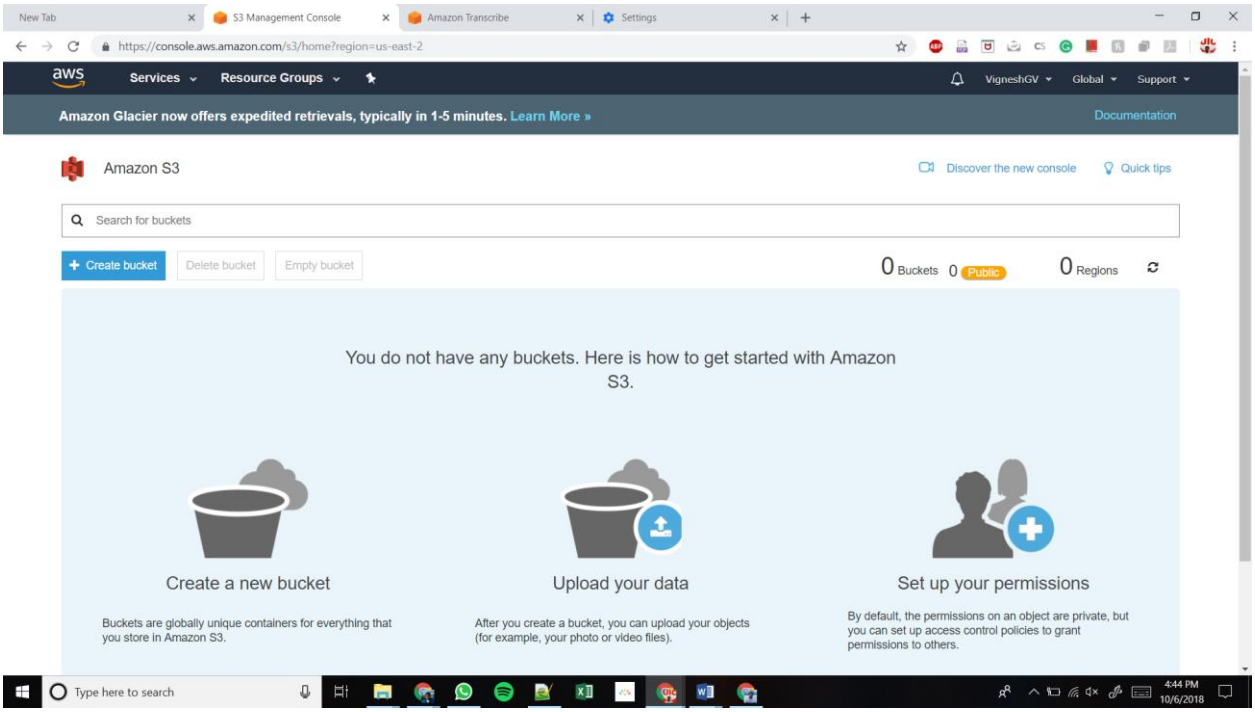
Vigneshwaran Giri Velumani

AWS – Amazon Transcribe Speech to Text Conversion

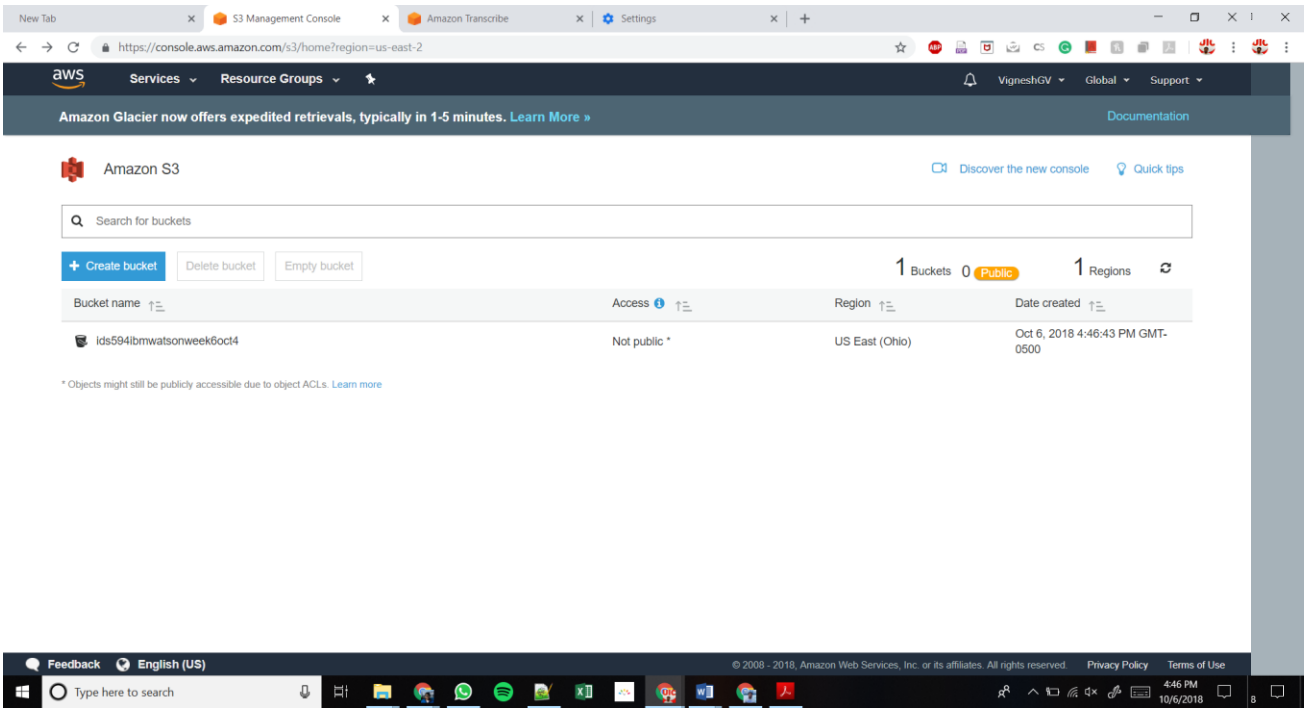
This artifact is a walkthrough for Amazon Transcribe. This will be a new learning for people who have not use cloud storage systems like Google Big Table, Amazon S3, etc. To begin using any of the AWS services, we need to store the data we need to use in any of the AWS services. For instance, in our case to convert or audio file into text, initially we need to store the audio file in Amazon's scalable storage in the cloud service called Amazon S3. Initially we must create an AWS account and then follow the steps given below:

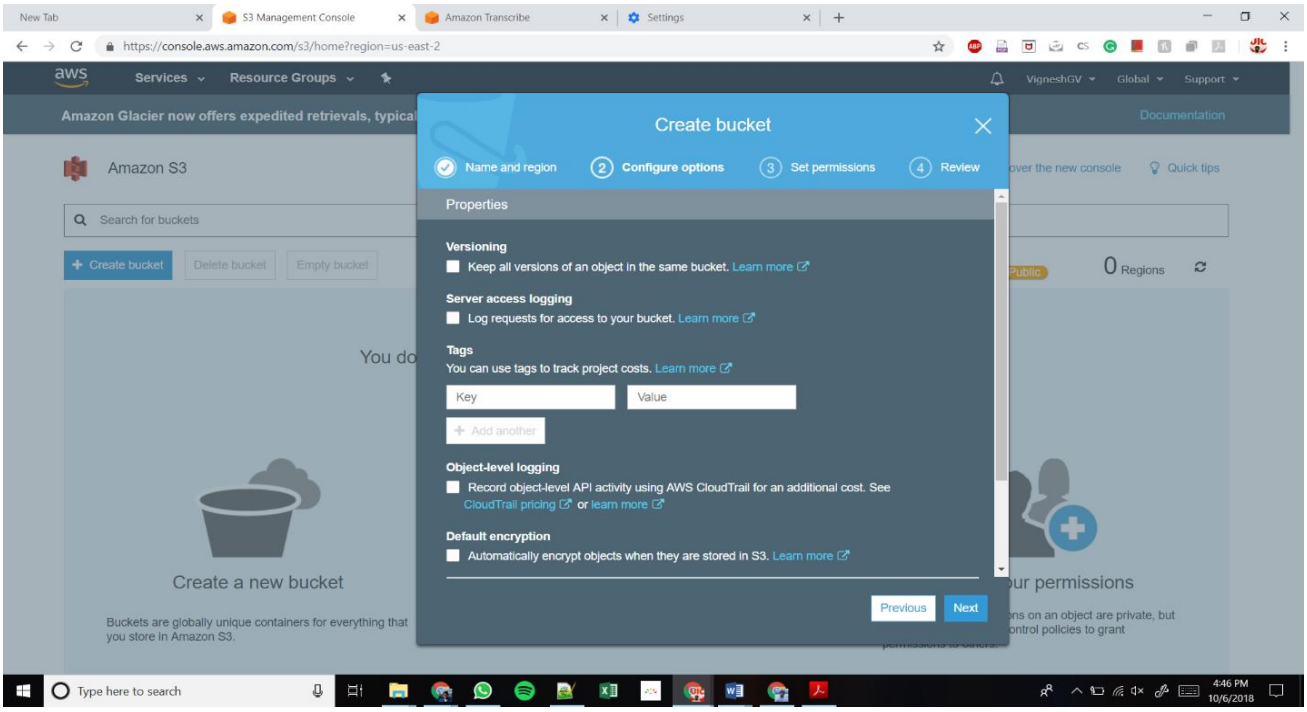
Step-1: Creating a storage bucket in Amazon S3

