

Name - Yash Lakhtariya

Enrollment number - 21162101012

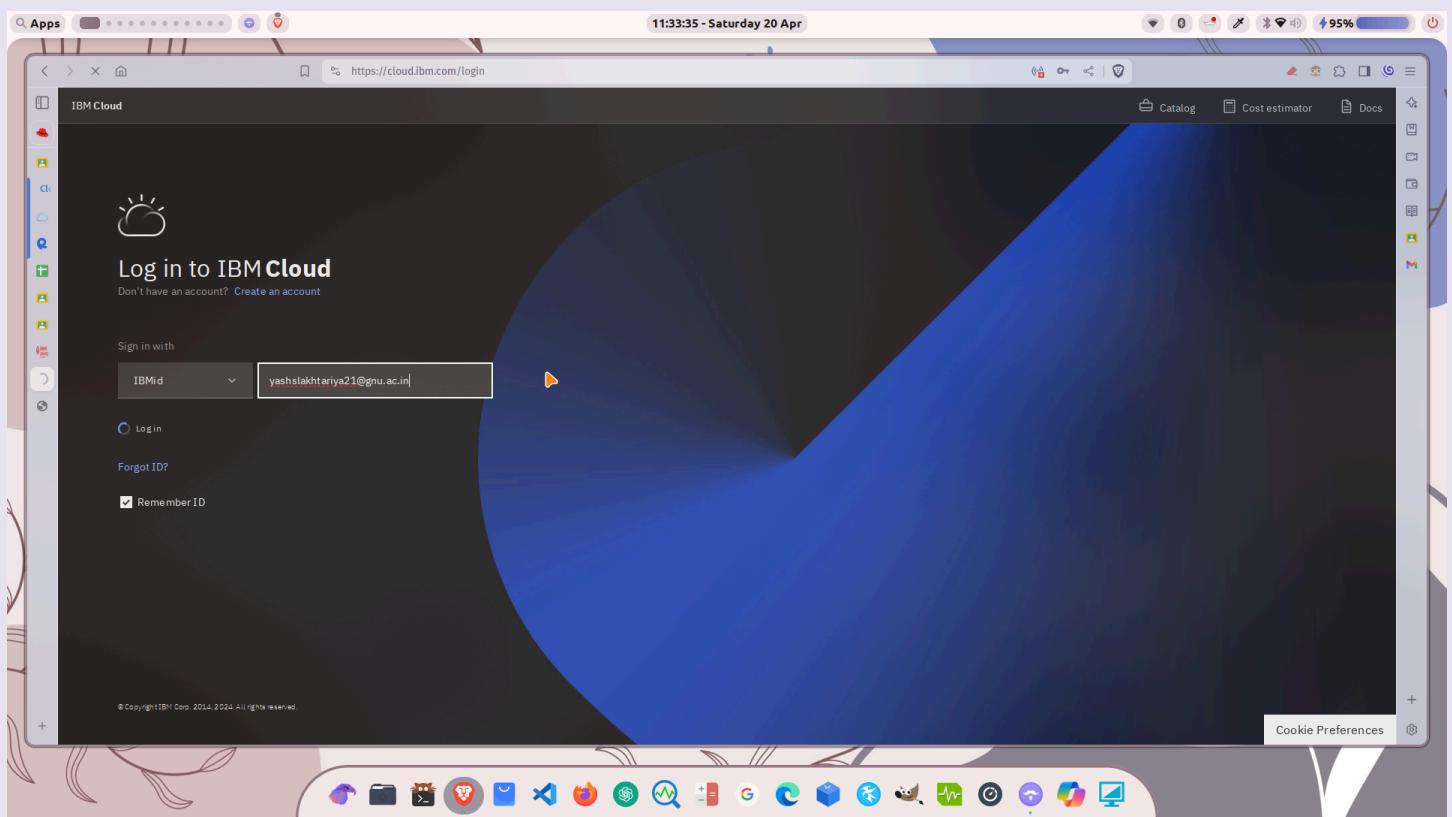
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Introduction to Cloud

