

VLDM Lecture 3 - Exercises

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1 Register on AWS

1. Go to <https://aws.amazon.com/console/>.
2. In the top right corner click 'Sign Up'.
3. If you have a regular Amazon account, login with those credentials, otherwise click 'I am a new user' and create the account.
4. Log in to the AWS Console.
5. In the top right corner, the leftmost button is your name. Click the drop-down menu and select 'Security credentials'.
6. Click the '+' next to 'Account Identifiers'.
7. Copy to clipboard your AWS Account ID. Paste it in a text editor and remove the two '-' signs. Copy it again to clipboard. (We need it on awseducate.)

2 Registering on awseducate

1. Go to <http://aws.amazon.com/education/awseducate/>.
2. Click on 'Apply Now'.
3. Click on 'Apply for AWS Educate for Students'.
4. Select 'I am a student', then click 'Ok'.
5. Fill in the following information:
 - Institution: Imperial College London
 - Country: United Kingdom
 - City: London
 - Field of study: Business and Management
 - First Name, Last Name, Email: Please use College Email (xyz@imperial.ac.uk).
 - AWS Account ID: Paste the copied ID from the last step of the previous section.

- Grade Level: Graduate.
- Graduation Year, Month.
- Promo Code: Leave Empty.
- Click 'Next'.

3 Using your awseducate credit

- Hopefully you will receive an email stating that your application is successful.
- In it, you will find a link to a code for free credit on AWS. Copy that code to clipboard.
- Go to <http://aws.amazon.com/education/awseducate/>.
- In the top right corner, the leftmost button is your name. Click the drop-down menu and select 'Billing & Cost Management'.
- Click 'Credits'.
- Paste the code you copied in the text box next to Promo Code, complete the security check and click 'Redeem'.
- Make sure you see a table with the credit in it.

4 Setup for next AWS exercises

You are free to do the next tutorials on any OS and any programming language you fancy. However, it will be easiest to follow the tutorials if you use Ubuntu (or some Debian-based distribution) and Python (2.7). Python is installed by default in Ubuntu.

Make sure you have pip installed:

```
sudo apt-get install python-pip
```

Test it in a terminal using:

```
pip -V
```

We use pip to install boto (python interface for AWS), awscli (command line tools for AWS), ipython (a better Python console) and jupyter (notebook application):

```
sudo apt-get install build-essential python3-dev
```

```
sudo pip install boto
```

```
sudo pip install awscli
```

```
sudo pip install ipython
```

```
sudo pip install jupyter
```

Test jupyter notebook with:

```
jupyter notebook
```

The next tutorial will be available next week as a jupyter notebook (html+ipynb), rather than pdf.

5 Troubleshooting

If Google doesn't help, email me: ct1810@imperial.ac.uk.