The S3 interface looks like this:



- Click on Create bucket button.
- Give a bucket name in lower case
- You should specify a region for your bucket (Sometimes Amazon Transcribe will ask you to change the bucket zone – In that case delete the bucket that you have created in a different zone, and create a new bucket in the specific zone that Transcribe is asking you to create)
- To begin with, lets keep all other settings to default and click Next in each window and finally click on Create Bucket Button


New Tab
S3 Management Console
Amazon Transcribe
Settings
https://console.aws.amazon.com/s3/home?region=us-east-2
aws
Services
Resource Groups
VigneshGV
Global
Support
Amazon Glacier now offers expedited retrievals, typically in 1-5 minutes. Learn More »
Documentation
Amazon S3
Discover the new console
Quick tips
Search for buckets
+ Create bucket
Delete bucket
Empty bucket
1 Buckets 0 Public 1 Regions
Bucket name
Access
Region
Date created
ids594ibmwatsonweek6oct4
Not public *
US East (Ohio)
Oct 6, 2018 4:46:43 PM GMT-0500
* Objects might still be publicly accessible due to object ACLs. Learn more
Feedback
English (US)
© 2008 - 2018, Amazon Web Services, Inc. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
Type here to search
4:46 PM
10/6/2018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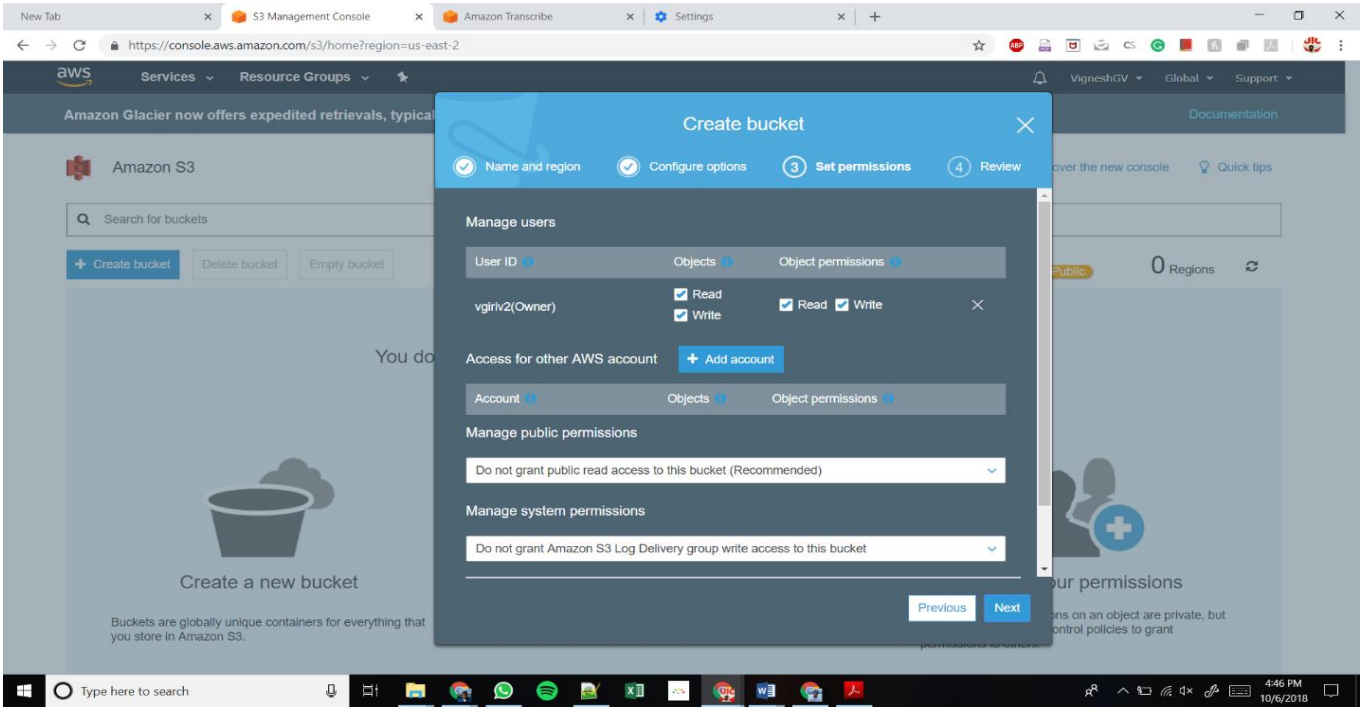
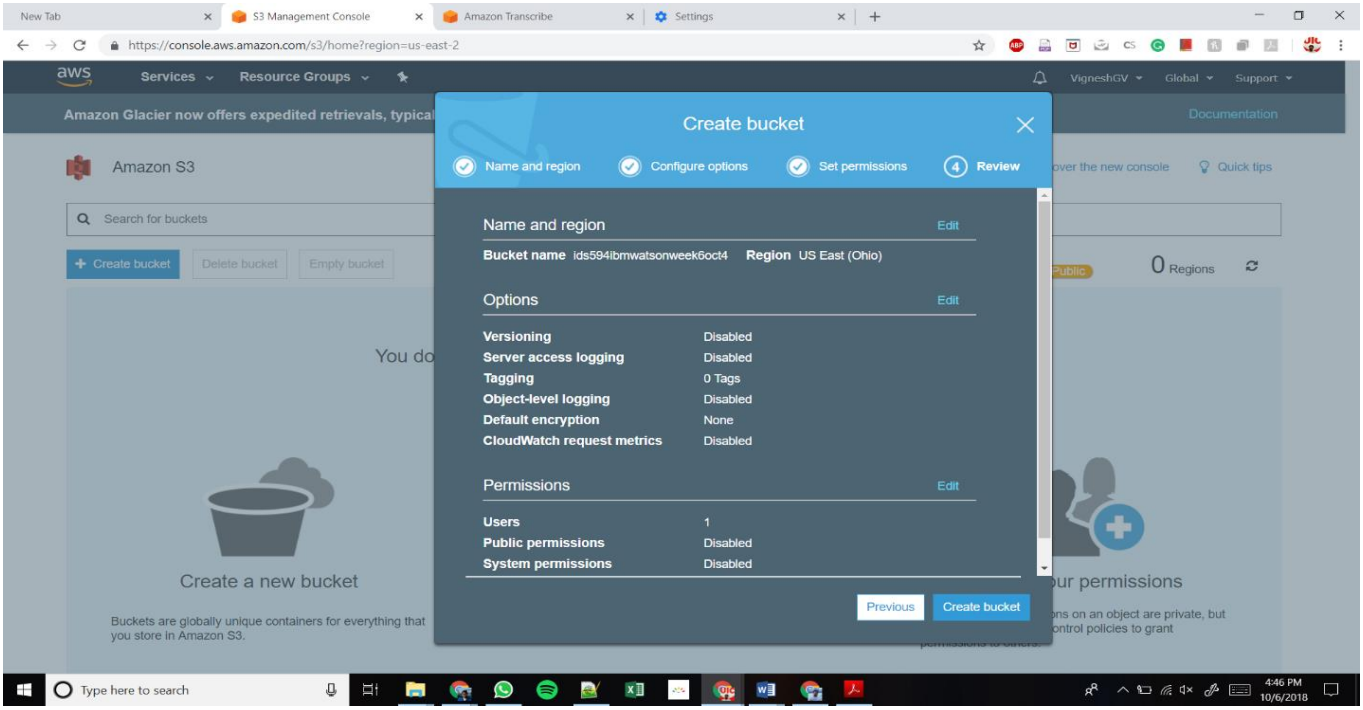
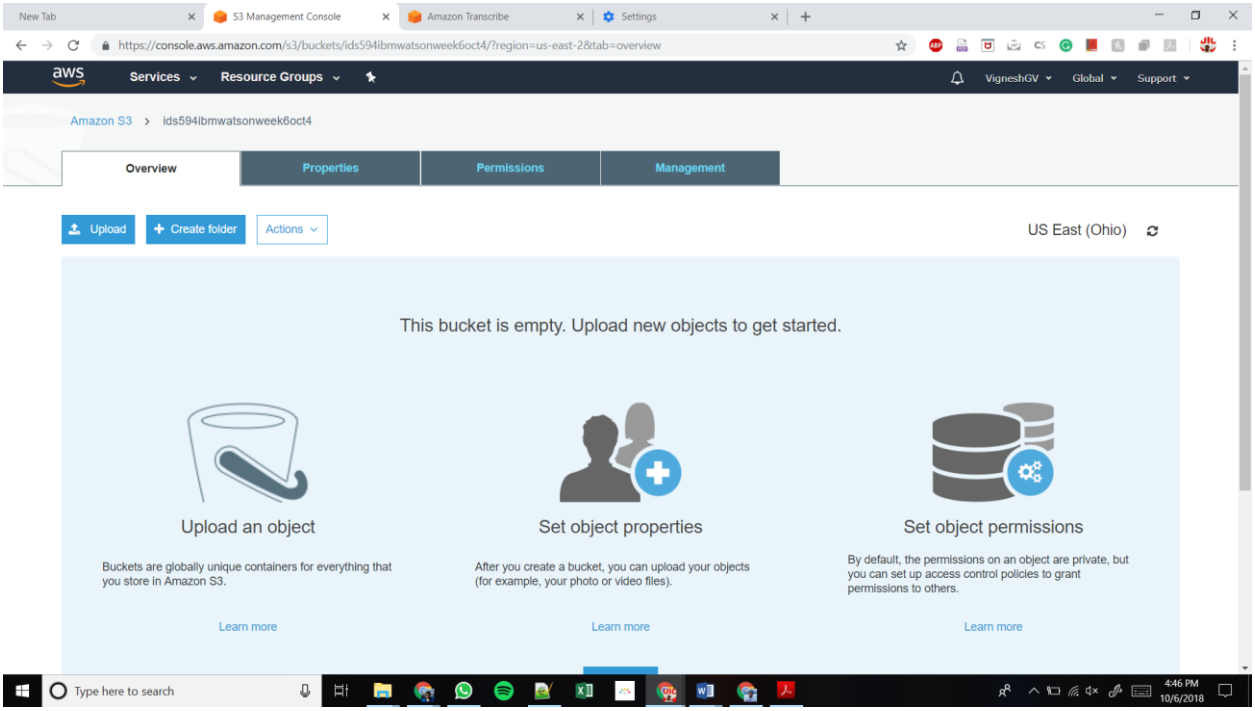
Amazon Glacier now offers expedited retrievals, typica
Documentation
Amazon S3
Search for buckets
+ Create bucket
Delete bucket
Empty bucket
0 Regions
You do
Create a new bucket
Buckets are globally unique containers for everything that you store in Amazon S3.
Create bucket
Name and region
2 Configure options
3 Set permissions
4 Review
Properties
Versioning
Keep all versions of an object in the same bucket. Learn more
Server access logging
Log requests for access to your bucket. Learn more
Tags
You can use tags to track project costs. Learn more
Key
Value
+ Add another
Object-level logging
Record object-level API activity using AWS CloudTrail for an additional cost. See CloudTrail pricing or learn more
Default encryption
Automatically encrypt objects when they are stored in S3. Learn more
Previous
Next
ur permissions
ns on an object are private, but ontrol policies to grant
Type here to search
4:46 PM
10/6/2018


