



Experiment no. 1

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Branch: CSE-IOT
Semester: 6th Sem
Subject: CCIoT Lab

UID: 19BCS4525
Sec/Grp: 1/A
Date: 09/02/2022
Code: CSD-387

1. Aim/Overview of the practical:

Hands on Lab: Creating IBM Cloud account

2. Task to be done:

To access the resources and services that the IBM Cloud provides, we need an IBM Cloud account.

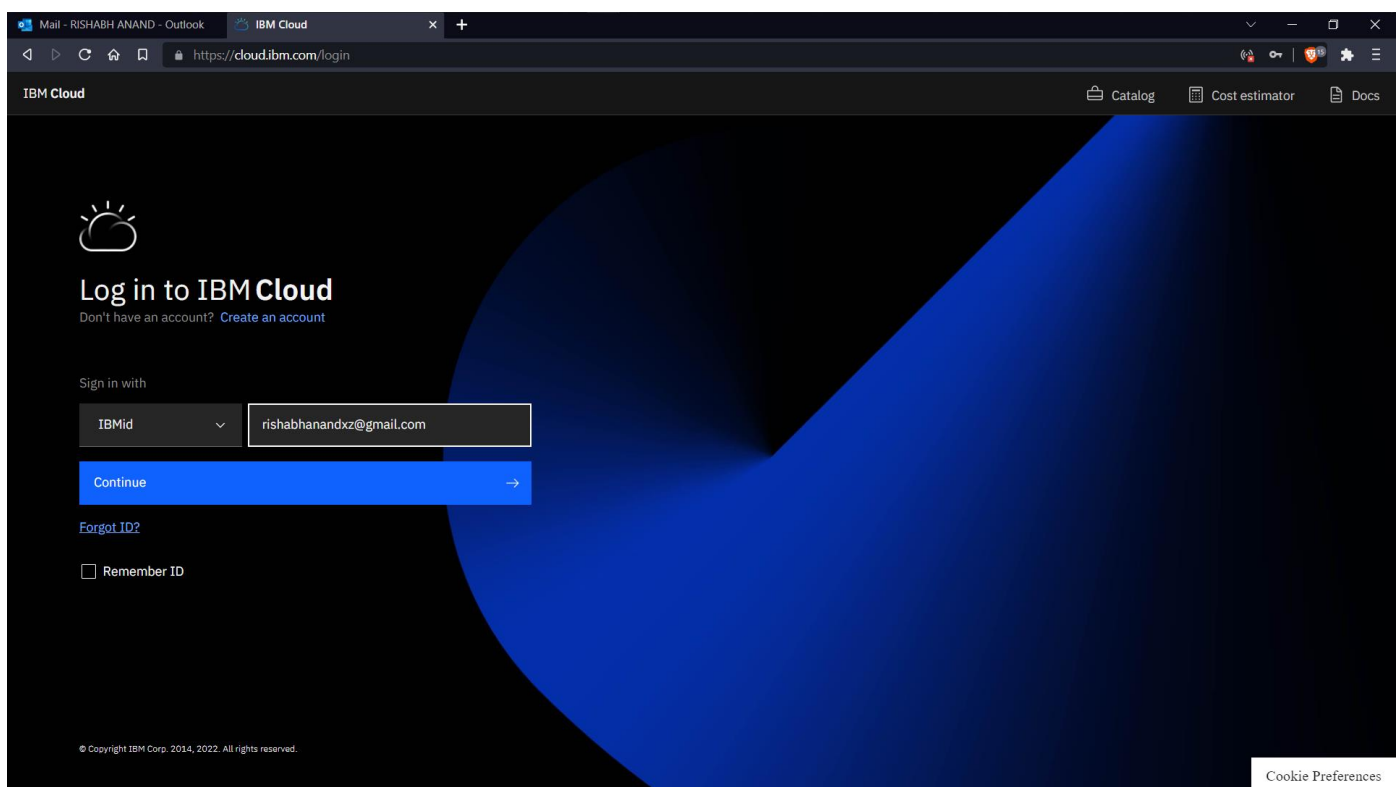
We have to create our IBM Cloud account in this practical and create one cluster.

