



MEDIA STREAMING WITH IBM CLOUD VIDEO STREAMING

PREPARED BY

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PROBLEM STATEMENT:

Create a virtual cinema platform using IBM Cloud Video Streaming. Upload and stream your favourite movies and videos on-demand. Share the joy of movie nights with friends and family, no matter where they are located. Elevate the movie-watching experience with seamless streaming and high-quality video playback for a truly immersive cinematic experience.



Approach:

1. Set up IBM Cloud Video Streaming:

Sign up for an IBM Cloud account if you don't have one.

Create a new IBM Cloud Video Streaming service instance.

Configure and manage the service through the IBM Cloud platform.

2. Store and Manage Video Content:

Organize your movie and video content, ensuring they are in digital formats (e.g., MP4, AVI).

Upload your content to cloud storage, such as IBM Cloud Object Storage, making it accessible for streaming.

3. Encoding and Transcoding:

Use the IBM Cloud Video Streaming capabilities to transcode your videos into various resolutions and formats to ensure adaptive streaming.

Create renditions of your content for different bandwidths and devices, including mobile, desktop, and smart TVs.

4. Content Protection:

Implement security measures to protect your content from unauthorized access.

Use IBM Cloud Video Streaming's DRM (Digital Rights Management) features to control who can view your content.

5. Build a User Interface:

Create a user-friendly web application where users can browse and select movies to watch.

Implement features like search, categories, and user profiles.

6. User Authentication and Authorization:

Implement user registration and authentication to restrict access to registered users.

Define user roles (admin, viewer) with appropriate permissions.

7. Payment Processing (Optional):

If you plan to monetize your platform, integrate a payment gateway for rentals or purchases.

8. Streaming Integration:

Use the IBM Cloud Video Streaming API to integrate video playback on your platform.

Implement features like playback control, quality selection, and subtitle options.

9. Content Delivery Network (CDN):

Use a CDN to distribute video content closer to end-users for faster and more reliable streaming.

10. Social Features:

Implement social features such as user reviews, ratings, and sharing options to engage users.

11. Testing and Quality Assurance:

Thoroughly test your platform on different devices and browsers.

Ensure smooth streaming, quality playback, and a responsive user interface.

12. Continuous Maintenance and Updates:

Regularly update your platform with new content and features.

Monitor and optimize the platform's performance.

13. Marketing and Promotion:

Promote your virtual cinema platform through social media, email marketing, and other channels to attract users.

14. Compliance and Legal Considerations:

Ensure compliance with copyright laws and licensing agreements for the movies and videos you stream.

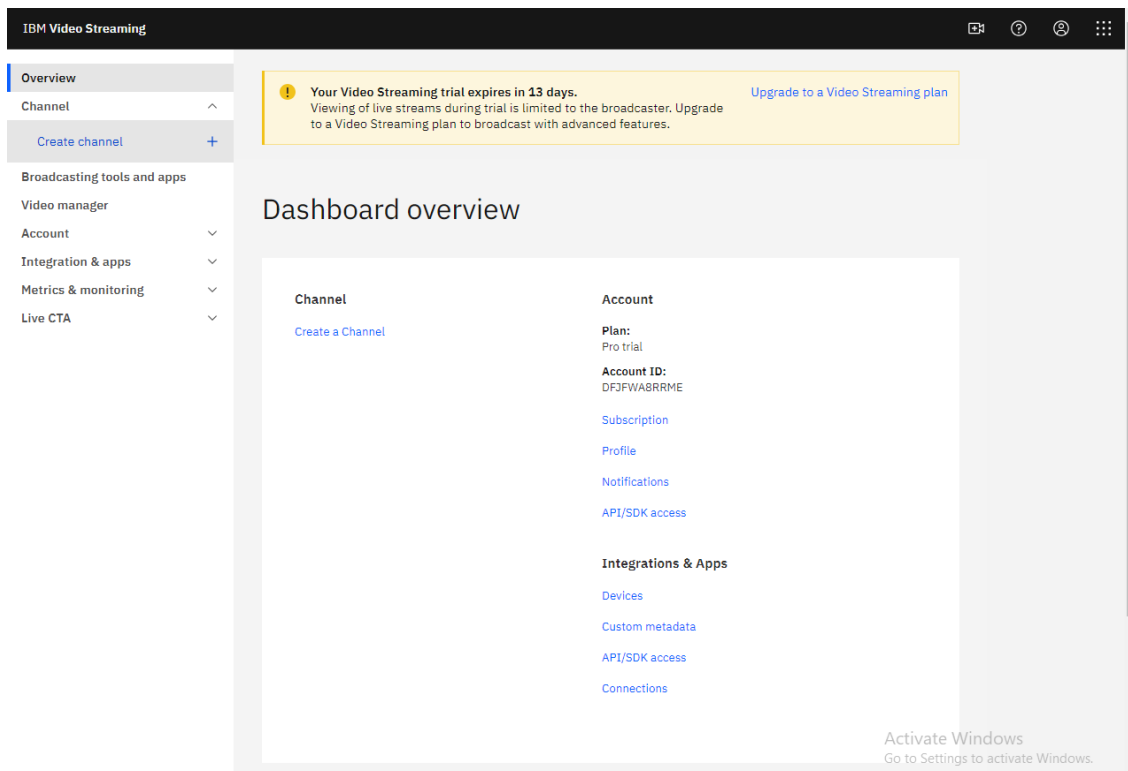
15. User Support:

Offer customer support channels for users who encounter issues or have questions.

STEPS:

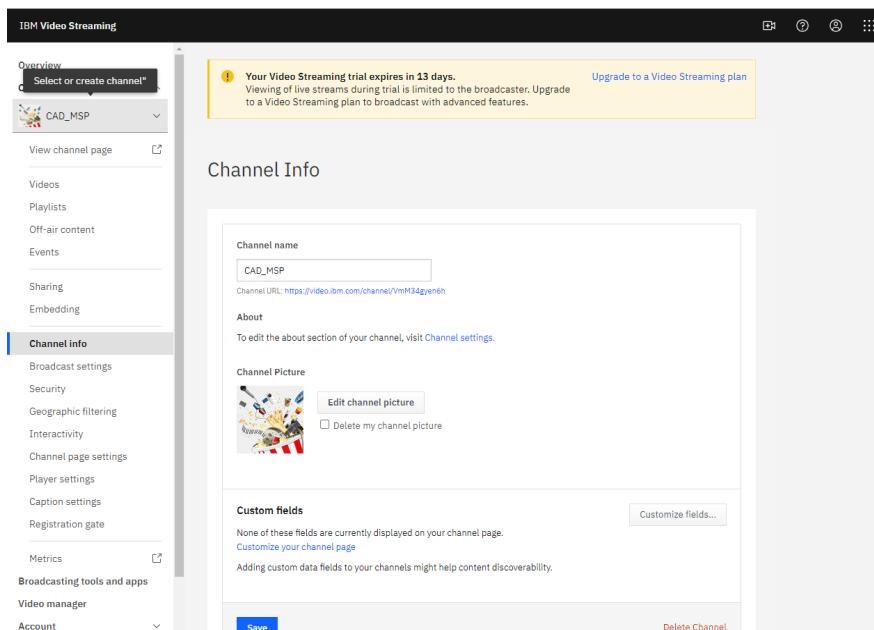
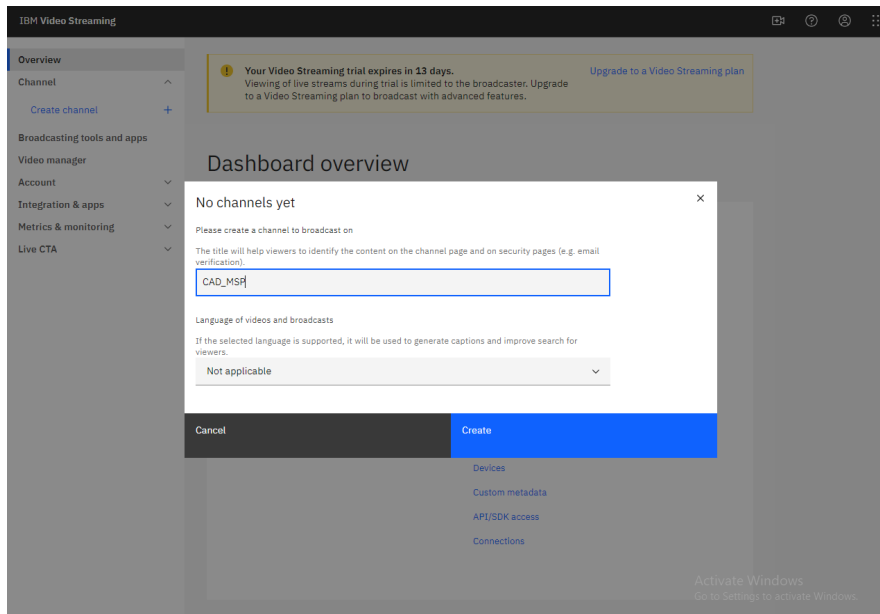
(i) Sign Up for IBM Cloud:

- If you haven't already, sign up for an IBM Cloud account.



