

TASK B: Step-by-step guide to generate a DynamoDB Table using the data stored on the S3 Bucket.

In the previous task we successfully stored JSON data on an S3 bucket named 30119304-box-stream-bucket and now we are going to generate a DynamoDB Table using the data stored on the 30119304-box-stream-bucket bucket.

1. Go to the AWS (Amazon Web Services) Management Console and sign in to your AWS account.

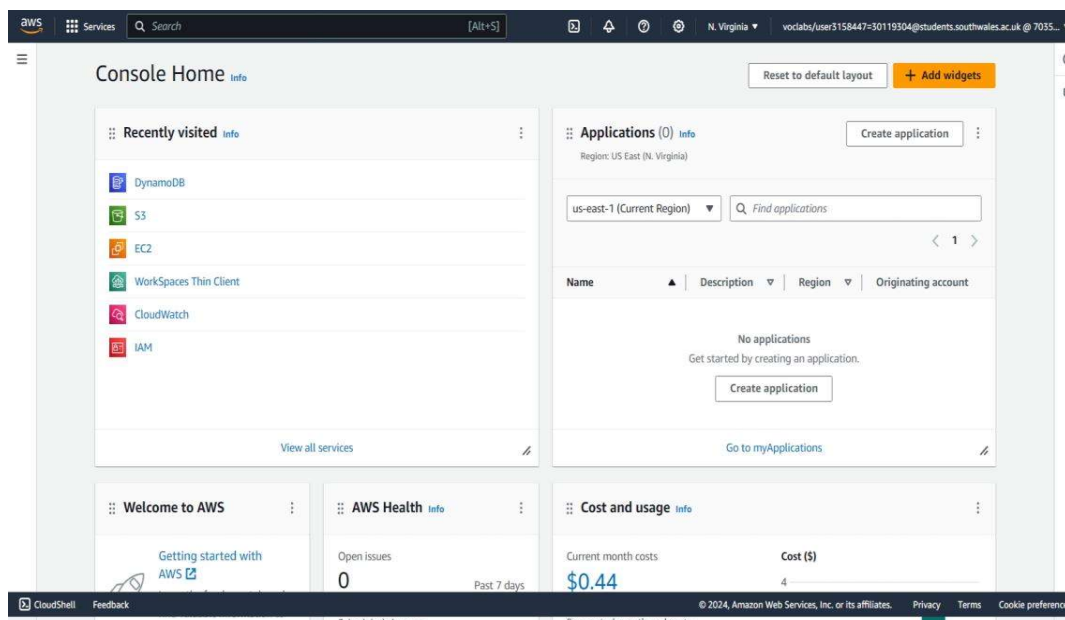


Fig 1: AWS (Amazon Web services) Home page

2. Once logged in, navigate to the DynamoDB service by clicking on "**Services**" in the top left corner, then selecting "**DynamoDB**" under the Database section or you can search in the search bar.

