

## Assignment-3

Date	10 October 2022
Team ID	PNT2022TMID30600
Project Name	Skill and Job Recommender Application

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

The screenshot displays the IBM Cloud Object Storage 'Buckets' management interface. A success notification indicates that the bucket 'jobskillbucket' has been created. The table below lists the existing buckets:

Name	Public access	Location	Storage class	Created
jobskill	No	jp-tok	Smart Tier	2022-10-20 3:28 PM
jobskillbucket	No	jp-tok	Smart Tier	2022-10-20 2:39 PM

### 2. Upload an 5 images to ibm object storage and make it public. write html code to displaying all the 5 images.

Cloud Object Storage - IBM Cloud x job images - Google Search x +

cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2F608ec8ba94d341f78c9cea0fc16b1...

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Cloud Object Storage

Storage instances

Cloud Object Storage-zt

**Buckets**

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Storage / Cloud Object Storage-zt / **jobskillbucket** Transfers Details Actions...

**Objects** Configuration Permissions

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

Prefix filter Upload

<input type="checkbox"/>	Object name	Archived ⓘ	Size	Last modified	
<input type="checkbox"/>	<a href="#">image1.jpg</a>		8.4 KB	2022-10-20 2:42 AM	⋮
<input type="checkbox"/>	<a href="#">image2.jpg</a>		5.0 KB	2022-10-20 2:43 AM	⋮
<input type="checkbox"/>	<a href="#">image3.jpg</a>		9.5 KB	2022-10-20 2:43 AM	⋮
<input type="checkbox"/>	<a href="#">image4.jpg</a>		9.3 KB	2022-10-20 2:43 AM	⋮

02:44 20/10/2022

Cloud Object Storage - IBM Cloud x job images - Google Search x Sent Mail - arunapalanel15602 x +

cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2F608ec8ba94d341f78c9cea0fc16b1...

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Cloud Object Storage

Storage instances

Cloud Object Storage-zt

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Select a user: Sushmitha Govindaraje (sushm x v Add users

Role for this bucket:

**Access policy update**

**User policy created**

A new access policy for this bucket was created for the user: Sushmitha Govindaraje (sushmi27cse@gmail.com)  
To delete/edit go to the [IAM console](#).

Public access

Context-based restrictions

Create rules to restrict access to your bucket based on resource attributes and contexts. Contexts can be a

Assignment 3 .pdf Show all x

32°C Cloudy 03:26 20/10/2022

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

The screenshot displays the IBM Cloud Object Storage interface in a web browser. The browser's address bar shows the URL: `cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3AAa%2F608ec8ba94d341f78c9cea0fc16b1...`. The left sidebar contains navigation options: Cloud Object Storage, Storage instances, Cloud Object Storage-zt, Buckets (selected), Integrations, Endpoints, Usage details, Service credentials, Connections, and Plan. The main content area is titled 'jobskill' and has tabs for 'Objects', 'Configuration', and 'Permissions'. A notification box in the top right corner states: 'A bucket created successfully! The bucket jobskillbucket has been created and is now available to add'. Below the tabs, a message reads: 'If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads Learn more'. The 'Objects' tab shows a table with columns: Object name, Archived, Size, and Last modified. One object is listed: 'assignment.css' with a size of 1.6 KB and a last modified date of 2022-10-20 3:27 AM. Below the table, there is a section for uploading files with the text 'Drag and drop files (objects) here or click to upload' and an 'Upload' button. The Windows taskbar at the bottom shows the system clock as 03:28 on 20/10/2022, with a temperature of 32°C and a cloudy weather condition.

Cloud Object Storage - IBM Cloud x job images - Google Search x Sent Mail - arunapalanivel15602 x +

cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3AAa%2F608ec8ba94d341f78c9cea0fc16b1...

