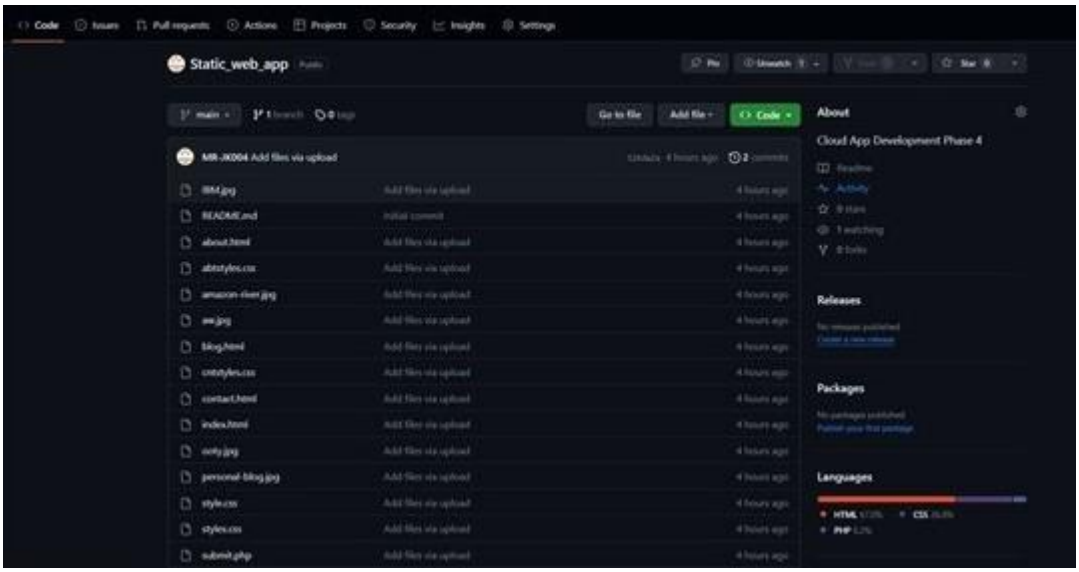
Cloud App Development

video streaming on IBM Cloud Static Web Apps

Creating a static web app with IBM Cloud involves several steps, including setting up a repository, creating a build pipeline, and configuring deployment options. Additionally, it has been mentioned using a static site generator like Jekyll or Hugo to manage our web content more easily. Below are the steps to go:

1. Create a GitHub Repository:

Start by creating a new GitHub repository to store our project. If we're using an existing repository, make sure it contains HTML files, CSS files, and any other assets that are need.



2. Choose a Static Site Generator:

Select and set up a static site generator like Jekyll or Hugo. Follow the documentation to create templates for our content. These templates will make it easier to manage our content.