(ii) Create a Video Streaming Channel:

- In the IBM Cloud Video Streaming service, create a new video channel. This channel will be the container for our virtual cinema content.



(iii) Upload Content:

- Upload our movies or videos to the video channel you created. We can use the IBM Cloud Video Streaming dashboard for this.

The screenshot displays the IBM Video Streaming dashboard. On the left is a sidebar with navigation options: Overview, Channel (selected), Videos, Playlists, Off-air content, Events, Sharing, Embedding, Channel info, Broadcast settings, Security, Geographic filtering, Interactivity, Channel page settings, and Player settings. The main content area is titled 'Videos' and features a blue 'Upload' button. A yellow banner at the top of the main area states: 'Your Video Streaming trial expires in 13 days. Viewing of live streams during trial is limited to the broadcaster. Upgrade to a Video Streaming plan to broadcast with advanced features.' Below this, a storage status bar indicates 'You are using 0 GB / 500.00 GB video storage' with a 'Need more storage?' link. A search bar with the placeholder 'Enter keywords and labels' and a 'Search' button is present, along with a 'Show all channels' link. Below the search bar is a table of videos. The table has columns for TITLE, LABELS, DATE, LENGTH, and VIEWS. One video is listed: 'DANCE-1' with a 'Published' label, a date of '10/15/2023', a length of '00:18', and '11' views. At the bottom right of the table, it says 'Show videos: 50 1-1 of 1' with navigation arrows.

IBM Video Streaming

Overview

Channel

CAD_MSP

View channel page

Videos

Playlists

Off-air content

Events

Sharing

Embedding

Channel info

Broadcast settings

Security

Geographic filtering

Interactivity

Channel page settings

Player settings

Videos

Upload

! Your Video Streaming trial expires in 13 days. Viewing of live streams during trial is limited to the broadcaster. Upgrade to a Video Streaming plan to broadcast with advanced features.

Upgrade to a Video Streaming plan

You are using 0 GB / 500.00 GB video storage

Need more storage?

Enter keywords and labels

Search

Show all channels

☐ Publish Label More

Sort by: Last

TITLE	LABELS	DATE	LENGTH	VIEWS
<input type="checkbox"/> DANCE-1	Published	10/15/2023	00:18	11

Show videos: 50 1-1 of 1

(iv) Set Up Video Player:

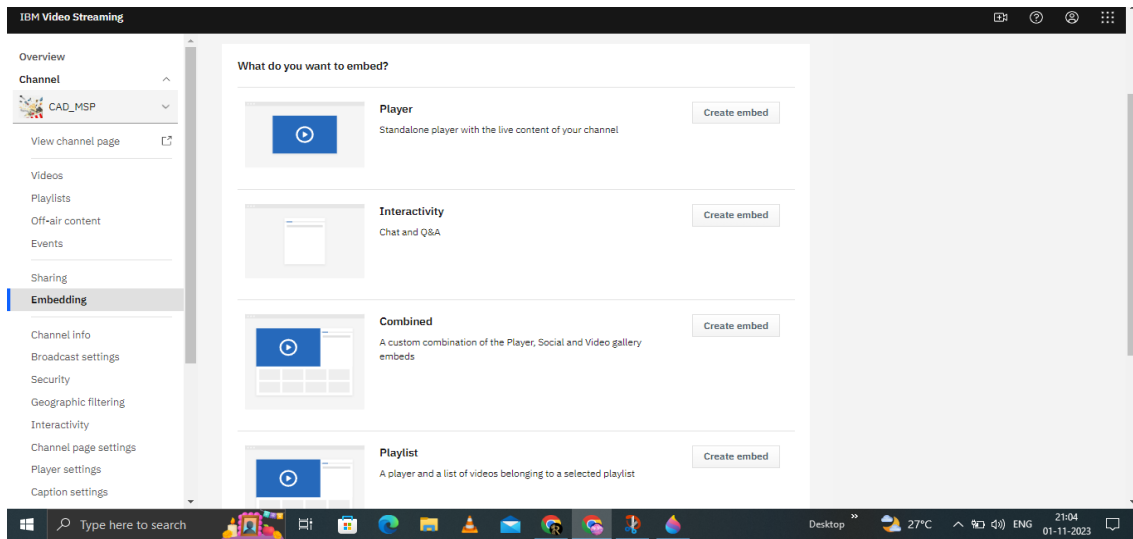
- Customize the video player that will be used to display your content. IBM Cloud Video Streaming provides options for embedding a player on your website or app.

