

## Assignment-3

Date	10 October 2022
Team ID	PNT2022TMID30621
Project Name	Skill and Job Recommender Application

### 1. CREATE A BUCKET IN IBM OBJECT STORAGE.

The screenshot shows the IBM Cloud Object Storage console. The left sidebar contains navigation links: Cloud Object Storage, Storage instances, Cloud Object Storage-7b, Buckets (selected), Integrations, Endpoints, Usage details, Service credentials, Connections, and Plan. The main content area is titled 'Buckets' and includes a description: 'Buckets serve as containers for objects, and can be individually configured in terms of their location, resiliency, billing rates, security, and object lifecycle rules.' Below this is a table with columns: Name, Public access, Location, Storage class, and Created. A single bucket named 'jsbot' is listed with 'Yes' for public access, 'jp-tok' for location, 'Smart Tier' for storage class, and '2022-10-31 10:14 PM' for the creation time. A 'Create bucket' button is visible in the top right of the table area. The browser's address bar shows the URL 'cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3AAa%2Fd09ee29f829344568851734f3a63206d%3Abe6eaf2f-a9f3-4858-9eac-9864967ce...'. The Windows taskbar at the bottom shows the search bar and various application icons.

Name	Public access	Location	Storage class	Created
jsbot	Yes	jp-tok	Smart Tier	2022-10-31 10:14 PM

**Upload an 5 images to ibm object storage and make it public.  
Write html code todisplaying all the 5 images.**

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Cloud Object Storage - IBM Cloud

New Tab

cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2Fd09ee29f829344568851734f3a63206d%3Abe6eaf2f-a9f3-4858-9eac-9864967ce...

IBM Cloud

Search resources and products...

CatalogManageAnusuya Rajavel's Acco...

Cloud Object Storage

Storage instances

Cloud Object Storage-7b

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Storage / Cloud Object Storage-7b / jsbot

TransfersDetailsActions...

ObjectsConfigurationPermissions

If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads [Learn more](#)

Prefix filter

☐

Object name

Archived ⓘ

Size

Last modified

☐

a1.png

144.0 KB

2022-10-31 10:16 PM

☐

a2.png

123.6 KB

2022-10-31 10:16 PM

☐

a3.png

108.9 KB

2022-10-31 10:16 PM

☐

a4.png

144.0 KB

2022-10-31 10:17 PM

☐

a5.png

108.7 KB

2022-10-31 10:17 PM

Drag and drop files (objects) here or click to upload

Upload

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Cloud Object Storage - IBM Cloud

New Tab

cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2Fd09ee29f829344568851734f3a63206d%3Abe6eaf2f-a9f3-4858-9eac-9864967ce...

IBM Cloud

Search resources and products...

CatalogManageAnusuya Rajavel's Acco...

Cloud Object Storage

Storage instances

Cloud Object Storage-7b

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Bucket access policies

Manage access to this bucket by creating IAM policies for users and service IDs. Users and service IDs must also have an instance level viewer role (or higher) to use the console or to list buckets using the REST API.

Access policies

Public access

Access policy update

Access group policy created

A new access policy for this bucket was created for the group:  
Public Access  
To delete/edit go to the [IAM console](#).

