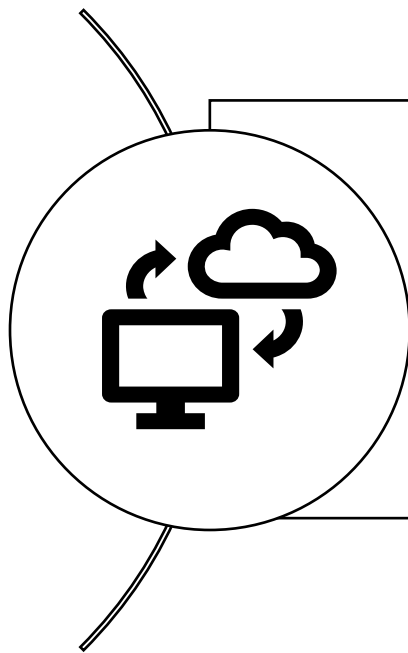


MEDIA STREAMING WITH **IBM CLOUD VIDEO** **STREAMING**

PHASE 3- DEVELOPMENT **PART-1**



AGENGDA

- OBJECTIVE
- BUILDING A VIRTUAL PLATFORM USING IBM CLOUD VIDEO STREAMING INVOLVES SEVERAL STEPS,
- CONCLUSION

OBJECTIVE:

The goal of this project is to create a virtual platform that leverages IBM Cloud Video Streaming to facilitate interactive and secure video experiences. The platform will cater to diverse use cases such as virtual events, webinars, online education, and collaborative meetings.

STEP 1: DEFINE VIRTUAL PLATFORM FEATURES:

1. Live Video Streaming:

- Utilize IBM Cloud Video Streaming services for seamless and reliable live video streaming.
- Support for high-quality video with adaptive bitrate streaming.

2. Interactive Features:

- Real-time chat for audience interaction.
- Q&A sessions and polls during live events.
- Integration with social media platforms for sharing and engagement.

3. User Management:

- User profiles with customizable avatars.
- User roles (e.g., viewer, presenter, moderator) for different levels of access.
- Personalized content recommendations based on user preferences.

4. Virtual Rooms:

- Creation of virtual rooms for specific events or topics.
- Ability to schedule and manage multiple concurrent events.

5. Recording and Playback:

- Automatic recording of live sessions for later playback.
- User-friendly interface for accessing and managing recorded content.

Step 2: Design an Intuitive User Interface:

1. Dashboard:

- Overview of upcoming events and recommended content.
- Quick access to ongoing live sessions and recorded content.

2. Event Pages:

- Clean and intuitive design for each virtual event page.
- Information about speakers, agenda, and participant list.

3. User Profile:

- Editable user profiles with personalization options.
- History of attended events and saved content.

4. Interactive Elements:

- Intuitive chat interface with emoji support.
- Clear options for submitting questions and participating in polls.

5. Responsive Design:

- Ensure compatibility across various devices (desktop, tablet, mobile).

STEP 3: SET UP USER REGISTRATION AND AUTHENTICATION:

1. User Registration:

- Secure registration process with email verification.
- Option for social media login (OAuth) for convenience.

2. Authentication Mechanisms:

- Implement multi-factor authentication for added security.
- Token-based authentication for API access.

3. Role-Based Access Control:

- Define roles such as viewer, presenter, and moderator.
- Different levels of access based on user roles.

4. Privacy and Data Security:

- SSL encryption for data in transit.
- Compliance with data protection regulations.

STEP 4: IBM CLOUD INTEGRATION:

1. IBM Cloud Video Streaming Service:

- Set up and configure the IBM Cloud Video Streaming service.
- Integrate APIs for live streaming and content management.

2. Scalability and Performance:

- Optimize the platform for scalability during peak usage.
- Implement CDN integration for efficient content delivery.