Create bucket
Name and region
Configure options
3 Set permissions
4 Review
Manage users
User ID
Objects
Object permissions
vgiriv2(Owner)
Read
Write
Read
Write
Access for other AWS account
Add account
Account
Objects
Object permissions
Manage public permissions
Do not grant public read access to this bucket (Recommended)
Manage system permissions
Do not grant Amazon S3 Log Delivery group write access to this bucket
Previous
Next
Create a new bucket
Buckets are globally unique containers for everything that you store in Amazon S3.

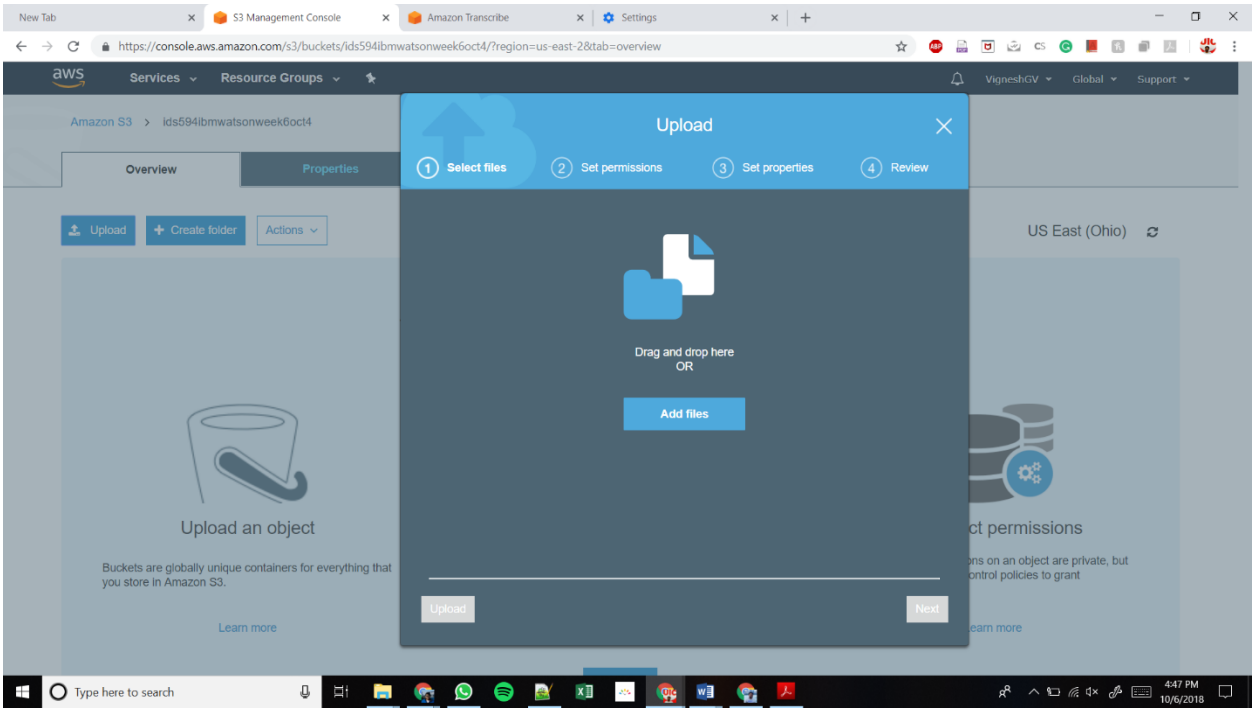

Create bucket
Name and region
Configure options
Set permissions
4 Review
Name and region
Edit
Bucket name ids594ibmwatsonweek6oct4
Region US East (Ohio)
Options
Edit
Versioning
Disabled
Server access logging
Disabled
Tagging
0 Tags
Object-level logging
Disabled
Default encryption
None
CloudWatch request metrics
Disabled
Permissions
Edit
Users
1
Public permissions
Disabled
System permissions
Disabled
Previous
Create bucket
Create a new bucket
Buckets are globally unique containers for everything that you store in Amazon S3.

Step-2: Uploading audio file (mp3, mp4) in the bucket

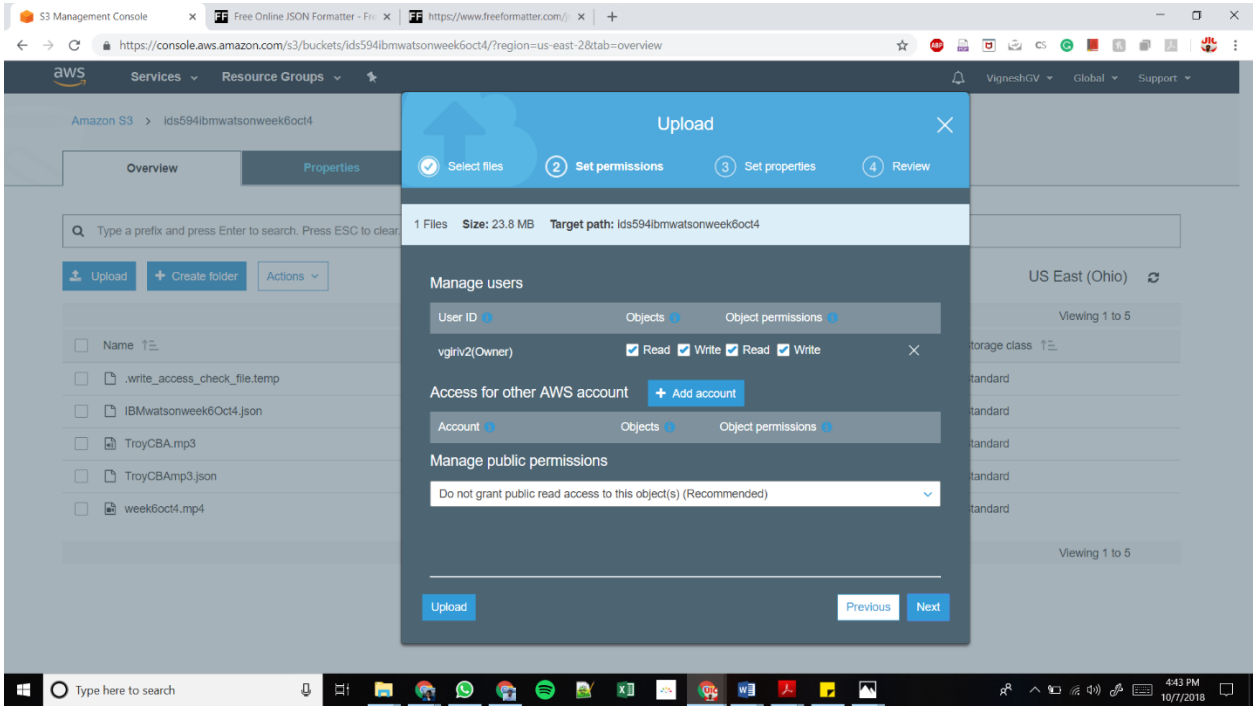
- After the bucket gets created, click on the bucket name.