3. Add Template Files:

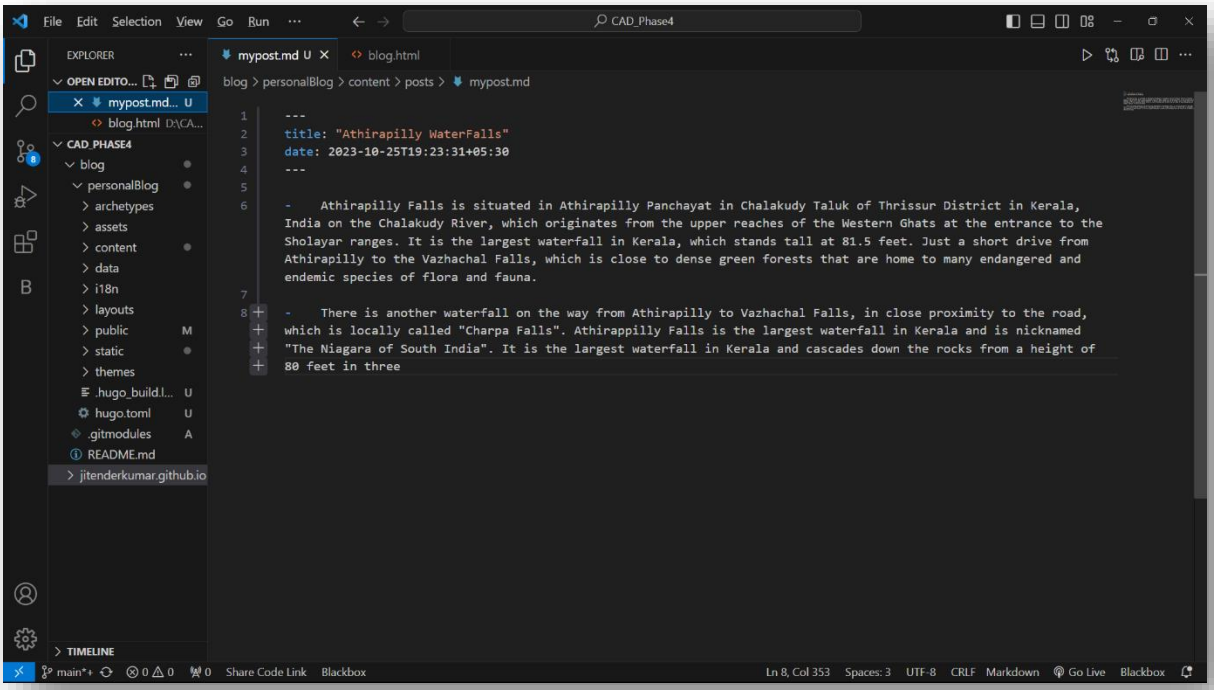
Convert our HTML content into template files that are compatible with our chosen static site generator. For example, we might convert our index.html into Jekyll's Liquid template format or Hugo's Markdown format. Customize these templates to suit our design.

4. Set Up the Local Development Environment:

Install and configure the necessary tools and dependencies for our chosen static site generator. Typically, this involves installing the generator, setting up a development server, and testing our templates locally.

5. Build Our video streaming Content:

Upload a video or other content using the templates we've set up. This content will be converted into HTML pages by the static site generator.

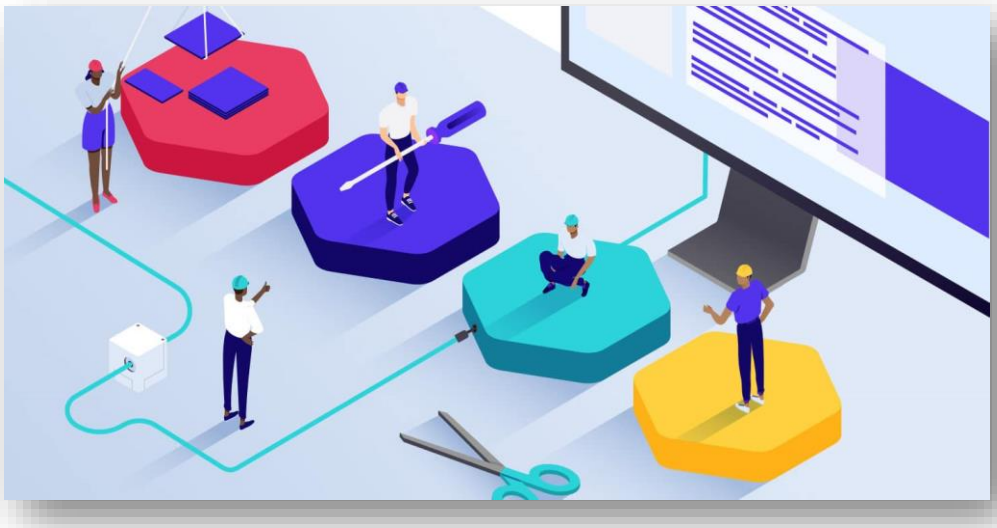


6. Push Code to GitHub:

Commit our code, including the template files, content, and any additional assets, to our GitHub repository.

