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INSTITUTE OF INFORMATION TECHNOLOGY
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ADDING VALUE TO ENGINEERING
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PART B:

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 by 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) offering.

It is a secure cloud services platform, offering to 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 purposes global cloud-based products. The products include storage, databases, analytics, networking, mobile, development tools, and 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:
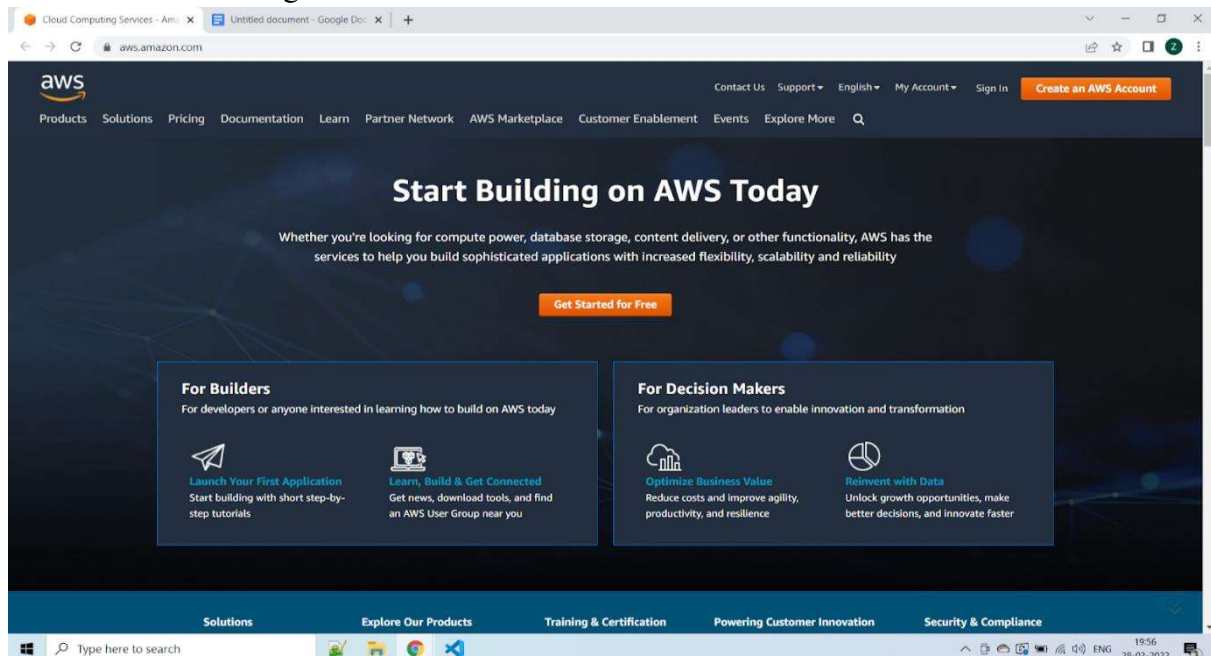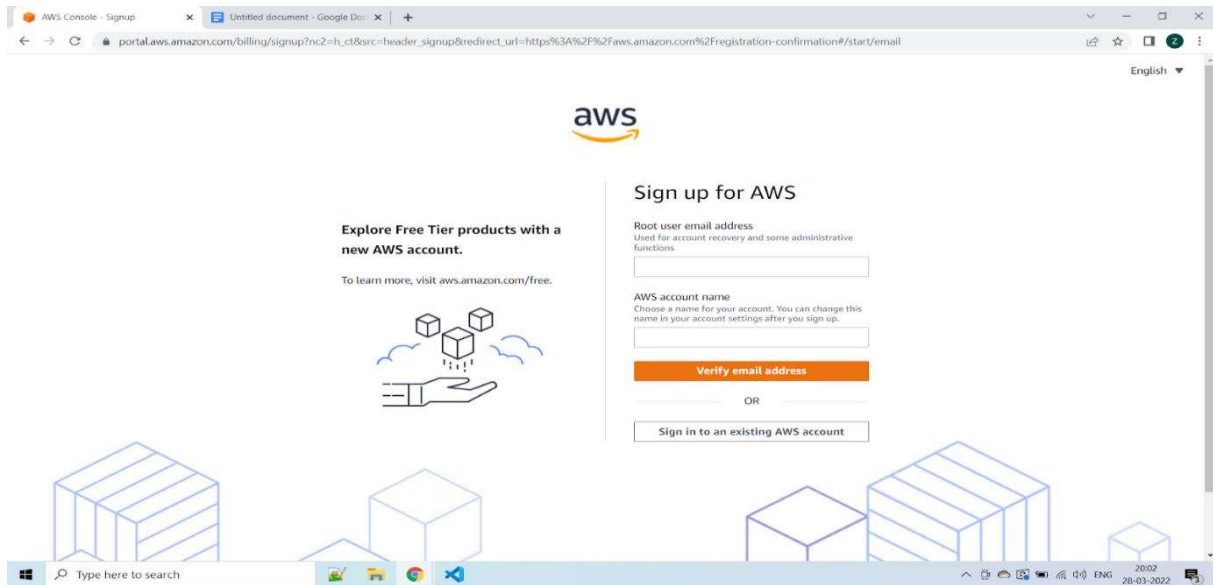- Websites hosting

