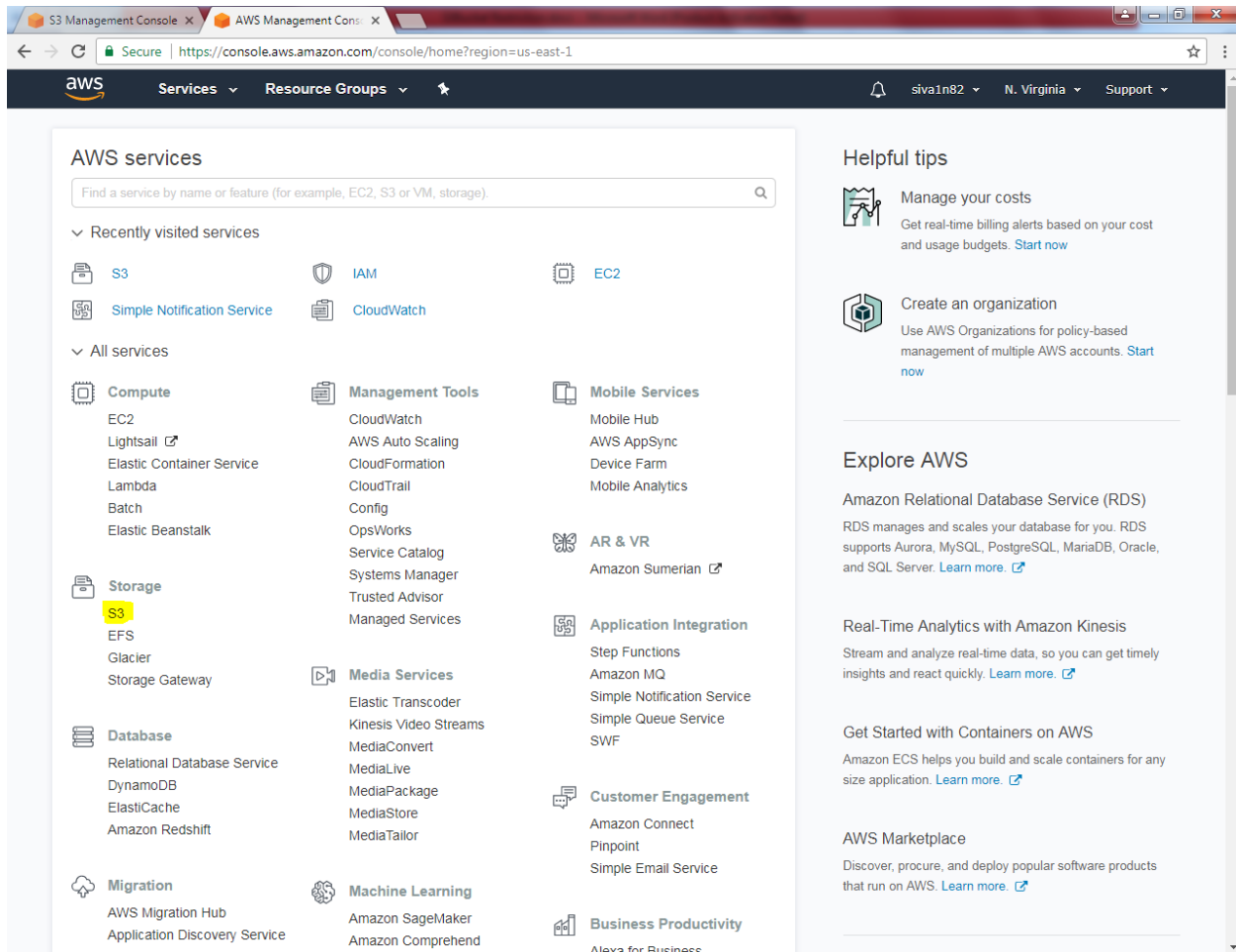


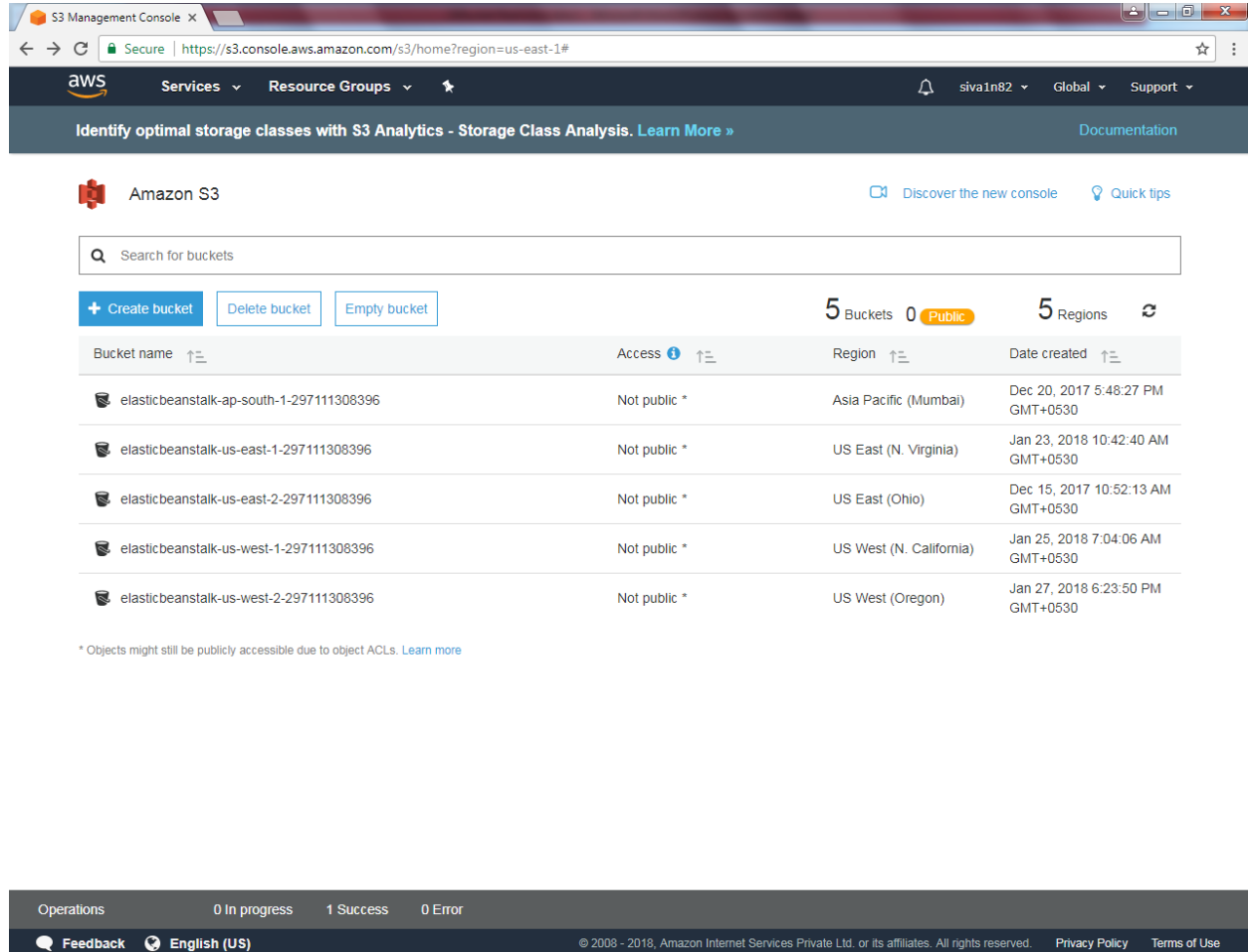
## Lab 23

## S3 Bucket – write restriction by using IAM

Click “S3” service.



Click “Create bucket”.



The screenshot shows the AWS S3 Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and a user profile 'siva1n82'. Below this is a banner for 'Identify optimal storage classes with S3 Analytics - Storage Class Analysis. Learn More »'. The main header area includes the 'Amazon S3' logo, a search bar, and links for 'Discover the new console' and 'Quick tips'.

Below the header, there's a section for bucket management with buttons for '+ Create bucket', 'Delete bucket', and 'Empty bucket'. To the right of these buttons, it shows '5 Buckets', '0 Public', and '5 Regions'.