3. Algorithm/Flowchart:

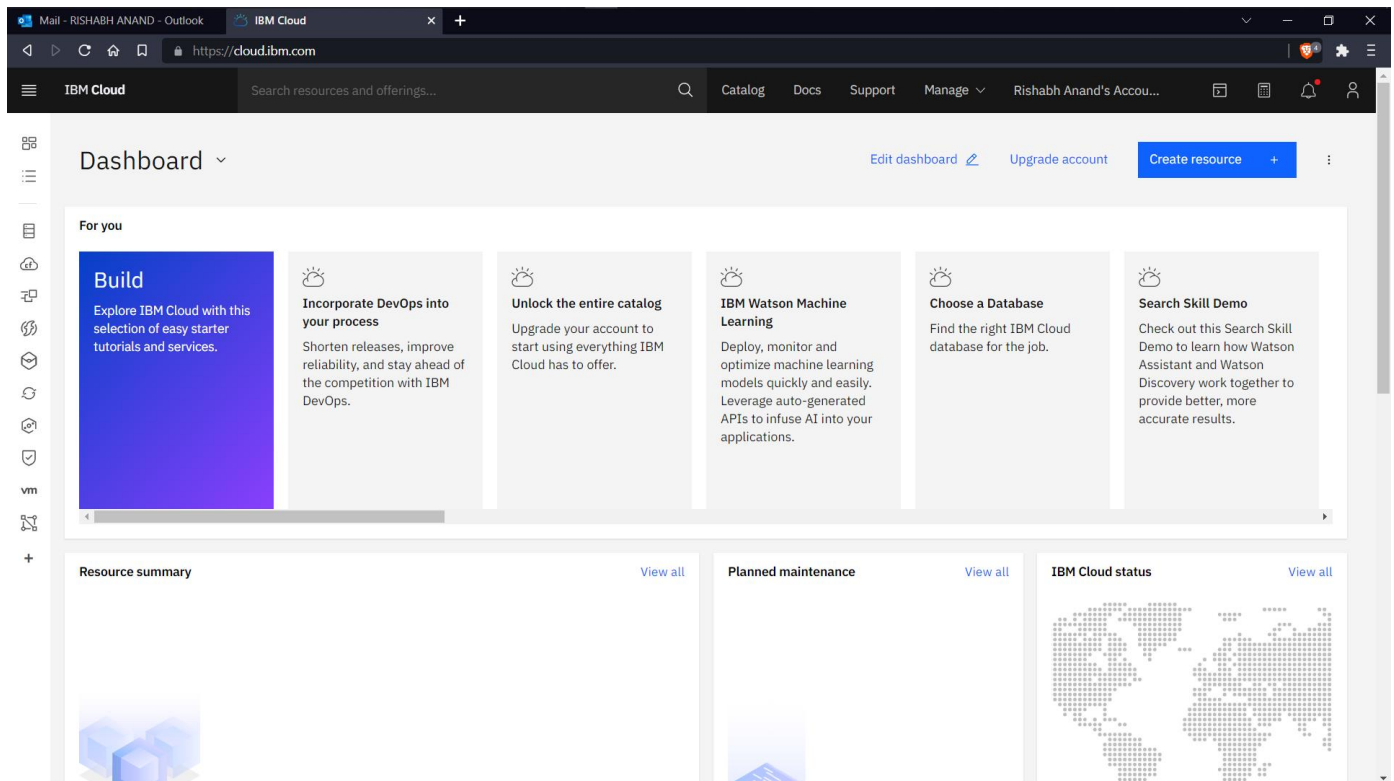
N/A

4. Steps for experiment/practical:

1. Go to: <https://cloud.ibm.com/registration/trial> to create a trial account on IBM Cloud.
2. You will be directed to your login page. Login with your username