Hands-On Lab - 1 : Creating IBM Cloud Account

→ Visit cloud.ibm.com and create the account if not exists and then login

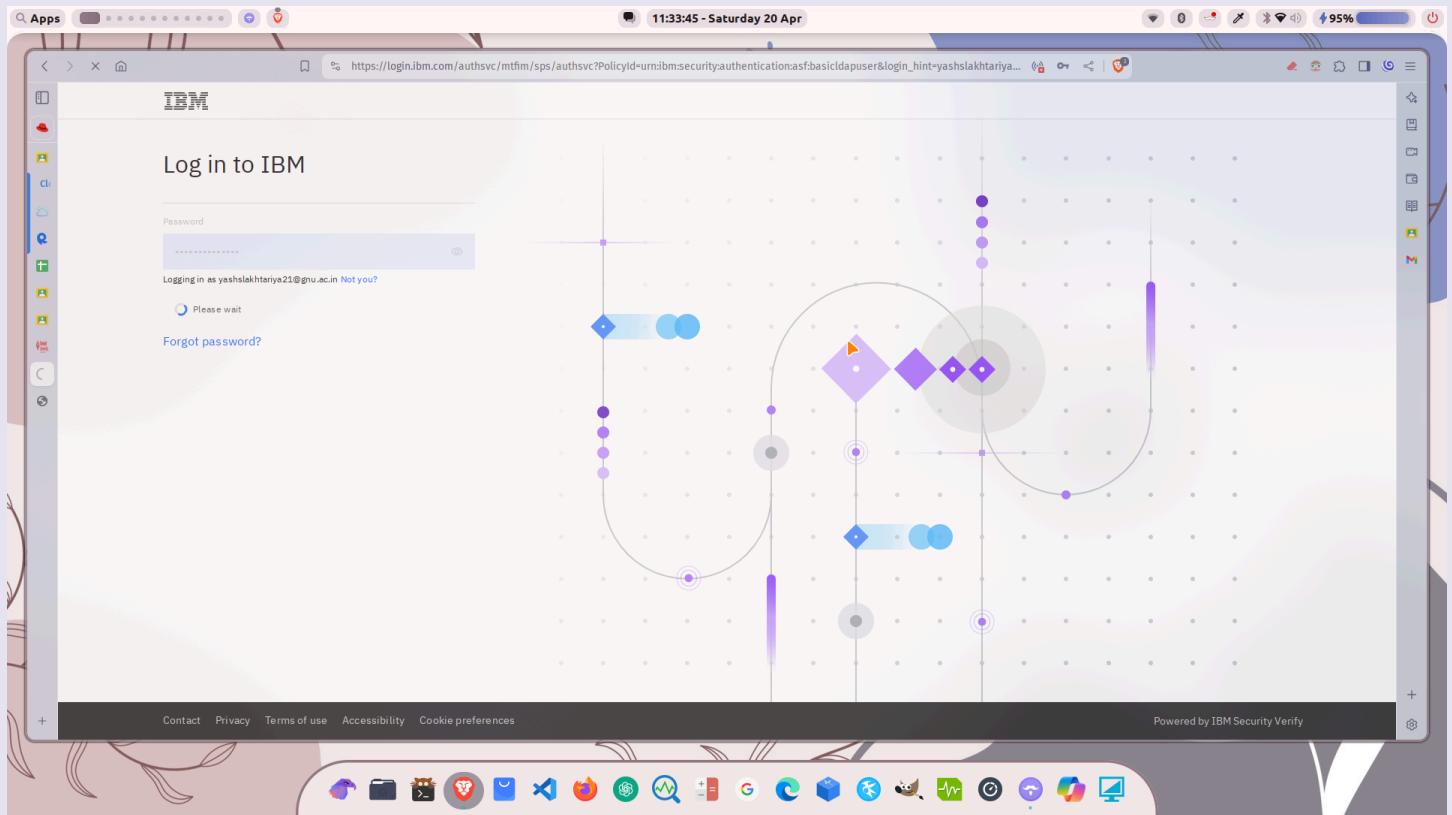


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Hands-On Lab - 2 : Creating an Object Storage Instance and adding items

1. Create an object storage instance on IBM Cloud if not exists

The screenshot shows the IBM Cloud Object Storage creation interface. On the left, there's a sidebar with various icons. The main area has a title 'Select a pricing plan' with a note: 'Displayed prices do not include tax. Monthly prices shown are for country or region: India'. It lists three plans: 'Lite', 'Standard', and 'One Rate'. The 'Lite' plan is selected, showing its details: 'Lite plan instance is free to use for Storage capacity up to 25 GB per month. Lite plan instance is used for trial, and can be easily upgraded to Standard plan for unlimited scalability and full functionality.' Below this, it says 'Only one Lite plan instance is allowed per account. The Lite plan instance includes up to 25 GB of storage capacity; 2,000 Class A (PUT, COPY, POST, and LIST) requests; 20,000 Class B (GET and all others) requests; 10 GB of data retrieval; 5GB of egress (public outbound bandwidth) each month. These thresholds apply to the aggregate total across all storage class buckets. Lite plan services are deleted after 30 days of inactivity.' The 'Standard' and 'One Rate' plans also have their descriptions and links to view storage class pricing. On the right, a summary panel shows the service is 'Cloud Object Storage' with 'Region: Global', 'Plan: Lite', 'Service name: Cloud Object Storage-course', and 'Resource group: Default'. At the bottom right, there's a large blue 'Create' button with a hand cursor icon, and below it are 'Add to estimate' and 'View terms' buttons.