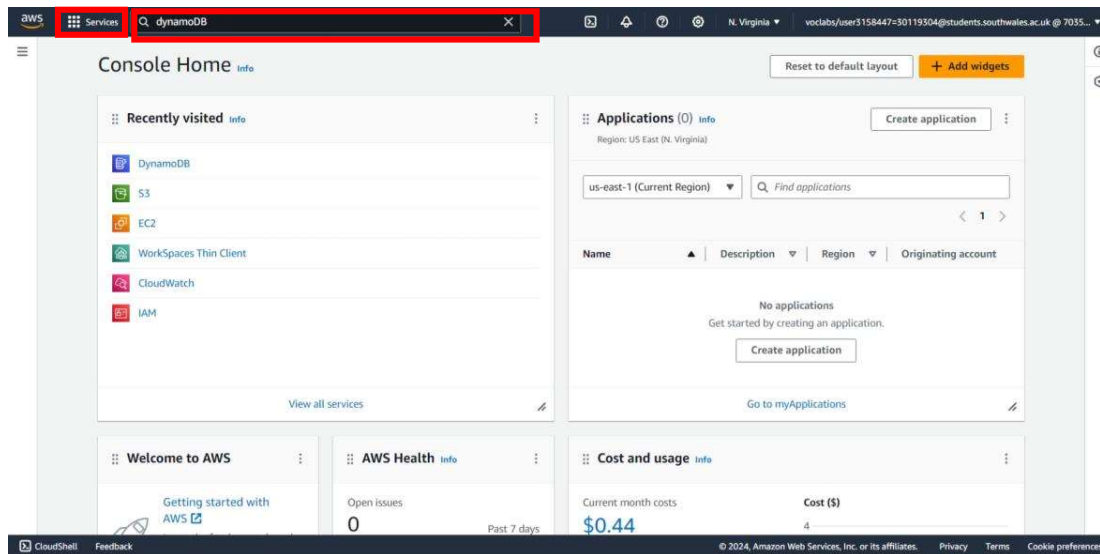


Fig 2: AWS (Amazon Web services) Home page

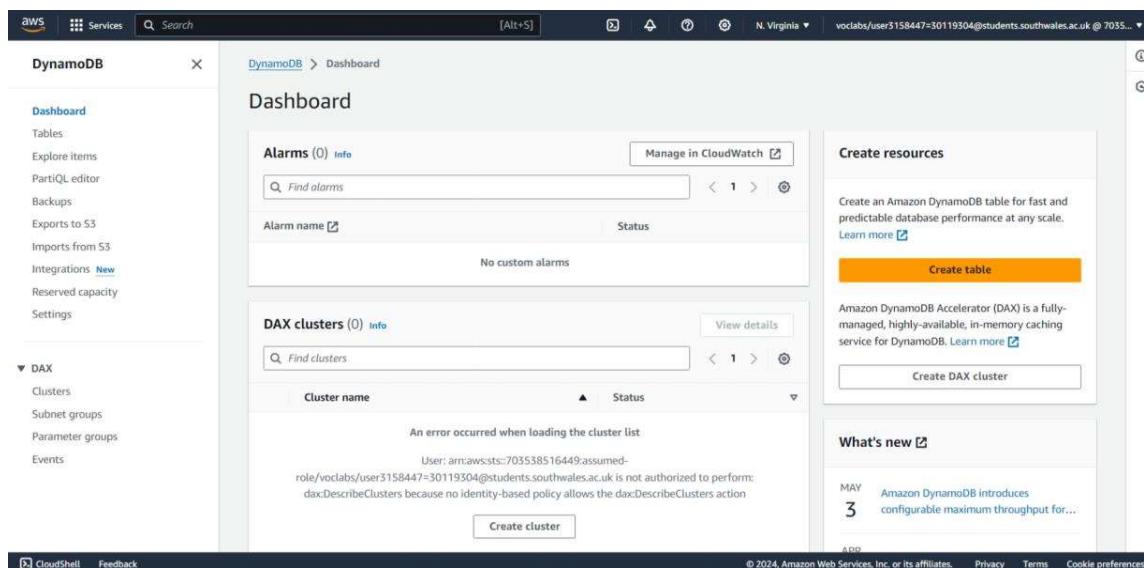


Fig 3: DynamoDB page

3. Begin generating a DynamoDB table using the data stored in S3 bucket(30119304-box-stream-bucket).
 - Check that the **N. Virginia (us-east-1)** region's resources are currently being managed by your EC2 console. Checking the drop-down option to the left of your username at the top of the screen will allow you to confirm this. Before

moving on to the following stage, select the N. Virginia region from the region selection if it is not already shown.

- In the Right side click on the **"Imports from S3"** option.
- Then click on the **"Import from S3"** button.