The screenshot shows the IBM Video Streaming 'Playlists' management page. On the left is a navigation sidebar with options like 'Off-air content', 'Events', 'Sharing', 'Embedding', 'Channel info', 'Broadcast settings', 'Security', 'Geographic filtering', 'Interactivity', 'Channel page settings', 'Player settings', 'Caption settings', 'Registration gate', 'Metrics', 'Broadcasting tools and apps', 'Video manager', 'Account', 'Integration & apps', and 'Metrics & monitoring'. The main content area is titled 'Playlists' and features a yellow warning banner stating 'Playlists are not visible on the channel page. Scheduled playlists will still be broadcasted.' with a 'Go to settings' link. Below the banner is a search bar and a 'Create playlist' button. A table lists the playlists with columns for Title, Created, Updated, and Status. One playlist is shown: 'ENTERTAIN WITH DANCE' with a duration of 00:18, created and updated on October 15, 2023, at 1:05 PM GMT+5:30, and a status of 'Listed only in embeds'. The table includes 'Manual' and 'Published' status tags. At the bottom of the main area, there are links for 'Contact', 'Privacy', 'Terms of use', 'Accessibility', 'Copyright Policy', 'Cookie preferences', and 'Terms and conditions for IBM Video Streaming'. A language selector is set to 'Asia Pacific'. The Windows taskbar at the bottom shows the time as 20:58 on 01-11-2023.

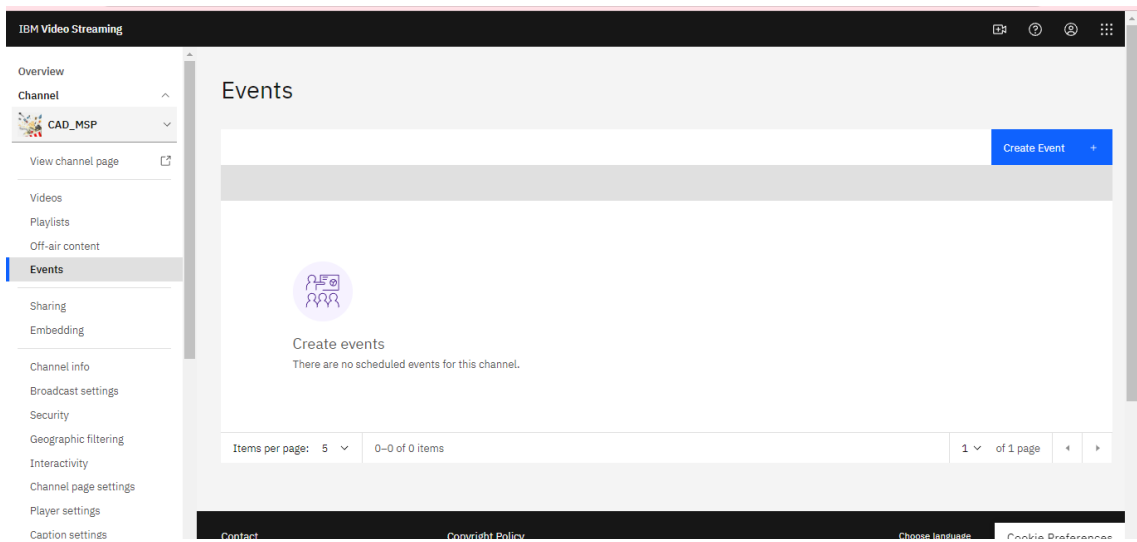
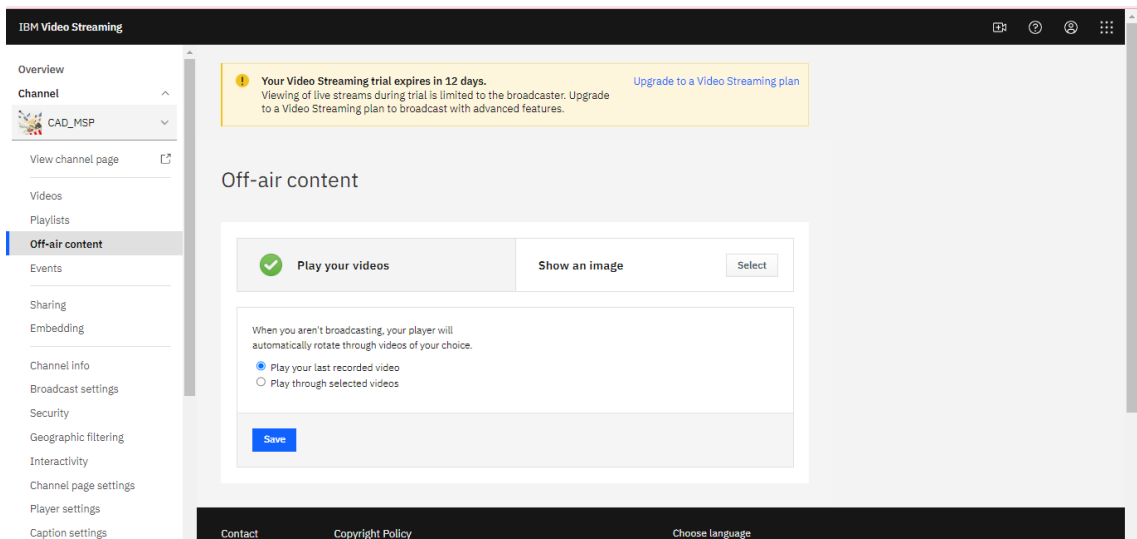
Title	Created	Updated	Status
ENTERTAIN WITH DANCE 00:18	October 15, 2023 1:05 PM GMT+5:30	October 15, 2023 1:05 PM GMT+5:30	Listed only in embeds