Status: Enabled

Role for the policy: Content Reader

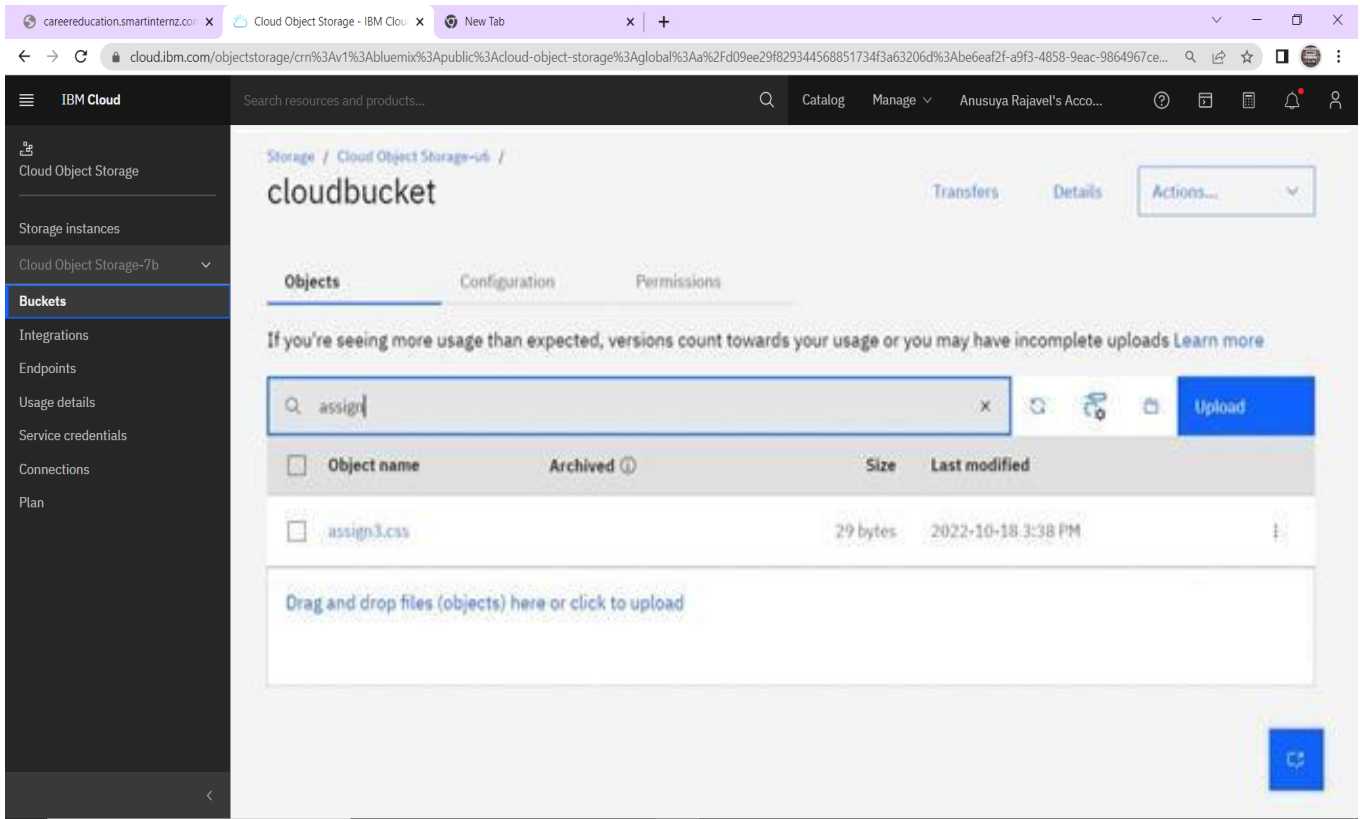
As a Content Reader, one can read and list objects in the bucket.

Create access policy

Context-based restrictions

Firewall (legacy)