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Cloud Object Storage

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Storage / Cloud Object Storage-zt / jobskill Transfers

Objects Configuration Permissions

A bucket created successfully! The bucket jobskillbucket has been created and is now available to add

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

jobskill /

Prefix filter

Upload

Object name	Archived	Size	Last modified
assignment.css		1.6 KB	2022-10-20 3:27 AM

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

Assignment 3 .pdf

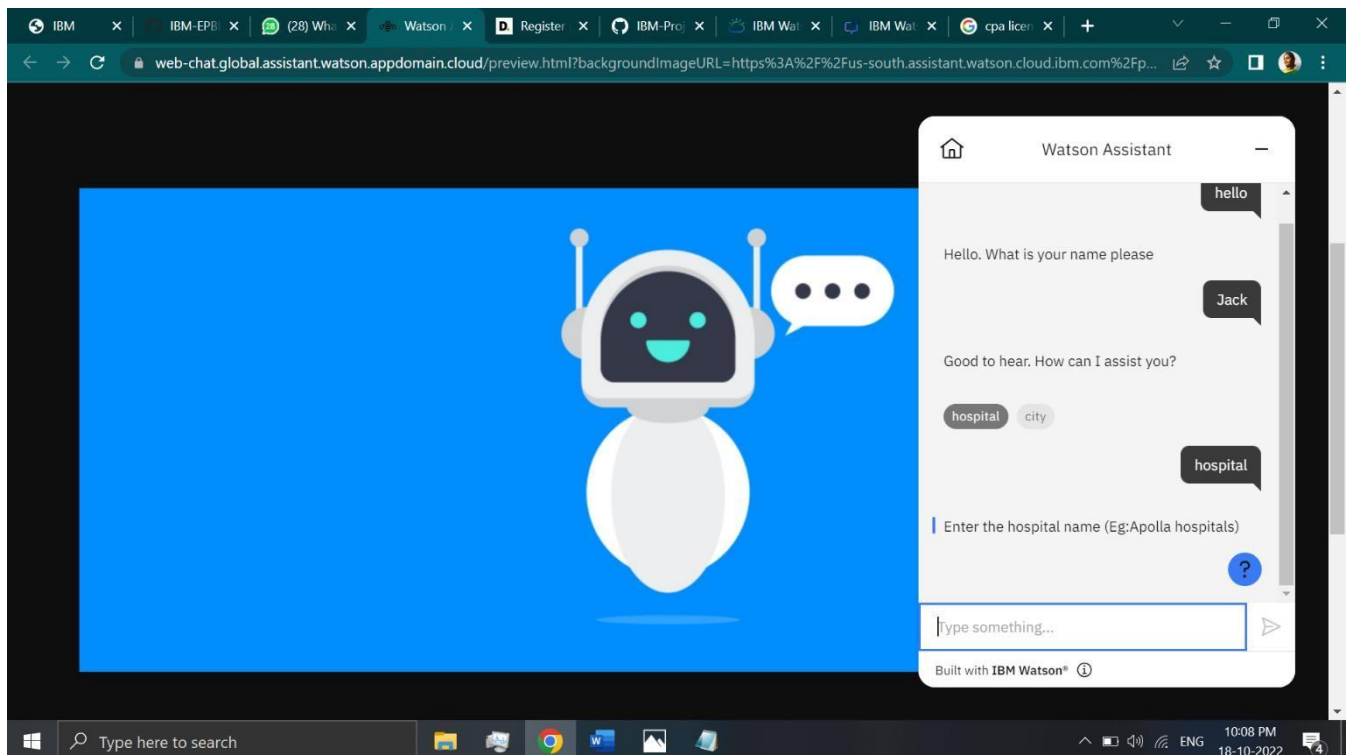
Show all

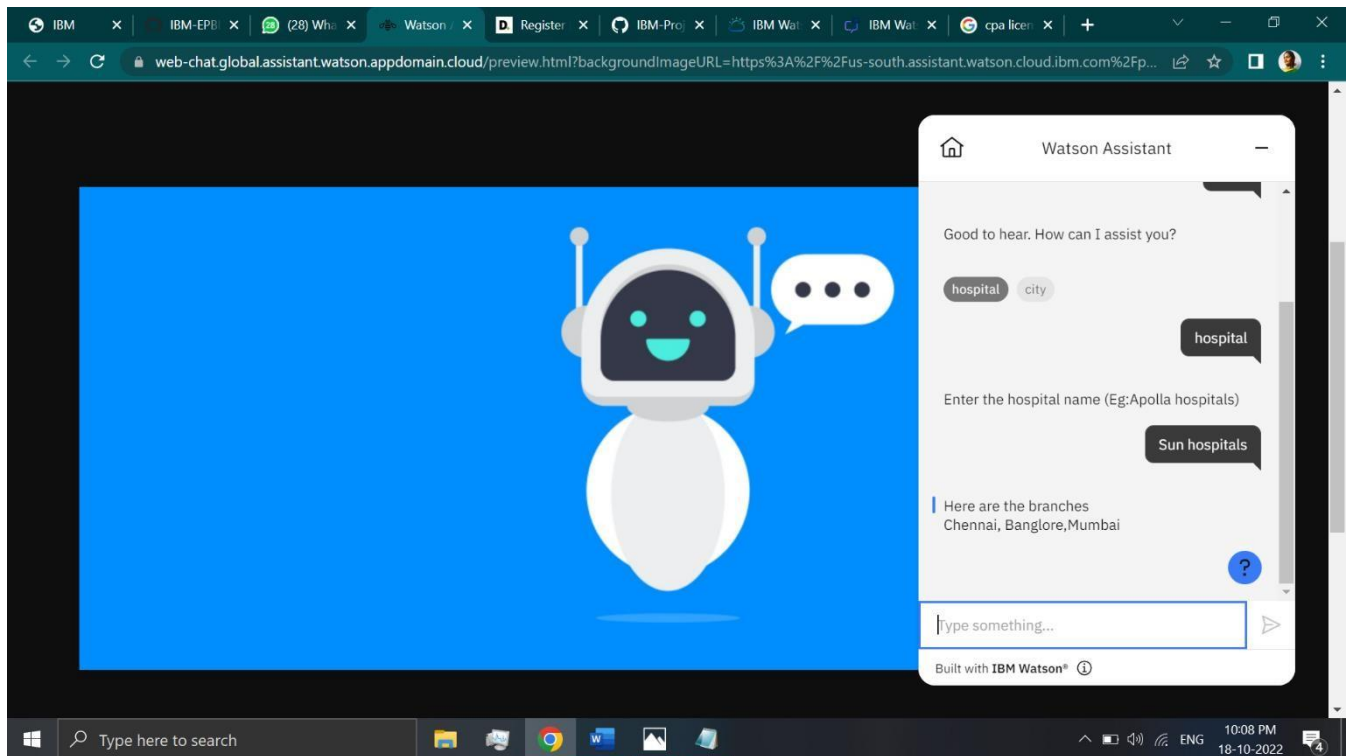
32°C Cloudy

03:28 20/10/2022

```
index.html - 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: "14b83b8f-3dfd-405f-9520-b550092892aa", // The ID of this integration.
  region: "us-south", // The region your integration is hosted in.
  serviceInstanceID: "6e95bee9-8d0b-49f6-8a2f-4125fb3a7945", // 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="/unloader" method="POST" enctype="multipart/form-data">
```

