

Assignment-3

Date	22 October 2022
Team ID	PNT2022TMID29263
Project Name	Skill/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-zt, Buckets (selected), Integrations, Endpoints, Usage details, Service credentials, Connections, and Plan. The main content area is titled 'Buckets' and includes a search bar, a 'Create bucket' button, and a table of existing buckets. A green notification box in the top right corner states: 'A bucket created successfully! The bucket jobskillbucket has been created and is now available to add'. The table has columns: Name, Public access, Location, Storage class, and Created. It lists two buckets: 'jobskill' and 'jobskillbucket', both with 'No' for public access, 'jp-tok' for location, 'Smart Tier' for storage class, and creation times of 2022-10-20 3:28 PM and 2022-10-20 2:39 PM respectively. The bottom of the image shows a Windows taskbar with various application icons and a system tray displaying 32°C, Cloudy, and the time 03:30 on 20/10/2022.

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

job images - Google Search

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

IBM Cloud

Search resources and products...

Catalog Manage Sushmitha Govindaraje...

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

Object name	Archived	Size	Last modified
image1.jpg		8.4 KB	2022-10-20 2:42 AM
image2.jpg		5.0 KB	2022-10-20 2:43 AM
image3.jpg		9.5 KB	2022-10-20 2:43 AM
image4.jpg		9.3 KB	2022-10-20 2:43 AM

02:44 20/10/2022

Cloud Object Storage - IBM Cloud

job images - Google Search

Sent Mail - arunapanivel15602

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

IBM Cloud

Search resources and products...

Catalog Manage Sushmitha Govindaraje...

Cloud Object Storage

Storage instances

Cloud Object Storage-zt

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Select a user:

Sushmitha Govindaraje (sushm)

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

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.

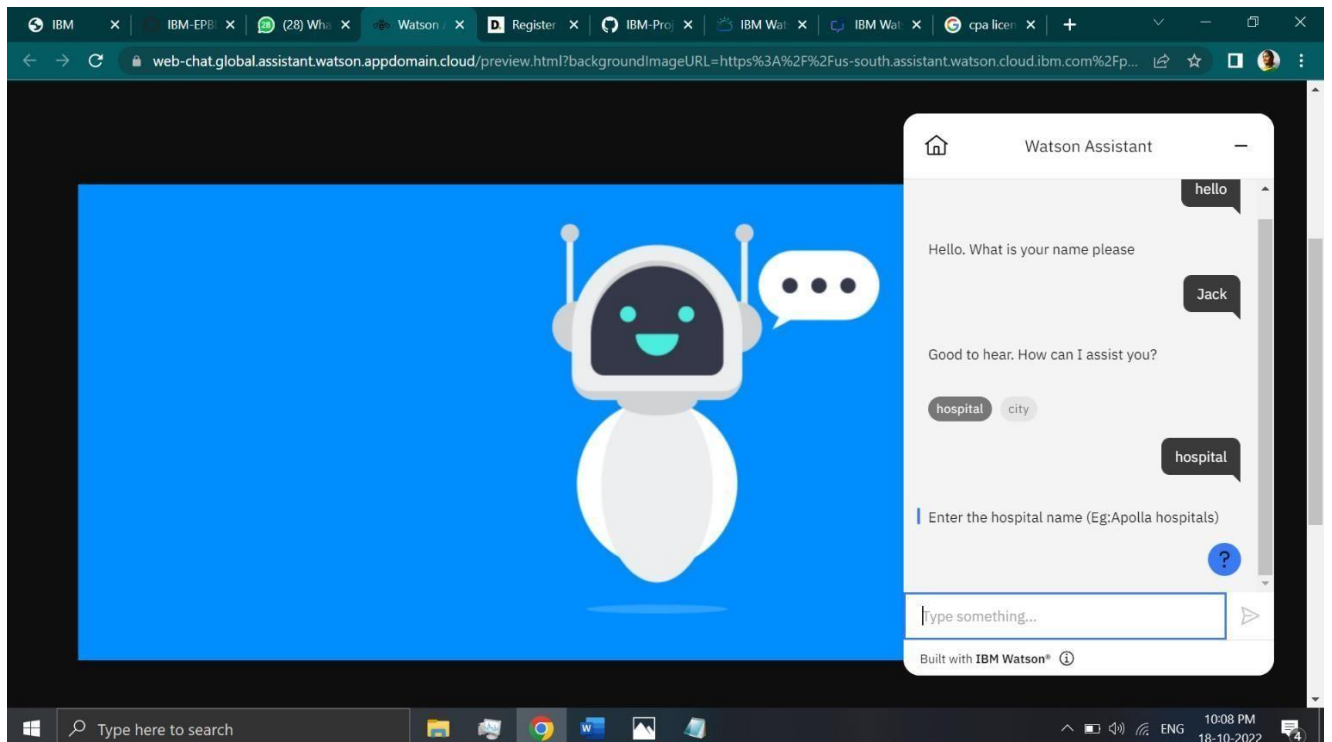
The screenshot displays the IBM Cloud Object Storage management interface. The left sidebar contains navigation options: Cloud Object Storage, Storage instances, Cloud Object Storage-zt, Buckets (selected), Integrations, Endpoints, Usage details, Service credentials, Connections, and Plan. The main content area shows the 'jobskill' bucket under the 'Objects' tab. A table lists the objects in the bucket:

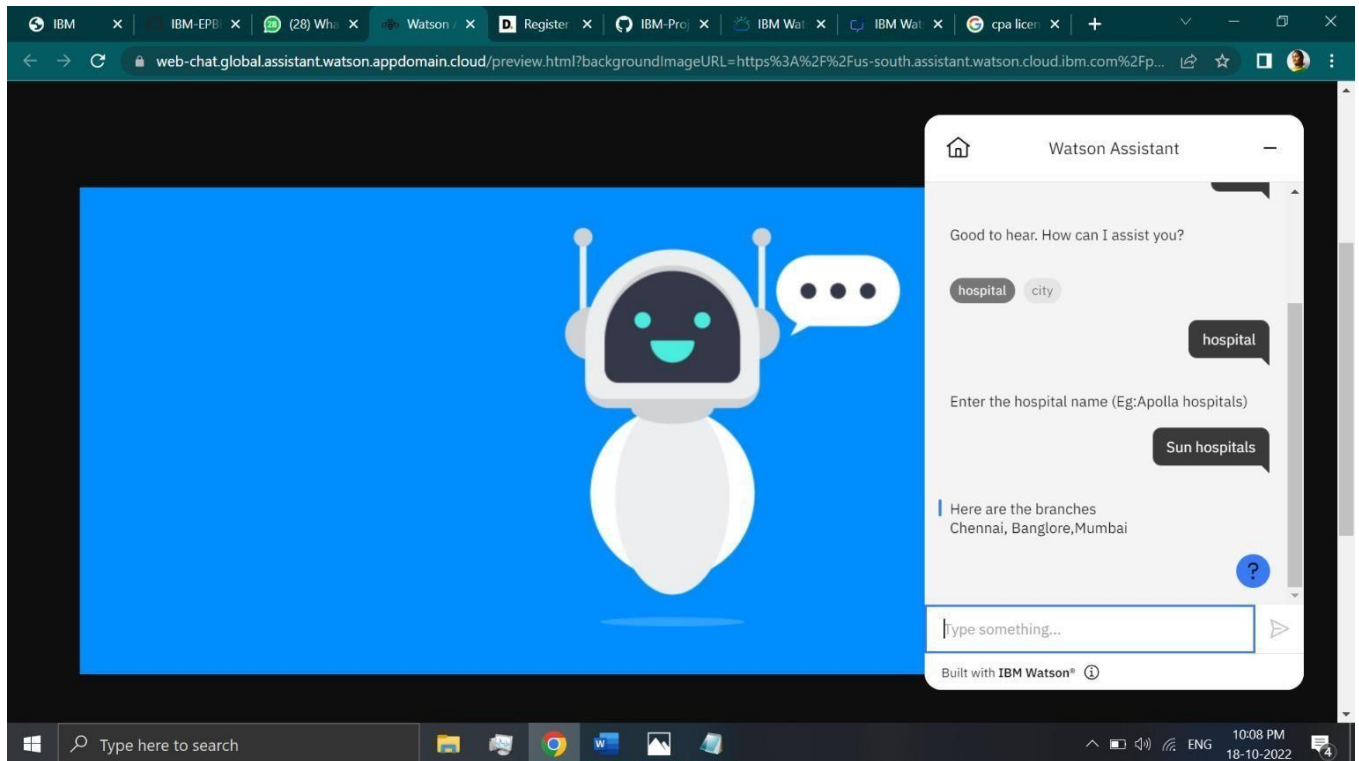
Object name	Archived	Size	Last modified
assignment.css		1.6 KB	2022-10-20 3:27 AM