## 2. Upload a css page to the object storage and use the same page in your HTML code.

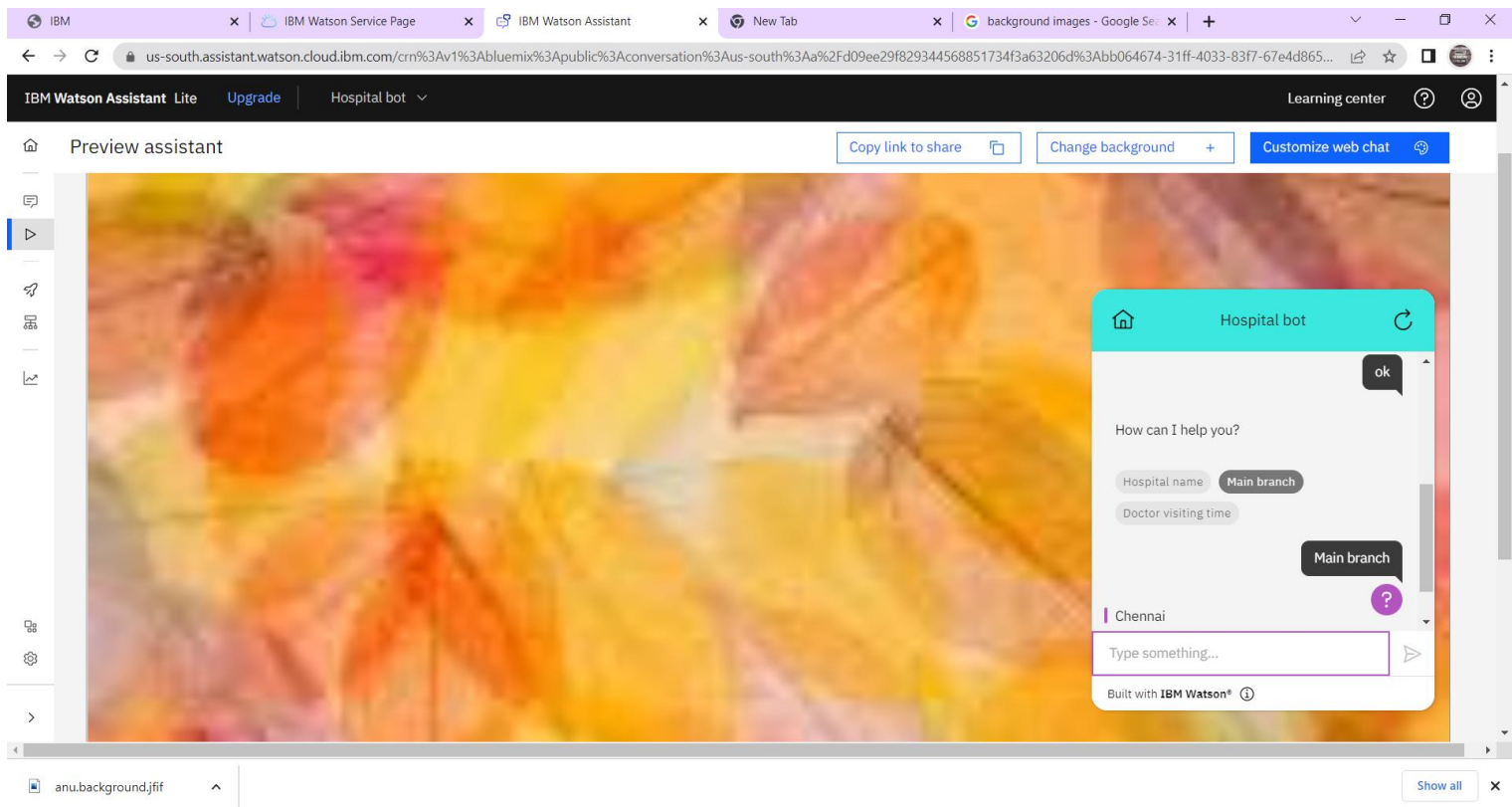
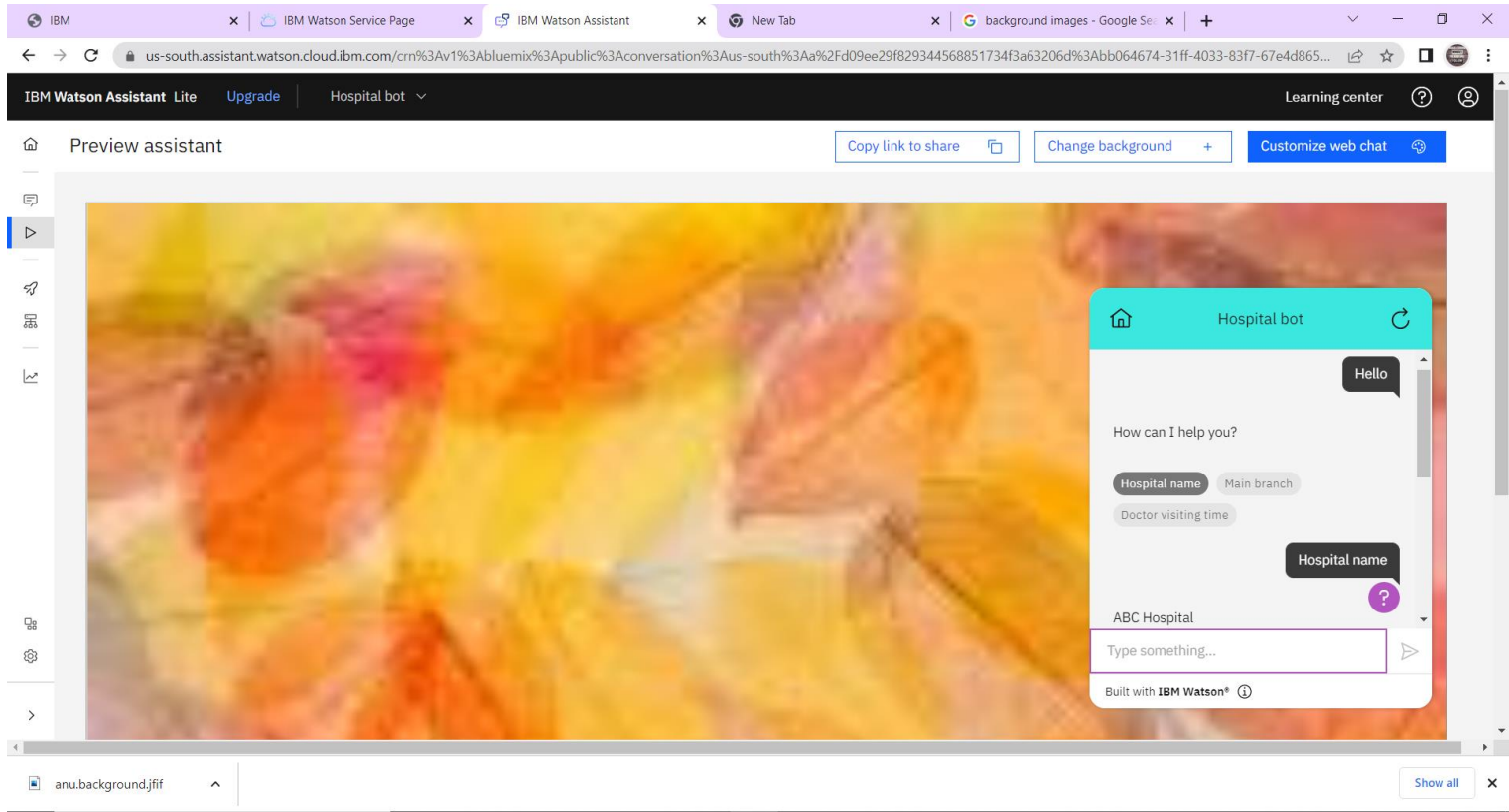


```
*index - Notepad
File Edit Format View Help
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>Home</title>
<link rel="stylesheet" href="{url_for('redirect_to',link='https://s3.jp-tok.cloud-object-storage.appdomain.cloud/cloudbucket/assign3.css')}" type="text/css">
<script>
window.watsonAssistantChatOptions = {
  integrationID: "6979e555-64d5-451a-b9e6-23ba5730b9bf", // The ID of this integration.
  region: "us-south", // The region your integration is hosted in.
  serviceInstanceID: "bb064674-31ff-4033-83f7-67e4d8652e9e", // The ID of your service instance.
  onLoad: function(instance) { instance.render(); }
};
setTimeout(function(){
  const t=document.createElement('script');
  t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" + (window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
  document.head.appendChild(t);
});
</script>
</head>
<body>
<form action="/uploader" method="POST" enctype="multipart/form-data">
<input type="text" placeholder="Enter file name" name="filename" />
<br />
<br />
<input type="file" name="file" />
<br />
<br />
<input type="submit" />

</form>

<br/>
<br/>
<br/>
<div style="border: 1px solid #E0E0E0;margin:10px;">
<h3>Filename : {{row}} </h3>
</td>
</div>
<% endfor %>
</body>
</html>
```

