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## Setting up AWS

### 1) Sign in to the AWS console

The first step is to navigate to the amazon AWS console and sign in:

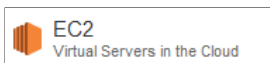
- <http://aws.amazon.com/console/>
- Click the sign in button and sign in to your Amazon AWS account:

#### Already have an AWS account?

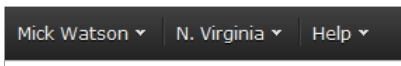
Sign in to get started.



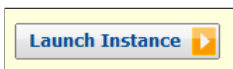
- Click on "EC2"



- In the top-right hand corner, you may wish to ensure that the region selected is "N. Virginia":



- Click on "Launch Instance", and follow the wizard



### 2) The "Launch Instance Wizard"

- The launch instance wizard will look like this when you start:

**Create a New Instance** Cancel X

Select an option below:

- Classic Wizard**  
Launch an On-Demand or Spot instance using the classic wizard with fine-grained control over how it is launched.
- Quick Launch Wizard**  
Launch an On-Demand instance using an editable, default configuration so that you can get started in the cloud as quickly as possible.
- AWS Marketplace**  
AWS Marketplace is an online store where you can find and buy software that runs on AWS. Launch with 1-Click and pay by the hour.

**Launch with the Classic Wizard**

Request Instances Wizard Cancel X

CHOOSE AN AMI    INSTANCE DETAILS    CREATE KEY PAIR    CONFIGURE FIREWALL    REVIEW

Choose an Amazon Machine Image (AMI) from one of the tabbed lists below by clicking its **Select** button.

Quick Start    My AMIs    **Community AMIs**    AWS Marketplace

	<b>Basic 32-bit Amazon Linux AMI 2011.02.1 Beta</b> (AMI Id: ami-8c1fcc5) Amazon Linux AMI Base 2011.02.1, EBS boot, 32-bit architecture with Amazon EC2 AMI Tools. Root Device Size: 8 GB	★ <b>Select</b> ▶
	<b>Basic 64-bit Amazon Linux AMI 2011.02.1 Beta</b> (AMI Id: ami-8e1fce7) Amazon Linux AMI Base 2011.02.1, EBS boot, 64-bit architecture with Amazon EC2 AMI Tools. Root Device Size: 8 GB	★ <b>Select</b> ▶
	<b>Red Hat Enterprise Linux 6.1 32 bit</b> (AMI Id: ami-0cbb4265) Red Hat Enterprise Linux version 6.1, EBS-boot, 32-bit architecture. Root Device Size: 7 GB	<b>Select</b> ▶
	<b>Red Hat Enterprise Linux 6.1 64 bit</b> (AMI Id: ami-2e827537) Red Hat Enterprise Linux version 6.1, EBS-boot, 64-bit architecture. Root Device Size: 6 GB	<b>Select</b> ▶
	<b>SUSE Linux Enterprise Server 11 64-bit</b> (AMI Id: ami-e43578d) SUSE Linux Enterprise Server 11 Service Pack 1 basic install, EBS boot, 64-bit architecture with Amazon EC2 AMI Tools preinstalled; Apache 2.2, MySQL 5.0, PHP 5.3, Ruby 1.8.7, and Rails 2.3. Root Device Size: 15 GB	<b>Select</b> ▶

★ Free tier eligible if used with a micro instance. See [AWS free tier](#) for complete details and terms.

**Continue** ▶

[Submit Feedback](#)    [Getting Started Guide](#)

- Click "Continue".
- Choose "Community AMIs", type "wageningen" in the search box, wait for the WageningenEU AMI to turn up and click "Select":

**Request Instances Wizard** Cancel X

CHOOSE AN AMI    INSTANCE DETAILS    CREATE KEY PAIR    CONFIGURE FIREWALL    REVIEW

Choose an Amazon Machine Image (AMI) from one of the tabbed lists below by clicking its **Select** button.

