

You should receive a comma-separated file from the instructor containing your username and an auto-generated password. You can use the following URL to sign in to the 2013 Genomics Workshop account on Amazon's cloud:

<https://genomics2013.signin.aws.amazon.com/console>

Find your name in the spreadsheet distributed by the instructors, it should look similar to this:

Name (First)	Name (Last)	User name	Password
Kwaku	Aduse-Poku	aduse	2Kh*1P^Y{yfU

Follow the link, enter your username and password and sign in to the cloud:



Make sure you are on the **EC2** panel and press the “Launch *Instance*” button:

Services **Edit**

EC2 Dashboard

Events

INSTANCES

Instances

Spot Requests

Reserved Instances

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

NETWORK & SECURITY

Security Groups

Elastic IPs

Placement Groups

Load Balancers

Key Pairs

Network Interfaces

Getting Started

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance

Note: Your instances will launch in the region.

Service Health

Service Status

Current Status	Details
✓ Amazon EC2 (US East - N. Virginia)	Service is operating normally

[View complete service health details](#)

Availability Zone Status

Current Status	Details
✓ us-east-1a	Availability zone is operating normally
✓ us-east-1b	Availability zone is operating normally
✓ us-east-1c	Availability zone is operating normally
✓ us-east-1d	Availability zone is operating normally

My Resources

You are using the following Amazon

18 Running Instances

32 EBS Volumes

293 Key Pairs

0 Placement Groups

Events

✓ US East (N. Virginia): **No events**

Related Links

- Getting Started Guide
- Documentation
- All EC2 Resources
- Find software on AWS Marketplace
- Forums
- Feedback
- Report an Issue

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Select “Launch **Classic Wizard**” and press continue, then click on the “My **AMIs**” tab. Choose the “971102534555/WME_JAN2013, with AMI ID **ami-d749c3be** (marked by an arrow below) by pressing “Select”:

Request Instances Wizard [Cancel](#)

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: **Owned By Me** 1 to 7 of 7 items

AMI ID	Root Device	Name	Platform	
ami-04fe226d	ebs	971102534555/Neuchatel_CloudBioLinux_v3	Other Linux	Select
ami-0cfa4465	ebs	971102534555/Stacks_CloudBioLinux_v5	Other Linux	Select
ami-5941ce30	ebs	971102534555/Short Read Genomics 2013	Other Linux	Select
ami-9668c8ff	ebs	971102534555/Stacks_CloudBioLinux_v4	Other Linux	Select
ami-cc2ef3a5	ebs	971102534555/Neuchatel_Windows_JoinMap	Windows	Select
ami-d749c3be	ebs	971102534555/WME_JAN2013	Other Linux	Select
ami-df0980b6	ebs	971102534555/WG_JAN2013	Other Linux	Select

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

Choose an “Extra Large” instance type, and select “us-east-1a” as your availability zone. Press “continue”.

The screenshot shows the AWS EC2 Management Console's 'Request Instances Wizard' in the 'INSTANCE DETAILS' step. The wizard has five steps: CHOOSE AN AMI, INSTANCE DETAILS, CREATE KEY PAIR, CONFIGURE FIREWALL, and REVIEW. In the 'INSTANCE DETAILS' step, the 'Number of Instances' is set to 1, and the 'Instance Type' is set to 'Extra Large (m1.xlarge, 15 GiB)'. There is a checkbox for 'Launch as an EBS-Optimized instance (additional charges apply):' which is currently unchecked. Below this, there are two tabs: 'Launch Instances' (selected) and 'Request Spot Instances'. Under the 'Launch Instances' tab, there is a section titled 'Launch into:' with two radio buttons: 'EC2' (selected) and 'VPC'. Below the radio buttons, there is a dropdown menu for 'Availability Zone:' which is set to 'us-east-1a'. At the bottom of the wizard, there are 'Back' and 'Continue' buttons. The 'Continue' button is highlighted with a yellow arrow.

We don't need any “**Advanced Instance Options**,” so just press “continue.” And, we don't need to change the “**Storage Device Configuration**,” so press “continue” again.

Next, we will add a tag so we can distinguish our instance from everyone else in the course. Under the “Value” column, enter your name:



On the next page, choose “Create a new Key Pair”. Name the key pair with something you will remember and download the key to your local machine. Put it someplace safe, you will need it to access the instance from the terminal. **You will use this key every day you log onto the cloud, so put it in a folder where you can find it:**



Select the default security group:



You are ready to launch the instance:



Here is the result, once it is running:



Select the public domain name for the instance, shown on the bottom panel, in this example, **ec2-23-23-35-148.compute-1.amazonaws.com** each instance will have its own, slightly different domain name.

If you are using a Mac, you can now combine this domain name with the secure shell key you downloaded earlier to log into the instance that is now running on the cloud:



Note:

- 1. You must use user 'ubuntu' when logging in via ssh.**
- 2. Before you can use ssh, the key file you downloaded must have 600 permissions.**

On your local computer, you can execute within the terminal:

% chmod 600 <key_file_name>.pem

Setup your scratch space for use during the exercises. Execute the following commands from within the shell:

```
% sudo mkdir /mnt/working
```

```
% sudo chown ubuntu.ubuntu /mnt/working
```

Start up the web server:

```
% sudo /etc/init.d/apache2 start
```

If you are using a Windows machine, you need to get Putty, since Windows does not have a native terminal. Download Putty from the web:

<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

Download the Windows Installer version:



Double-click and follow the prompts to complete the installation. You will need to convert the key you downloaded from Amazon to a format that Putty can understand. The instructors will help you do this.

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ami-cc2ef3a5	ebs	971102534555/Neuchatel_Windows_JoinMap	Windows	Select
ami-d749c3be	ebs	971102534555/WME_JAN2013	Other Linux	Select
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