



Department of Computer Engineering

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|--------------------------------|--------------------|--------|
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CCL Presentation

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Introduction

- NewsIN-A News Summarizer And Analyzer is a website application designed to help users read news without any add interruptions and help him read all kinds of news all at the same place.
- It has been developed using Python



Problem Statement

In the current world situation when there is a rapid increase in technology, the data on the World Wide Web is increasing at a tremendous rate. However due to the hectic schedule of the people and an intense amount of news available on various different websites it becomes difficult for people to be daily updated with the knowledge of the surroundings. Also as the web is getting developed on a daily basis the news which might get surfaced on the web may not provide an overview of the news . We are not able to analyze what news should be read.



Description

- Cloud services used in the project:
- **Amazon Elastic Compute Cloud (EC2)** is a web service that provides resizable computing capacity in the cloud. It is part of Amazon Web Services (AWS), which is a collection of cloud computing services that make up the on-demand computing platform offered by Amazon.
- **Amazon S3 (Simple Storage Service)** is a cloud-based object storage service offered by Amazon Web Services (AWS). It allows users to store and retrieve large amounts of data from anywhere on the web, at any time, with virtually unlimited capacity.



Implementation

The screenshot displays the AWS Management Console interface for launching an EC2 instance. The browser tabs at the top include 'Deploy a Django web app on Amazon EC2', 'yeshwanthlm/django-on-ec2: A...', 'Lab 3 - Introduction to Amazon...', and 'Launch an instance | EC2 Manag...'. The address bar shows the URL 'us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:'. The AWS logo and 'Services' link are in the top left. The main navigation pane on the left shows 'EC2 > Instances > Launch an instance'. The main content area is titled 'Launch an instance' with an 'Info' link. Below the title is a brief description: 'Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.' The configuration section is divided into two main parts: 'Name and tags' and 'Application and OS Images (Amazon Machine Image)'. The 'Name and tags' section has a 'Name' field with the value 'Server1' and an 'Add additional tags' link. The 'Application and OS Images' section has a search bar with the placeholder text 'Search our full catalog including 1000s of application and OS images'. Below the search bar are tabs for 'Recents' and 'Quick Start'. Under the 'Quick Start' tab, there are buttons for 'Amazon Linux', 'macOS', 'Ubuntu' (which is selected), 'Windows', 'Red Hat', and 'S'. The right-hand side of the console shows a 'Summary' section with the following details: 'Number of instances' set to 1, 'Software Image (AMI)' as 'Canonical, Ubuntu, 22.04 LTS, ...read more' with ID 'ami-007855ac798b5175e', 'Virtual server type (instance type)' as 't2.micro', 'Firewall (security group)' as 'New security group', and 'Storage (volumes)' as '1 volume(s) - 8 GiB'. A blue information box at the bottom of the summary states: 'Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month. 30 GiB of EBS storage.' At the bottom of the summary are 'Cancel', 'Launch instance' (in an orange button), and 'Review commands' links. The footer of the console shows 'CloudShell', 'Feedback', 'Language', and copyright information: '© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences'.

Lab 3 - Introduction to Amazon I x

Connect to instance | EC2 Manag x

New Tab x +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-06c8c135b9897dc75

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aws Services Search [Alt+S]

N. Virginia voclabs/user2014549=elshasaini2@gmail.com @ 7952-7245-6601

☰

EC2 > Instances > i-06c8c135b9897dc75 > Connect to instance

Connect to instance Info

Connect to your instance i-06c8c135b9897dc75 (server1) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-06c8c135b9897dc75 (server1)

Public IP address

54.167.44.252

User name

Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ubuntu.

ubuntu

Note:

In most cases, the default user name, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

Connect

CloudShell Feedback Language

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Lab 3 - Introduction to Amazon | x

Connect to instance | EC2 Manag x

EC2 Instance Connect x

How to install pip in Python 3 on x

python3 -m streamlit run filenam x

+

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c8c135b9897dc75&osUser=ubuntu®ion=us-east-1&ssh...

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aws Services Search [Alt+S]

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```
-rw-r--r-- 1 root root 18514 Apr  9 11:38 analyzer1.xlsx
-rw-r--r-- 1 root root 10856 Apr  9 11:38 analyzer.xlsx
-rw-r--r-- 1 root root    49 Apr  9 11:38 README.md
drwxr-xr-x 2 root root  4096 Apr  9 11:38 Meta
-rw-r--r-- 1 root root 14106 Apr  9 11:38 App.py
root@ip-172-31-90-75:/home/ubuntu/NewsIN# python3 -m streamlit run App.py

Collecting usage statistics. To deactivate, set browser.gatherUsageStats to False.

You can now view your Streamlit app in your browser.