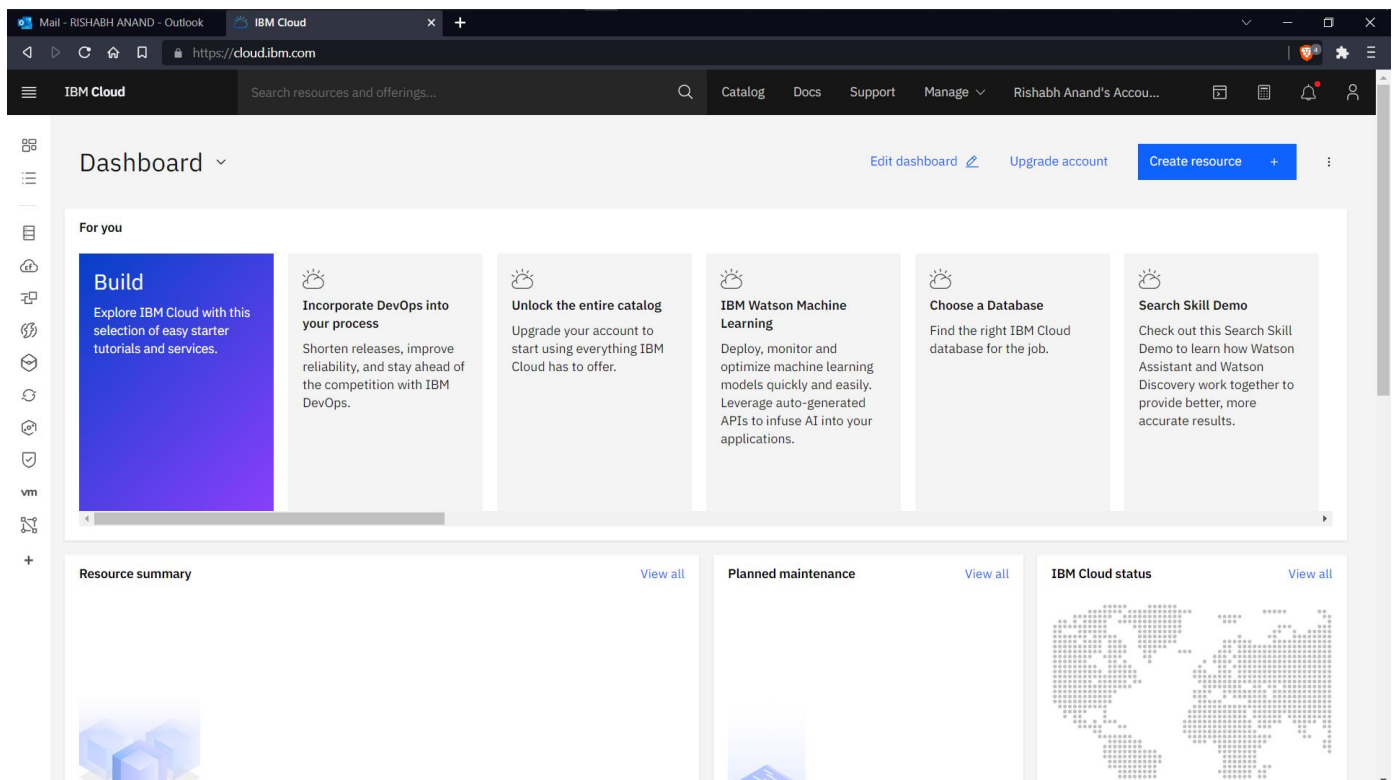
3. After that you will be directed to your dashboard, now explore it. Done!