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- 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 to learn Amazon Web Services. The steps to follow are as follows:

Step 1 – Visiting the Signup Page
Go to https://aws.amazon.com
You should see something like the below:

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.

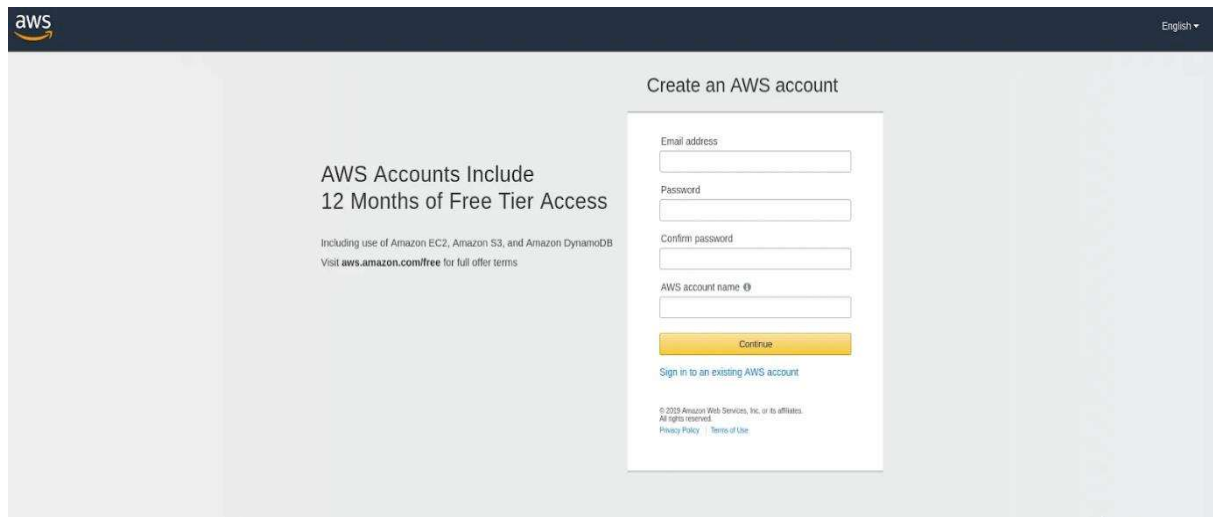![AISSMS Institute of Information Technology (IOIT) logo]
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Step 2 – Entering User Details

After you have chosen to create a new AWS account, you will see the below screen asking for a 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 as contact number, country, address, and so on. You should fill them up properly because your contact number is important for further steps.

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.