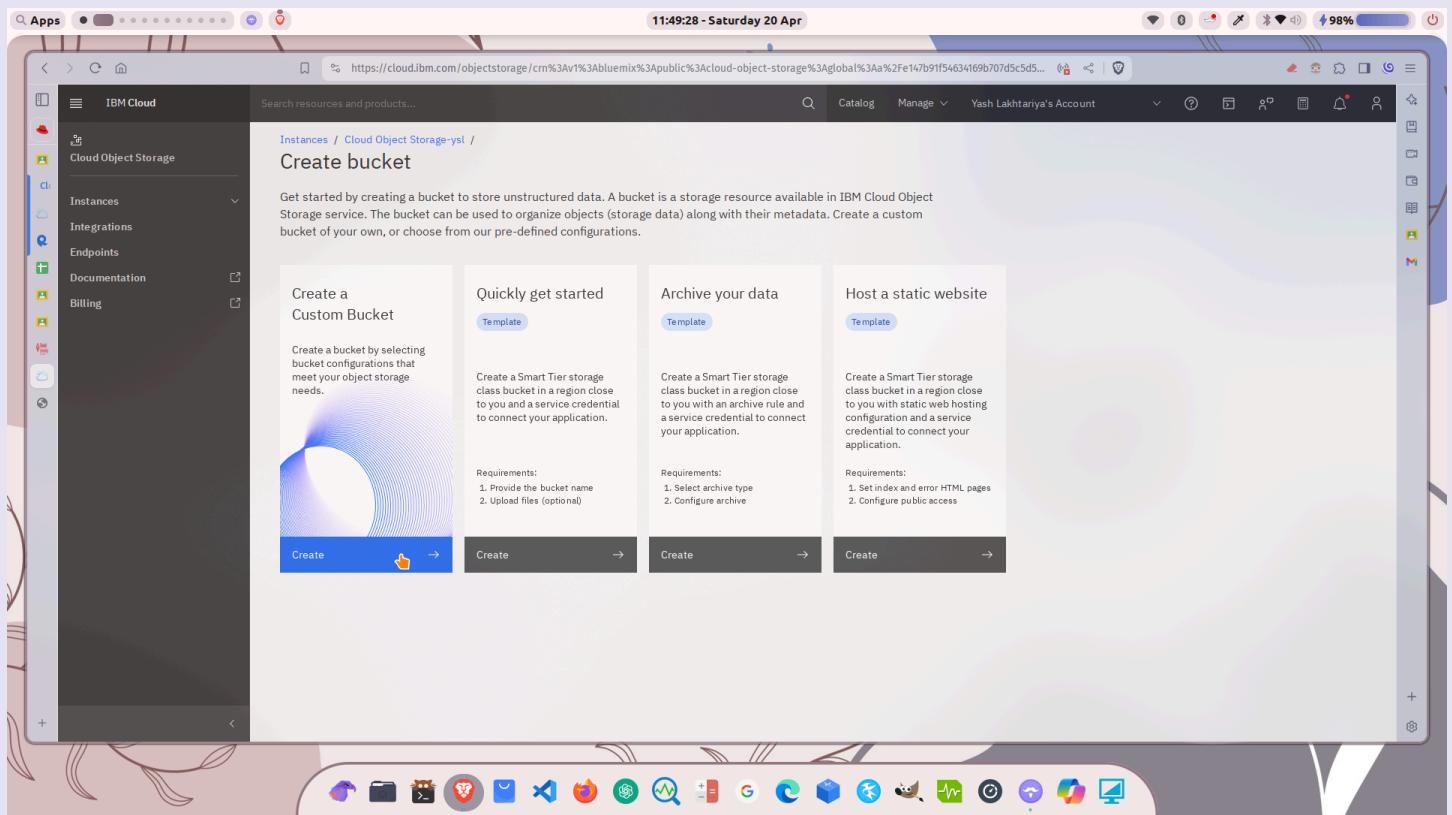
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2. Create new custom bucket to store objects



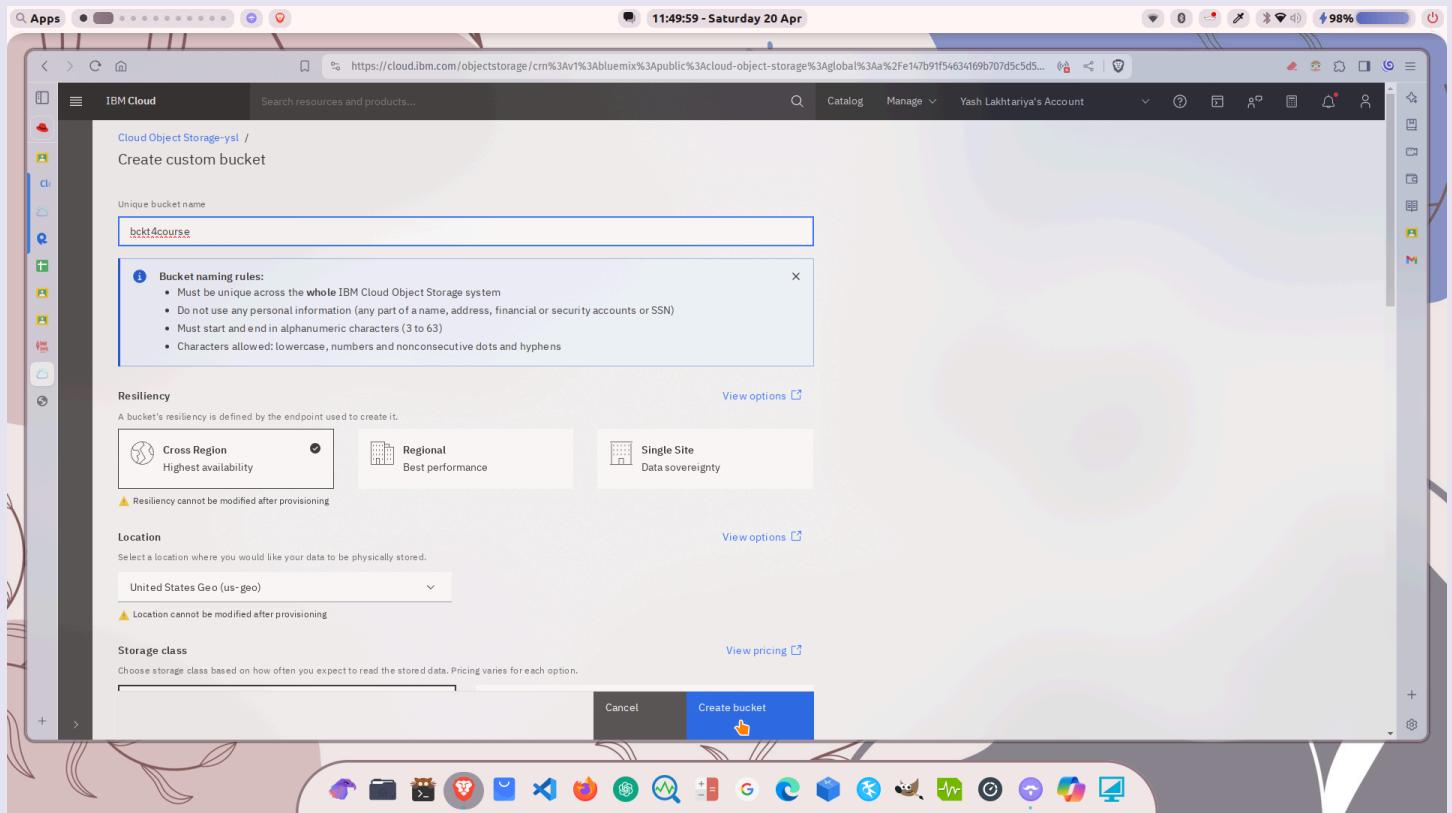
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3. It must have unique name and region should be global for high availability



