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Department of Computer Science & Engineering
Week-wise Internship Report Academic Year 2019-20

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Name of Mentor: Padmapani Tribhuvan mam

Detailed name of Internship (Organization/Online platform/Training Institute): Indian OpenSource Community.

Duration of Internship (In weeks): 5/6 weeks

Date of Joining the Internship: 13/june/2020

Date of Completion of Internship: 18/july2020

Technology / Platform on Which Working: cloud (aws, openstack, google cloud)

Brief Report of Week-4 (Minimum 100 Words):

Day 1 (18 July, 11:00am-02:00pm)

Google Cloud Platform (GCP), offered by Google, is a suite of cloud computing services that runs on the same infrastructure that Google uses internally for its end-user products, such as Google Search, Gmail and YouTube. Alongside a set of management tools, it provides a series of modular cloud services including computing, data storage data analytics and machine learning.

Registration requires a credit card or bank account details.

Google Cloud Platform provides infrastructure as a service, platform as a service, and serverless computing environments.

Google Cloud Platform is a part of Google Cloud, which includes the Google Cloud Platform public cloud infrastructure, as well as G Suite, enterprise versions of Android and Chrome OS, and application programming interfaces (APIs) for machine learning and enterprise mapping services.

Day2(19 july,11:00am–02:00pm)

Products which comes under cloud platform as in GCP 90 different products comes under it he explained about four as given in screenshots

Compute:

- App Engine - Platform as a Service to deploy Java, PHP, Node.js, Python, C#, .Net, Ruby and Go applications.
- Compute Engine - Infrastructure as a Service to run Microsoft Windows and Linux virtual machines.
- Kubernetes Engine (GKE) or GKE on-prem offered as part of Anthos platform [5][6] - Containers as a Service based on Kubernetes.
- Cloud Functions - Functions as a Service to run event-driven code written in Node.js, Python, or Go.
- Cloud Run - Compute execution environment based on Knative.[7] Offered as Cloud Run (fully managed or as Cloud Run for Anthos. Storage
- Cloud Storage - Object storage with integrated edge caching to store unstructured data.
- Cloud SQL - Database as a Service based on MySQL and PostgreSQL.
- Cloud Big table - Managed NoSQL

Storage:

- Cloud Storage - Object storage with integrated edge caching to store unstructured data.
- Cloud SQL - Database as a Service based on MySQL and PostgreSQL.
- Cloud Bigtable - Managed NoSQL database service.
- Cloud Spanner - Horizontally scalable, strongly consistent, relational database service.
- Cloud Datastore - NoSQL database for web and mobile applications.
- Persistent Disk - Block storage for Compute Engine virtual machines.
- Cloud MemoryStore - Managed in-memory data store based on Redis.
- Local SSD: High-performance, transient, local block storage.
- Filestore: High-performance file storage for Google Cloud users.

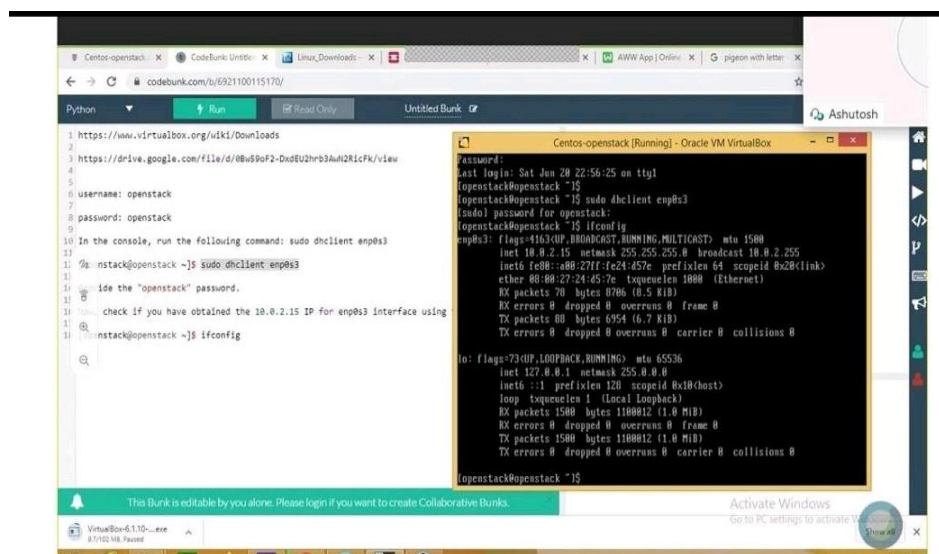
Big Data:

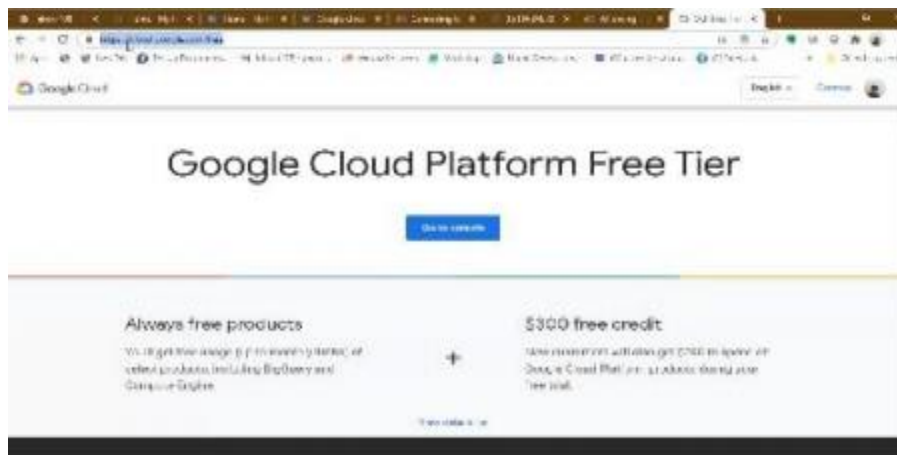
- BigQuery - Scalable, managed enterprise data warehouse for analytics.
- Cloud Dataflow - Managed service based on Apache Beam for stream and batch data processing.
- Cloud Dataproc - Big data platform for running Apache Hadoop and Apache Spark jobs.
- Cloud Composer - Managed workflow orchestration service built on Apache Airflow.
- Cloud Datalab - Tool for data exploration, analysis, visualization and machine learning. This is a fully managed Jupyter Notebook service.
- Cloud Dataprep - Data service based on Trifacta to visually explore, clean, and prepare data for analysis.
- Cloud Pub/Sub - Scalable event ingestion service based on message queues.
- Cloud Data Studio - Business intelligence tool to visualize data through dashboards and reports.

Machine learning:

- Cloud AutoML - Service to train and deploy custom machine, learning models. As of September 2018, the service is in Beta.
- Cloud Machine Learning Engine - Managed service for training and building machine learning models based on mainstream frameworks.
- Cloud Translation API - Service to dynamically translate between thousands of available language pairs
- Cloud Vision API - Image analysis service based on machine learning
- Cloud Video Intelligence - Video analysis service based on machine learning

Screenshots:





Learning Outcome for Week IV:

- Google cloud platform
- GCP products
- Use cases about it