**Cloud Computing**

Session 2

Assignment 1 : Create a Free Tier AWS Account

* Understanding AWS Free Tier
* Cloud Infrastructure Services by Amazon
* Cloud Solutions by Amazon
* Benefits of AWS Free Tier Account

Understanding AWS Free Tier

The Amazon Web Services Free Tier offers a suite of Cloud Computing services which operate from 13 geographical regions across the world and available for 12 months from the Signup of a free tier AWS account. It enables us to get hands-on experience with AWS Cloud Products and Services within certain usage limits. Only one free tier Account can be created for an individual or organization under this offer otherwise the new account will be included in consolidated billing. It is a special pricing program under the AWS Customer agreement and only accounts created after October 20, 2010 are eligible for the offer. Standard rates will be charged for the use of AWS Services when the period of offer is completed or the application use exceeds the free tier limits.

Cloud Infrastructure Services by Amazon

As of 2016 AWS has more than 70 services, spanning a wide range, including compute, storage, networking, database, analytics, Enterprise applications, deployment, management, mobile, developer tools and tools for the Internet of things. The most central and best-known of these services are [Amazon Elastic Compute Cloud](https://en.wikipedia.org/wiki/Amazon_Elastic_Compute_Cloud), also known as "EC2", and [Amazon Simple Storage Service](https://en.wikipedia.org/wiki/Amazon_Simple_Storage_Service), also known as "S3".

Cloud Solutions by Amazon

# Cloud-based solutions of Amazon help you meet your business needs. It gives you opportunity to get your applications up and running faster while providing the same level of security that world class organizations prefer. You can deploy your solutions in the location of your customers since AWS provides resources around the world. With AWS Cloud a broad set of services, partners, and support options are easily available. The best among them are Cloud Website Hosting, backup and recovery, Data Archiving, Disaster Recovery, [big data](https://aws.amazon.com/big-data/what-is-big-data/) analytics, financial services, High Performance Computing, Digital marketing, Ecommerce Applications and Internet of Things.

Benefits of AWS Free Tier Account

### With A Free Tier Account, you can get services available for 12 months following your AWS [sign-up](https://portal.aws.amazon.com/gp/aws/developer/registration/index.html) date, as well as additional service offers that do not automatically expire at the end of your 12 month AWS Free Tier term. These include [Amazon EC2](https://aws.amazon.com/ec2/), [Amazon S3](https://aws.amazon.com/s3/), [Amazon EFS](https://aws.amazon.com/efs/), [Amazon RDS](https://aws.amazon.com/rds/), [AWS IoT](https://aws.amazon.com/iot/) and much more.

### In [Amazon EC2](https://aws.amazon.com/ec2/) you will get 750 hours per month of Linux, RHEL, or SLES t2.micro instance usage or 750 hours per month of Windows t2.micro instance usage.

### In [Amazon S3](https://aws.amazon.com/ec2/) there is 5 GB of Standard Storage along with 20,000 Get Requests and 2,000 Put Requests. [Amazon EFS](https://aws.amazon.com/efs/) provides 5 GB of Storage which offers a simple interface that allows you to create and configure file systems quickly and easily.

### [Amazon RDS](https://aws.amazon.com/ec2/) provides 750 Hours of Amazon RDS Single-AZ db.t2.micro Instance usage and 20 GB of DB Storage and additional 20 GB for Backups.

### With [AWS IoT](https://aws.amazon.com/iot/) you can connect devices securely and interact with cloud applications and other devices. You can get 250,000 Messages (published or delivered) per month with this option.

### Apart from this in Free Tier, you can have Infrastructure Software like CentOS and Developer Tools such as Git and Business Softwares like Magento. There are some Non-expiring Offers such as Amazon DynamoDB, Amazon Simple Workflow Service and Amazon Cognito.

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