

Assignment No 4 (B)

Aim: Deploy/Host your web application on AWS VPC or AWS Elastic Beanstalk.

Performance (3)	Understanding (1)	Regularity (1)	Total (5)	Sign of Staff

What is Cloud Computing?

Cloud computing is a term referred to storing and accessing data over the internet. It doesn't store any data on the hard disk of your personal computer. In cloud computing, you can access data from a remote server.

What is AWS?

The full form of AWS is Amazon Web Services. It is a platform that offers flexible, reliable, scalable, easy-to-use and, cost-effective cloud computing solutions.

AWS is a comprehensive, easy to use computing platform offered Amazon. The platform is developed with a combination of infrastructure as a service (IaaS), platform as a service (PaaS) and packaged software as a service (SaaS) offerings.

It is a secure cloud services platform, offering compute power, database storage, content delivery and other functionality to help businesses scale and grow.

In simple words AWS allows you to do the following things- Running web and application servers in the cloud to host dynamic websites.

History of AWS

- 2002- AWS services launched
- 2006- Launched its cloud products
- 2012- Holds first customer event
- 2015- Reveals revenues achieved of \$4.6 billion
- 2016- Surpassed \$10 billion revenue target
- 2016- Release snowball and snowmobile
- 2019- Offers nearly 100 cloud services
- 2021- AWS comprises over 200 products and services

Important AWS Services

Amazon Web Services offers a wide range of different business purpose global cloud-based products. The products include storage, databases, analytics, networking, mobile, development tools, enterprise applications, with a pay-as-you-go pricing model.

Applications of AWS services

Amazon Web services are widely used for various computing purposes like:

- Web site hosting
- Application hosting/SaaS hosting
- Media Sharing (Image/ Video)
- Mobile and Social Applications
- Content delivery and Media Distribution
- Storage, backup, and disaster recovery
- Development and test environments
- Academic Computing
- Search Engines

- Social Networking

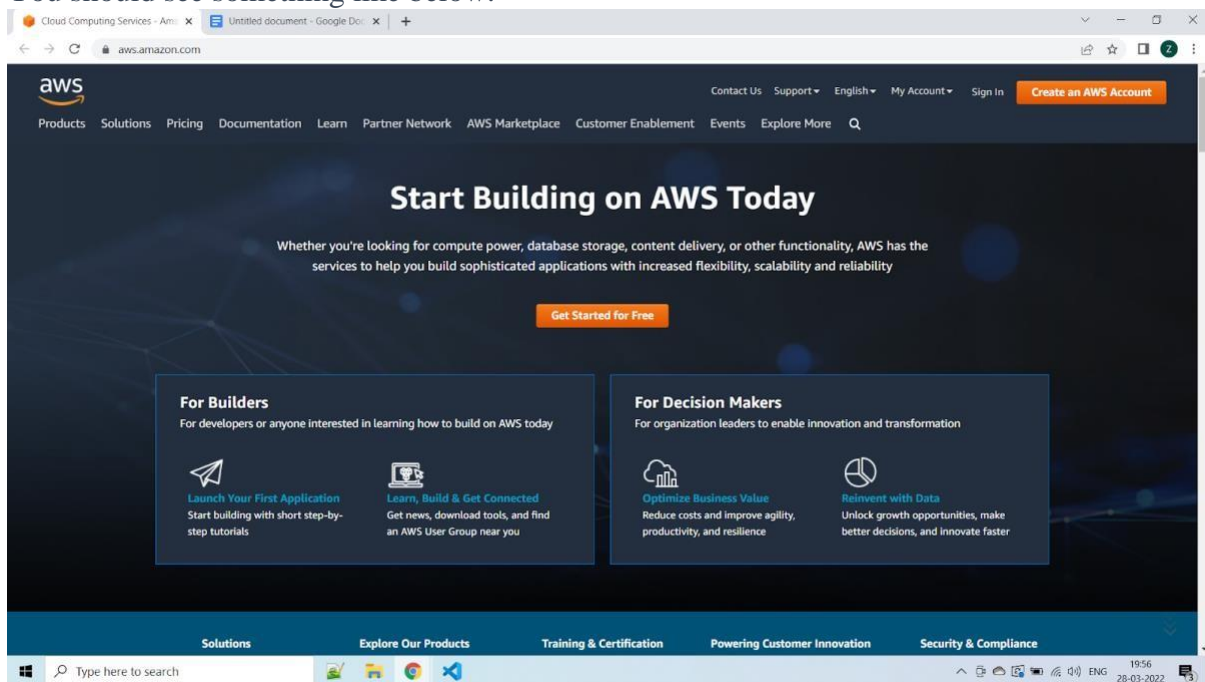
Creating an AWS Account is the first step you need to take in order to learn **Amazon Web Services**.