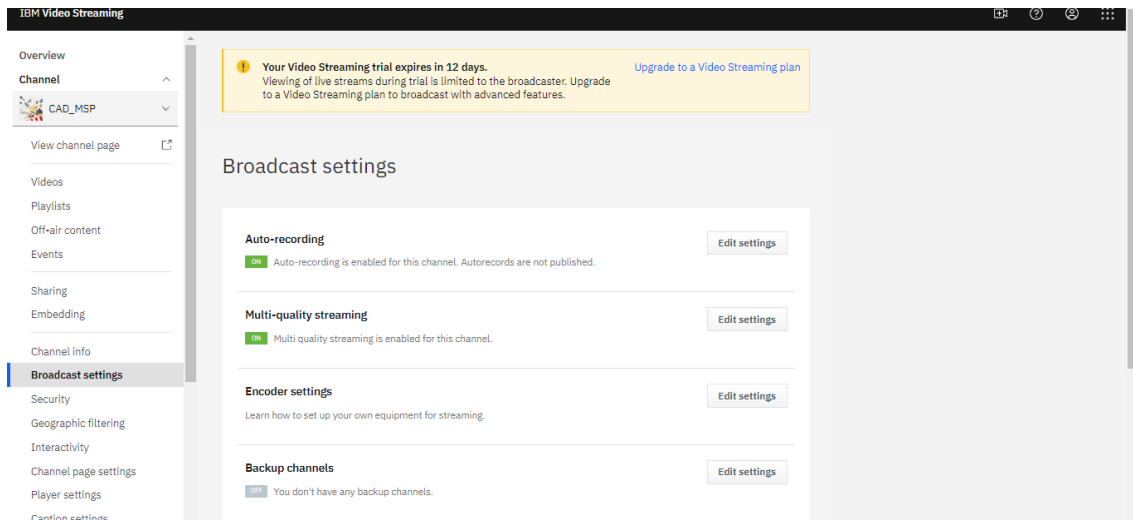
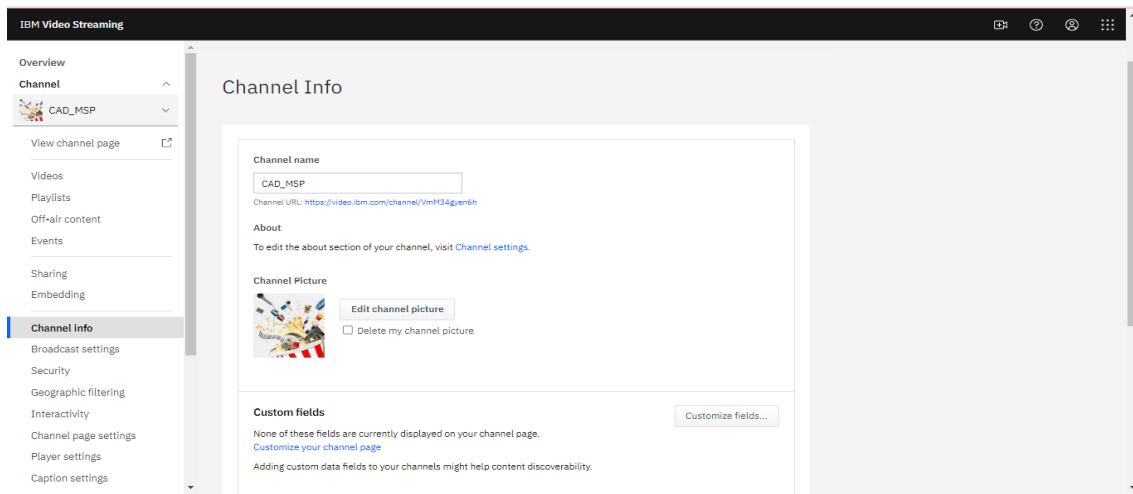
(v) Configure Access Control:

- Decide on your access control strategy. You can make your content publicly accessible or restrict it to specific users through authentication and authorization settings.



Other images:





Overview

Channel

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View channel page

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Off-air content

Events

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Channel info

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Interactivity

Channel page settings

Player settings

Security

ON

Password protection

Require viewers to enter a password to watch your content.

Settings

OFF

Restrict embed URLs

Specify the domains where your streams can be embedded.

Settings

Contact

Privacy

Terms of use

Accessibility

[Copyright Policy](#)

[Cookie preferences](#)

[Terms and conditions for IBM Video Streaming](#)

[Acceptable use policy](#)

Choose language

Asia Pacific

IBM

IBM Video Streaming

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Channel page settings

Player settings

Caption settings

Interactivity

OFF

Search in Video

Your viewers can search for specific words in a video's captions. [Learn more](#) on adding captions to your videos.

Turn on

ON

Chat

Chat lets your viewers have a conversation about live streams

Settings

OFF

Q&A

Q&A lets your audience ask questions during live streams

Settings

Polls

Polls let you ask questions from your audience during live streams

Details

Slides

Upload slide decks to display their slides on-screen in live streams and in recorded videos of these streams.

[Manage slide decks](#)

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Player settings

Caption settings

Your Video Streaming trial expires in 12 days.

Upgrade to a Video Streaming plan

Viewing of live streams during trial is limited to the broadcaster. Upgrade to a Video Streaming plan to broadcast with advanced features.

Channel page settings

Your channel page is enabled

Disable channel page

<https://video.ibm.com/channel/VmM34yen6h>

Header

Settings

Have a branded header at the top of your channel page with custom navigation links

Cover image

Settings

Displayed at the top of your channel page, the cover image reflects your branding and gives a unique appearance to your channel.

Displaying metadata

Settings

Customize what channel and video data is displayed on your channel page to help the discoverability of your content.

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Player settings

Caption settings

Player Settings

OFF Player branding

Settings

The player is IBM Video Streaming branded.

ON Number of viewers watching

Settings

The number of viewers watching your live broadcast is visible in the player.

ON Sharing

Settings

Viewers can copy the URL and the embed code of a video from the player.

Contact

Copyright Policy

Choose language

Privacy

Cookie preferences

Asia Pacific

Terms of use

Terms and conditions for IBM Video Streaming

Accessibility

Acceptable use policy

IBM Video Streaming

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Interactivity

Channel page settings

Player settings

Caption settings

Language of videos and broadcasts

Tamil

Change

Captioning for videos

Caption generation is not available for Tamil content

You can upload your own captions [for each video](#)

Contact

Privacy

Terms of use

Accessibility

Copyright Policy

Cookie preferences

Terms and conditions for IBM Video Streaming

Acceptable use policy

Choose language

Asia Pacific

IBM Video Streaming

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Embedding

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Interactivity

Channel page settings

Player settings

Caption settings

Registration gate

Metrics

Broadcasting tools and apps

Video manager

Account

Integration & apps

Metrics & monitoring

Registration gate

off Viewers don't have to register to watch live and recorded videos

Turn on

Registration gate settings

Collecting name, email.

Skipping registration is not allowed.

Introduction screen is not displayed.

Preview

Edit settings

Leads

Captured leads, data of viewers who have registered.

View leads

Contact

Privacy

Terms of use

Copyright Policy

Cookie preferences

Terms and conditions for IBM Video Streaming

Choose language

Asia Pacific

Type here to search

Desktop

Near record

ENG

21:58

01-11-2023