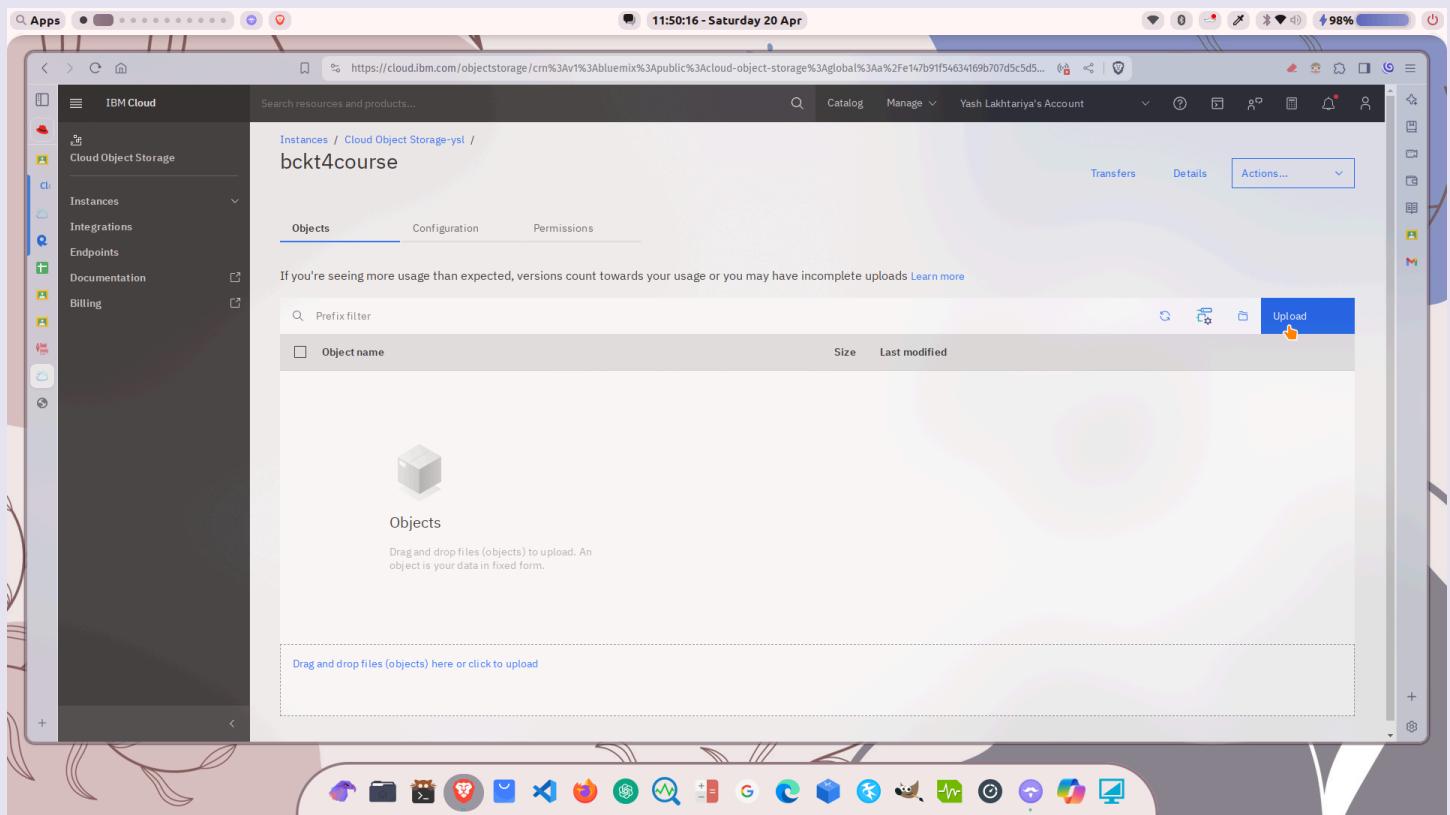
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4. Now, by clicking on Upload button in bucket page, add file