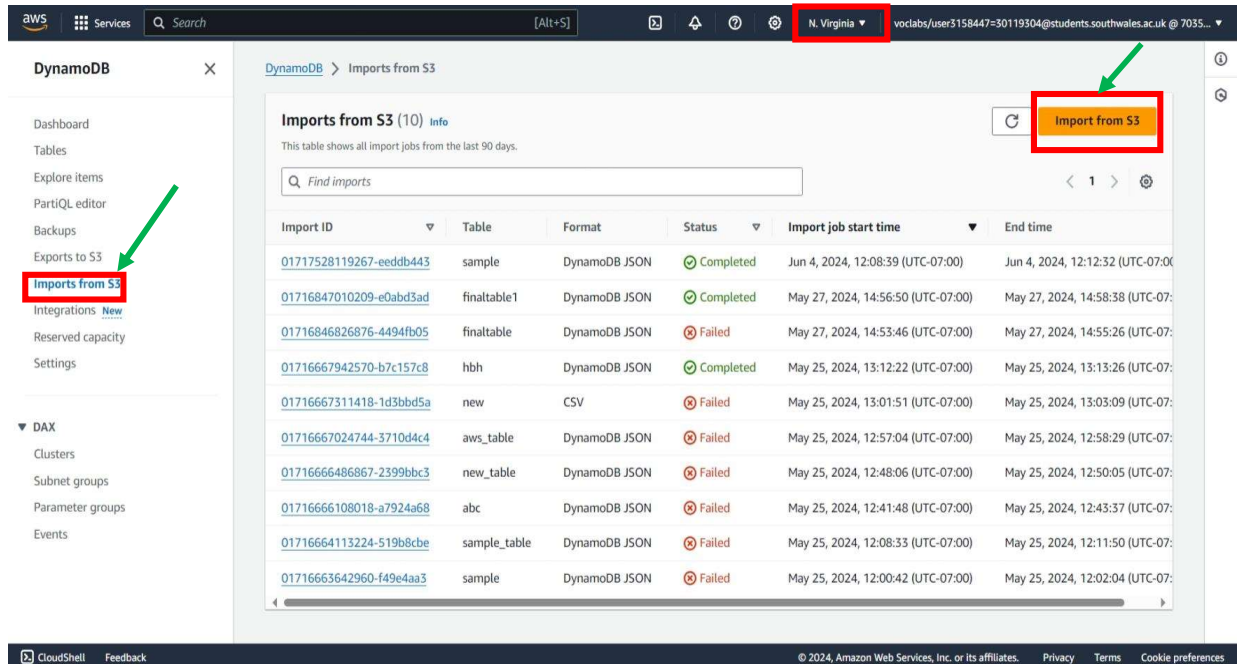


Fig 4: DynamoDB page

- Now begin to start import from your S3 bucket (30119304-box-stream-bucket)
 - In the Source S3 URL option choose browse option to select your S3 bucket (30119304-box-stream-bucket) and click on **choose** button.
 - Make sure in **Import file format** you selected **"DynamoDB JSON"**
 - Leave other settings as default and click on the **"Next"** button.

