Cloud Computing Exercise #1

A. Create an AWS account

Needed: phone, credit card

1. Go to https://aws.amazon.com and click the “Create an AWS Account” button
2. Provide your login credentials for the account’s root user. You can use an online random password generator such as https://passwordsgenerator.net/ to generate a long and strong password.
3. Select “Personal account” and provide your contact information
4. Provide your credit card/payment details
5. Verify your identity by providing a security code via SMS or an automated voice call.
6. Choose your support plan; select the “Basic (Free)” option

B. Create an admin user.

1. Sign in to your account at https://console.aws.amazon.com/ (select “Root user”) and poke around a little bit.
2. Note your account ID (Account name/My Account) in your account settings.
3. Go to the IAM dashboard (Services/Security/IAM) and select “Users” and then “CreateUser”
4. Select a username and a password. Allow both management console access and programmatic access.
5. On the permissions page, select “Attach policies directly” and select “AdministratorAccess”.
6. You can optionally add a tag (key/value pair) to your new user (e.g. Key: Name, Value: My Admin User).
7. Review the settings and create the new user. You may also save the CSV file with your credentials (it has your account ID in it).

C. Set up a billing alarm

1. Click on your account name and select “**[Billing and Cost Management](https://us-east-1.console.aws.amazon.com/costmanagement/home" \l "/home)**”.
2. Select “Billing Preferences” under “Preferences and Settings”.
3. Make sure you can see that AWS Free Tier alerts are “delivered” to your email address or you can provide an alternative email address if you wish. You can also set up additional billing alerts if you would like to.
4. Save the preferences and sign out of your root account.

D. Log in as the admin user and create an EC2 key pair

1. Sign in to your account as the newly created non-root user at https://console.aws.amazon.com/ (select “IAM user”) and provide your account ID, user name and password. (Alternatively you can also use the console login URL provided in the new user’s credentials CSV file).
2. Go to the EC2 dashboard (Services/Compute/EC2) and select “Network Security/Key pairs” and select “Create a new key pair”.
3. Give a name to the key pair (e.g. mykey), select the .pem or .ppk format depending on the OS of your machine (Window users: select .ppk, Mac users: select .pem), and create the key pair. The new key pair should appear in the list of key pairs. The .pem or.ppk file will be automatically downloaded by your browser, so save it on your local machine at an easy to remember location.