The screenshot shows the IBM Cloud dashboard in a web browser. The browser tab is labeled "IBM Cloud" and the address bar shows "https://cloud.ibm.com". The dashboard header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Docs, Support, and Manage. The user's account name "Rishabh Anand's Accou..." is visible. The main content area is titled "Dashboard" and features a "For you" section with six cards: "Build" (Explore IBM Cloud with this selection of easy starter tutorials and services.), "Incorporate DevOps into your process" (Shorten releases, improve reliability, and stay ahead of the competition with IBM DevOps.), "Unlock the entire catalog" (Upgrade your account to start using everything IBM Cloud has to offer.), "IBM Watson Machine Learning" (Deploy, monitor and optimize machine learning models quickly and easily. Leverage auto-generated APIs to infuse AI into your applications.), "Choose a Database" (Find the right IBM Cloud database for the job.), and "Search Skill Demo" (Check out this Search Skill Demo to learn how Watson Assistant and Watson Discovery work together to provide better, more accurate results.). Below the "For you" section are three panels: "Resource summary" (with a "View all" link), "Planned maintenance" (with a "View all" link), and "IBM Cloud status" (with a "View all" link and a world map visualization).

5. Output: Image of sample output to be attached here

- Your IBM Cloud account is created





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- Go to navigation-> Kubernetes -> Clusters.
- Create one new free cluster with geography as Asia Pacific and worker zone as Chennai01.

Kubernetes cluster

Create | About

Plan details

Learn more about the differences between plans in our [docs](#).

Pricing plan

Standard

Orchestration service

Select the [container platform type](#) and version for your cluster. For more information about versions, including links to the container platform community release notes, [see the docs](#).

Kubernetes 1.21.9

Infrastructure

Choose which network and compute environment to run your cluster on. [Learn more about the differences](#).

Classic Run your cluster with native subnet and VLAN networking on our classic

VPC Create a fully customizable, software-defined virtual network with superior

Summary United States

Kubernetes cluster

Worker nodes \$0.88/hr
b3c.4x16 - 4 vCPUs 16GB RAM

Integrations

Activity tracking \$1.50/GB-mo
activitytracker-tokyo-rg - 7 day Event Search

Logging \$1.50/GB-mo
logs-tokyo-s1 - 7 day Log Search

Monitoring \$0.05/GB-mo
metrics-tokyo-Gv - Graduated Tier

Total estimated cost \$635.04/mo

Additional charges for networking and bandwidth might apply.
Actual monthly total will vary with [tiered pricing](#).
Estimate does not include costs for integrations.

[Upgrade to create](#)

[Add to estimate](#)



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https://cloud.ibm.com/kubernetes/catalog/create

IBM Cloud

Search resources and offerings...

Catalog

Docs

Support

Manage

Rishabh Anand's Account

Location

Choose your location and configure your VLANs. [Learn more about this.](#)

Geography

Asia Pacific

Availability

Single zone

Worker zone

Chennai 01

Worker pool

Set up a worker pool with the flavor and number of worker nodes that you want to run your first workload. At any time later, you can add more worker pools with different flavors, or resize your worker pools to fit the resource needs of your workloads.

Virtual - shared, Ubuntu 18

4 vCPUs

16 GB Memory

\$0.29/hr Cost

Change flavor

Worker nodes per zone

3

x 1 zone

= 3 workers total

Integrations

Get more from your cluster by connecting integrations.

3/3 Configured

Activity tracking

View and track changes across your applications and infrastructure. [Learn more](#)