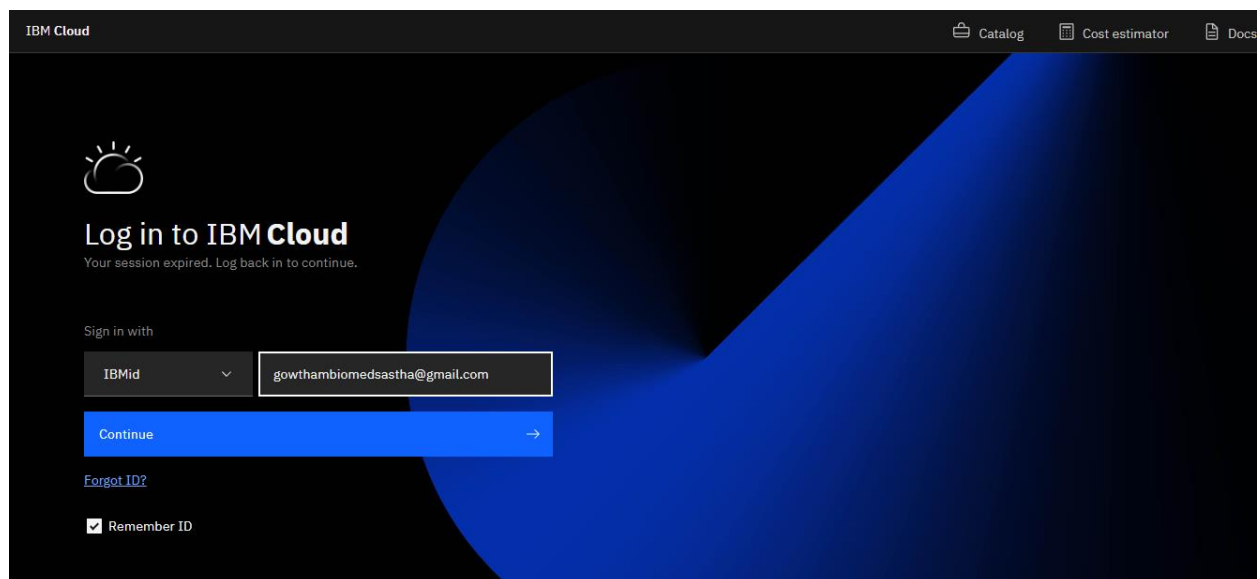
3. Monitoring and Analytics:

- Use IBM Cloud monitoring tools for real-time performance insights.
- Implement analytics to track user engagement and content popularity.

Building a virtual platform using IBM Cloud Video Streaming involves several steps, including setting up an IBM Cloud account, creating a video streaming instance, configuring your streaming settings, and integrating the streaming service into your application or website. Here's a general guide to help you get started:

Step 1: Sign up for IBM Cloud

- **Go to the IBM Cloud website:** IBM Cloud
- **Sign up for an account:** Follow the registration process to create an IBM Cloud account if you don't have one.





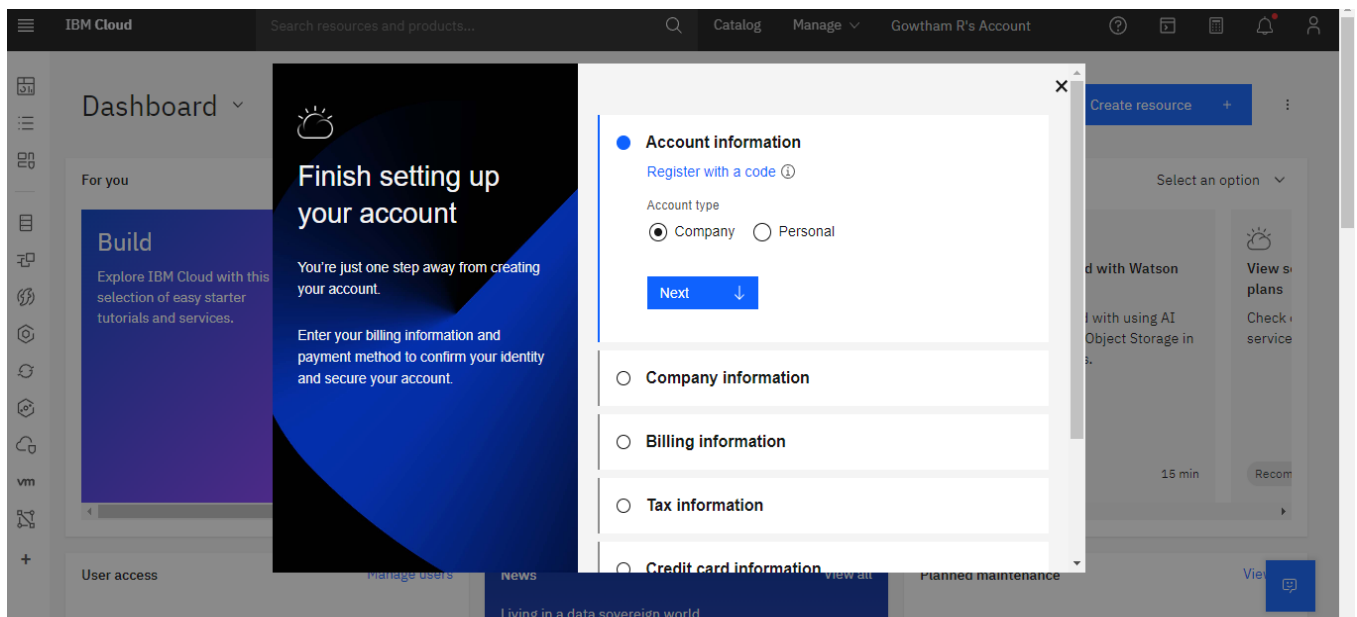
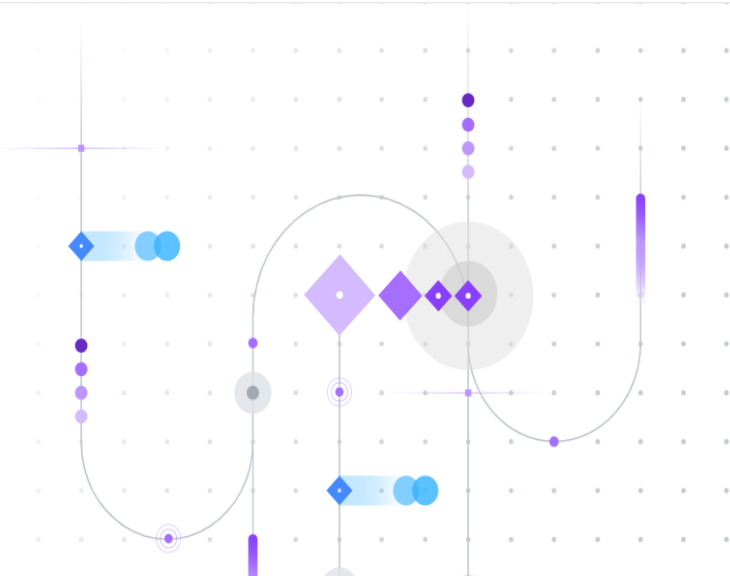
Log in to IBM