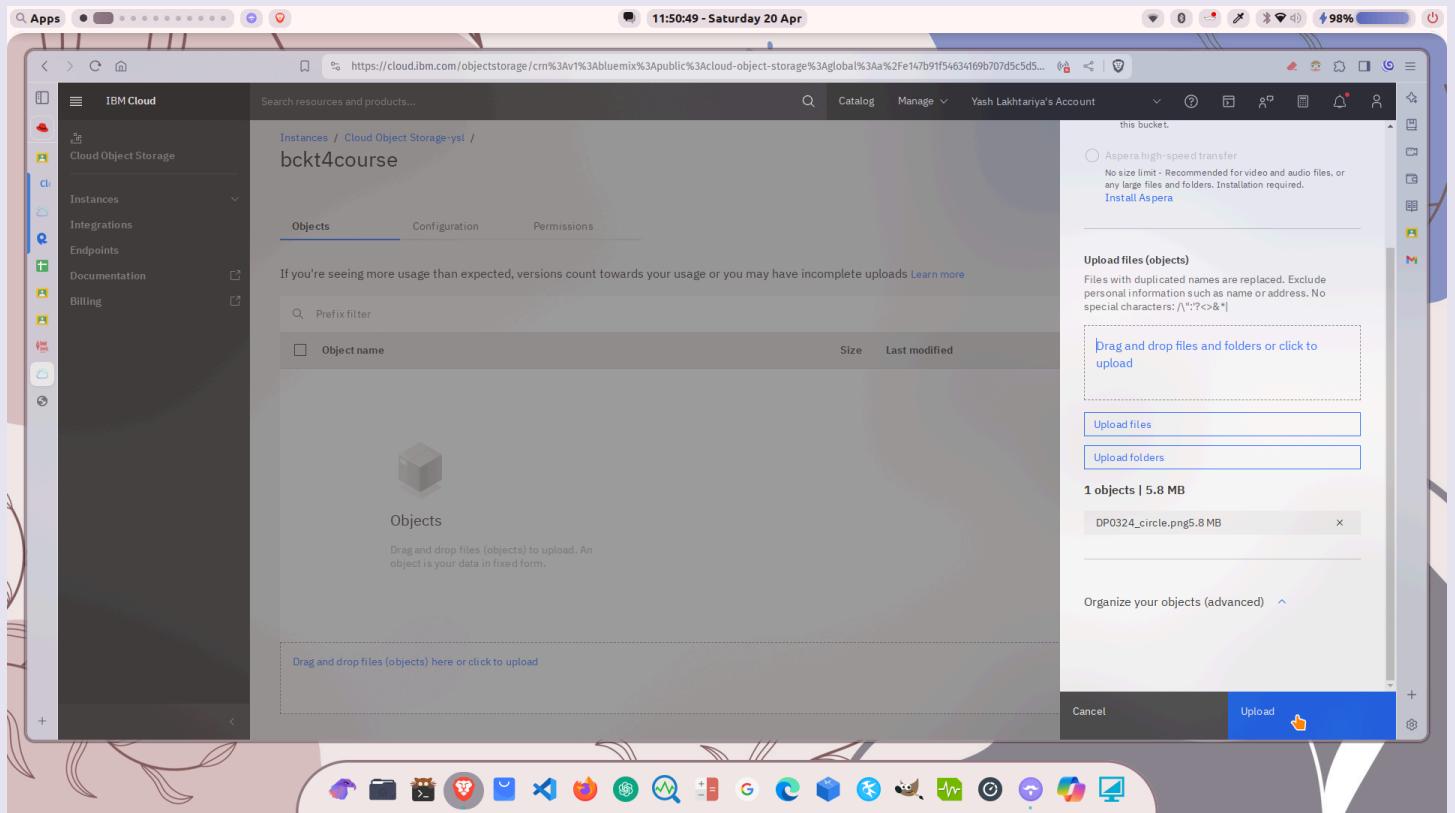
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5. Click upload files and upload any file



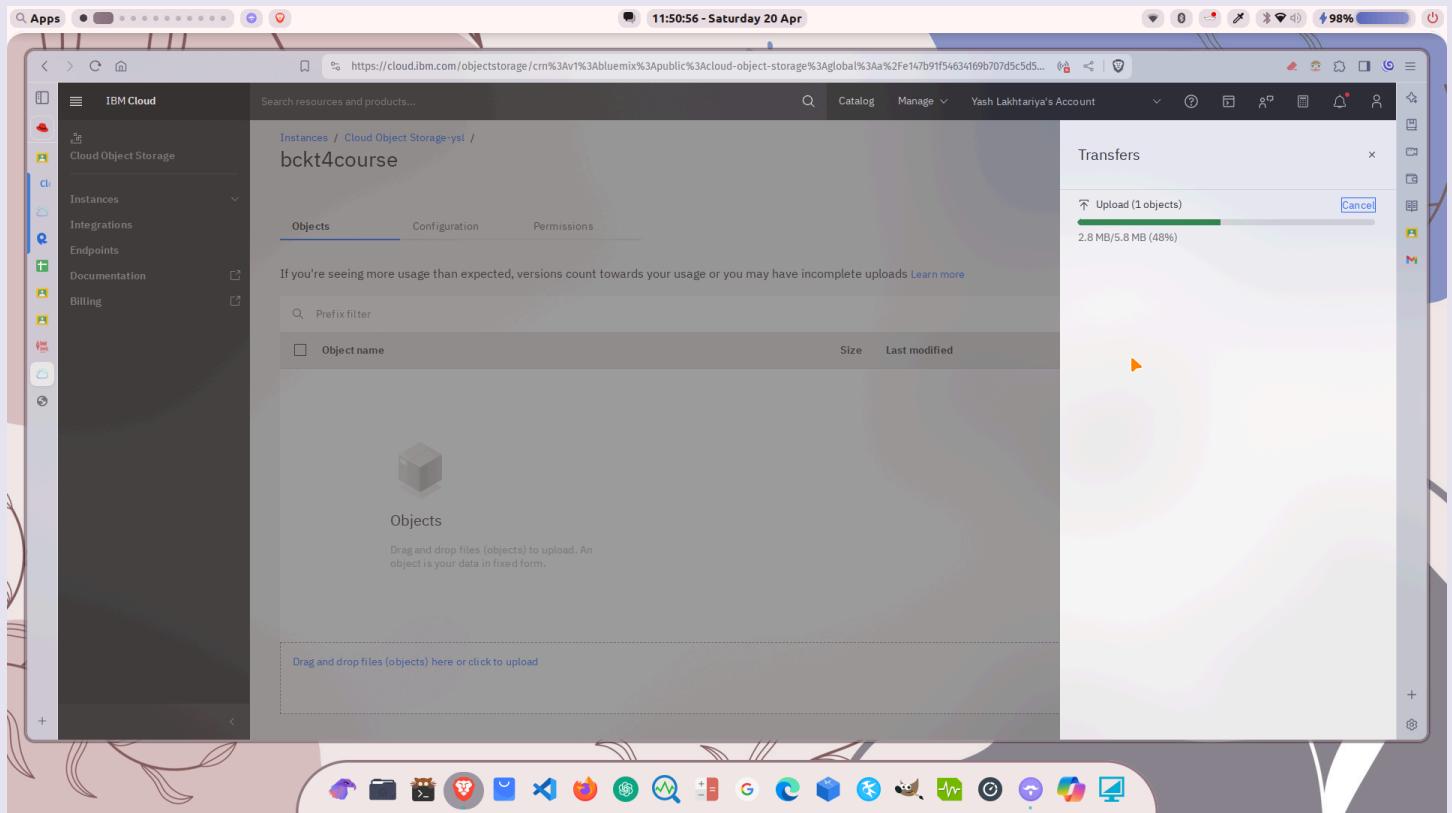
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6. Wait for upload to finish