Below the table, there is a message: "Drag and drop files (objects) here or click to upload" with an "Upload" button. A notification banner at the top right states: "A bucket created successfully! The bucket jobskillbucket has been created and is now available to add". The bottom of the image shows a Windows taskbar with various application icons and a system tray indicating the time as 03:28 on 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®ion=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.**

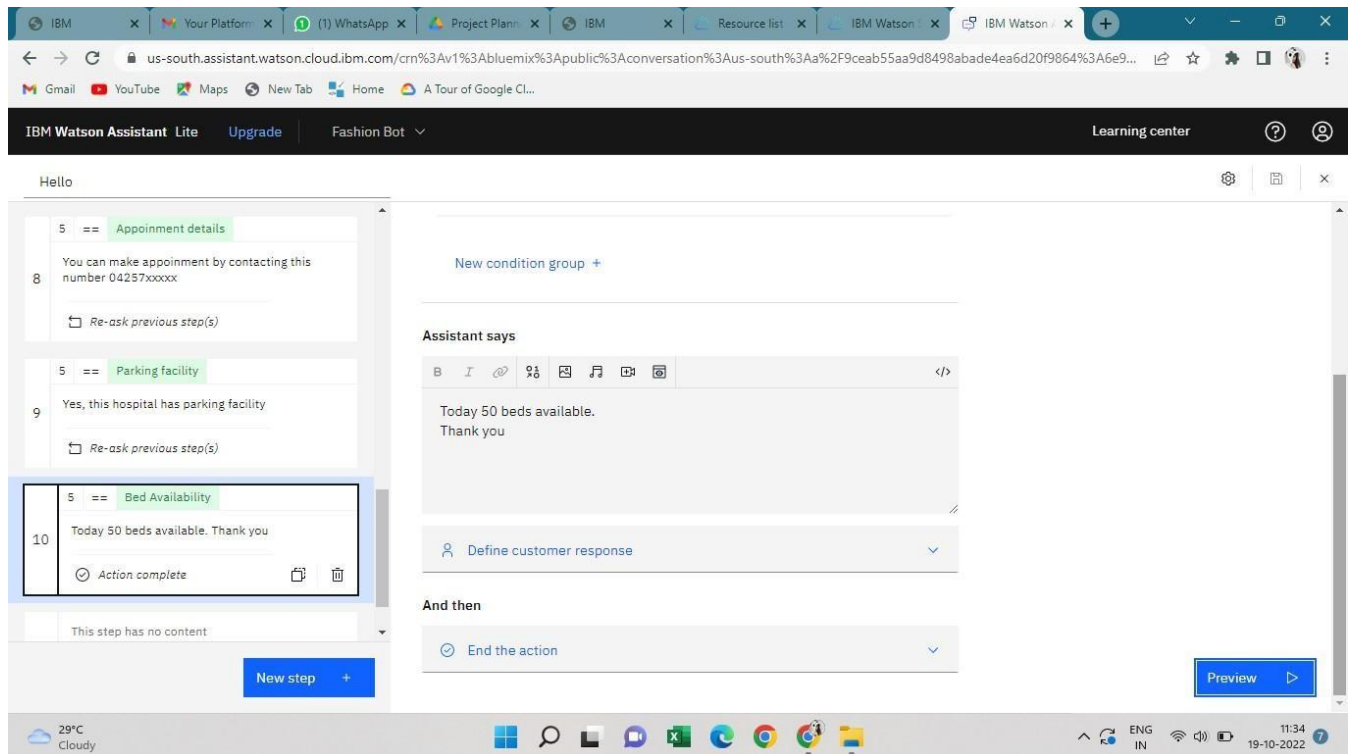


Figure 1. 10 steps of conversation

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

Step 3 is taken with conditions

Conditions 2 conditions

If Any of this is true:

2. Good to he... is hospital

or 2. Good to he... is city

or Add condition +

New condition group +

Assistant says

Enter the hospital name (Eg: Apollo hospitals)

Preview

29°C Cloudy

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 Multispecialty Hospital

Step 5 is taken with conditions

Conditions 1 condition

If All of this is true:

4. Here are th... is Distance

and Add condition +

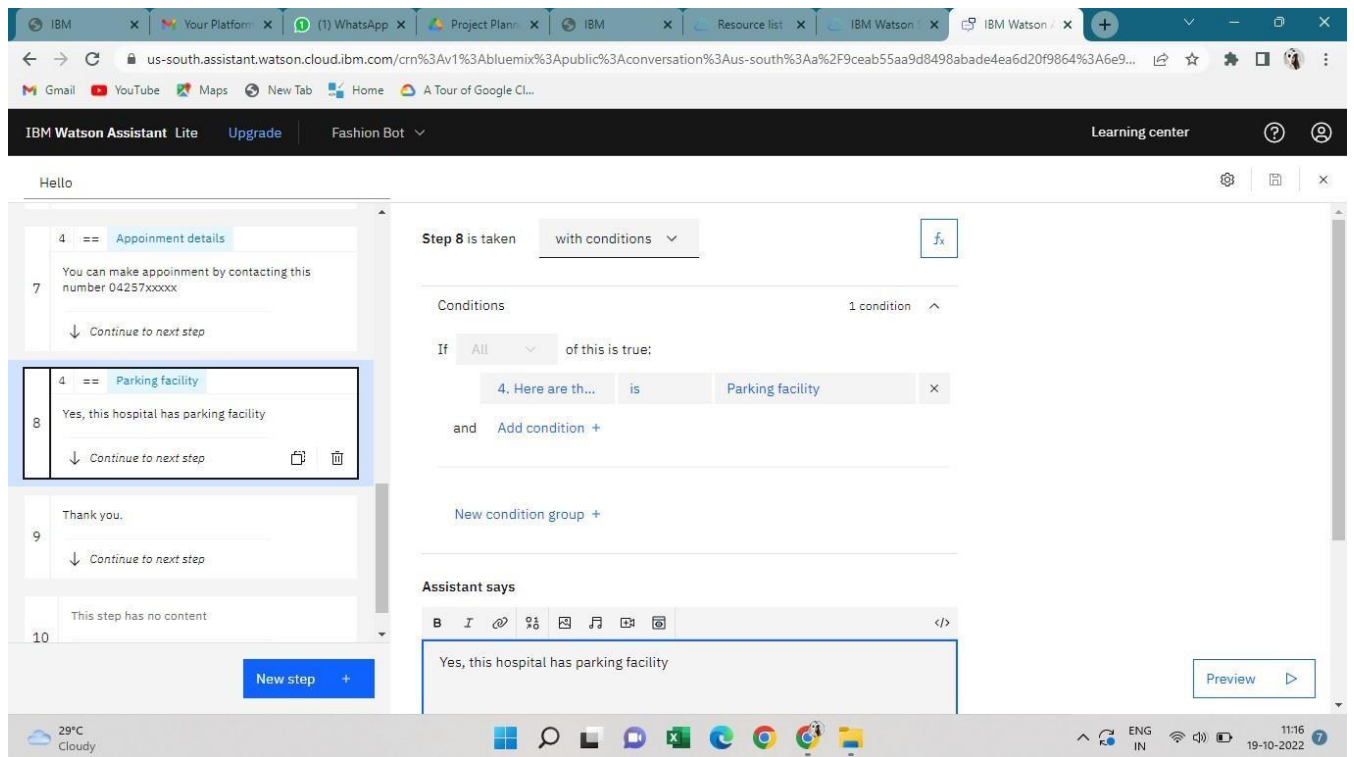
New condition group +

Assistant says

Hospital is 30km away from your location

Preview

29°C Cloudy



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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```

```

/)
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

```