Instance

Create a new instance

Summary

United States

Kubernetes cluster

Worker nodes

\$0.88/hr

b3c.4x16 - 4 vCPUs 16GB RAM

Integrations

Activity tracking

\$1.50/GB-mo

activitytracker-tokyo-rg - 7 day Event Search

Logging

\$1.50/GB-mo

logs-tokyo-s1 - 7 day Log Search

Monitoring

\$0.05/GB-mo

metrics-tokyo-Gv - Graduated Tier

Total estimated cost

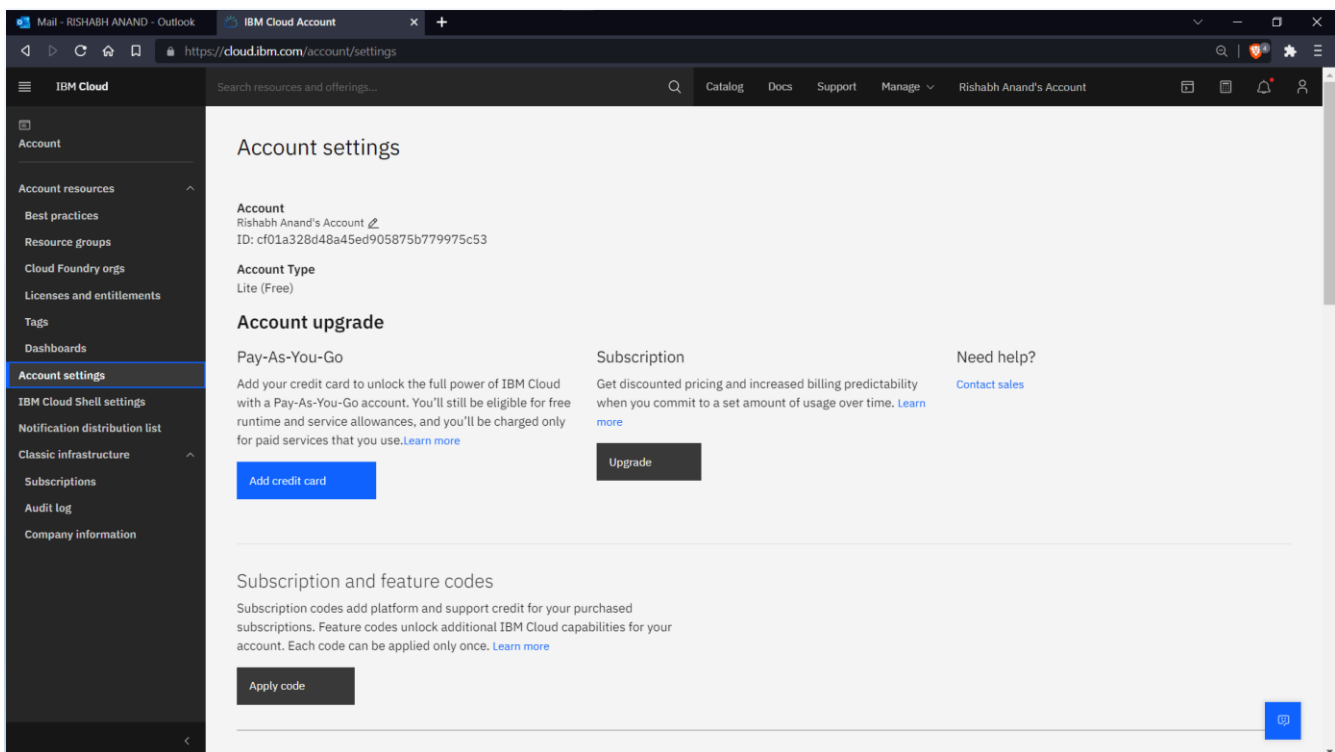
\$635.04/mo

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Upgrade to create

Add to estimate

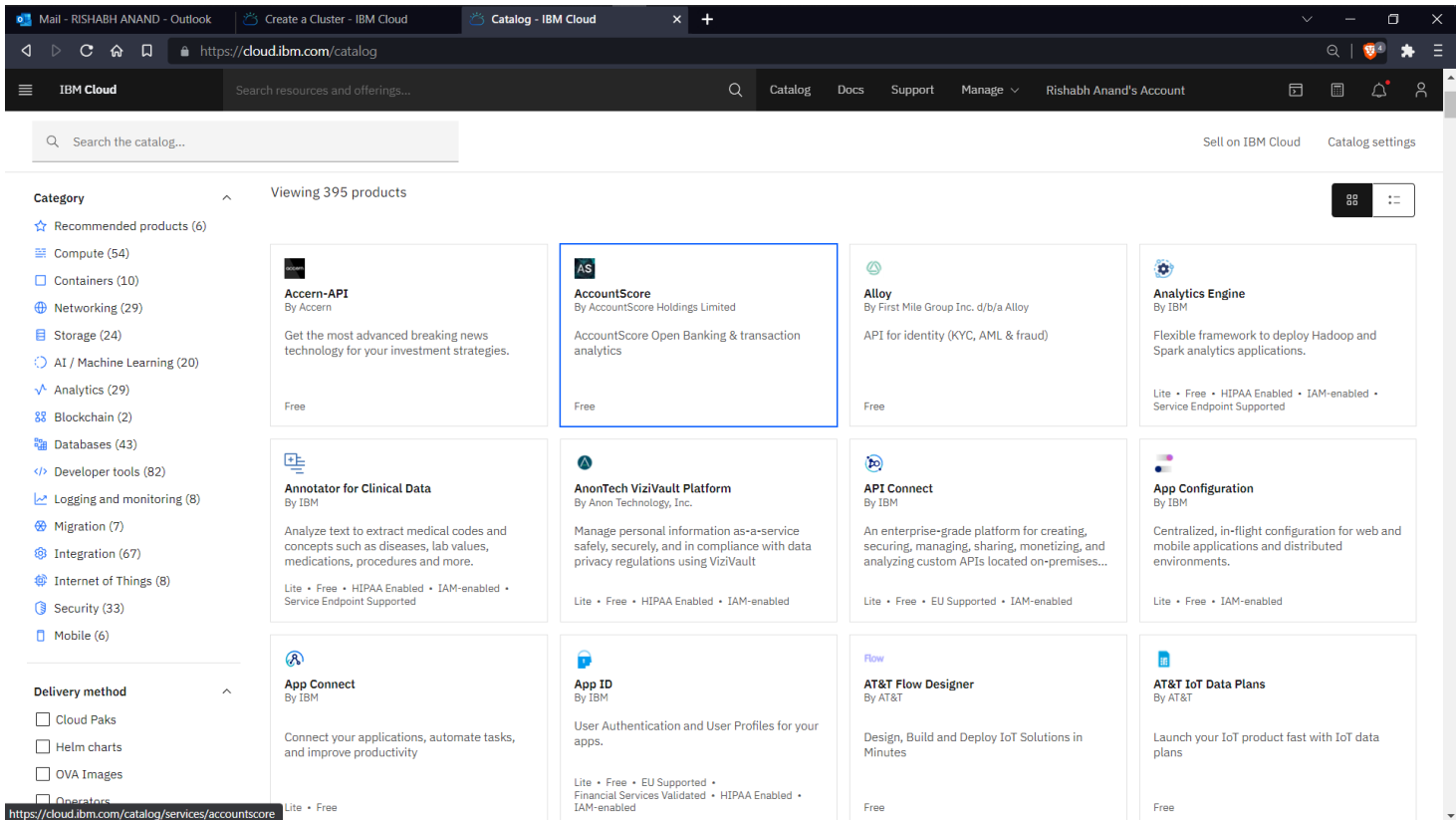
- Go to Account-> Account Settings-> you can see your account id, name and account type.



The screenshot shows the IBM Cloud Account Settings page. The left sidebar contains a navigation menu with options like Account, Account resources, Best practices, Resource groups, Cloud Foundry orgs, Licenses and entitlements, Tags, Dashboards, Account settings (highlighted), IBM Cloud Shell settings, Notification distribution list, Classic infrastructure, Subscriptions, Audit log, and Company information. The main content area is titled 'Account settings' and displays the following information:

- Account**: Rishabh Anand's Account, ID: cf01a328d48a45ed905875b779975c53
- Account Type**: Lite (Free)
- Account upgrade**: Pay-As-You-Go. Add your credit card to unlock the full power of IBM Cloud with a Pay-As-You-Go account. You'll still be eligible for free runtime and service allowances, and you'll be charged only for paid services that you use. [Learn more](#). [Add credit card](#)
- Subscription**: Get discounted pricing and increased billing predictability when you commit to a set amount of usage over time. [Learn more](#). [Upgrade](#)
- Need help?** [Contact sales](#)
- Subscription and feature codes**: Subscription codes add platform and support credit for your purchased subscriptions. Feature codes unlock additional IBM Cloud capabilities for your account. Each code can be applied only once. [Learn more](#). [Apply code](#)

- Go to Catalog-> add one service.