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7. In object details, there is no Public URL as it is private

The screenshot shows a web browser window for the IBM Cloud Object Storage service. The URL in the address bar is <https://cloud.ibm.com/objectstorage/crn%3Av1%3Abuemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2Fe147b91f54634169b707d5c5d5...>. The page displays the details for an object named "DP0324_circle.png" located in the "bckt4course" bucket. The "Object details" section shows the following information:

- Last modified: 2024-04-20 11:51 AM
- Object size: 5.8 MB
- Storage class: Smart Tier
- Tags: 0 Tags

The "Access with Data Engine" section contains the following details:

- Object Data Engine URL: `cos://us/bckt4course/DP0324_circle.png`
- Data Engine instance: No available instance

At the bottom of the page, there is a link to "Open in Data Engine". The browser's status bar at the top right indicates the time as 11:51:12 - Saturday 20 Apr and battery level at 98%.

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8. In Bucket, go to Permissions tab and create Access Policy for Object Reader Public Access

The screenshot shows the IBM Cloud Object Storage interface. The left sidebar has 'Cloud Object Storage' selected under 'Instances'. The main area shows a bucket named 'bckt4course'. The 'Permissions' tab is active. Under 'Bucket access policies', there is a section for 'Public access' with the status 'Enabled' and role 'Object Reader'. A blue button labeled 'Create access policy' is highlighted with a cursor. Other sections like 'Context-based restrictions' and 'Firewall (legacy)' are also visible.

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9. Now, in object details, there is public URL

The screenshot shows the IBM Cloud Object Storage interface. On the left, the sidebar has 'Cloud Object Storage' selected. In the center, under 'Instances / Cloud Object Storage-ysl / bckt4course', the 'Objects' tab is active, showing a single file named 'DP0324_circle.png'. A warning message states: 'Warning: All objects in this bucket have public access.' Below the file name, there are 'Download object' and 'Delete object' buttons. The 'Overview' tab is selected, showing 'Object details' for 'DP0324_circle.png'. The details include: Last modified: 2024-04-20 11:51 AM, Object size: 5.8 MB, Storage class: Smart Tier, and Tags: 0 Tags. The 'Object Public URL' is listed as https://bckt4course.s3.us.cloud-object-storage.appdomain.cloud/DP0324_circle.png. A 'Copy to clipboard' button is visible next to the URL. The 'Access with Data Engine' section indicates that the file is supported for Data Engine access, with the URL cos://us/bckt4course/DP0324_circle.png provided. A note says 'Data Engine is going away. For other query options, take a look at IBM Analytics Engine.' At the bottom, it says 'No available instance' and has a 'Open in Data Engine' button.

Public URL : [Click here to visit my public object](https://bckt4course.s3.us.cloud-object-storage.appdomain.cloud/DP0324_circle.png)

Or Link :