Steps to follow are as follows :

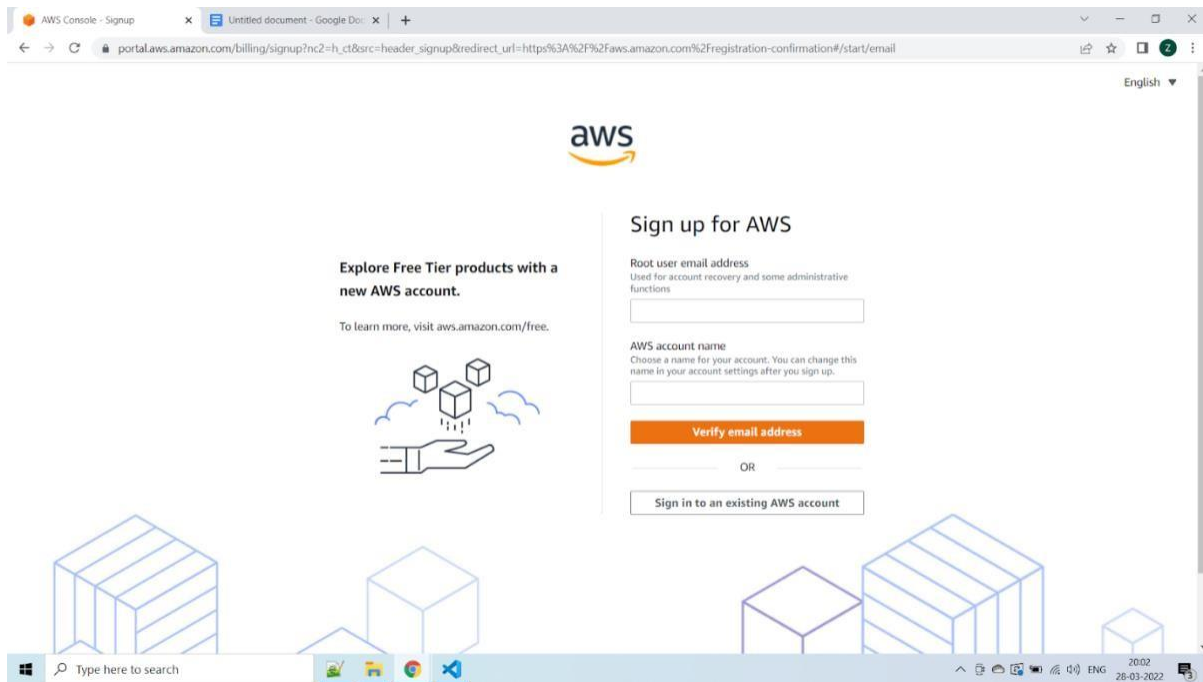
Step 1 – Visiting the Signup Page

Go to <https://aws.amazon.com>

You should see something like below:

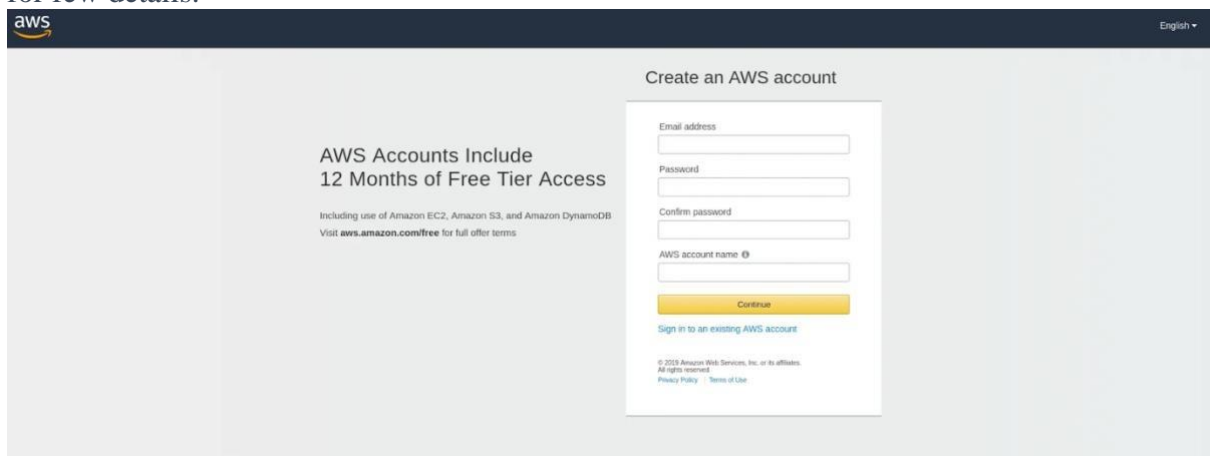


In order to continue, click the **Complete Sign Up** button in the middle of the screen or on the top right corner of the screen. You will see the below screen.



Step 2 – Entering User Details

After you have chosen to **Create a new AWS account**, you will see the below screen asking for few details.



You can fill up the details as per your requirements and click **Continue**.

Next you will be asked to fill up your contact details such contact number, country, address and so on. You should fill them up properly because your contact number is important for further steps.

The screenshot shows the 'Contact Information' step of the AWS account creation process. The AWS logo is in the top left, and 'English' is in the top right. The title 'Contact Information' is centered, with a note 'All fields are required' to its right. Below the title, a message says 'Please select the account type and complete the fields below with your contact details.' The form includes: 'Account type' with radio buttons for 'Professional' and 'Personal' (selected); 'Full name' with a text box containing 'Saurabh Dashora'; 'Phone number' with a text box; 'Country/Region' with a dropdown menu showing 'United States'; 'Address' with three stacked text boxes for street, apartment/suite/unit/building/floor, etc., and city; 'State / Province or region' with a dropdown menu; 'Postal code' with a text box; and a checkbox for 'Check here to indicate that you have read and agree to the terms of the AWS Customer Agreement'. At the bottom is a yellow 'Create Account and Continue' button.

After filling up the details, click on the **Create Account and Continue** button at the bottom of the form.

Step 3 – Filling up the Credit Card details

For **Creating an AWS Account**, you need to enter your **Credit Card** details.

The screenshot shows the 'Payment Information' step of the AWS account creation process. The AWS logo is in the top left, and 'English' is in the top right. The title 'Payment Information' is centered. Below the title, a message says 'Please type your payment information so we can verify your identity. We will not charge you unless your usage exceeds the AWS Free Tier Limits. Review frequently asked questions for more information.' There is a warning box with an information icon stating: 'As part of our card verification process we will charge INR 2 on your card when you click the "Secure Submit" button below. This will be refunded once your card has been validated. Your bank may take 3-5 business days to show the refund. Mastercard/Visa customers may be redirected to your bank website to authorize the charge.' The form includes: 'Credit/Debit card number' with a text box; 'Expiration date' with two dropdown menus showing '06' and '2019'; and 'Cardholder's name' with a text box.

After entering the details, click on **Secure Submit** button. It might take a while to process the request depending on your bank/credit card company servers.

Step 4 – Identity Confirmation

Once the credit card details are confirmed, you will need to complete the **Identity Confirmation** step. You will see the below screen:

aws

Confirm your identity

Before you can use your AWS account, you must verify your phone number. When you continue, the AWS automated system will contact you with a verification code.

How should we send you the verification code?

☒ Text message (SMS) ☐ Voice call

Country or region code

India (+91)