The screenshot displays the IBM Cloud Catalog interface. The top navigation bar includes links for Mail, Create a Cluster, and the Catalog itself. A search bar is present, and the user's account is logged in. The main content area shows a grid of services, with 'AccountScore' highlighted by a blue border. The left sidebar lists various categories and delivery methods.

Category ^

Viewing 395 products

Recommended products (6)

- Compute (54)
- Containers (10)
- Networking (29)
- Storage (24)
- AI / Machine Learning (20)
- Analytics (29)
- Blockchain (2)
- Databases (43)
- Developer tools (82)
- Logging and monitoring (8)
- Migration (7)
- Integration (67)
- Internet of Things (8)
- Security (33)
- Mobile (6)

Delivery method ^

- ☐ Cloud Paks
- ☐ Helm charts
- ☐ OVA Images
- ☐ Containers

Services shown:

- Accern-API** By Accern: Get the most advanced breaking news technology for your investment strategies. Free
- AccountScore** By AccountScore Holdings Limited: AccountScore Open Banking & transaction analytics. Free
- Alloy** By First Mile Group Inc. d/b/a Alloy: API for identity (KYC, AML & fraud). Free
- Analytics Engine** By IBM: Flexible framework to deploy Hadoop and Spark analytics applications. Lite • Free • HIPAA Enabled • IAM-enabled • Service Endpoint Supported
- Annotator for Clinical Data** By IBM: Analyze text to extract medical codes and concepts such as diseases, lab values, medications, procedures and more. Lite • Free • HIPAA Enabled • IAM-enabled • Service Endpoint Supported
- AnonTech Vizivault Platform** By Anon Technology, Inc.: Manage personal information as-a-service safely, securely, and in compliance with data privacy regulations using Vizivault. Lite • Free • HIPAA Enabled • IAM-enabled
- API Connect** By IBM: An enterprise-grade platform for creating, securing, managing, sharing, monetizing, and analyzing custom APIs located on-premises... Lite • Free • EU Supported • IAM-enabled
- App Configuration** By IBM: Centralized, in-flight configuration for web and mobile applications and distributed environments. Lite • Free • IAM-enabled
- App Connect** By IBM: Connect your applications, automate tasks, and improve productivity. Lite • Free
- App ID** By IBM: User Authentication and User Profiles for your apps. Lite • Free • EU Supported • Financial Services Validated • HIPAA Enabled • IAM-enabled
- AT&T Flow Designer** By AT&T: Design, Build and Deploy IoT Solutions in Minutes. Free
- AT&T IoT Data Plans** By AT&T: Launch your IoT product fast with IoT data plans. Free

<https://cloud.ibm.com/catalog/services/accountscore>



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Alloy - IBM Cloud

https://cloud.ibm.com/catalog/services/alloy

IBM Cloud

Search resources and offerings...

Catalog Docs Support Manage Rishabh Anand's Account

Catalog / Alloy

API for identity (KYC, AML & fraud)

Create About

Type
Service

Provider
First Mile Group Inc. d/b/a Alloy

Updated on
06/15/2020

Category
Developer tools

Location
Sydney
Frankfurt
London
Washington DC
Dallas

Related links
[Docs](#)
[Terms](#)

Disclaimer

This third-party offering (a "non-IBM product or service" under IBM's Cloud Services Agreement) is subject to a separate agreement between you and the third-party, if you accept the third-party's terms. IBM is not responsible for the offering and makes no privacy, security, performance or other commitments regarding the offering.

Select a location

Select a location

Sydney (au-syd)

This third-party product does not include an IBM pricing plan. You can obtain it from the third party under the terms of use agreement. The third party might charge you for use of the service.