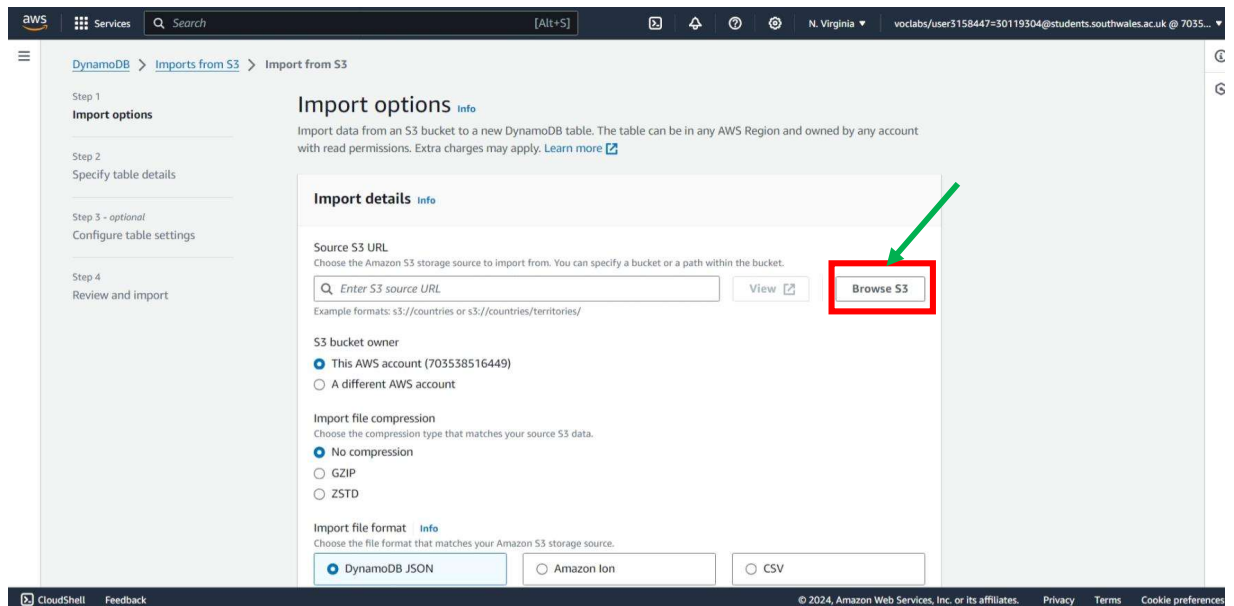


Fig 5: Import from S3 page

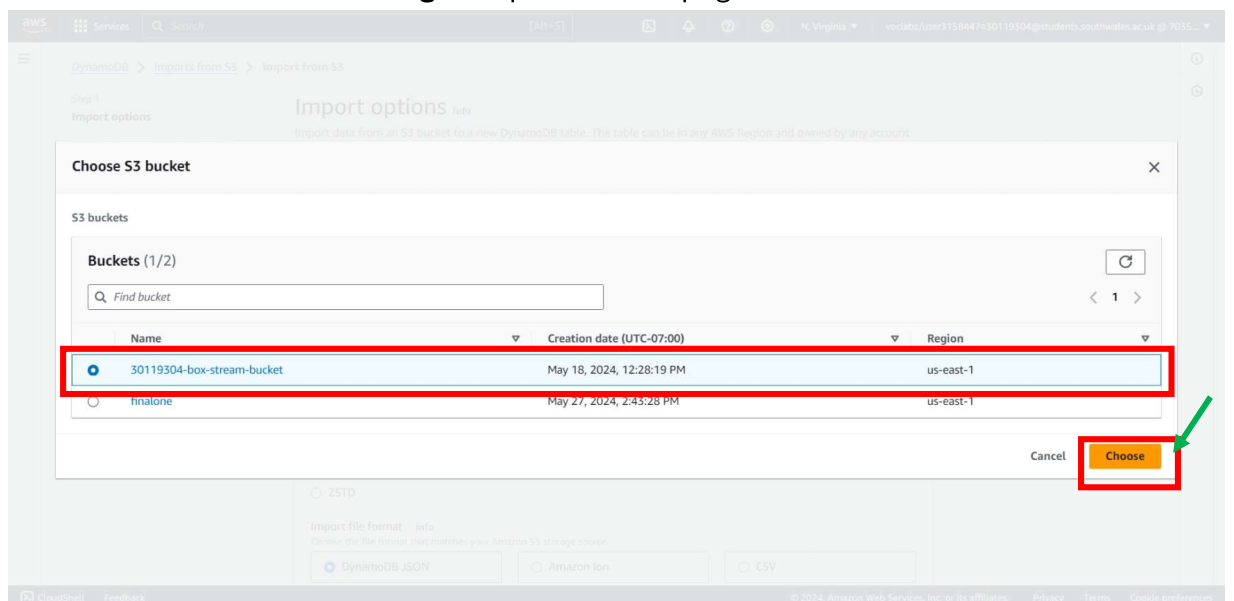


Fig 6: Import from S3 page

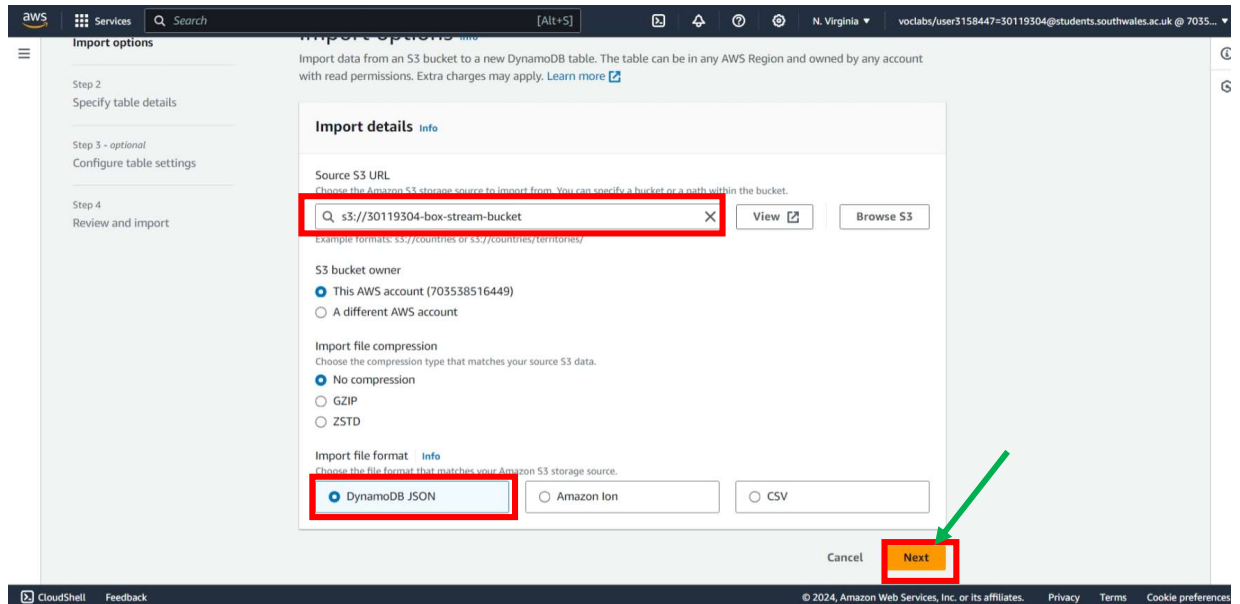


Fig 7: Import from S3 page

5. Now it is time to create DynamoDB table for S3 bucket, configure the DynamoDB table details like:

- Table name: 30119304-box-stream-db
- Partition key: Account Name and type is String

Note: The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.