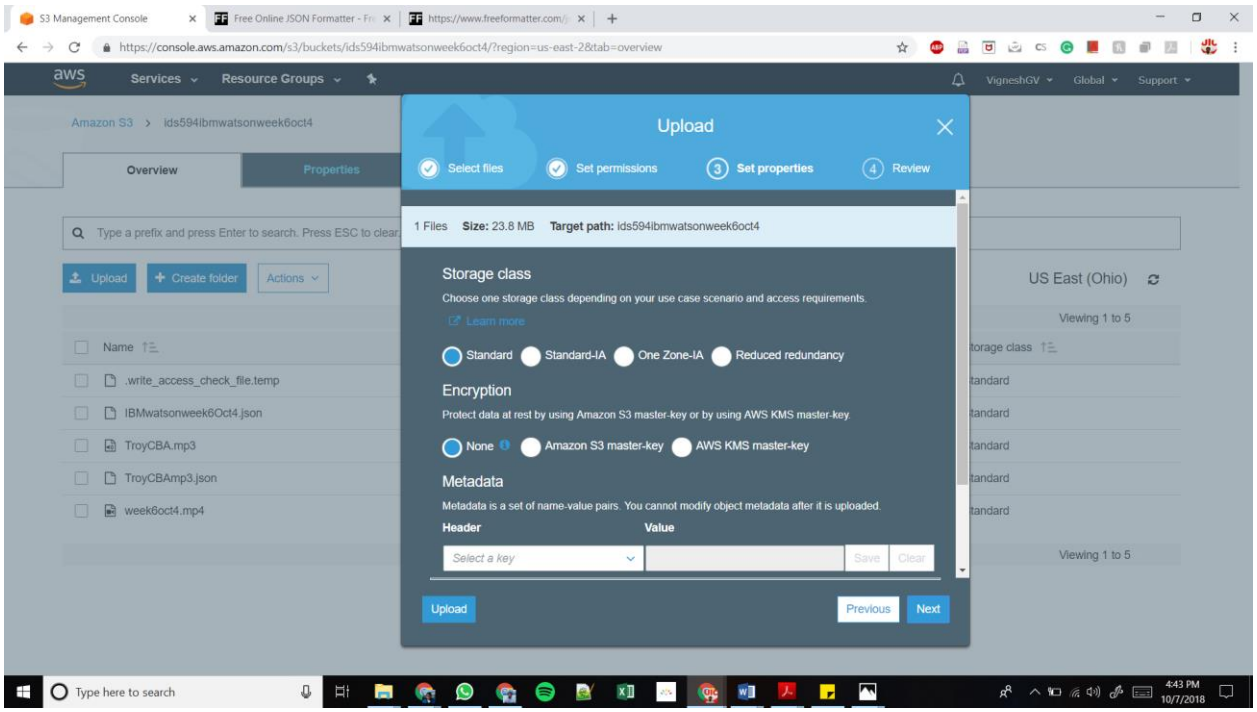


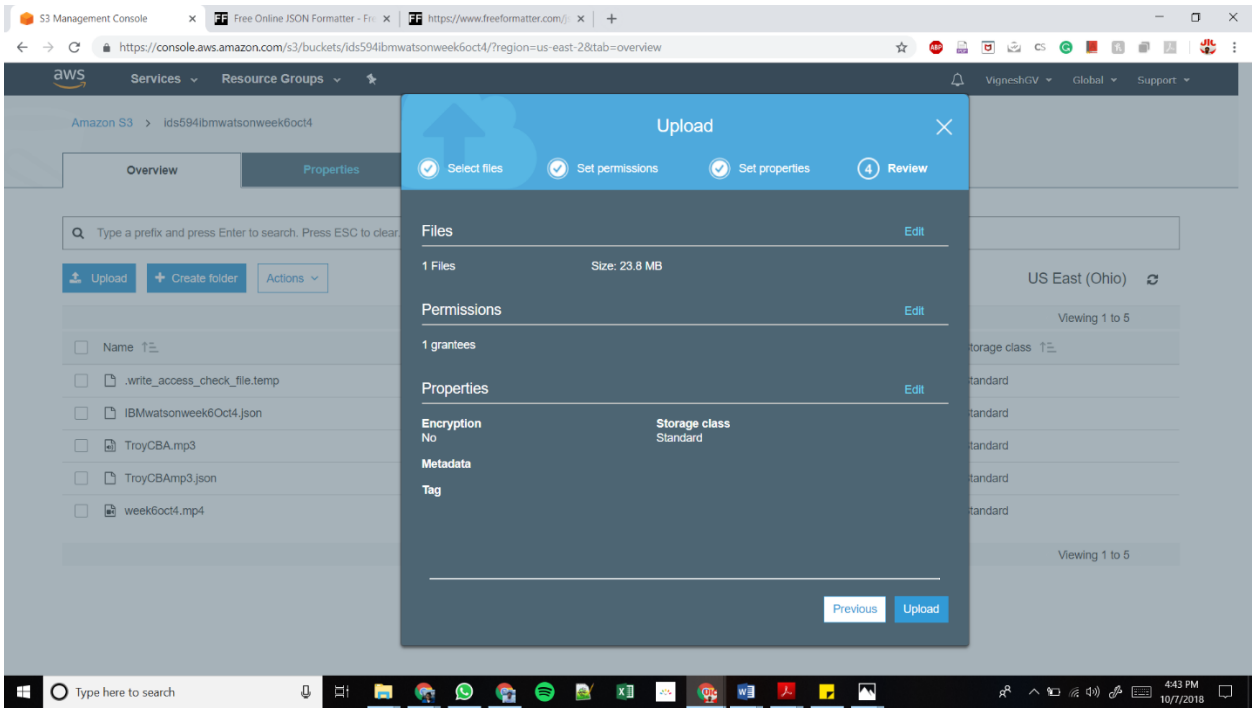
- Upload the audio file(s) that needs to be converted to text.

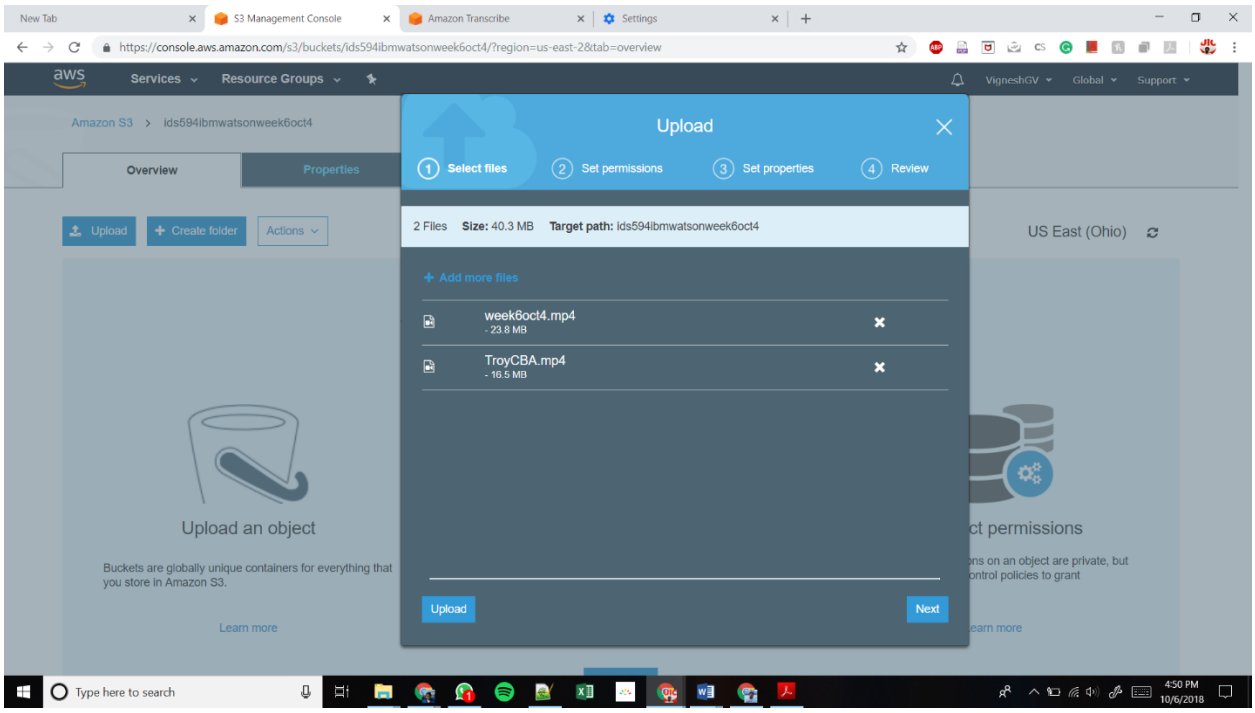


- Proceed through the next steps without changing any parameters if you are not sure about the set permissions and set properties options and finally click on the upload button.