Quick Start    My AMIs    **Community AMIs**    AWS Marketplace

Viewing: All Images        1 to 1 of 1 Items

AMI ID	Root Device	Manifest	Platform	
ami-5a79c133	ebs	495848530291/WageningenEU	Other Linux	<b>Select</b> ▶

★ Free tier eligible if used with a micro instance. See [AWS free tier](#) for complete details and terms.

- From "Instance Type", make sure **m1.xlarge** is selected (**note** this will incur a charge. If you are on one of my training courses, then the charge will be picked up by the training course; however, if you are doing this on your own, then the charges may go to your credit card (or your institute's credit card). Please check before going ahead. Note, you may start up a **micro** instance and run this **free** for **1 year** under a current offer from Amazon <http://aws.amazon.com/free/>):

**Request Instances Wizard** Cancel

CHOOSE AN AMI    **INSTANCE DETAILS**    CREATE KEY PAIR    CONFIGURE FIREWALL    REVIEW

Provide the details for your instance(s). You may also decide whether you want to launch your instances as "on-demand" or "spot" instances.

**Number of Instances:**     **Instance Type:**

**Launch as an EBS-Optimized instance (additional charges apply):**

**Launch Instances**

EC2 Instances let you pay for compute capacity by the hour with no long term commitments. This transforms what are commonly large fixed costs into much smaller variable costs.

**Launch into:**  EC2     VPC

**Availability Zone:**

**Request Spot Instances**

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- Click "Continue". There is nothing to change on the next step so click Continue:

**Request Instances Wizard** Cancel

CHOOSE AN AMI    **INSTANCE DETAILS**    CREATE KEY PAIR    CONFIGURE FIREWALL    REVIEW

**Number of Instances:** 1    **Availability Zone:** No Preference

**Advanced Instance Options**

Here you can choose a [kernel](#) or [RAM disk](#) to use with your instances. You can also choose to enable CloudWatch Detailed Monitoring or enter data that will be available from your instances once they launch.

**Kernel ID:**     **RAM Disk ID:**

**Monitoring:**  Enable CloudWatch detailed monitoring for this instance  
(additional charges will apply)

**User Data:**

as text     as file     base64 encoded

**Termination Protection:**  Prevention against accidental termination.    **Shutdown Behavior:**

**IAM Role:**

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- There is nothing to change on the next step, so click Continue:

**Request Instances Wizard** Cancel

CHOOSE AN AMI
INSTANCE DETAILS
CREATE KEY PAIR
CONFIGURE FIREWALL
REVIEW

**Number of Instances:** 1

**Availability Zone:** No Preference

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**Storage Device Configuration**

Your instance will be launched with the following storage device settings. Edit these settings to add EBS volumes, instance store volumes, or edit the settings of the root volume.

Type	Device	Snapshot ID	Size	Volume Type	IOPS	Delete on Termination
Root	/dev/sda1	snap-8ad079fc	20GiB	standard		true
Ephemeral	/dev/sdb	instance store volume: ephemeral0				Remove

Edit

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[Continue](#)

- There is nothing to change on the next step, so click "Continue":

**Request Instances Wizard** Cancel

CHOOSE AN AMI
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Add tags to your instance to simplify the administration of your EC2 infrastructure. A form of metadata, tags consist of a case-sensitive key/value pair, are stored in the cloud and are private to your account. You can create user-friendly names that help you organize, search, and browse your resources. For example, you could define a tag with key = Name and value = Webserver. You can add up to 10 unique keys to each instance along with an optional value for each key. For more information, go to [Using Tags](#) in the *EC2 User Guide*.

Key (127 characters maximum)	Value (255 characters maximum)	Remove
<input type="text" value="Name"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	

[Add another Tag.](#) (Maximum of 10)

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[Continue](#)

- We now come to the stage where we must create a secure "key pair" that will allow you to log in to your new instance! The screen looks like this:

**Request Instances Wizard** Cancel X

CHOOSE AN AMI    INSTANCE DETAILS    **CREATE KEY PAIR**    CONFIGURE FIREWALL    REVIEW

Public/private key pairs allow you to securely connect to your instance after it launches. For Windows Server Instances, a Key Pair is required to set and deliver a secure encrypted password. For Linux Server Instances, a key pair will allow you to SSH into your instance. To create a key pair, enter a name and click **Create & Download your Key Pair**. You will then be prompted to save the private key to your computer. Note, you only need to generate a key pair once - not each time you want to deploy an Amazon EC2 instance.