Password

Logging in as gowthambi@sastha@gmail.com Not you?

Log in

[Forgot password?](#)



Step 2: Create an IBM Cloud Video Streaming Instance

1. Log in to your IBM Cloud account.

2. Navigate to the IBM Cloud Video Streaming service:

- In the IBM Cloud Dashboard, click on "Catalog" in the top navigation bar.
- Search for "Video Streaming" in the catalog.
- Select the "Video Streaming" service from the results.

The image shows two screenshots from the IBM Cloud platform. The top screenshot is the IBM Cloud Catalog page. It features a search bar with the text "Search the catalog...". Below the search bar, there's a "Category" filter on the left with options like Compute (30), Containers (11), Networking (29), Storage (22), Converged infrastructure (3), and Enterprise applications (3). The main area displays "Viewing 214 products" with a "Relevance" dropdown. Three product cards are visible: "Power Virtual Server with VPC landing zone", "DevSecOps Application Lifecycle Management", and "Power Virtual Server for SAP HANA". The bottom screenshot is the IBM Video Streaming service page. It has a navigation bar with "Products", "Solutions", "Consulting", "Support", and "More". The main heading is "IBM Video Streaming". Below the heading, there's a large image of a hand holding a smartphone displaying a video call. At the bottom, there are two buttons: "See pricing" and "See the demo". A "Login" button and a "Try it free" button are also visible. A "Let's talk" button is in the bottom right corner. A "Site feedback" button is on the right side of the image.

3. Create an instance:

- Click "Create" to create a new instance of the Video Streaming service.
- Choose your pricing plan and configure the instance settings.

Step 3: Configure Video Streaming

1. Access your Video Streaming instance:

- After creating the instance, go to the IBM Cloud Dashboard.
- Find your Video Streaming service instance and click on it to access its settings.

2. Configure your video settings:

- Set up your streaming configurations, including video quality, security settings, and any other preferences you have.

Step 4: Get Your API Key and Secret

1. Generate API Key and Secret:

- In your IBM Cloud Dashboard, go to "Manage" for your Video Streaming instance.
- Under "Service credentials," create a new set of credentials that include an API Key and Secret.

Step 5: Integrate Video Streaming into Your Virtual Platform

1. Use the API Key and Secret in your application:

- In your application's code, use the API Key and Secret to authenticate and interact with the IBM Cloud Video Streaming API.

2. Follow IBM's documentation:

- Refer to the official IBM Cloud Video Streaming documentation for detailed information on API endpoints, integration options, and best practices.