S3 Management Console
https://console.aws.amazon.com/s3/buckets/ids594ibmwatsonweek6oct4/?region=us-east-2&tab=overview
Services
Resource Groups
Amazon S3 > ids594ibmwatsonweek6oct4
Overview
Properties
Upload
+ Create folder
Actions
US East (Ohio)
Name
.write_access_check_file.temp
IBMwatsonweek6Oct4.json
TroyCBA.mp3
TroyCBAmp3.json
week6oct4.mp4
Upload
Select files
Set permissions
Set properties
4 Review
Files
Edit
1 Files
Size: 23.8 MB
Permissions
1 grantees
Properties
Encryption
No
Storage class
Standard
Metadata
Tag
Previous
Upload
Type here to search
4:43 PM
10/7/2018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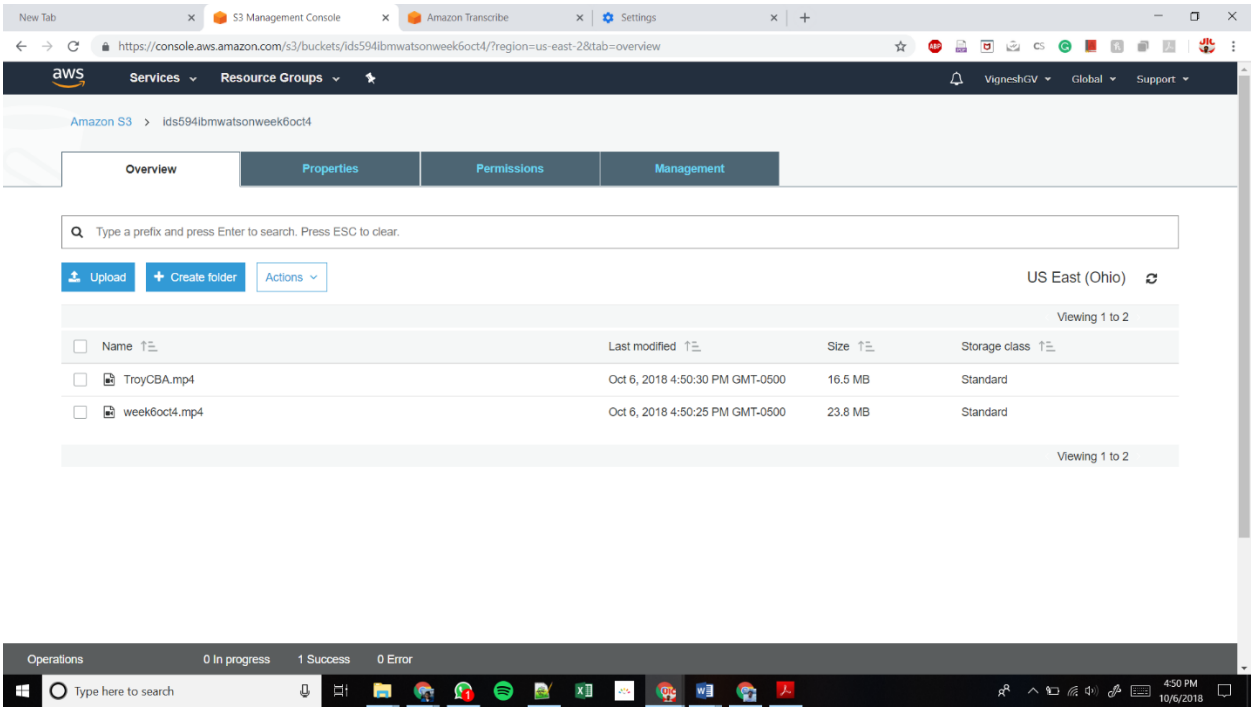
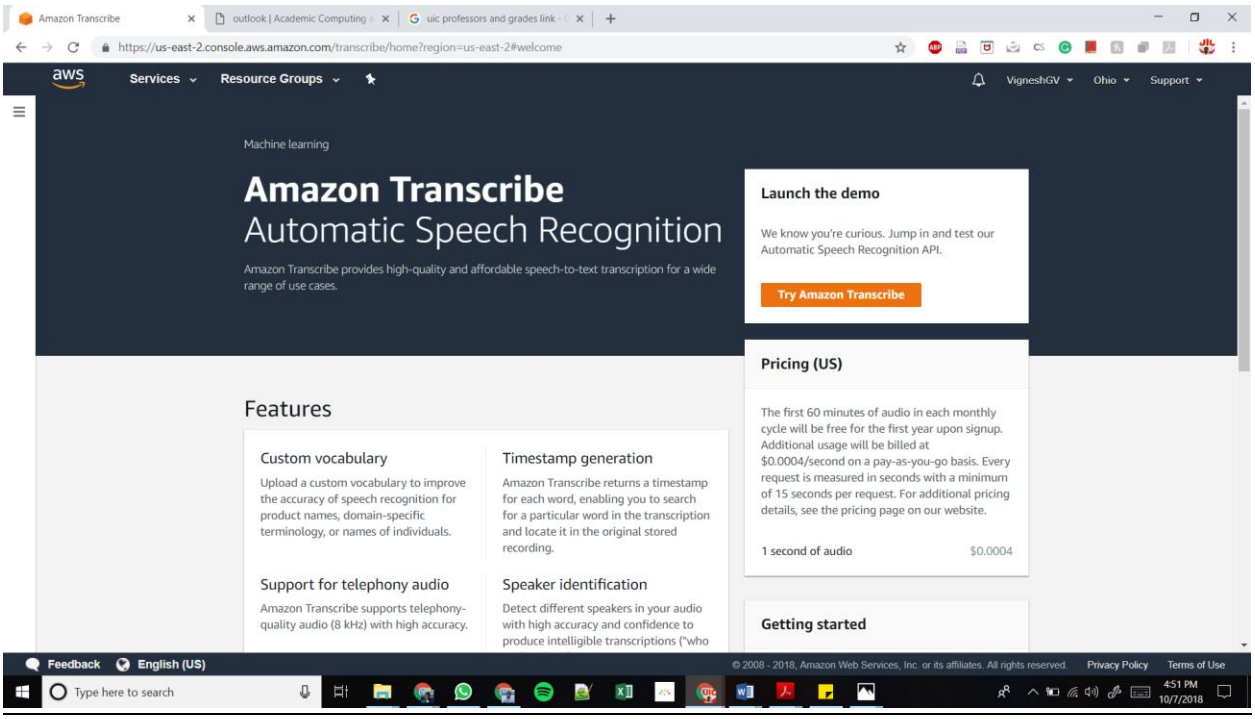
https://console.aws.amazon.com/s3/buckets/ids594ibmwatsonweek6oct4/?region=us-east-2&tab=overview
Services
Resource Groups
Amazon S3 > ids594ibmwatsonweek6oct4
Overview
Properties
Upload
+ Create folder
Actions
US East (Ohio)
Upload an object
Buckets are globally unique containers for everything that you store in Amazon S3.
Learn more
Upload
1 Select files
2 Set permissions
3 Set properties
4 Review
2 Files Size: 40.3 MB Target path: ids594ibmwatsonweek6oct4
+ Add more files
week6oct4.mp4
- 23.8 MB
TroyCBA.mp4
- 16.5 MB
Upload
Next
Type here to search
4:50 PM
10/6/2018