Cell Phone Number

Security check

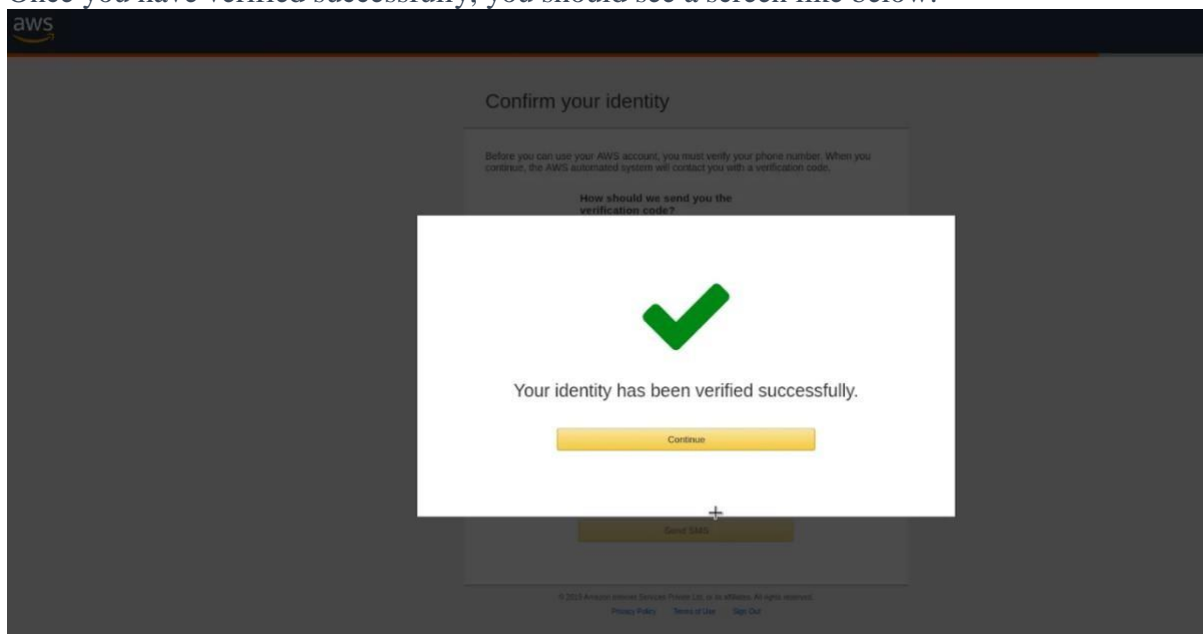
Y5785C

Type the characters as shown above

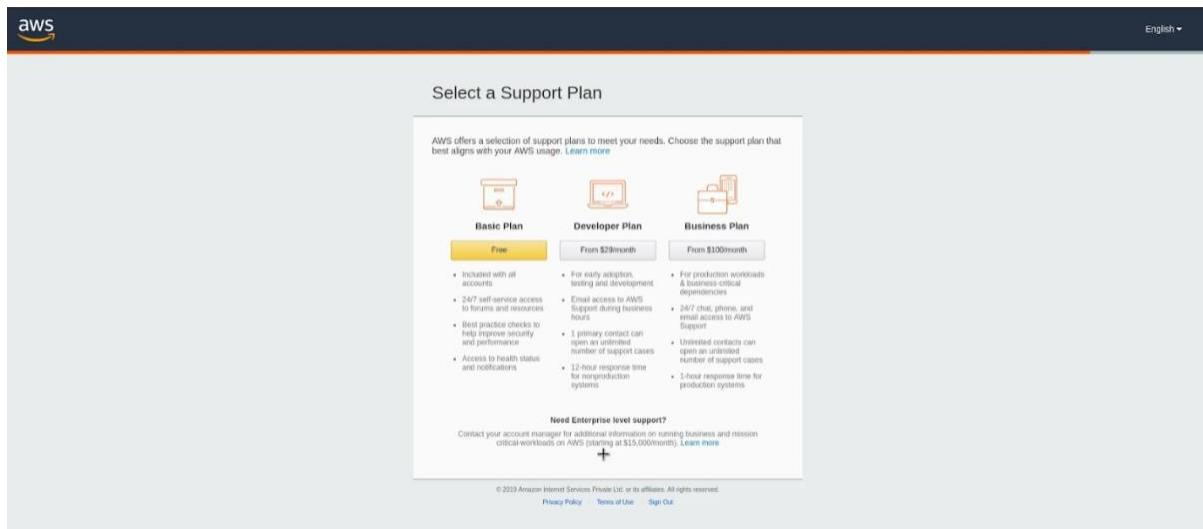
Send SMS

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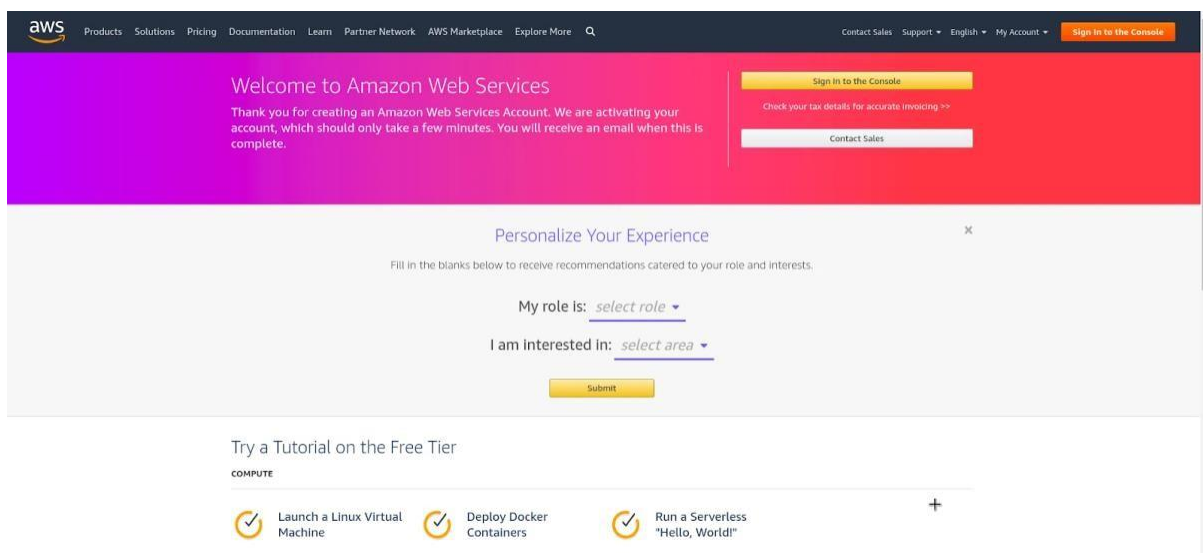
Once you have verified successfully, you should see a screen like below:



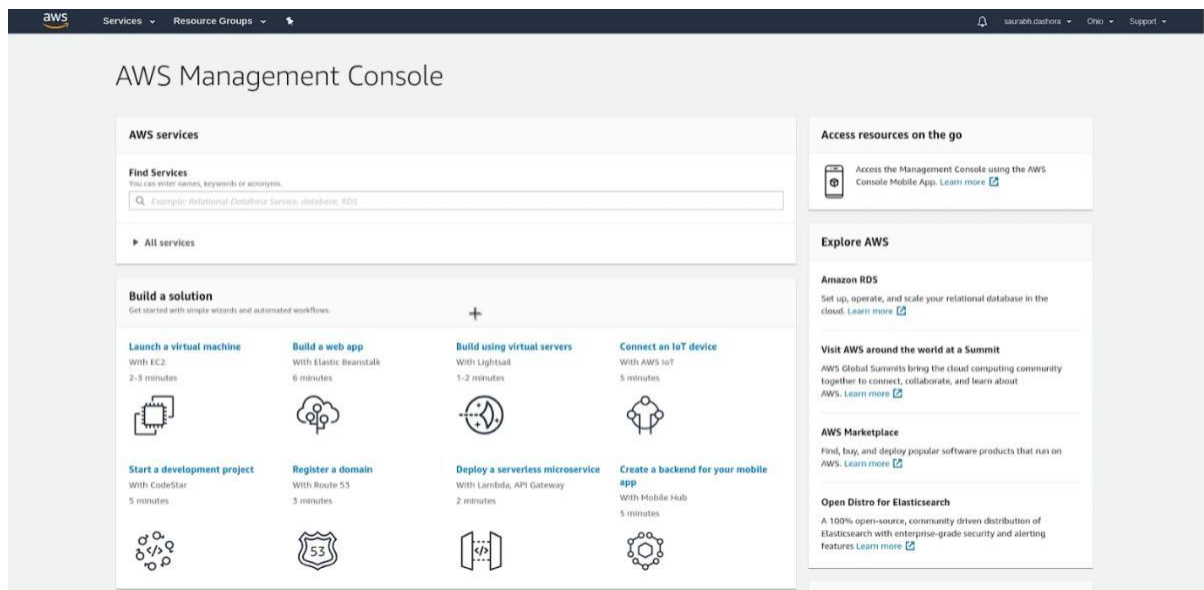
Step 5 – Selecting a Support Plan



Go for **Basic Plan**. It is Free of cost and great for learning purposes. The other plans are **Developer Plan** and a **Business Plan**. But both of them are paid options. Once you select your plan, you will see the below **Welcome** screen. From here on, you can Sign in to your **AWS Console**.



Finally, after logging in, you should be able to see the **AWS Management Console** as below:



If you have reached this far, you have successfully finished **Creating an AWS Account**.

Deployment Steps:

- Step 1: Launch a Windows Server Amazon EC2 instance.
- Step 2: Configure your source content to deploy to the Windows Server Amazon EC2 instance.
- Step 3: Upload your "hello, world!" ...
- Step 4: Deploy your Hello World application.
- Step 5: Update and redeploy your "hello, world!" ...
- Step 6: Clean up your "hello, world!"