After entering the details, click on the Secure Submit button. It might take a while to process the request depending on your bank/credit card company servers.
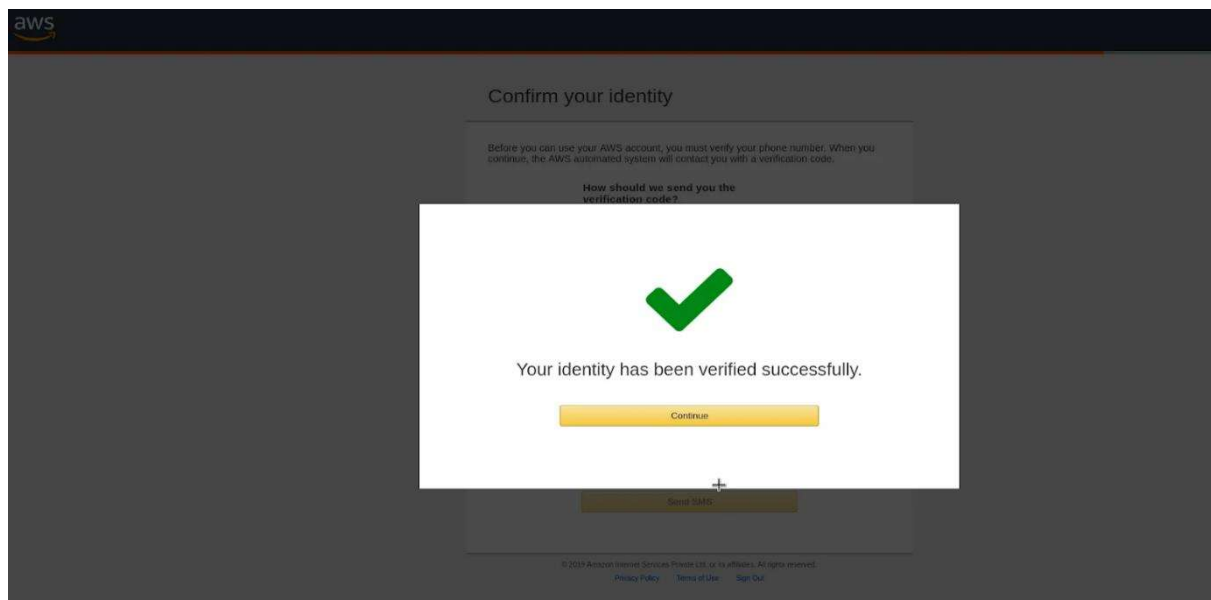
Step 4 – Identity Confirmation
Once the credit card details are confirmed, you will need to complete the Identity Confirmation step. You will see the below screen:

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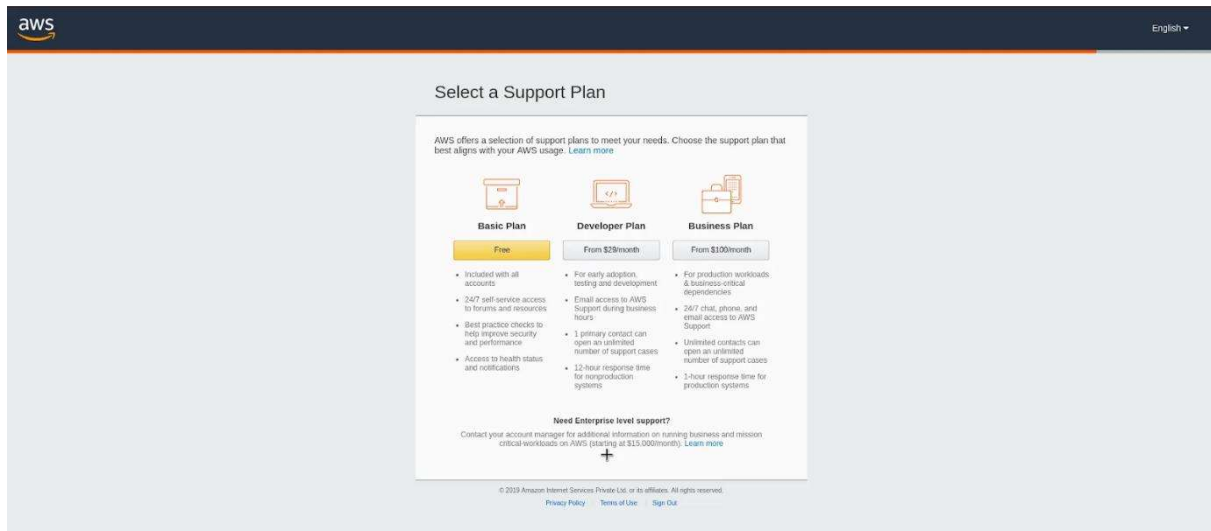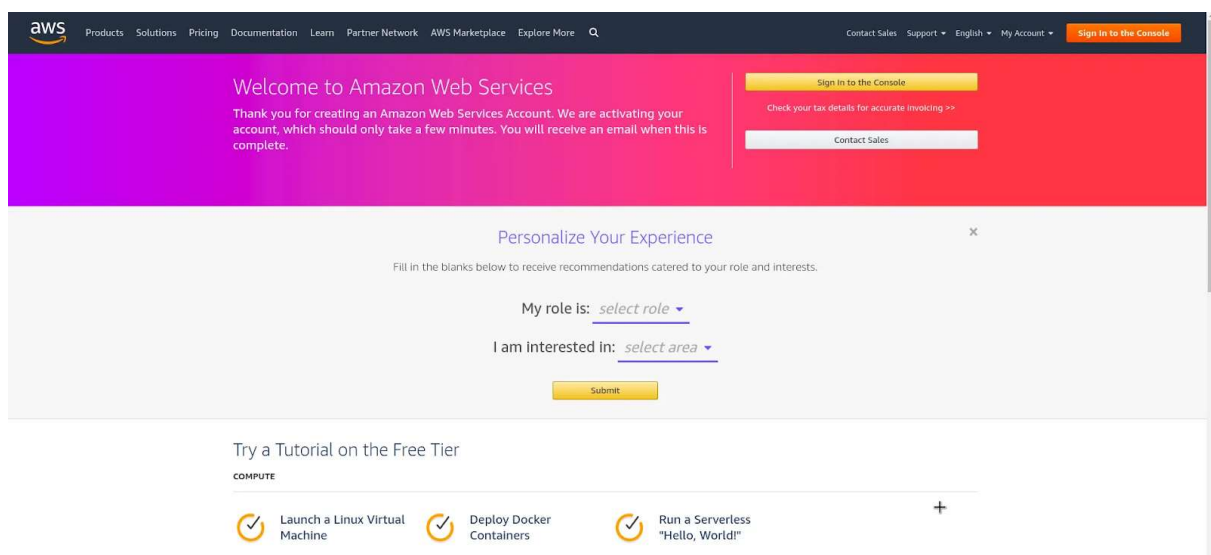