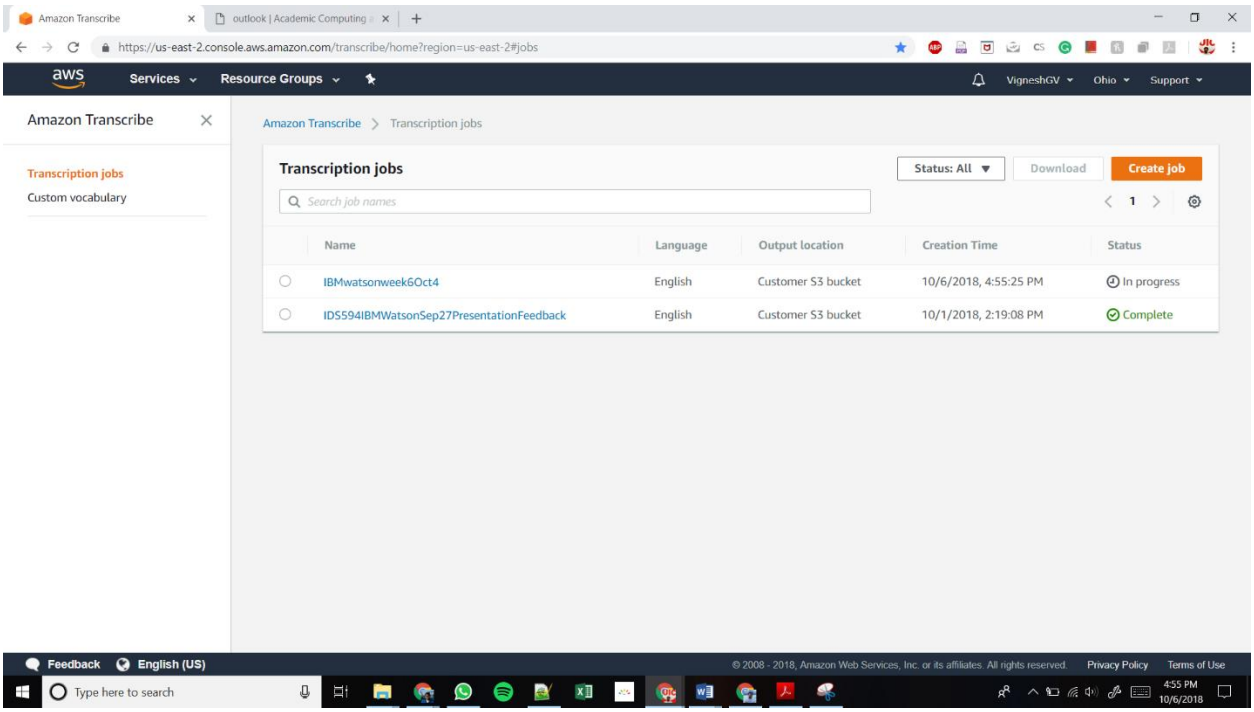


Step – 3: Accessing Amazon Transcribe and initiate conversion

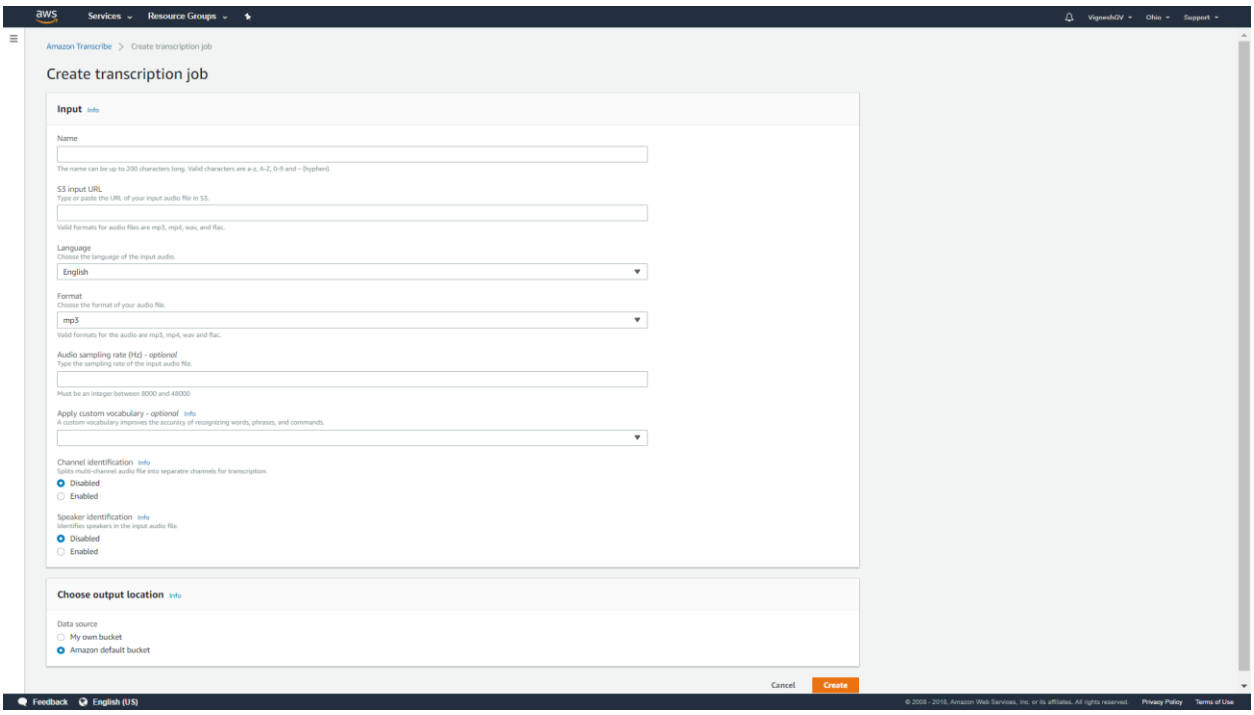
- Open Amazon Transcribe by clicking on Try Amazon Transcribe



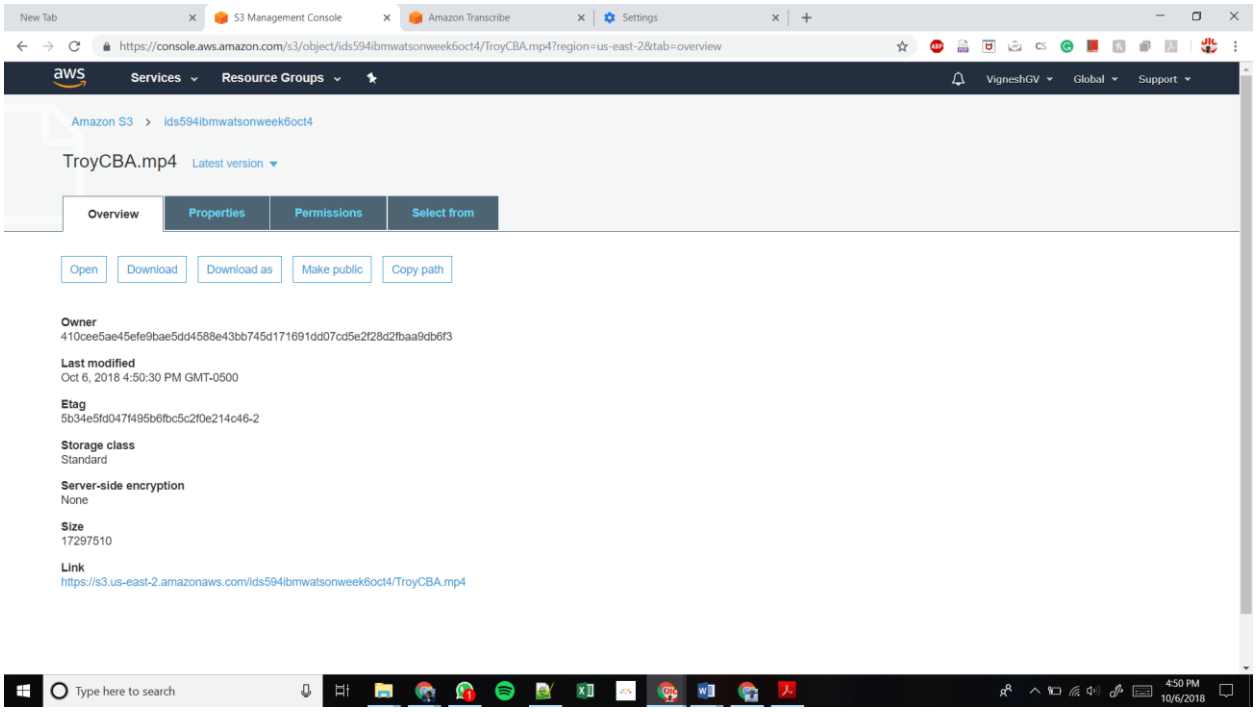
- Click on Create Job for creating your first job.



- To input all the fields given below, you need all the details of the mp3 file that you uploaded in S3

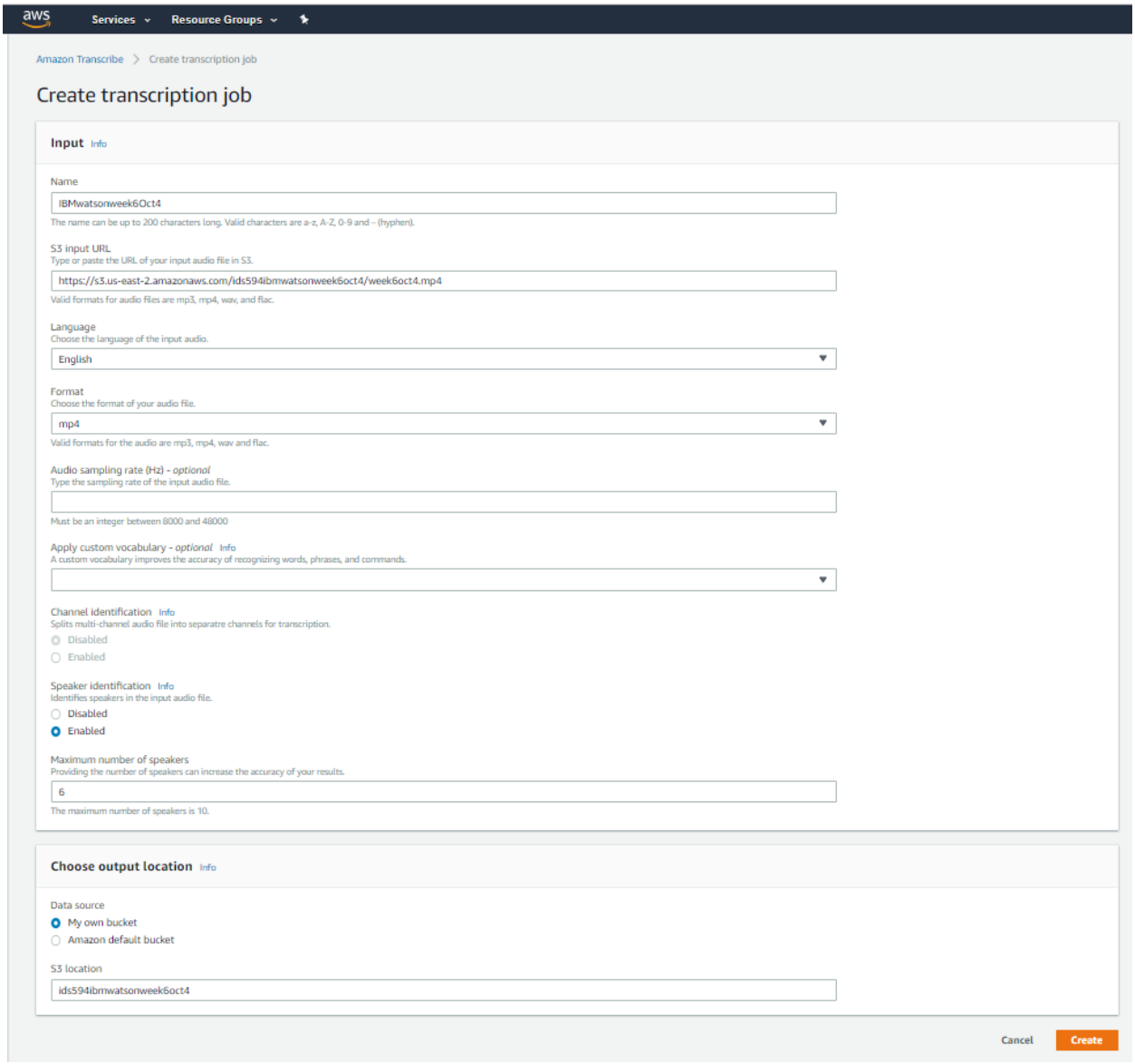


- Copy the link, bucket name and file name you gave for the mp3 file from below.