https://bckt4course.s3.us.cloud-object-storage.appdomain.cloud/DP0324_circle.png

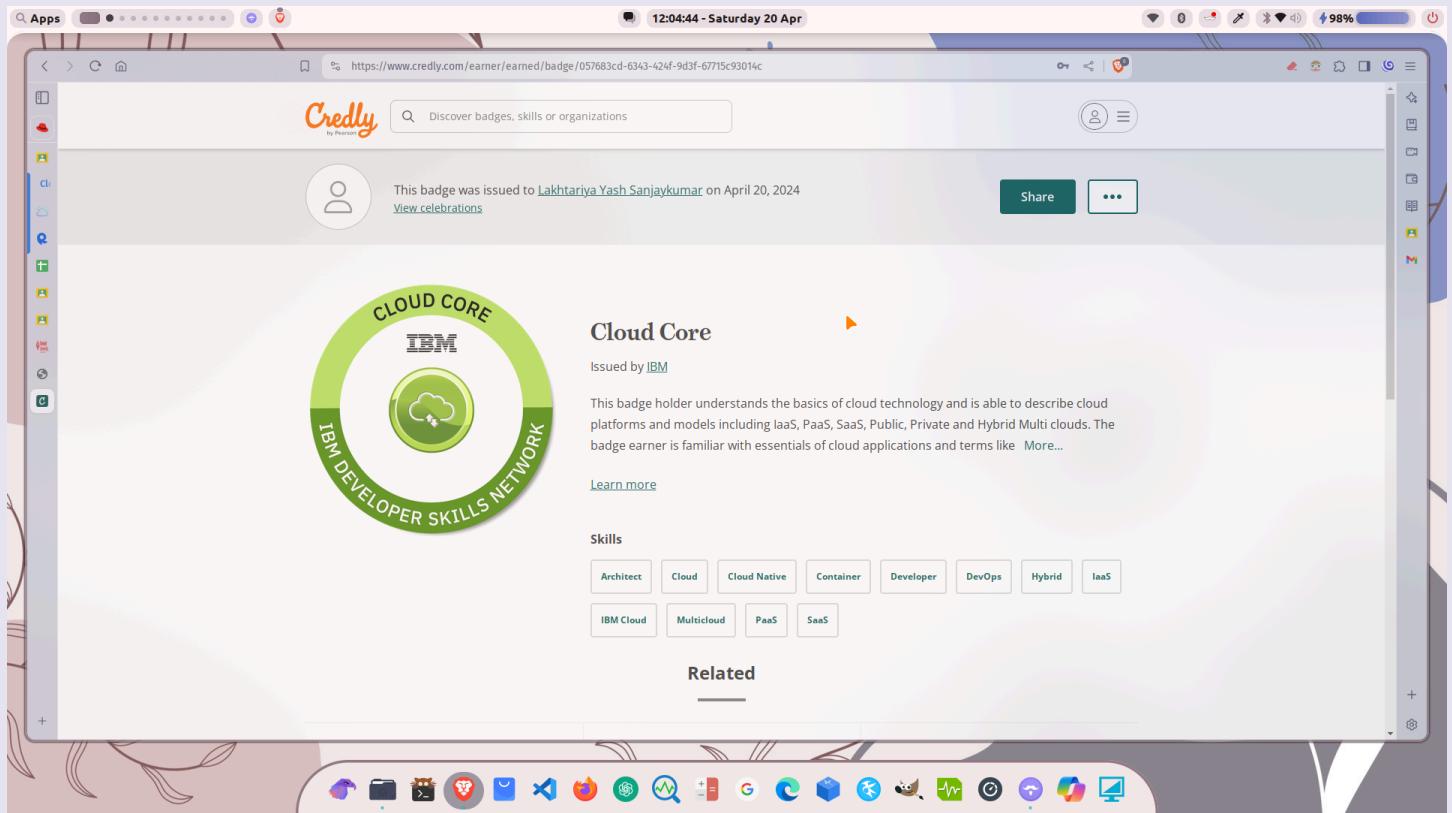
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Course Badge :



