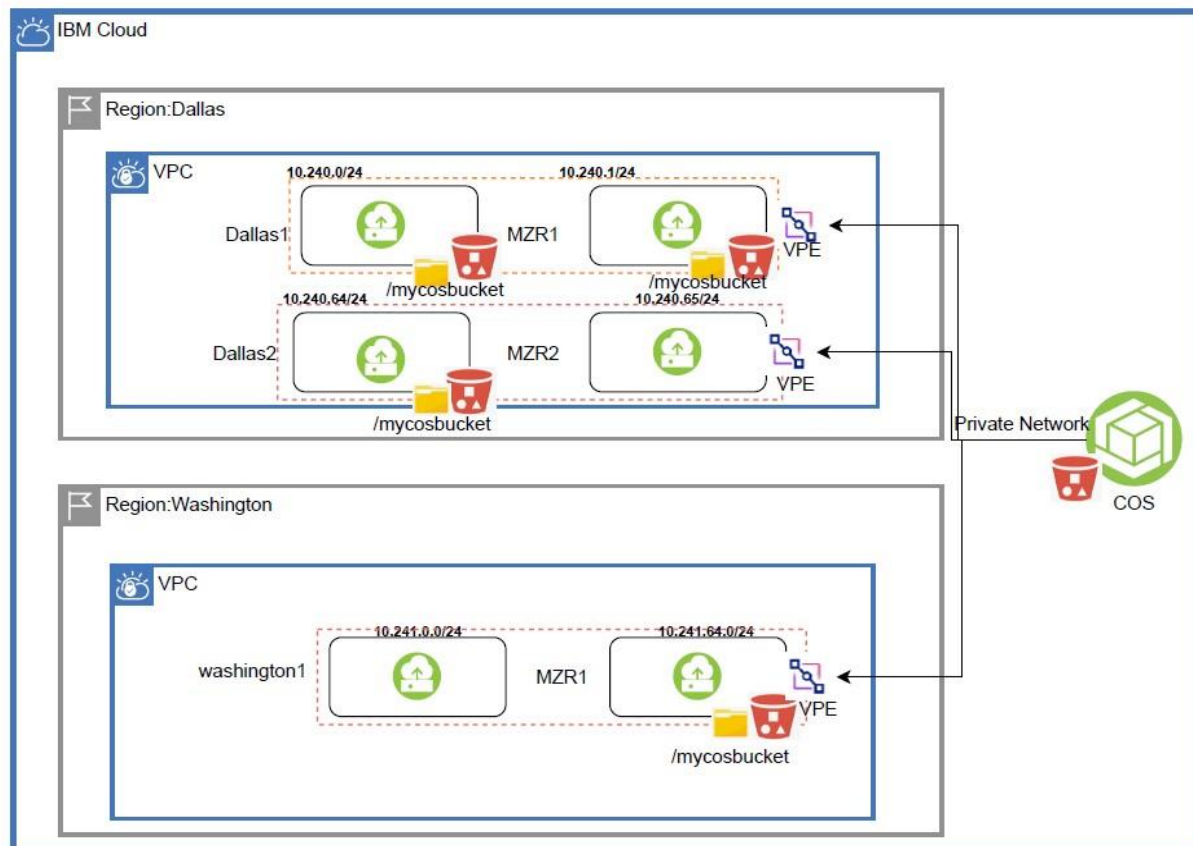## DOMAIN NAME: CLOUD COMPUTING

PROJECT NAME: CREATE A PERSONAL BLOG ON IBM CLOUD STATIC WEB APPS

INTRODUCTION:

IBM Cloud Static Web Apps is a service that allows you to host and deploy static websites on IBM Cloud. Static websites are websites that do not require any server-side code to run. This makes them fast, scalable, and secure.

ARCHITECTURE DIAGRAM:

STEPS:

Step1: Create an IBM Cloud account. If you don't already have an IBM Cloud account, you can create one for free.

