

Assignment-3

Date	10October2022
TeamID	PNT2022TMID30621
ProjectName	SkillandJobRecommenderA pplication

1. CREATE A BUCKET IN IBM OBJECT STORAGE.

cloud.ibm.com

Cloud Object Storage - IBM Cloud

skill and job images - Google Search

1,08,602 Career Skill Images, Storage

cloud.ibm.com/objectstorage/cm%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3AA%2F781d645bd06741b2b43e04935d9321c4%3Abeebe331-0bcc-4592-b2e7-fa7ebfe...

IBM Cloud

Search resources and products...

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Cloud Object Storage

Storage instances

Cloud Object Storage-9m

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Buckets

Buckets serve as containers for objects, and can be individually configured in terms of their location, resiliency, billing rates, security, and object lifecycle rules.

Search

Create bucket

Name	Public access	Location	Storage class	Created
jbot	No	jp-tok	Smart Tier	2022-11-05 3:34 PM

https://cloud.ibm.com/objectstorage/cm%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3AA%2F781d645bd06741b2b43e04935d9321c4%3Abeebe331-0bcc-4592-b2e7-fa7ebfeab044%3A%3A?panelId=manage

Upload an 5 images to ibm object storage and make it public. Writehtmlcodetodisplayingall the5images.

cloud.ibm.in

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cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2F781d645bd06741b2b43e04935d9321c4%3Abeeb331-0bcc-4592-b2e7-fa7ebfe...

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Storage / Cloud Object Storage-9m /

jbot

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](#)

Q Prefix filter

Refresh

Settings

Folder

Upload

<input type="checkbox"/>	Object name	Archived ⓘ	Size	Last modified	
<input type="checkbox"/>	1.jpg		147.5 KB	2022-11-05 3:41 PM	⋮
<input type="checkbox"/>	4.jpg		56.2 KB	2022-11-05 3:41 PM	⋮
<input type="checkbox"/>	5.jpg		27.8 KB	2022-11-05 3:40 PM	⋮
<input type="checkbox"/>	6.jpg		311.6 KB	2022-11-05 3:40 PM	⋮
<input type="checkbox"/>	7..ng		6.0 KB	2022-11-05 3:39 PM	⋮

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

7.png

6.jpg

5.jpg

4.jpg

3.webp

2.webp

Show all

cloud.ibm.in

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cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2F781d645bd06741b2b43e04935d9321c4%3Abeeb331-0bcc-4592-b2e7-fa7ebfe...

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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

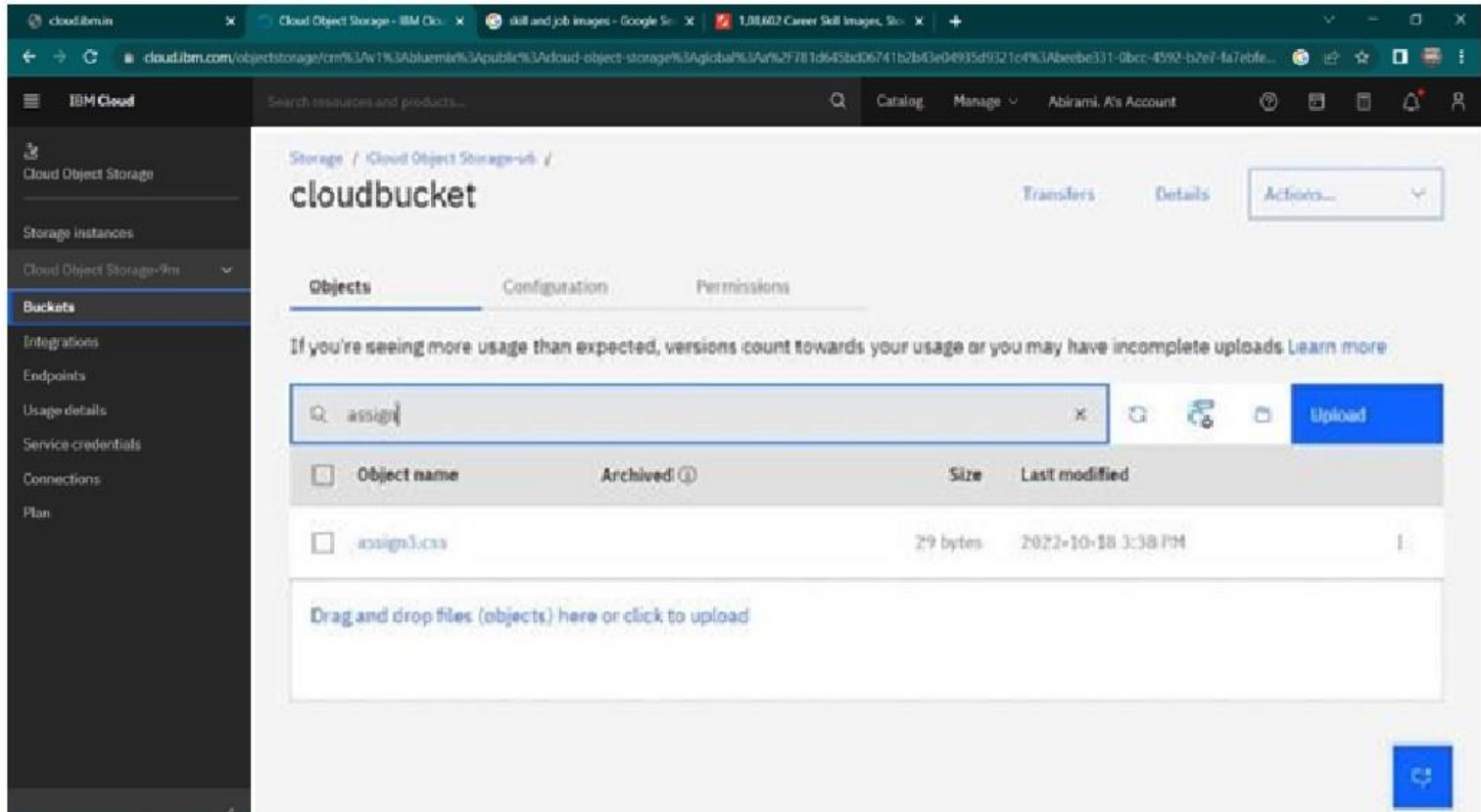
A new access policy for this bucket was created for the group:
Public Access
To delete/edit go to the [IAM console](#).

