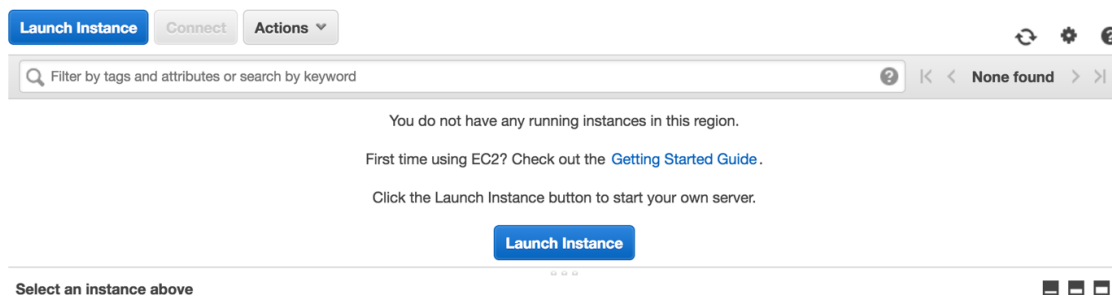
Cancel

Create

On the page pictured above you can see the rules you will need to fill out in order to access the server.

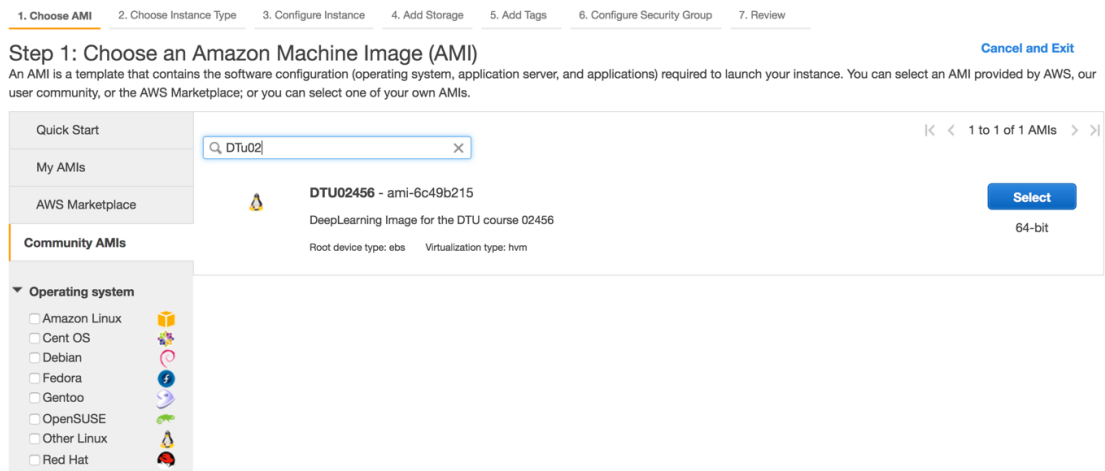
7. Give the security group a name and optionally a description
8. Create three new rules in the inbound section
 - a. Custom TCP – **Port: 8888** – **Source: Anywhere**
 - b. Custom TCP – **Port: 6006** – **Source: Anywhere**
 - c. HTTP – **Port: 80** – **Source: Anywhere**
9. Click **Create**
10. From here go to the **Instances** page through the navigation panel on the left.

At this point you will see an interface like the image below:



11. Press the big blue button reading **Launch Instance**.

At this point you will see an interface like the image below:

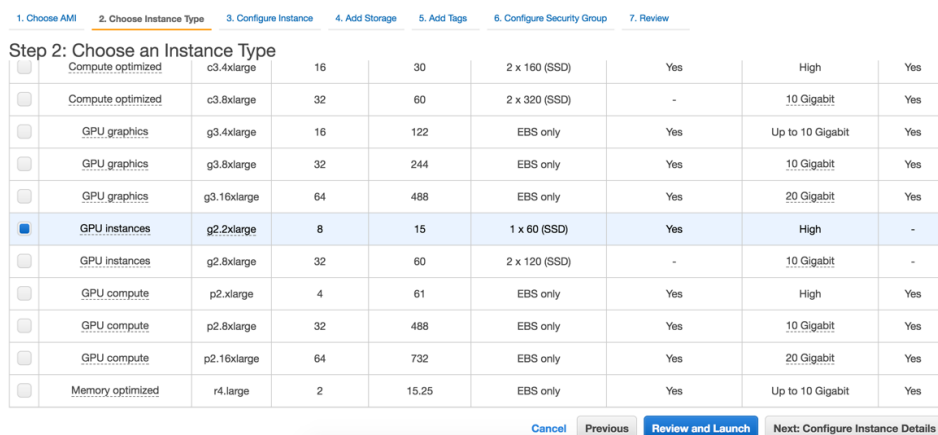


12. Select **Community AMIs**

13. Search for **DTU02456**

14. Press **Select**

At this point you will see an interface like the image below:



15. Choose an instance (for GPU choose: *GPU Instance* -> **g2.2xlarge**)

16. Press **Review and Launch**

At this point you will see an interface like the image below:

Step 7: Review Instance Launch

AMI Details

DTU02456 - ami-6c49b215
DeepLearning Image for the DTU course 02456
Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
g2.xlarge	26	8	15	1 x 60	Yes	High

Security Groups

Security group name: launch-wizard-2
Description: launch-wizard-2 created 2017-08-31T15:44:28.037+02:00

Type	Protocol	Port Range	Source	Description
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This security group has no rules

Cancel Previous Launch

17. Scroll down to the **Security Groups** section

18. Press **Edit security groups**

At this point you will see an interface like the image below:

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name: launch-wizard-2
Description: launch-wizard-2 created 2017-08-31T15:44:28.021+02:00

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous Review and Launch

19. Press **Select an existing security group** and choose the security group you created

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☐ Create a new security group ☒ Select an existing security group

Security Group ID	Name	Description	Actions
sg-62a96e1b	default	default VPC security group	Copy to new
sg-c4d900bd	jupyter_open	As jupyter_secure, but open for SSH connection from all Sources	Copy to new
sg-a8f423d1	jupyter_secure	Security Group for webserver Servers	Copy to new
sg-6432741c	launch-wizard-1	launch-wizard-1 created 2017-08-31T13:32:03.304+02:00	Copy to new

Select a security group above to view its inbound rules.

Cancel Previous Review and Launch

20. Press **Launch** and you are done

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

▼ Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
g2.2xlarge	26	8	15	1 x 60	Yes	High

▼ Security Groups [Edit security groups](#)

Security Group ID	Name	Description
sg-a8f423d1	jupyter_secure	Security Group for webserver Servers

All selected security groups inbound rules

Type	Protocol	Port Range	Source	Description
HTTP	TCP	80	0.0.0.0/0	
Custom TCP Rule	TCP	8888	0.0.0.0/0	
Custom TCP Rule	TCP	6006	0.0.0.0/0	

[Cancel](#) [Previous](#) [Launch](#)

21. Back on the **Instances** screen you will now see a new instance

22. Initially it is **pending**, but once it is ready select it

23. You will then see an information screen in the bottom of the page. On the right you should look for **IPv4 Public IP**. This is the address of your server.

	i-0932aeb3bcd2b9c9	t2.nano	eu-west-1c		running		Initializing	None		ec2-52-30
--	--------------------	---------	------------	--	---------	--	--------------	------	--	-----------

Instance ID	i-0932aeb3bcd2b9c9	Public DNS (IPv4)	ec2-52-30-180-78.eu-west-1.compute.amazonaws.com
Instance state	running	IPv4 Public IP	52.30.180.78
Instance type	t2.nano	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-31-241.eu-west-1.compute.internal
Availability zone	eu-west-1c	Private IPs	172.31.31.241

24. Copy paste this IP-address into your browser and you will get a login screen

25. The username is: **deep_learning** and the password is **deep_learning**.