Configure your resource

Service name

Alloy-lj

Choose an organization

rishabhanandxz@gmail.com

Choose a space

dev

Summary

Alloy

Org: rishabhanandxz@gmail.com

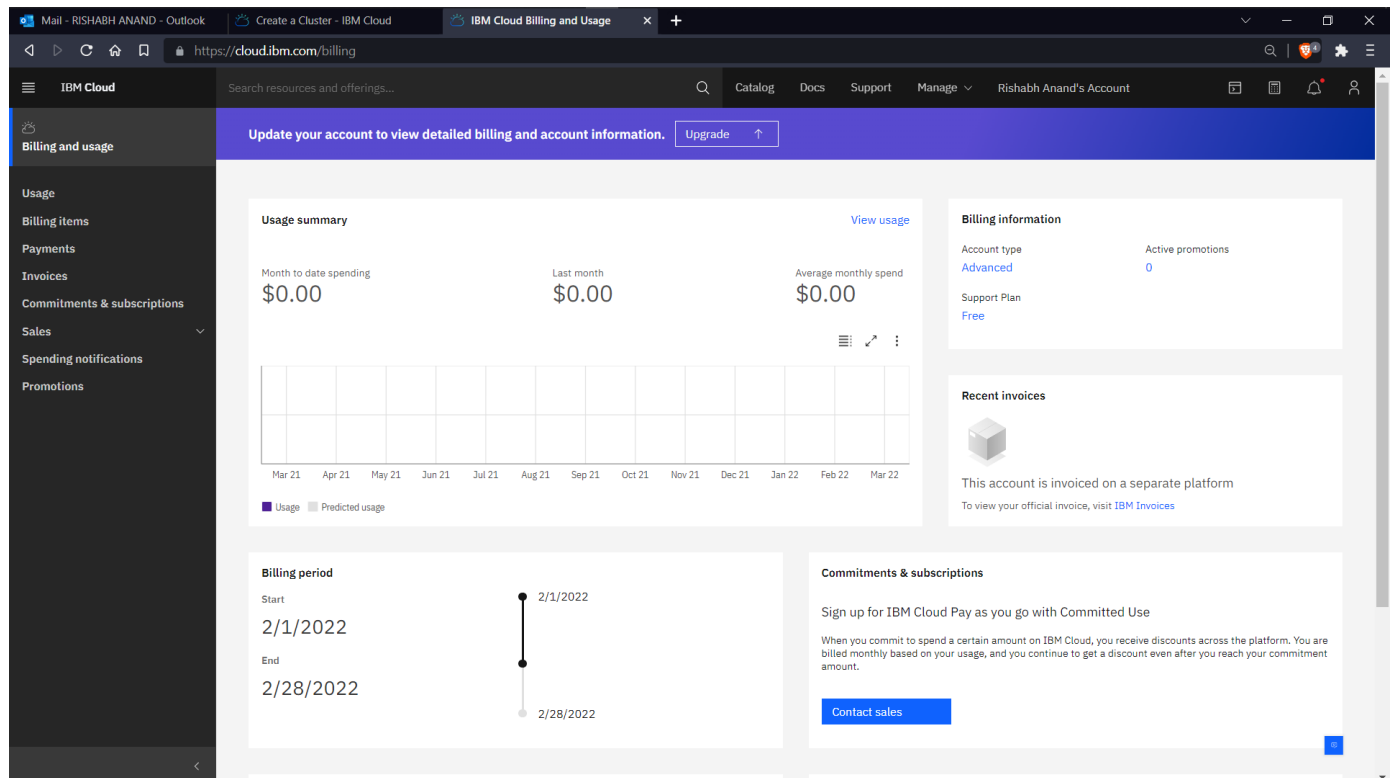
Space: dev

☐ I have read and agree to the following third party terms:
[Terms](#)

Create



- Billing and usage





Learning outcomes (What I have learnt):

1. We learnt how to create IBM Cloud account and explored it.
2. We learnt how to work on IBM cloud and create cluster.
3. How to add services from catalog and how to do billing.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			