- Sort key: Account Age and Type is Number

Note: You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.

- Now click on the **Next**
- Table setting select Default setting and click on the **Next** button.
- Review the Configure the table details if everything is correct then
- Click on **Import** button

Specify table details

Table details Info
DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.

Table name
This will be used to identify your table.

Partition key
The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.

Sort key - optional
You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.

Cancel Previous **Next**

Fig 8: Import from S3 page

Configure table settings - optional

Table settings

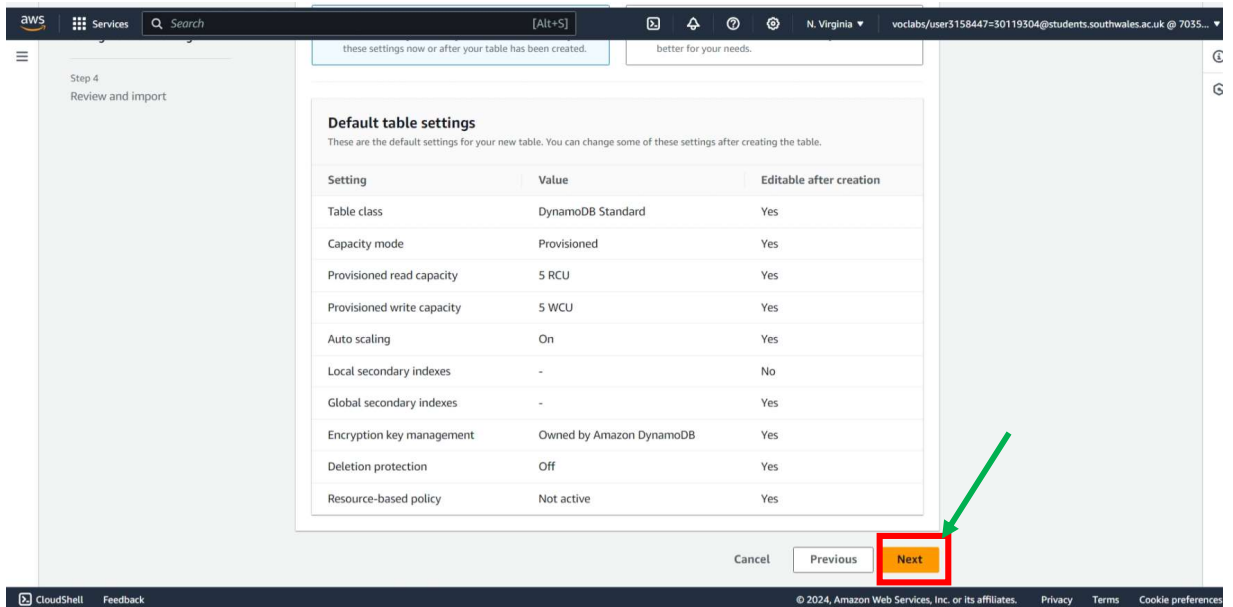
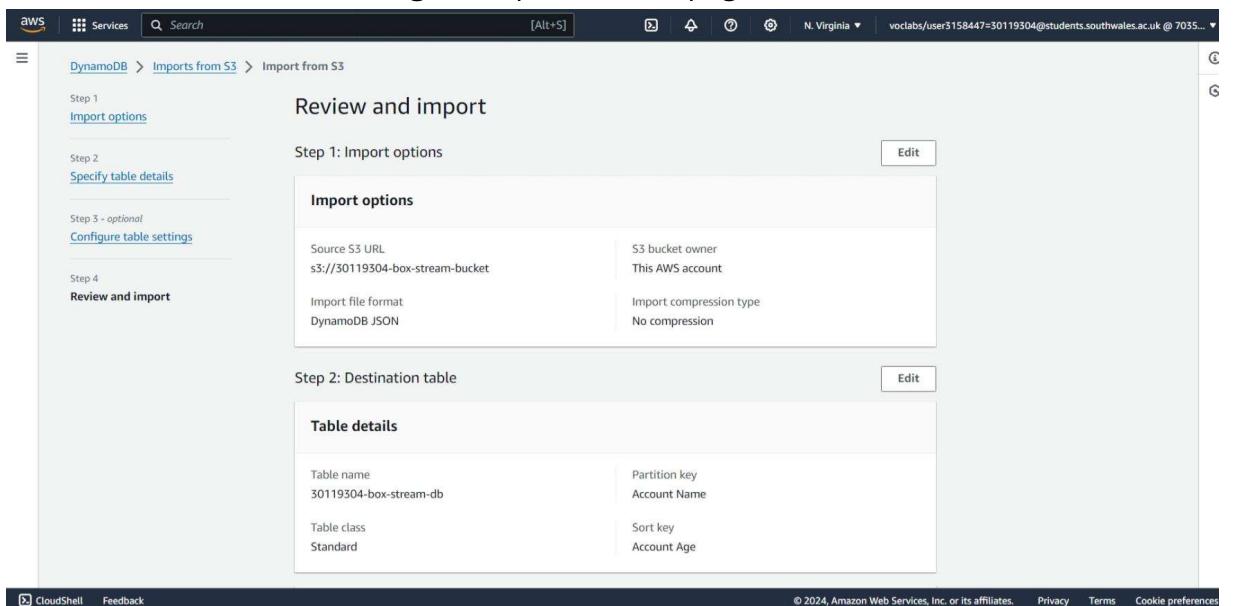
☒ **Default settings**
The fastest way to create your table. You can modify these settings now or after your table has been created.