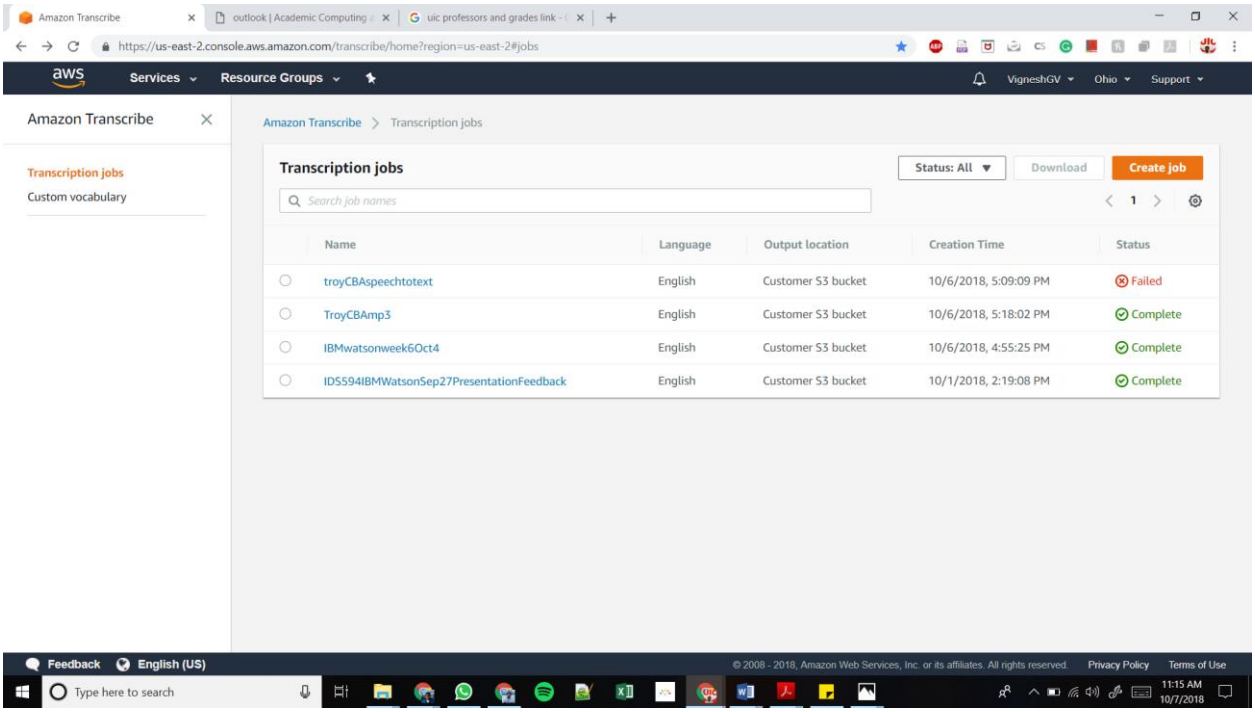


- Fill all the inputs you copied from the file details in the S3 bucket
- Provide appropriate File format (mp3 or mp4)
- Provide the number of speakers in the audio file for Speaker Identification option

- You can choose the output location of the converted file – you can choose your own bucket or Amazon default bucket. I have used my own bucket by giving the bucket name as shown below

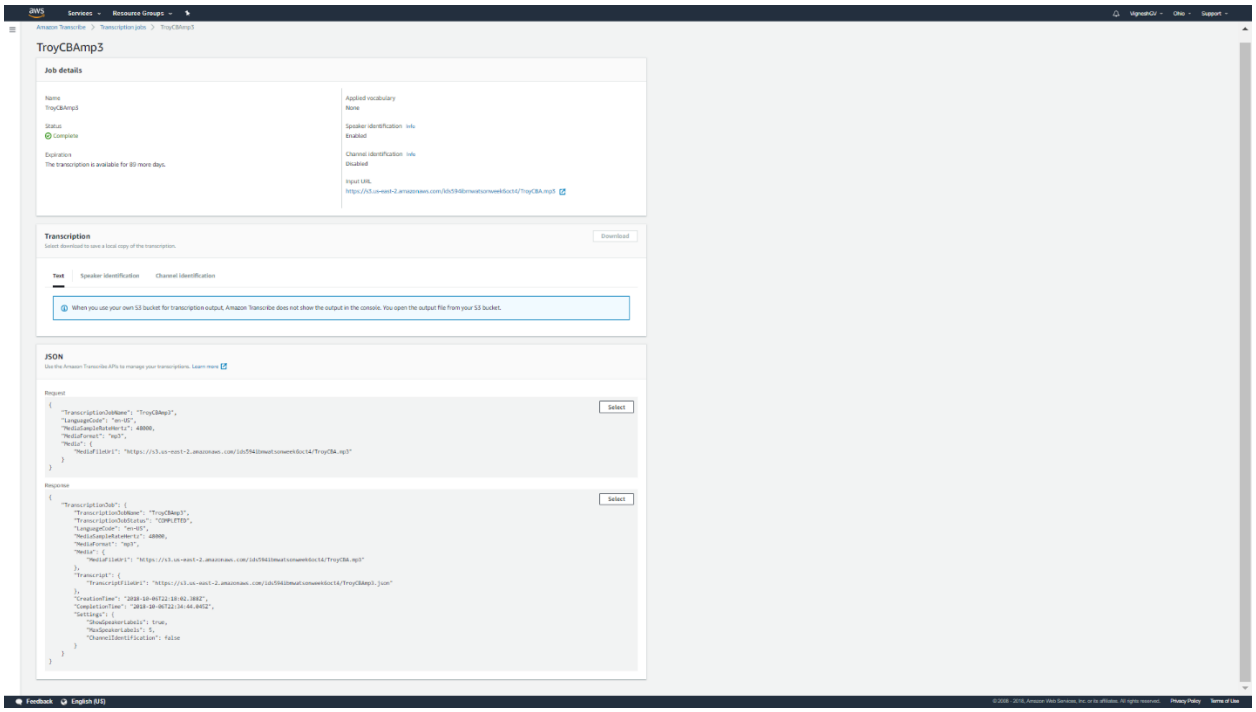


- Click create and the conversion job will begin with the status – In progress.