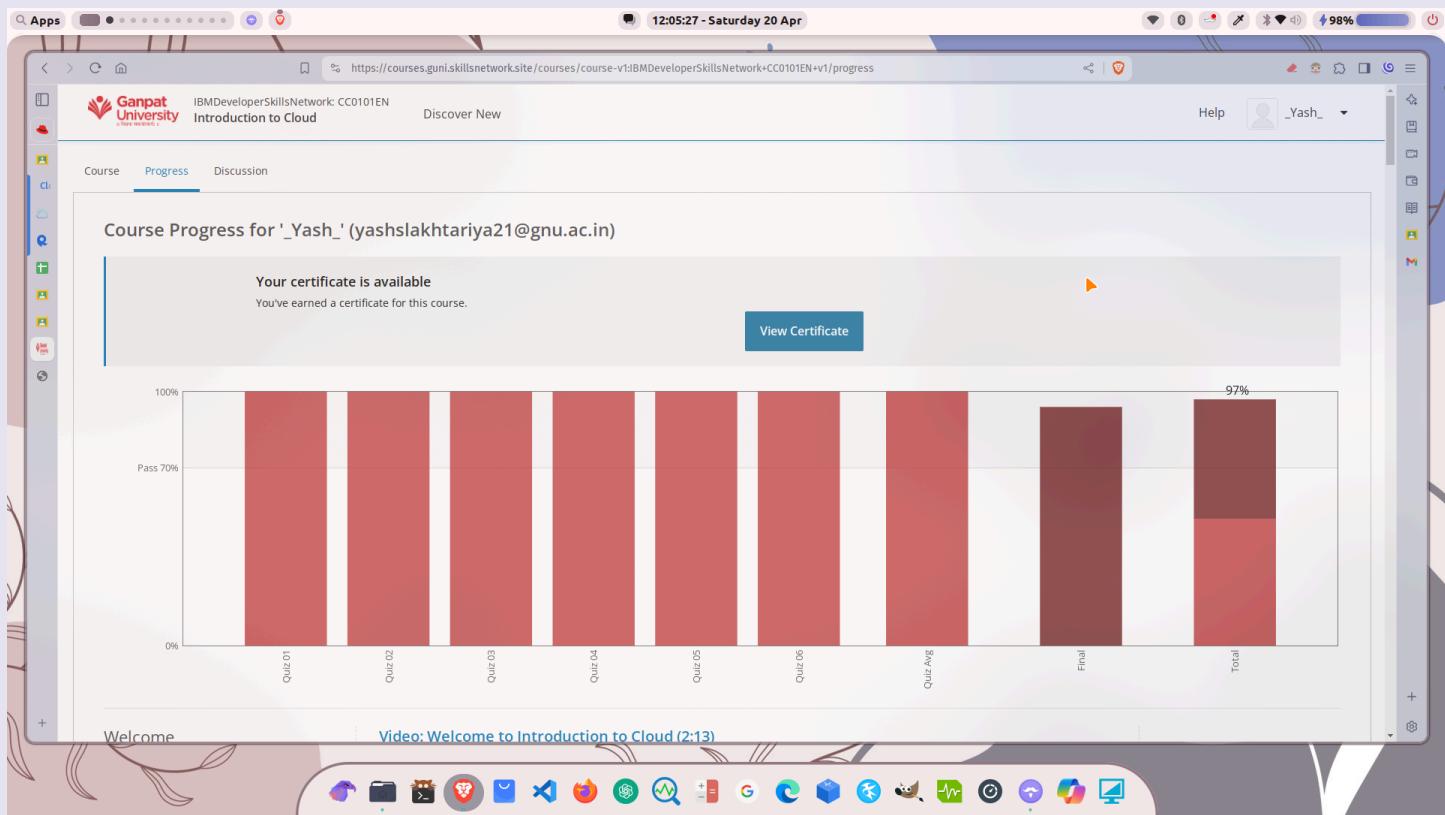
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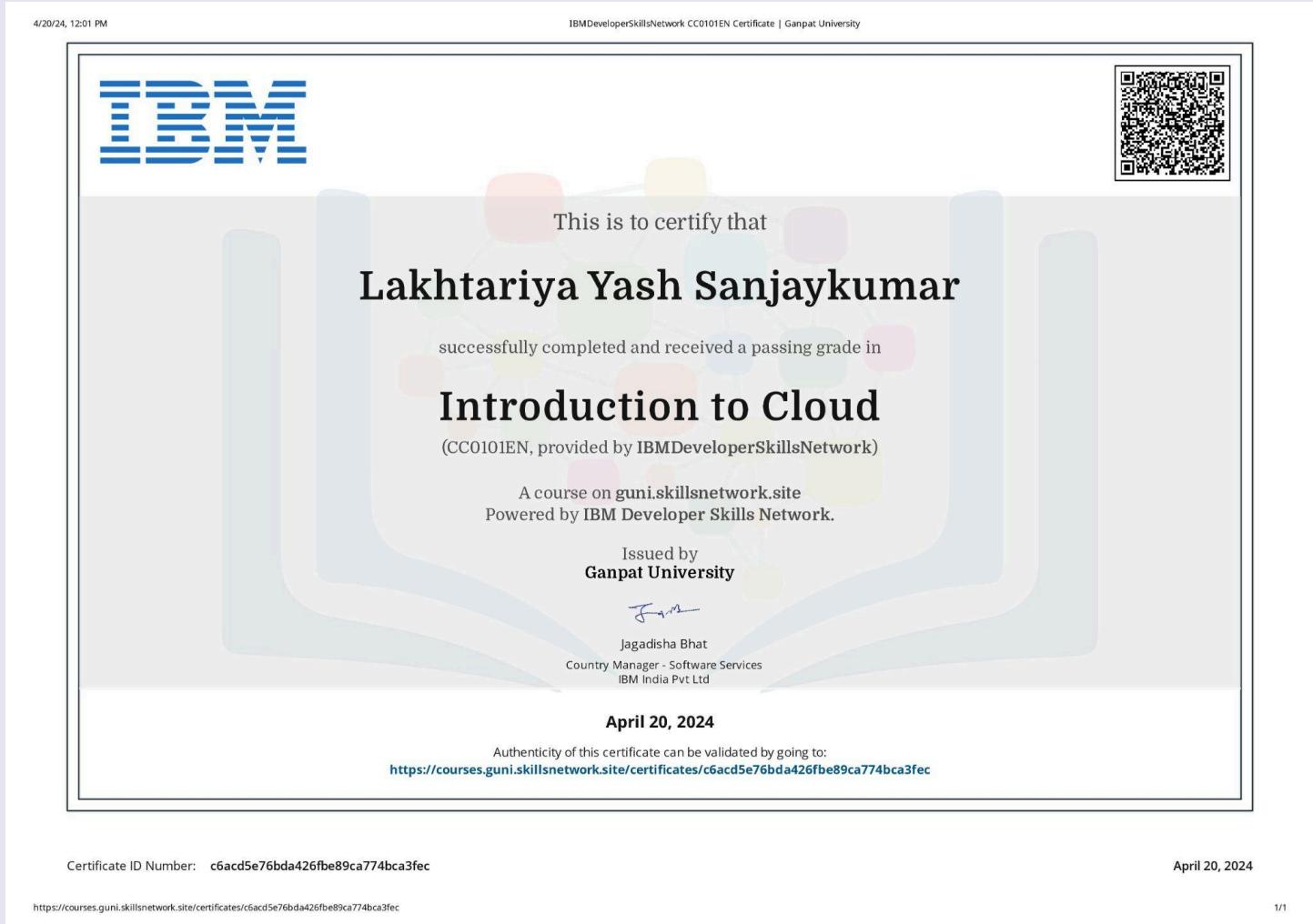
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Course Progress :



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Course Completion Certificate :



Certificate link :

<https://courses.guni.skillsnetwork.site/certificates/c6acd5e76bda426fbe89ca774bca3fec>

Badge Link :

https://www.credly.com/badges/057683cd-6343-424f-9d3f-67715c93014c/public_url