### 3. Design a chatbot using IBM Watson assistant for hospital.



## Web URL for Assistant:

<https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https%3A%2F%2Fus-south.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-bb064674-31ff-4033-83f7-67e4d8652e9e%3A%3A04a652f2-4a1f-46e7-9677-a400a75fc148&integrationID=6979e555-64d5-451a-b9e6-23ba5730b9bf&region=us-south&serviceInstanceID=bb064674-31ff-4033-83f7-67e4d8652e9e>

## 4. Create Watson assistant service with 10 steps and use 3 conditions in it. Load thatscript in HTML page.

The screenshot displays the IBM Watson Assistant interface. On the left, a vertical list of 10 steps is shown. Step 6 is highlighted with a blue border. The main area on the right shows the configuration for Step 7, which is titled "Step 7 is taken" and has a dropdown menu set to "with conditions". Below this, a "Conditions" section shows a single condition: "If All of this is true: 6. Which specialist ... is Other". The "Assistant says" section shows a text box with the prompt "Please mention your preferred specialist!". At the bottom right, there is a "Preview" button.

IBM Watson Assistant Lite Upgrade Hospital bot Learning center

Hello

Continue to next step

5 is Male

Which specialist are you looking for?

6 Cardiologist Ortho +2

Re-ask previous step(s)

6 is Other

Please mention your preferred specialist!

7 Free text

Continue to next step

At what time would you like to visit the doctor?

8 Time

Continue to next step

8 is 01:00 PM

We will let you know your appointment details in few minutes.

9

New step +

Step 7 is taken with conditions fx

Conditions 1 condition ^

If All of this is true:

6. Which specialist ... is Other x

and Add condition +

New condition group +

Assistant says

Please mention your preferred specialist!

User enters free text

Preview

## Included 3 conditions in steps:

The screenshot shows the IBM Watson Assistant interface for a bot named 'Hospital bot'. The left sidebar displays a list of conversation steps. Step 2 is highlighted, showing a condition '1 is Hospital name' and a response 'ABC Hospital'. The main panel shows the configuration for Step 2, which is taken 'with conditions'. The conditions section shows a single condition: 'If All of this is true: 1. How can I help yo... is Hospital name'. The assistant says section shows the response 'ABC Hospital'. A 'Preview' button is visible at the bottom right.

IBM Watson Assistant Lite Upgrade Hospital bot Learning center

Hello

Conversation steps

How can I help you?

1 is Hospital name Main branch +1

Continue to next step

2 is Hospital name

ABC Hospital

Free text

Re-ask previous step(s)

3 is Main branch

Chennai

Free text

Re-ask previous step(s)

4 is Doctor visiting time

Between 10am to 4pm.

Free text

New step +

Step 2 is taken with conditions

Conditions 1 condition

If All of this is true:

1. How can I help yo... is Hospital name

and Add condition +

New condition group +

Assistant says

ABC Hospital

User enters free text

Preview

The screenshot shows the IBM Watson Assistant interface for a bot named 'Hospital bot'. The left sidebar displays a list of conversation steps. Step 7 is highlighted, showing a condition '6 is Other' and a response 'Please mention your preferred specialist!'. The main panel shows the configuration for Step 7, which is taken 'with conditions'. The conditions section shows a single condition: 'If All of this is true: 6. Which specialist ... is Other'. The assistant says section shows the response 'Please mention your preferred specialist!'. A 'Preview' button is visible at the bottom right.

IBM Watson Assistant Lite Upgrade Hospital bot Learning center

Hello

Conversation steps

Continue to next step

5 is Male

Which specialist are you looking for?

6 is Cardiologist Ortho +2

Re-ask previous step(s)

7 is Other

Please mention your preferred specialist!

Free text

Continue to next step

8 is Time

At what time would you like to visit the doctor ?

Continue to next step

8 is 01:00 PM

We will let you know your appointment details in few minutes.

9

New step +

Step 7 is taken with conditions

Conditions 1 condition

If All of this is true:

6. Which specialist ... is Other

and Add condition +

New condition group +

Assistant says

Please mention your preferred specialist!

User enters free text

Preview

IBM

IBM Watson Service Page

IBM Watson Assistant

New Tab

us-south.assistant.watson.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Aconversation%3Aus-south%3Aa%2Fd09ee29f829344568851734f3a63206d%3Abb064674-31ff-4033-83f7-67e4d865...

IBM Watson Assistant Lite Upgrade Hospital bot Learning center

Hello

6 is Other

Please mention your preferred specialist!

Free text

Continue to next step

7

At what time would you like to visit the doctor ?