Status: En
Role for th
Content Reader
As a Content Reader, one can read and list objects in the bucket.
Create access policy

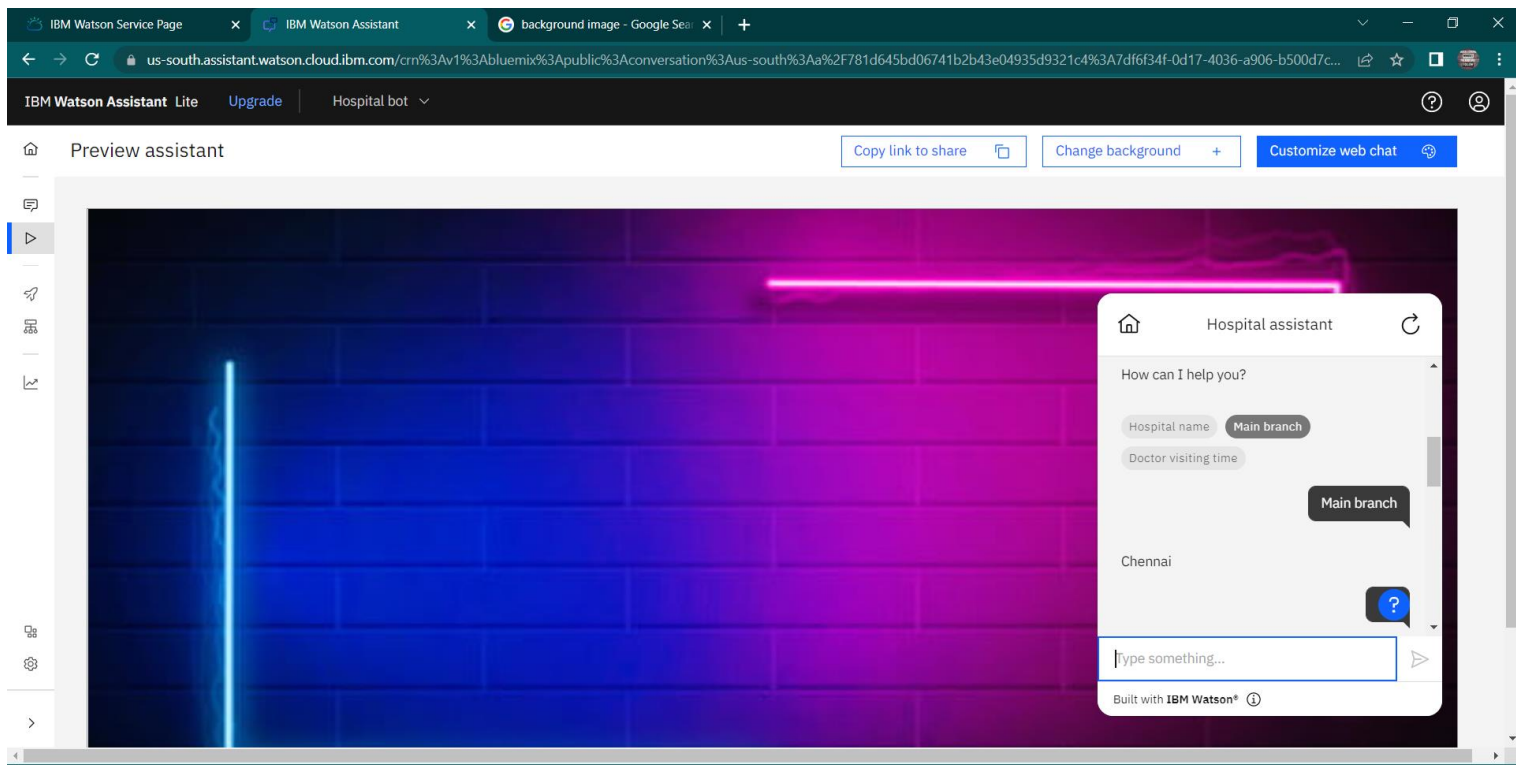
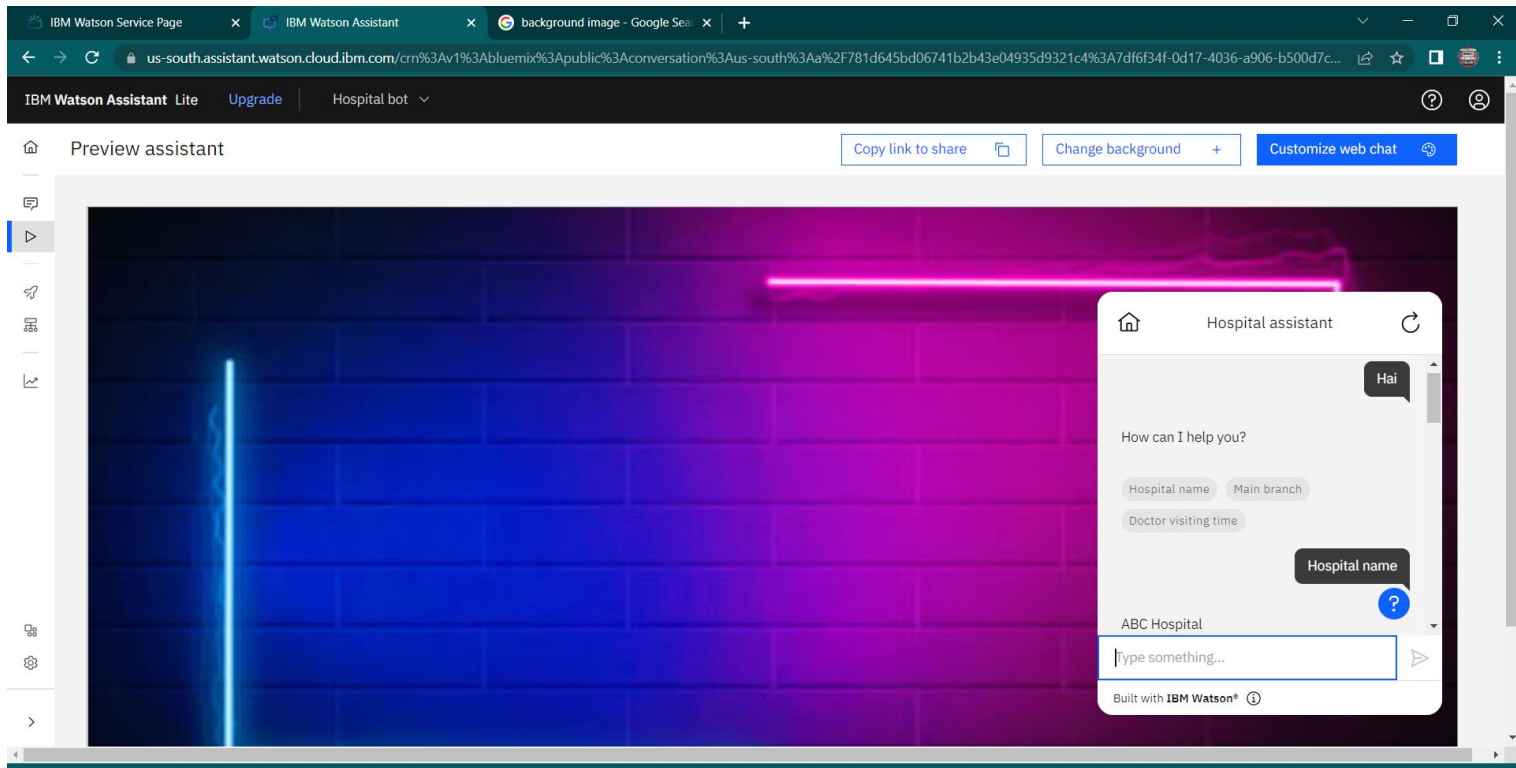
Context-based restrictions