Step 5 – Selecting a Support Plan

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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.

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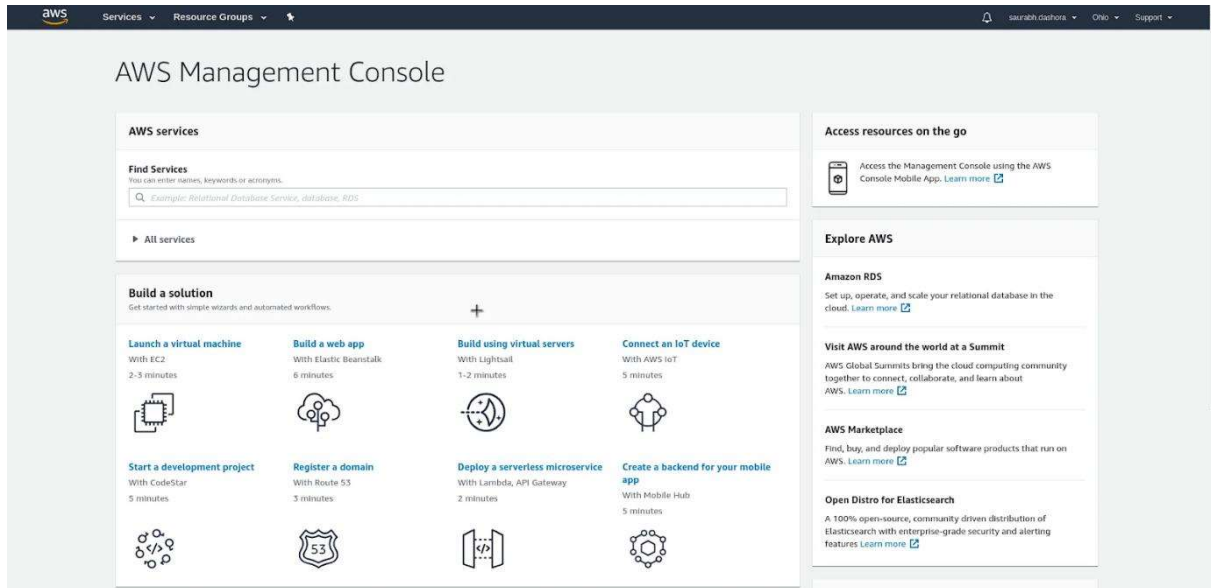**Finally, after logging in, you should be able to see the AWS Management Console as below:**

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!"