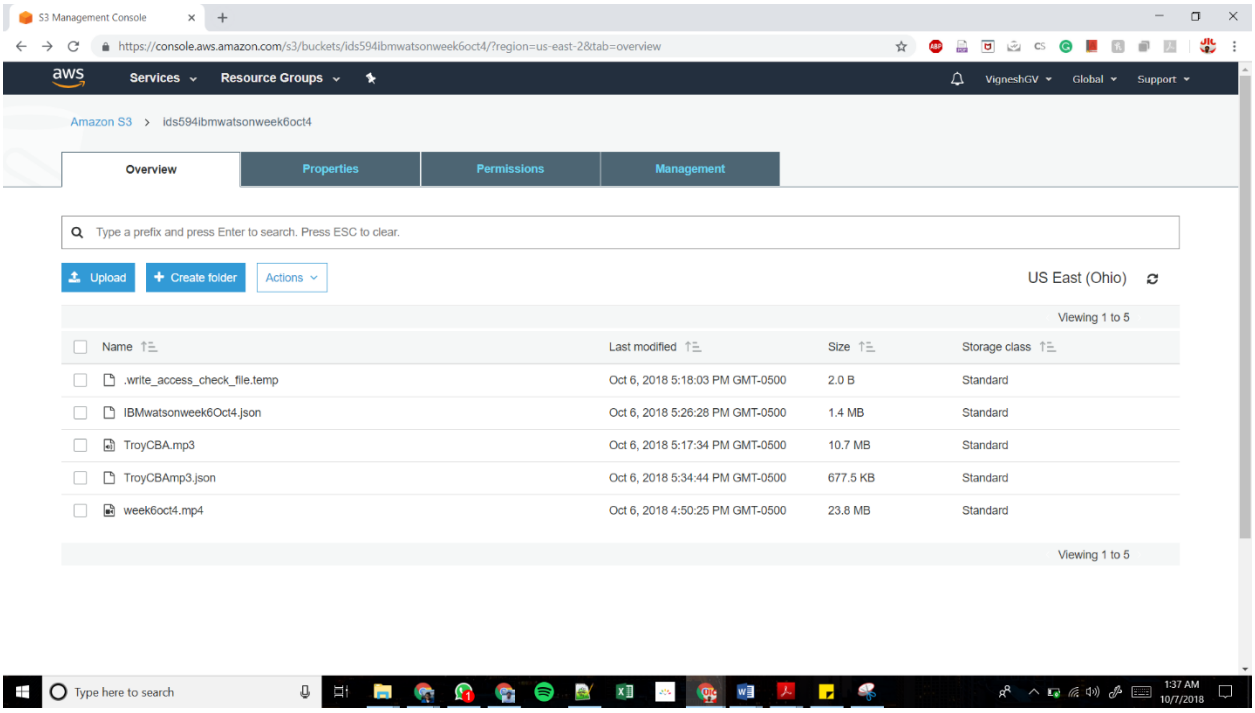


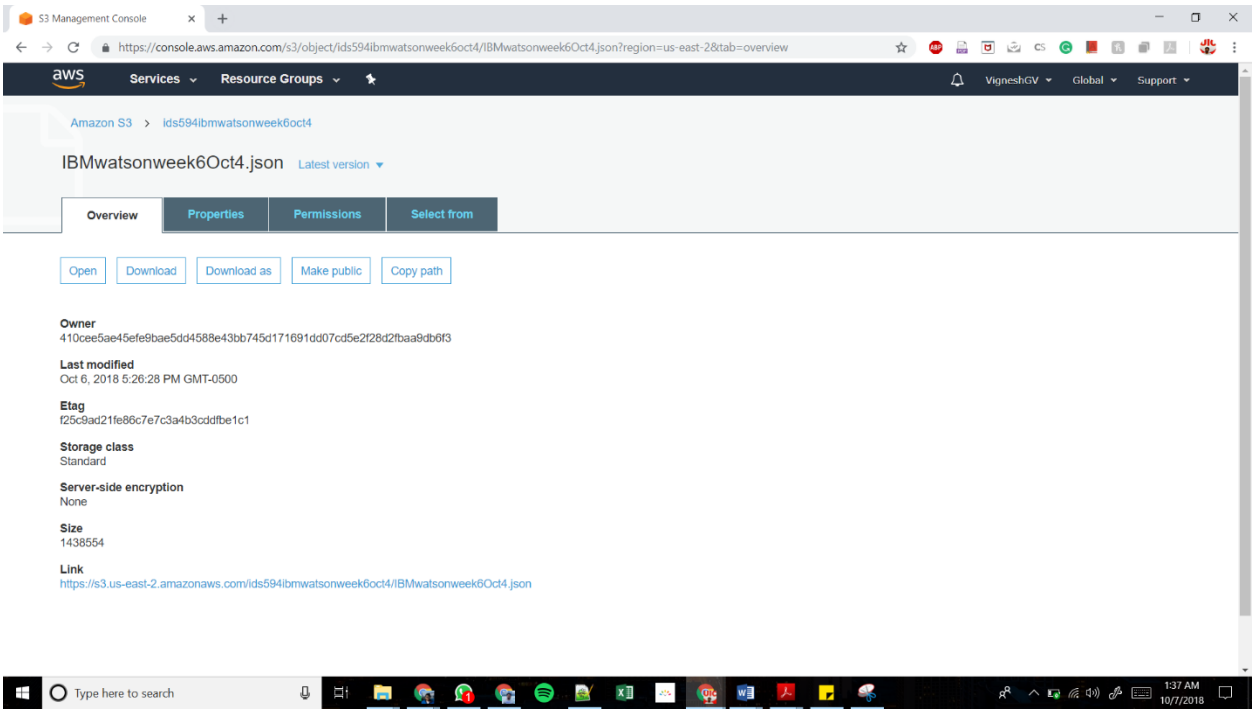
Step-4: Converting json file to word format

- Once the job gets completed click on the completed job to view the details

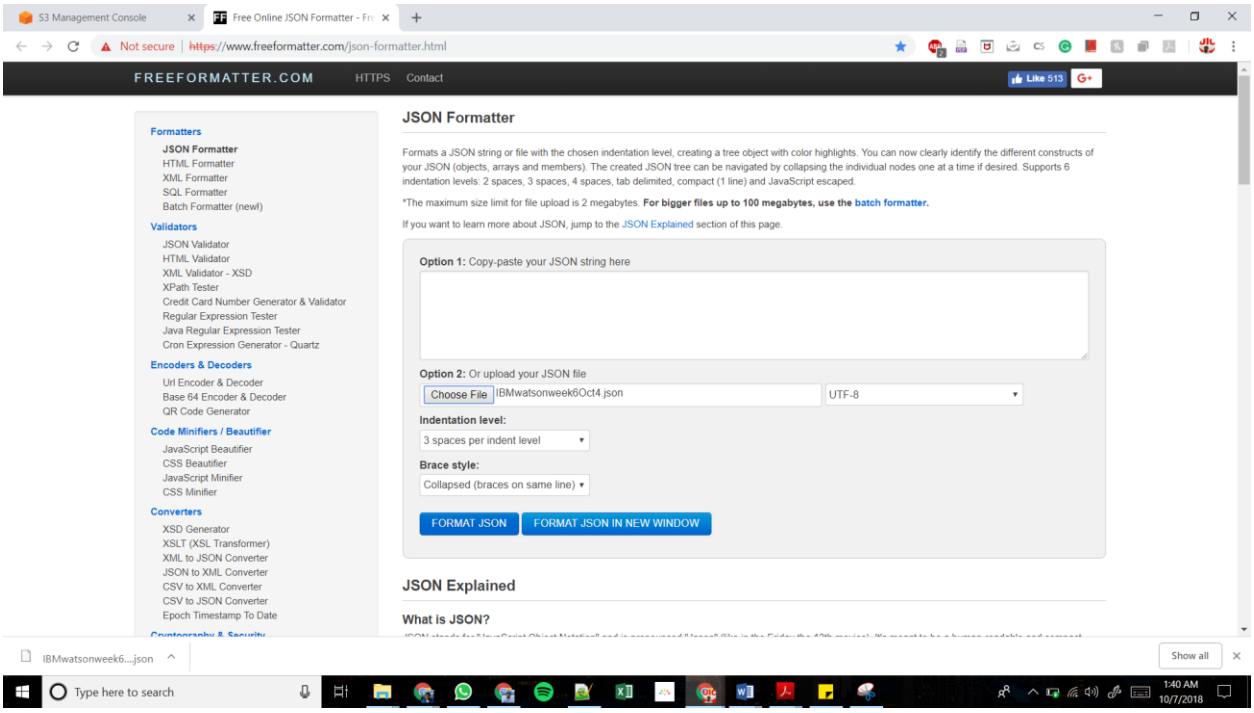


- Open your S3 bucket to view the converted json file.

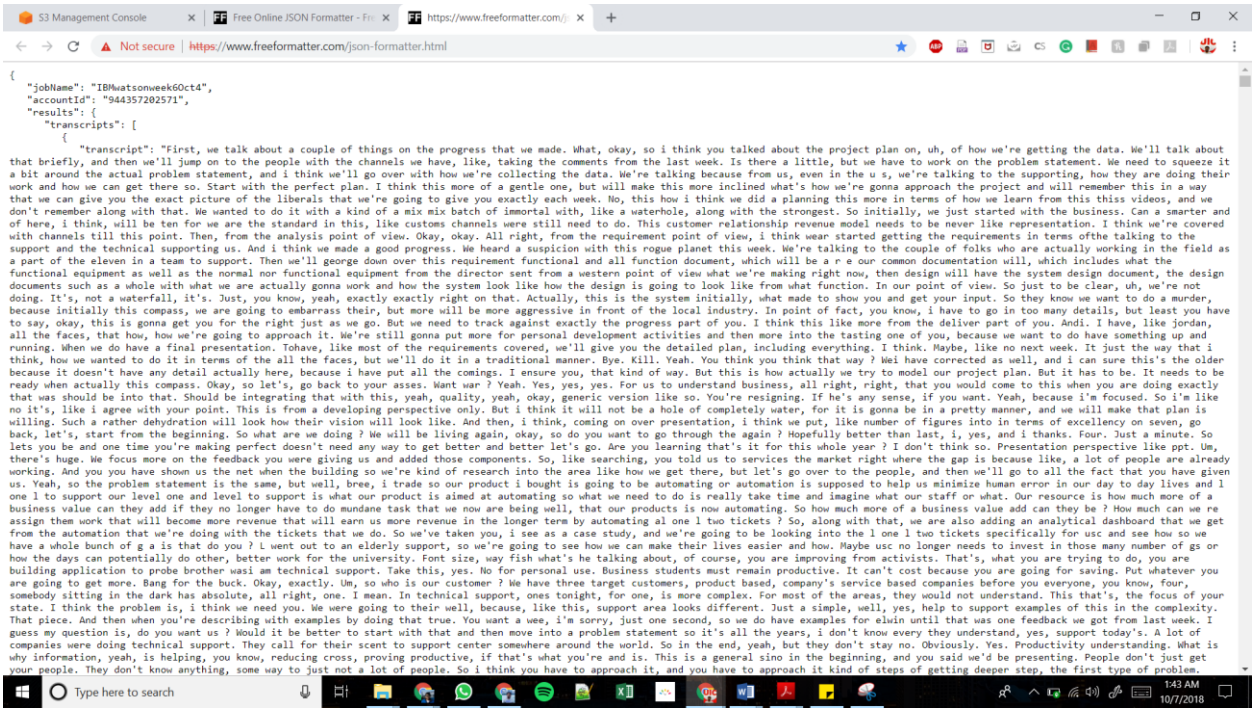




- Download the json file to convert it into readable word format.
- I have used an online resource called “freeformatter.com” to convert json to word



- The online tool converts the json format into word format as shown below.



- The amazon transcribe is not accurate in terms of spelling and grammar. So, you can use spell check in MS word or a useful online resource called “Grammarly”. I have used both for arriving the final text document.

Resources Used:

- mp3, mp4 audio files
- AWS Amazon S3 and Amazon Transcribe
- https://freeformatter.com/
- https://app.grammarly.com/
- MS Word