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

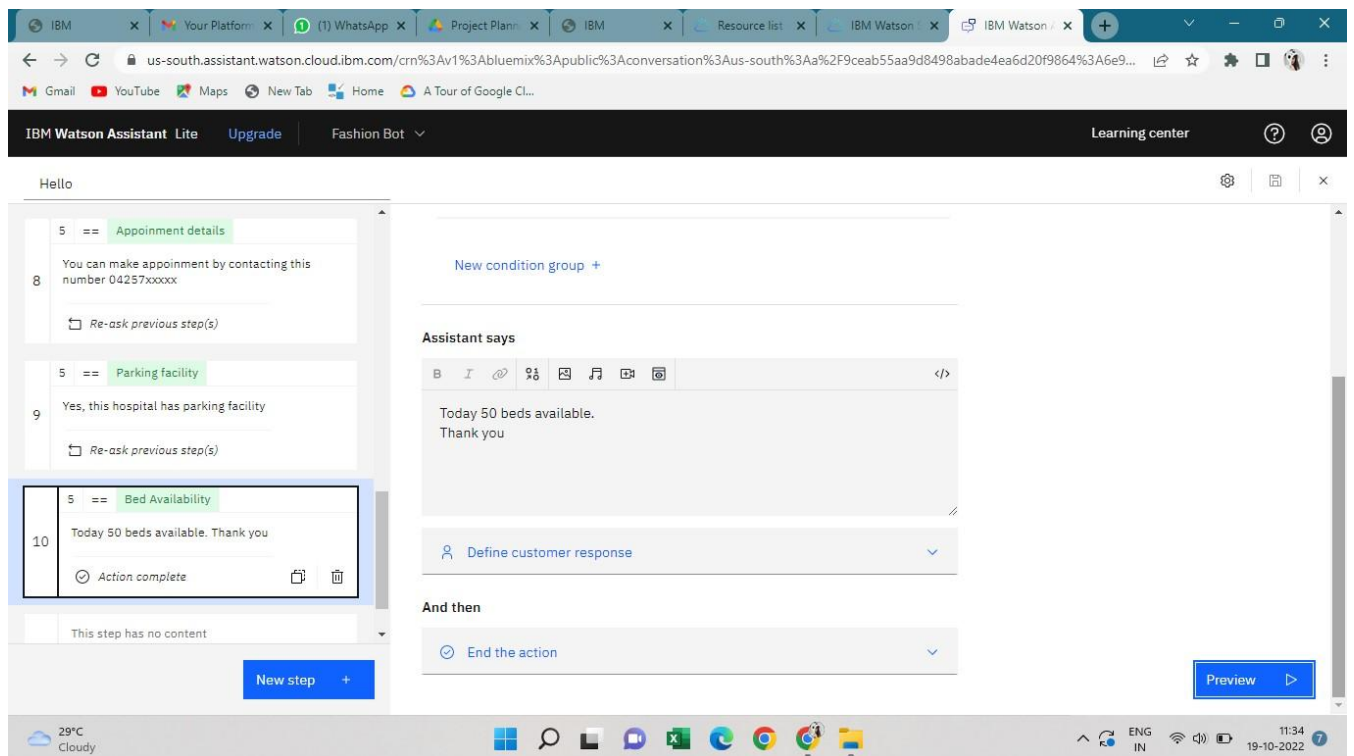




### Web URL for Assistant:

<https://webchat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageUrl=https%3A%2F%2Fus-south.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-304fa071-91cc-44bc-bfd7-98e7f124ef92%3A%3A0a1b8f67-b7d3-452a-b1bd-b9c995a4a9bb&integrationID=955f7fec-2d74-4165-bb9a-3befbfd74cd9&region=us-south&serviceInstanceID=304fa071-91cc-44bc-bfd7-98e7f124ef92>

5. **Create Watson assistant service with 10 steps and use 3 conditions in it. Load that script in HTML page.**



*Figure 1. 10 steps of conversation*

**Included 3 conditions in steps:**



IBM Watson Assistant Lite Upgrade Fashion Bot Learning center

Hello

1. Continue to next step

2. Good to hear. How can I assist you? hospital city

2 == hospital , city

3. Enter the hospital name (Eg: Apollo hospitals) Free text

4. Here are the branches Chennai, Bangalore, Mumbai

Continue to next step

New step +

Step 3 is taken with conditions

Conditions 2 conditions

If Any of this is true:

2. Good to he... is hospital

2. Good to he... is city

Add condition +

New condition group +

Assistant says

Enter the hospital name (Eg: Apollo hospitals)

Preview

29°C Cloudy 10:53 19-10-2022

IBM Watson Assistant Lite Upgrade Fashion Bot Learning center

Hello

4. Here are the branches Chennai, Bangalore, Mumbai. You can click below to know more Distance Features of h... + 2

4 == Distance

5. Hospital is 30km away from your location

4 == Features of hospital

6. Yes, The hospital you provided is a Multispeciality Hospital

Continue to next step

New step +

Step 5 is taken with conditions

Conditions 1 condition

If All of this is true:

4. Here are th... is Distance

and Add condition +

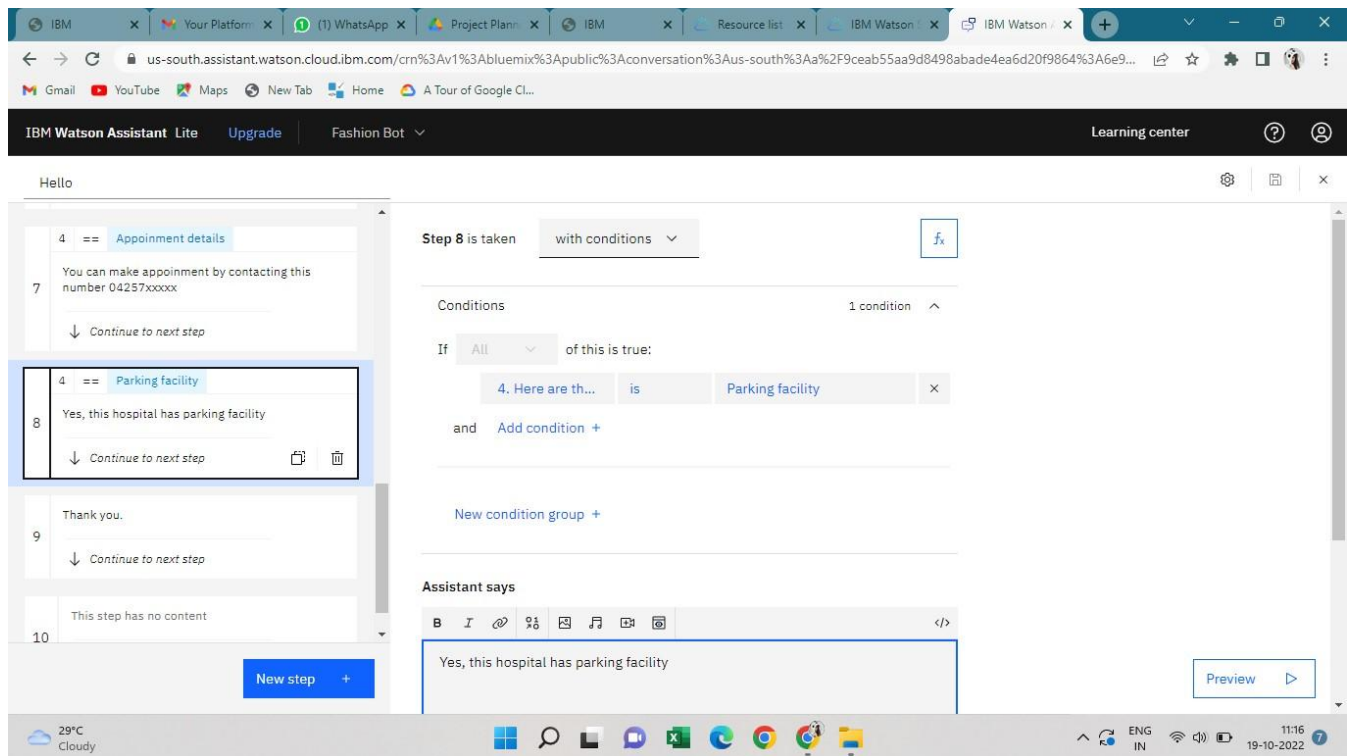
New condition group +

Assistant says

Hospital is 30km away from your location

Preview

29°C Cloudy 11:15 19-10-2022



## 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-objectstorage.appdomain.cloud/cloudbucket/assign3.css')} }" type="text/css">
```

```
<script>
```

```
    window.watsonAssistantChatOptions = {    integrationID: "14b83b8f-3dfd-405f-9520-
b550092892aa", // The ID of this integration.    region: "us-south", // The region your
```



integration is hosted in.    serviceInstanceID: "6e95bee9-8d0b-49f6-8a2f-

4125fb3a7945", // 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/>
  {% 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__)

@a
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rou
te('
```

```

/')
```

`def`
`ind`
`ex()`
`:`
`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

```