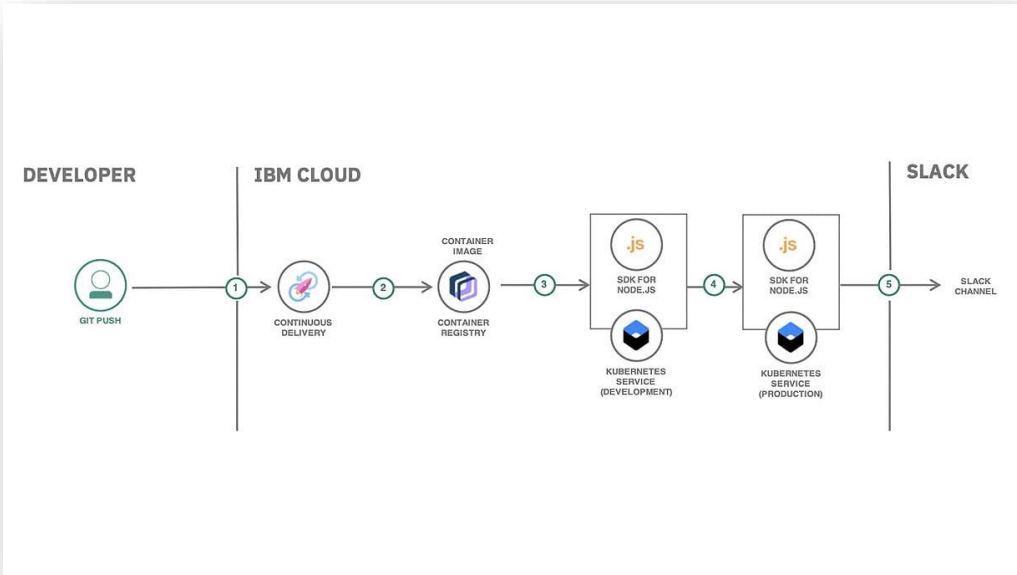
7. Set Up IBM Cloud DevOps Services:

- ✓ Sign in to IBM Cloud and navigate to the DevOps Services.
- ✓ Create a new toolchain.
- ✓ In the toolchain, add a Git repository as a source, connecting it to our GitHub repository.



8. Create a Build Pipeline:

- ✓ Within our IBM Cloud toolchain, create a build pipeline that includes a build stage for building our static site. Configure the build pipeline to use the appropriate build tools for our chosen static site generator (e.g., Jekyll, Hugo).

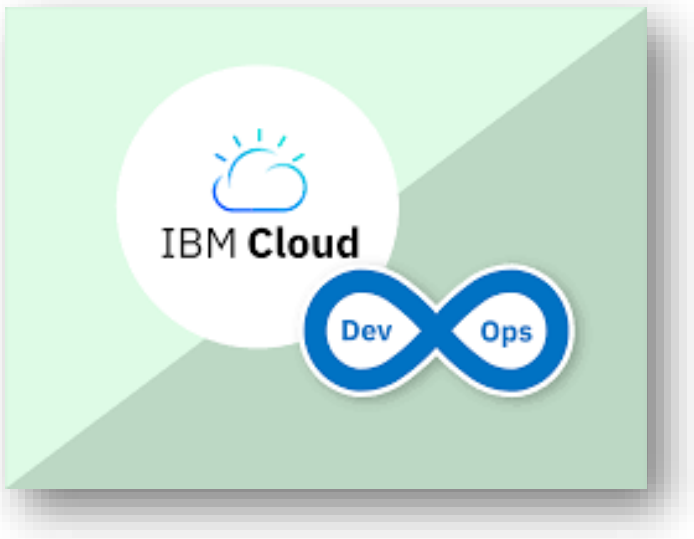


9. Configure Deployment Options:

- ✓ In the build pipeline, set up deployment options. IBM Cloud provides integrations with various cloud storage services (e.g., IBM Cloud) where we can host our static website files.
- ✓ Configure the deployment to automatically deploy our built website files to the chosen cloud storage service when a new build is successful.

10. Deploying the web-app:

- ✓ Trigger the build pipeline to start the build process.



- ✓ Once the build is complete and successful, our video streaming site will be automatically deployed to the cloud storage service we configured.

11. Accessing Static Web App:

We can access our static web app via a URL provided by our chosen cloud storage service or configure a custom domain name for our web-app if needed.

By following these steps, we'll have successfully set up a static web app using IBM Cloud, incorporated a static site generator to manage our content, and automated the build and deployment processes for our video streaming web-app. will be accessible online, and we can easily update and manage the content using the site generator.