☐ **Customize settings**
Use these advanced features to make DynamoDB work better for your needs.

Default table settings
These are the default settings for your new table. You can change some of these settings after creating the table.

Setting	Value	Editable after creation
Table class	DynamoDB Standard	Yes
Capacity mode	Provisioned	Yes
Provisioned read capacity	5 RCU	Yes
Provisioned write capacity	5 WCU	Yes
Auto scaling	On	Yes
Local secondary indexes	-	No

Fig 9: Import from S3 page

**Fig 10: Import from S3 page****Fig 11: Import from S3 page**

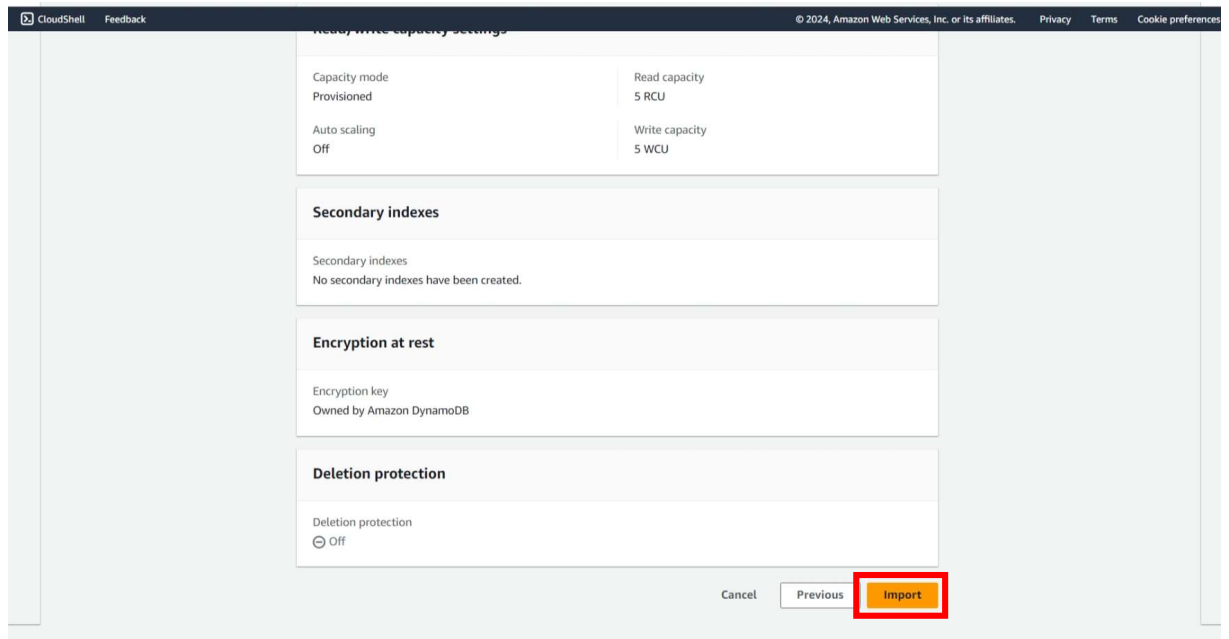


Fig 12: Import from S3 page

6. Now it will take a few minutes to Upload, after that you can see the notification on your screen that you successfully imported.