Time

Continue to next step

8 is 01:00 PM

We will let you know your appointment details in few minutes.

Free text

Continue to next step

9 is Defined

Your appointment is fixed at 1.30pm.

Action complete

New step +

Step 9 is taken with conditions

Conditions1 condition

If All of this is true:

8. At what time wou... is at 01:00 PM

and Add condition +

New condition group +

Assistant says

B I % & #

We will let you know your appointment details in few minutes.

User enters free text

Preview

## Index.html

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta http-equiv="X-UA-Compatible" content="IE=edge" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Home</title>

    <link rel="stylesheet" href="{ {url_for('redirect_to',link='https://s3.jp-tok.cloud-object-storage.appdomain.cloud/cloudbucket/assign3.css')} }" type="text/css">
  <script>
window.watsonAssistantChatOptions = {
integrationID: "6979e555-64d5-451a-b9e6-23ba5730b9bf", // The ID of this integration.
region: "us-south", // The region your integration is hosted in.
serviceInstanceID: "bb064674-31ff-4033-83f7-67e4d8652e9e", // The ID of your service instance.
onLoad: function(instance) { instance.render(); }
};
setTimeout(function(){
const t=document.createElement('script');
t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
document.head.appendChild(t);
});
</script>

  </head>

  <body>

    <form action="/uploader" method="POST" enctype="multipart/form-data">

      <input type="text" placeholder="Enter file name" name="filename" />

      <br />

      <br />

      <input type="file" name="file" />

      <br />

      <br />

      <input type="submit" />

    </form>

  </body>

</html>
```



```

</form>

<br/>

<br/>

<br/>

{% for row in files %}

    <div style="border: 1px solid #EFEFEF;margin:10px;">

        <h3>Filename : {{row}} </h3>

        </td>

    </div>

{% endfor %}

</body>

</html>

```

## App.py

```

import io

from flask import Flask,redirect,url_for,render_template,request

import ibm_boto3

from ibm_botocore.client import Config, ClientError

COS_ENDPOINT="https://s3.jp-tok.cloud-object-storage.appdomain.cloud"

COS_API_KEY_ID=""

COS_INSTANCE_CRN=""


cos = ibm_boto3.resource("s3",
    ibm_api_key_id=COS_API_KEY_ID,
    ibm_service_instance_id=COS_INSTANCE_CRN,
    config=Config(signature_version="oauth"),
    endpoint_url=COS_ENDPOINT
)

```

```
app=Flask(__name__)
```

```
@app.route('/')
```

```
def index():
```

```
try:
```

```
    files = cos.Bucket('cloudbucket').objects.all()
```

```
    files_names = []
```

```
    for file in files:
```

```
        files_names.append(file.key)
```

```
        print(file)
```

```
        print("Item: {0} ({1} bytes)".format(file.key, file.size))
```

```
    return render_template('index.html',files=files_names)
```

```
except ClientError as be:
```

```
    print("CLIENT ERROR: {0}\n".format(be))
```

```
    return render_template('index.html')
```

```
except Exception as e:
```

```
    print("Unable to retrieve bucket contents: {0}".format(e))
```

```
    return render_template('index.html')
```

```
@app.route('/uploader',methods=['POST'])
```

```
def upload():
```

```
name_file=request.form['filename']
```

```
f = request.files['file']
```

```
try:
```

```
    part_size = 1024 * 1024 * 5
```

```
    file_threshold = 1024 * 1024 * 15
```

```
    transfer_config = ibm_boto3.s3.transfer.TransferConfig(
```

```
        multipart_threshold=file_threshold,
```

```
        multipart_chunksize=part_size
    )

    content = f.read()
    cos.Object('cloudbucket', name_file).upload_fileobj(
        Fileobj=io.BytesIO(content),
        Config=transfer_config
    )
    return redirect(url_for('index'))
```

```
except ClientError as be:
    print("CLIENT ERROR: {0}\n".format(be))
    return redirect(url_for('index'))
```

```
except Exception as e:
    print("Unable to complete multi-part upload: {0}".format(e))
    return redirect(url_for('index'))
```

```
if __name__ == '__main__':
    app.run(host='0.0.0.0', port=8080, debug=True)
```