step2: Create a Cloud Object Storage service instance. Once you have an IBM Cloud account, you can create a Cloud Object Storage service instance. To do this, go to the IBM Cloud Console and click Create resource. Then, select Storage & Data and Cloud Object Storage.
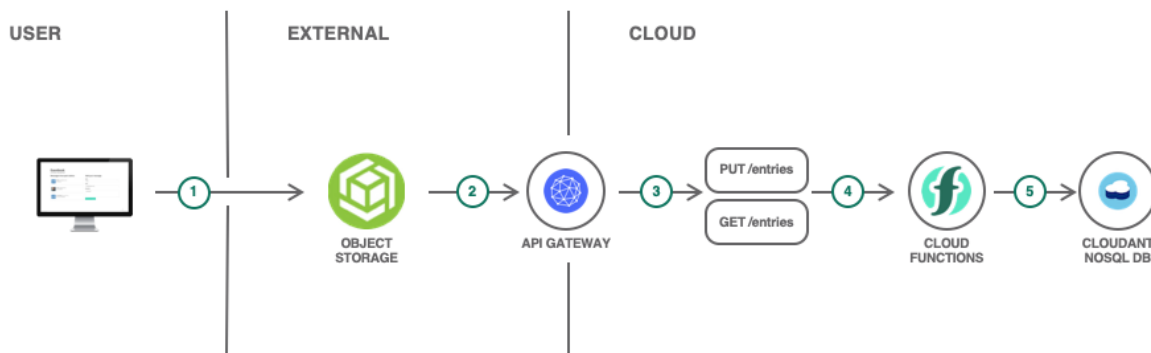
Step3: Create a bucket in Cloud Object Storage. Once you have created a Cloud Object Storage service instance, you can create a bucket. To do this, go to the Cloud Object Storage console and click Create bucket. Then, enter a name for your bucket and select the region where you want to create it.

step4: Configure the bucket for static website hosting. To configure your bucket for static website hosting, go to the Cloud Object Storage console and click the name of your bucket. Then, click the Static website hosting tab and select Enable.

step5: Upload your blog content to the bucket. You can upload your blog content to the bucket using the Cloud Object Storage console or the Cloud Object Storage CLI.

Step6: Create a custom domain for your blog. You can create a custom domain for your blog using a domain registrar such as GoDaddy or Namecheap.

Step7: Configure the custom domain to point to your Cloud Object Storage bucket. Once you have created a custom domain for your blog, you need to configure it to point to your Cloud Object Storage bucket. To do this, go to the DNS management console for your domain registrar and update the A record for your domain to point to the IP address of your Cloud Object Storage buck

ALGORITHM USED:

- **Search algorithms**: These algorithms allow users to search for specific content within your blog. This can be helpful for users who are looking for specific information, such as a recipe or a tutorial.
- **Recommendation algorithms**: These algorithms recommend content to users based on their past behavior. For example, if a user has frequently read blog posts about travel, a recommendation algorithm might suggest other travel-related posts.
- **Personalization algorithms**: These algorithms personalize the user experience by tailoring the content and features of your blog to each user's individual preferences. For example, a

personalization algorithm might change the order of the blog posts that are displayed on the homepage, or it might recommend different blog posts to different users.

- **Natural language processing (NLP) algorithms**: NLP algorithms can be used to understand and process the text content of your blog posts. This can be used for a variety of purposes, such as extracting keywords from blog posts, identifying the topics of blog posts, and generating summaries of blog posts.

MODULES USED:

- **Static site generators**: A static site generator is a tool that can generate a static website from a set of Markdown files. This can make it easier to create and update your blog content. Some popular static site generators include Hugo, Jekyll, and Gatsby.
- **Content management systems (CMSs):** A CMS is a tool that can help you create, edit, and publish blog posts. Some popular CMSs include WordPress, Drupal, and Joomla.
- **Blog themes:** A blog theme is a template that can be used to customize the look and feel of your blog. There are a number of free and premium blog themes available online.
- **IBM Cloud Object Storage:** IBM Cloud Object Storage is a highly scalable and durable object storage service that can be used to store your blog content.
- **IBM Cloud DNS Management:** IBM Cloud DNS Management is a service that allows you to manage the DNS records for your domain name. This can be used to configure your domain name to point to your IBM Cloud Object Storage bucket.

LANGUAGES USED:

- **HTML, CSS, and JavaScript:** These are the core languages of the web, and they can be used to create simple static websites.
- **Markdown:** Markdown is a lightweight markup language that can be used to create formatted text. It is often used to create blog posts and other types of content.
- **Static site generators**: Static site generators are tools that can generate static websites from a set of Markdown files. This can make it easier to create and update your blog content. Some popular static site generators include Hugo, Jekyll, and Gatsby.
- **Content management systems (CMSs):** CMSs are tools that can help you create, edit, and publish blog posts. Some popular CMSs include WordPress, Drupal, and Joomla.

FUTURE USES:

1) A teacher could use their blog to share lesson plans and resources with their students.

2) A lawyer could use their blog to share legal advice with their clients.

3) A real estate agent could use their blog to share tips on buying and selling homes.

4) A travel blogger could use their blog to share travel tips and stories with their readers.

COCLUSION:

   Creating a personal blog can be a lot of fun and it can be a great way to share your thoughts and ideas with the world. Just remember to write high-quality content, be consistent, promote your blog, and interact with your readers.