Choose from your existing Key Pairs

**Create a new Key Pair**

1. Enter a name for your key pair:\* MyWageningen (e.g., jdoekey) ✘ The keypair 'Wageningen' already exists.

2. Click to create your key pair:\* Create & Download your Key Pair

Save this file in a place you will remember. You can use this key pair to launch other instances in the future or visit the Key Pairs page to create or manage existing ones.

Proceed without a Key Pair

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- Ensure that "Create a new Key Pair" is selected, enter a name for your key pair (e.g. "MyWageningen") and click "Create and Download your Key Pair".
- A download should start. **Please save this key pair somewhere you will remember!**

• The next stage is to set up a security group to control which ports are open on your new instance. The screen looks like this:

**Request Instances Wizard** Cancel X

CHOOSE AN AMI    INSTANCE DETAILS    CREATE KEY PAIR    **CONFIGURE FIREWALL**    REVIEW

Security groups determine whether a network port is open or blocked on your instances. You may use an existing security group, or we can help you create a new security group to allow access to your instances using the suggested ports below. Add additional ports now or update your security group anytime using the Security Groups page.

Choose one or more of your existing Security Groups

**Create a new Security Group**

**Group Name**

**Group Description**

**Inbound Rules**

Create a new rule:

Source:   
(e.g., 192.168.2.0/24, sg-47ad482e, or 1234567890/default)

+ Add Rule

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- Make sure "Create a new Security Group" is selected
- Enter "Open" as the Group name
- Enter "Open" as the Group description
- Select "SSH" from the "Create a new rule" drop-down box

- The Source should automatically become "0.0.0.0/0"
- Click on "Add Rule". The window should now look like this:

**Request Instances Wizard** Cancel X

CHOOSE AN AMI    INSTANCE DETAILS    CREATE KEY PAIR    **CONFIGURE FIREWALL**    REVIEW

Security groups determine whether a network port is open or blocked on your instances. You may use an existing security group, or we can help you create a new security group to allow access to your instances using the suggested ports below. Add additional ports now or update your security group anytime using the Security Groups page.

Choose one or more of your existing Security Groups

**Create a new Security Group**

**Group Name**

**Group Description**

**Inbound Rules**

Create a new rule:

Port range:   
(e.g., 80 or 49152-65535)

Source:   
(e.g., 192.168.2.0/24, sg-47ad482e, or 1234567890/default)

TCP	Port (Service)	Source	Action
	22 (SSH)	0.0.0.0/0	Delete

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- If everything looks like the above, click "Continue"
- The final page should look like this:

**Request Instances Wizard** Cancel X

CHOOSE AN AMI    INSTANCE DETAILS    CREATE KEY PAIR    CONFIGURE FIREWALL    **REVIEW**

Please review the information below, then click **Launch**.

**AMI:** Other Linux AMI ID ami-5a79c133 (x86\_64) [Edit AMI](#)

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**Number of Instances:** 1

**Availability Zone:** No Preference

**Instance Type:** M1 Extra Large (m1.xlarge)

**Instance Class:** On Demand [Edit Instance Details](#)

**EBS-Optimized:** No

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**Monitoring:** Disabled    **Termination Protection:** Disabled

**Tenancy:** Default

**Kernel ID:** Use Default    **Shutdown Behavior:** Stop

**RAM Disk ID:** Use Default

**Network Interfaces:**

**Secondary IP Addresses:**

**User Data:**

**IAM Role:** [Edit Advanced Details](#)

---

**Key Pair Name:** MyWageningen [Edit Key Pair](#)

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**Security Group(s):** sg-42d3f52a [Edit Firewall](#)

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- If everything looks fine, click "Launch"!!!! Click **Close**.
- In the AWS console, click "Instances" to see a list of your running instances:

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