Network URL: http://172.31.90.75:8501
External URL: http://54.167.44.252:8501

^C Stopping...
root@ip-172-31-90-75:/home/ubuntu/NewsIN# python3 -m streamlit run App.py

Collecting usage statistics. To deactivate, set browser.gatherUsageStats to False.

You can now view your Streamlit app in your browser.

Network URL: http://172.31.90.75:8501
External URL: http://54.167.44.252:8501
```

i-06c8c135b9897dc75 (server1)

PublicIPs: 54.167.44.252 PrivateIPs: 172.31.90.75

CloudShell Feedback Language

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Lab 3 - Introduction to Amazon E...

Instances | EC2 Management Con...

EC2 Instance Connect

How to install pip in Python 3 on...

54.167.44.252

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

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Services

Search

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New EC2 Experience

Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone |
|-------------------------------------|--------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|
| <input type="checkbox"/> | Bastion Host | i-0513b798a62ab41c2 | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1a |
| <input checked="" type="checkbox"/> | server1 | i-06c8c135b9897dc75 | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1a |

Instance: i-06c8c135b9897dc75 (server1)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Security details

IAM Role

Owner ID

Launch time

-

795272456601

Sun Apr 09 2023 16:59:15 GMT+0530 (India Standard Time)

Security groups

sg-083769e5eb0c48947 (launch-wizard-1)

Inbound rules

Filter rules

CloudShell

Feedback

Language

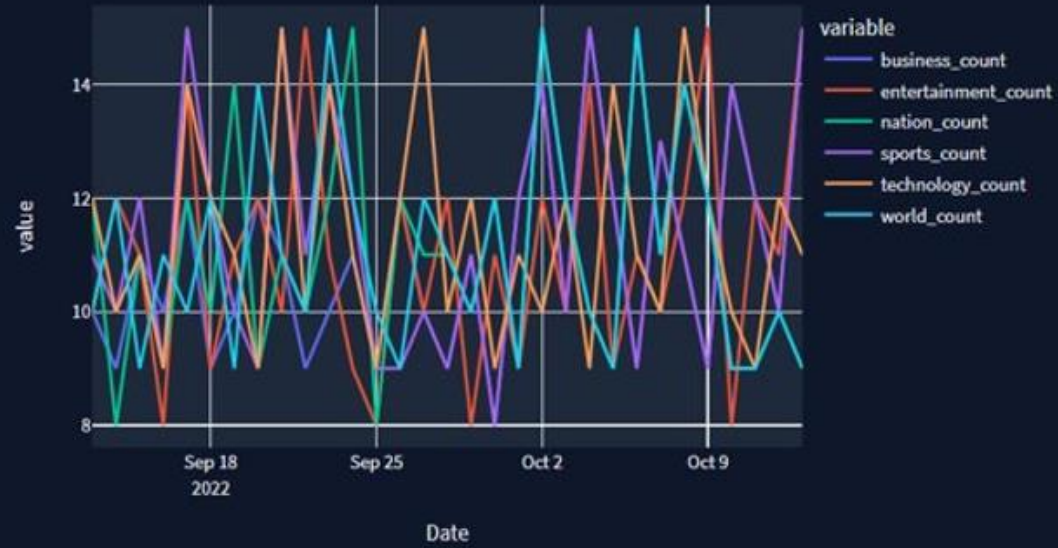
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Line Graph



Select your Category

--Select--

--Select--

Trending 🔥 News

Favourite 💙 Topics

Search 🔍 Topic

Select your Category

Favourite  Topics

Choose your favourite Topic

Choose your favourite Topic

WORLD

Number of News:

5



5

15

World



- 2022-09-13T00:00:00
- 2022-09-23T00:00:00
- 2022-10-02T00:00:00
- 2022-10-06T00:00:00
- 2022-09-20T00:00:00
- 2022-10-08T00:00:00
- 2022-09-14T00:00:00
- 2022-09-18T00:00:00
- 2022-09-24T00:00:00
- 2022-09-27T00:00:00
- 2022-09-30T00:00:00
- 2022-10-03T00:00:00
- 2022-10-09T00:00:00
- 2022-09-16T00:00:00

Conclusion

- In this project, we were able to accurately summarize the news and show the data on the User Interface. News was shown on the application according to the particular domain that was chosen, and many additional features were also available to assist the user acquire accurate information. The data has been shown in diagrammatic fashion using a variety of graphics.
- The user was able to analyze the global condition with the aid of these graphs. Deploying a news website on Amazon Elastic Compute Cloud (EC2) provides a reliable, scalable, and cost-effective way to offer high-quality news coverage to readers.
- Understanding the different cloud services available in AWS.
- Learning to deploy an application in the cloud.
- Knowledge of DevOps practices.
- Familiarity with AWS console and CLI.



Thank You!