Firewall (legacy)

2. Upload a css page to the object storage and use the same page in yourHTMLcode.



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



WebURL forAssistant:

<https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https%3A%2F%2Fus-south.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-7df6f34f-0d17-4036-a906-b500d7c4b278%3A%3A8a7038d1-5e0c-4f5f-b1eb-725f3b78e5de&integrationID=3ed15b4c-58ce-4a91-837f-4e050b7c23fb®ion=us-south&serviceInstanceID=7df6f34f-0d17-4036-a906-b500d7c4b278>

4. Create Watson assistant service with 10 steps and use 3 conditions init.Load thatscriptin HTML page.

The screenshot displays the IBM Watson Assistant configuration interface. On the left, a vertical flowchart outlines 10 steps of a conversational process. Step 7 is highlighted with a blue border. The main panel on the right provides a detailed view of Step 7, titled "Step 7 is taken with conditions". It shows a condition group with one condition: "If All of this is true: 6. Which specialist ... is Other". Below the conditions, there is a "New condition group +" button. The "Assistant says" section shows the prompt "Please mention your preferred specialist!". At the bottom, a "Preview" button is visible.

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

7 Please mention your preferred specialist!

Free text

Continue to next step

8 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.

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

Included 3 conditions in steps:

The screenshot displays the IBM Watson Assistant interface for a bot named 'Hospital bot'. The left sidebar shows a list of conversation steps. Step 2 is highlighted, showing a condition '1 is Hospital name' and a 'Free text' input field. 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 a text box with 'ABC Hospital'. A 'Preview' button is visible at the bottom right.

The screenshot displays the IBM Watson Assistant interface for a bot named 'Hospital bot'. The left sidebar shows a list of conversation steps. Step 7 is highlighted, showing a condition '6 is Other' and a 'Free text' input field. 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 a text box with 'Please mention your preferred specialist!'. A 'Preview' button is visible at the bottom right.

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 LiteUpgradeHospital bot

Learning center

Hello

6 is Other

Please mention your preferred specialist!

7

Free text

Continue to next step

8

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.

9

Free text

Continue to next step

9 is Defined

Your appointment is fixed at 1.30pm.

10

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

```
<!DOCTYPEhtml>

<htmllang="en">

<head>

  <metacharset="UTF-8"/>

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

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

  <title>Home</title>

  <linkrel="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: "3ed15b4c-58ce-4a91-837f-4e050b7c23fb", // The ID of this integration.
  region: "us-south", // The region your integration is hosted in.
  serviceInstanceID: "7df6f34f-0d17-4036-a906-b500d7c4b278", // 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>

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

    <inputtype="text"placeholder="Enterfilename"name="filename"/>

    <br/>

    <br/>

    <inputtype="file"name="file"/>

    <br/>

    <br/>

    <inputtype="submit"/>
```



```

</form>

<br/>

<br/>

<br/>

{ %forrowinfiles % }

    <divstyle="border:1pxsolid#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,requestimport ibm_boto3
fromibm_botocore.client importConfig,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_A
    PI_KEY_ID,ibm_service_instance_id=COS_INST
    ANCE_CRN,config=Config(signature_version="oa
    uth"),endpoint_url=COS_ENDPOINT
)

```

```
app=Flask(name)
```

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

```
index():try:
```

```
    files =
```

```
    cos.Bucket('cloudbucket').objects.all()files_n
```

```
    ames=[]
```

```
    for file in
```

```
        files:files_names.append(file
```

```
        .key)print(file)
```

```
        print("Item: {0} ({1} bytes)".format(file.key,  
        file.size))returnrender_template('index.html',files=files_na  
        mes)
```

```
exceptClientErrorasbe:
```

```
    print("CLIENT ERROR:
```

```
    {0}\n".format(be))returnrender_template('in  
    dex.html')
```

```
exceptExceptionase:
```

```
    print("Unable to retrieve bucket contents:
```

```
    {0}").format(e))returnrender_template('index.html')
```

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

```
def
```

```
upload():name_file=request.form['filenam  
e']
```

```
    f =
```

```
    request.files['file']try:
```

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

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

```
transfer_config =
```

```
    ibm_boto3.s3.transfer.TransferConfig(multipart_thre  
    shold=file_threshold,
```

```

        multipart_chunksize=part_size
    )

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

```

```

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

```

```

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

```

```

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

```