Step 6: Test Your Virtual Platform

1. Test the video streaming:

- Integrate video streaming into your virtual platform and test it to ensure that the streaming service is working as expected.
I hereby attach my channel link and the broadcasted video also

<https://video.ibm.com/channel/v3JnHuKBSMx>

Channel Info

Channel name

GOWTHAM_BIOMED

Channel URL: <https://video.ibm.com/channel/v3JnHuKBSMx>

About

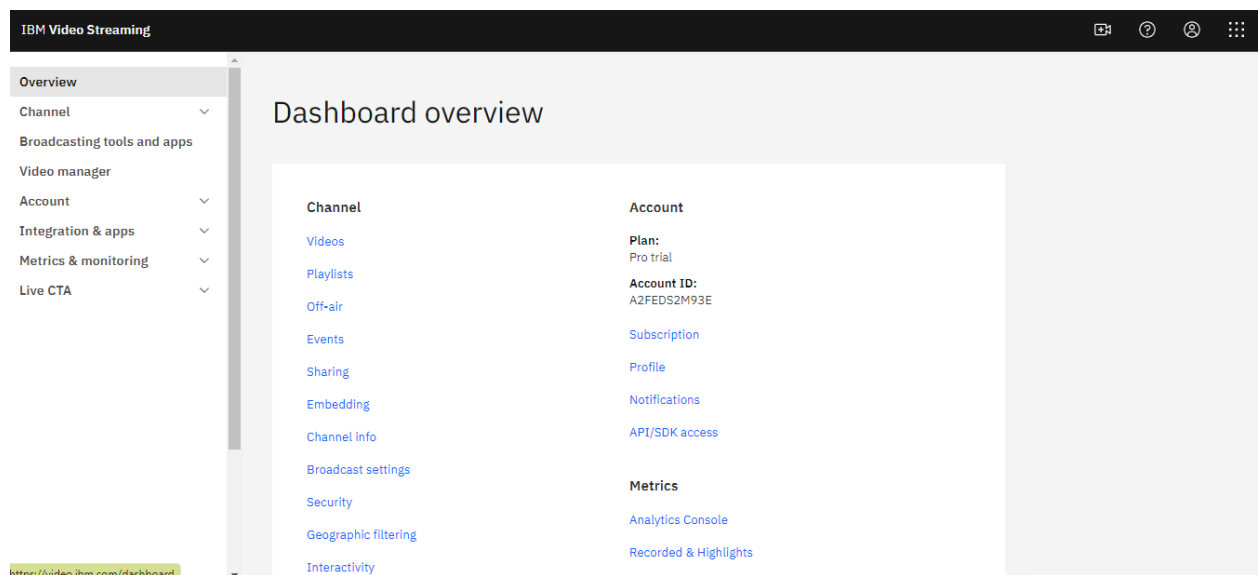
To edit the about section of your channel, visit [Channel settings](#).

Channel Picture




[Edit channel picture](#)

☐ Delete my channel picture



The screenshot shows the IBM Video Streaming dashboard. The left sidebar contains a navigation menu with the following items: Overview (selected), Channel, Broadcasting tools and apps, Video manager, Account, Integration & apps, Metrics & monitoring, and Live CTA. The main content area is titled "Dashboard overview" and displays two columns of links. The "Channel" column includes links for Videos, Playlists, Off-air, Events, Sharing, Embedding, Channel info, Broadcast settings, Security, Geographic filtering, and Interactivity. The "Account" column includes links for Plan (Pro trial), Account ID (A2FEDS2M93E), Subscription, Profile, Notifications, API/SDK access, Metrics, Analytics Console, and Recorded & Highlights. At the bottom left of the dashboard, the URL <https://video.ibm.com/dashboard> is visible.



GOWTHAM_BIOMED
 3 TOTAL VIEWS

SHARE

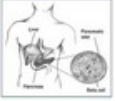
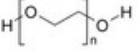
Info
What-is-Biomedical-Engineering
 14 MINUTES AGO • 3 VIEWS
 Here the video for What is Biomedical Engineering and the scope of BME.
 I hope the video will use for someone find for this content

Videos Privacy

SEARCH FOR VIDEOS

☐

CREATE CUSTOMIZED BETA CELLS THAT PRODUCE INSULIN
 IMMUNE SYSTEM KILLS THOSE OFF (THINKS THEY ARE FOREIGN)
 BIOMEDICAL ENGINEER - SURROUND THEM WITH A HYDROGEL (POLYETHYLENE GLYCOL)

What-is-Biomedical-Engineering
 Published

October 19, 2023
 12:15pm
 Views: 3
 Length: 09:09
 Size: 17 MB

CONCLUSION:

This project aims to deliver a feature-rich and secure virtual platform using IBM Cloud Video Streaming, offering users an immersive and interactive experience. The combination of live video streaming, interactive features, and robust user management will create a versatile platform suitable for a variety of applications. cure access to the virtual platform.