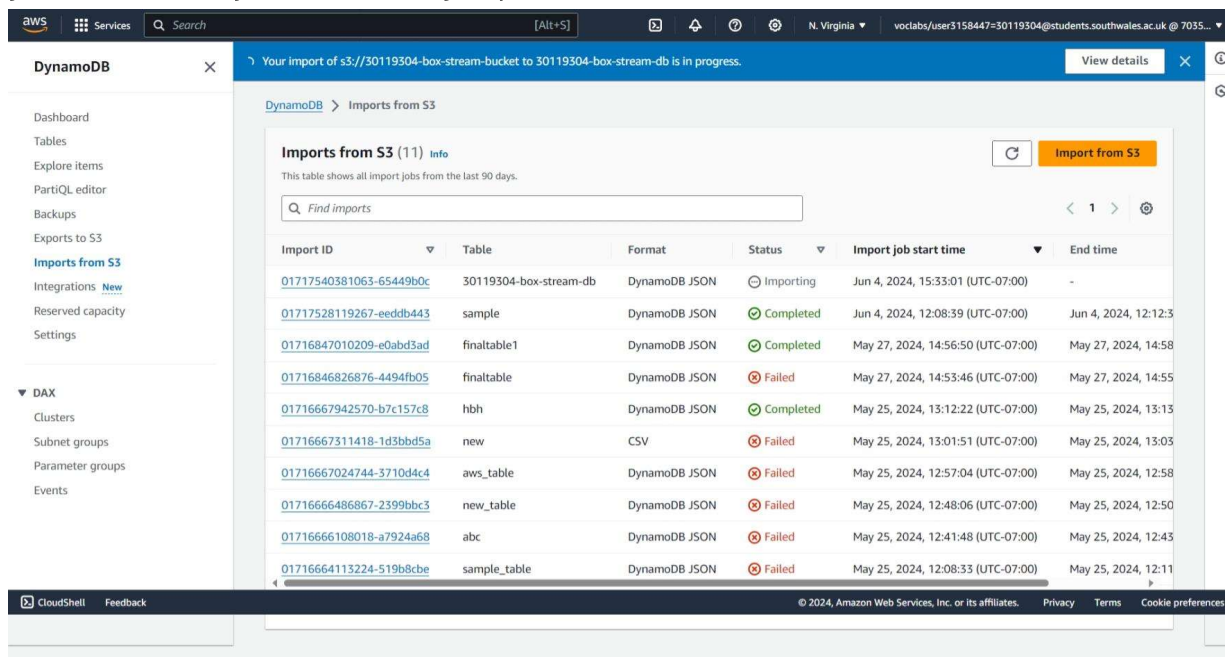


Fig 13: DynamoDB page

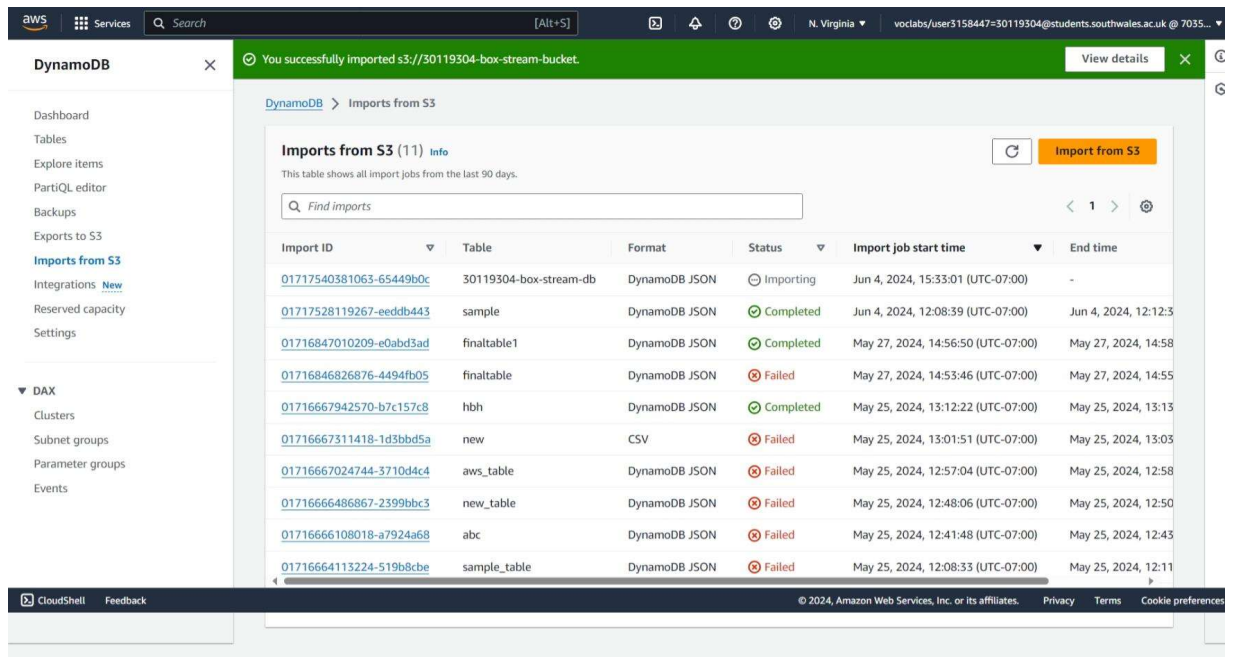


Fig 14: DynamoDB page

7. In the right side click on the “**Tables**” and open now you can see your **30119304-box-stream-db** table has appeared in the tables.

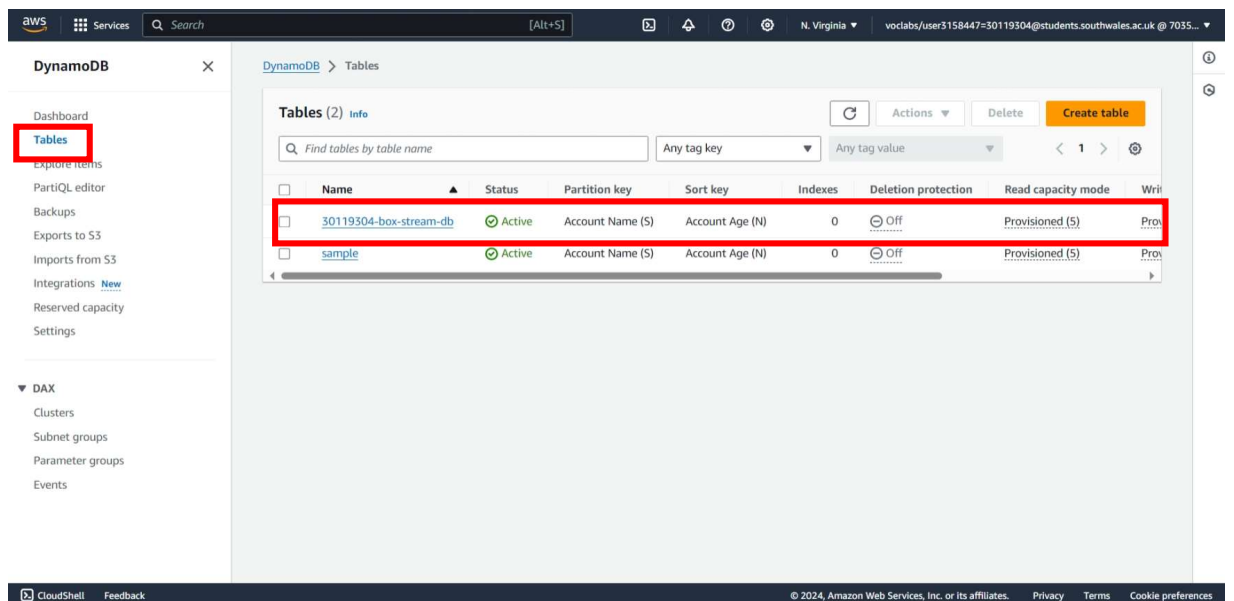


Fig 15: DynamoDB page

Congratulations! You have successfully generated a DynamoDB Table using the data stored on the S3 Bucket.