The main content area displays a table of buckets:

Bucket name	Access	Region	Date created
elasticbeanstalk-ap-south-1-297111308396	Not public *	Asia Pacific (Mumbai)	Dec 20, 2017 5:48:27 PM GMT+0530
elasticbeanstalk-us-east-1-297111308396	Not public *	US East (N. Virginia)	Jan 23, 2018 10:42:40 AM GMT+0530
elasticbeanstalk-us-east-2-297111308396	Not public *	US East (Ohio)	Dec 15, 2017 10:52:13 AM GMT+0530
elasticbeanstalk-us-west-1-297111308396	Not public *	US West (N. California)	Jan 25, 2018 7:04:06 AM GMT+0530
elasticbeanstalk-us-west-2-297111308396	Not public *	US West (Oregon)	Jan 27, 2018 6:23:50 PM GMT+0530

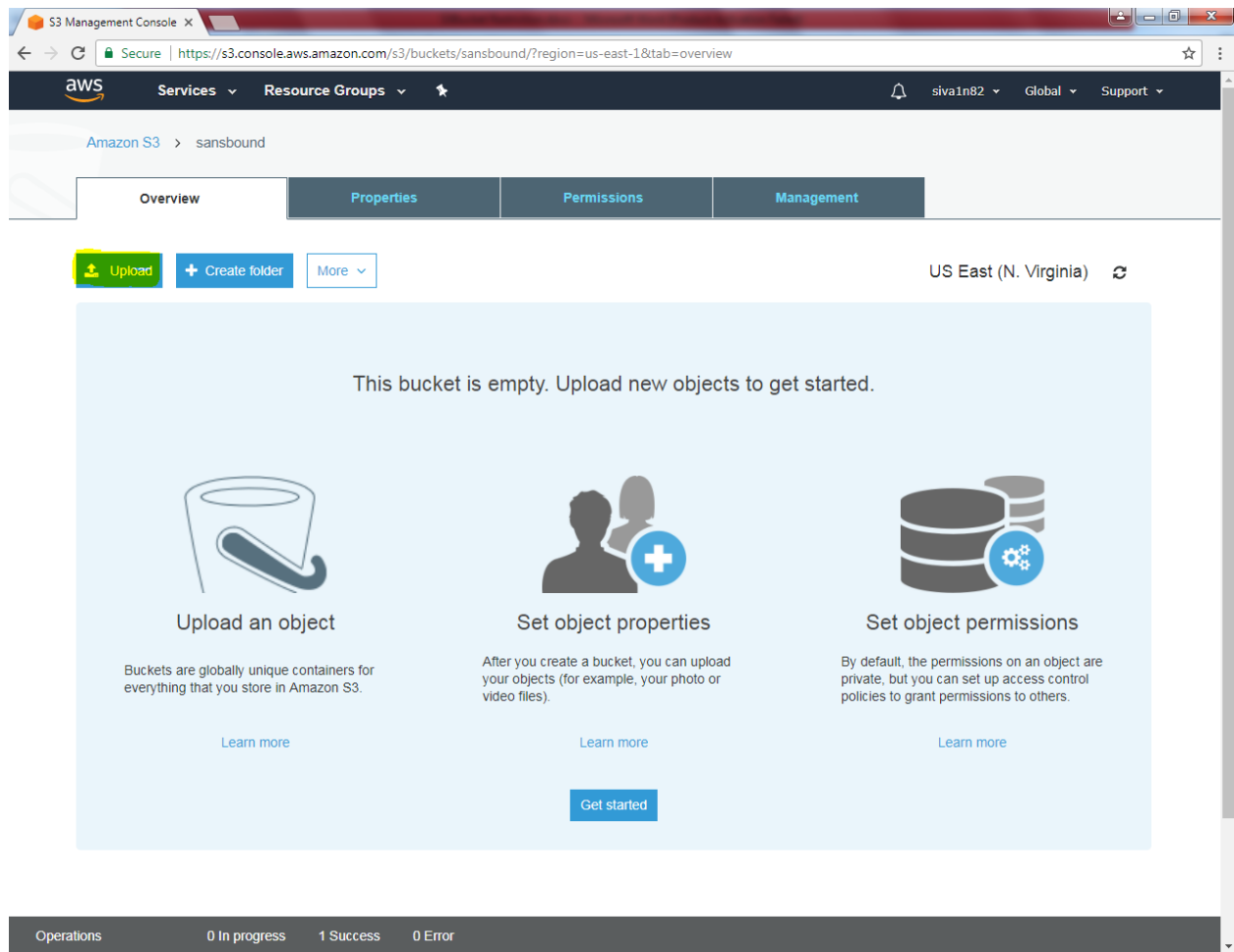
Below the table, a note states: '\* Objects might still be publicly accessible due to object ACLs. Learn more'.

At the bottom, there's a footer with 'Operations' (0 In progress, 1 Success, 0 Error), 'Feedback', 'English (US)', and copyright information: '© 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use'.

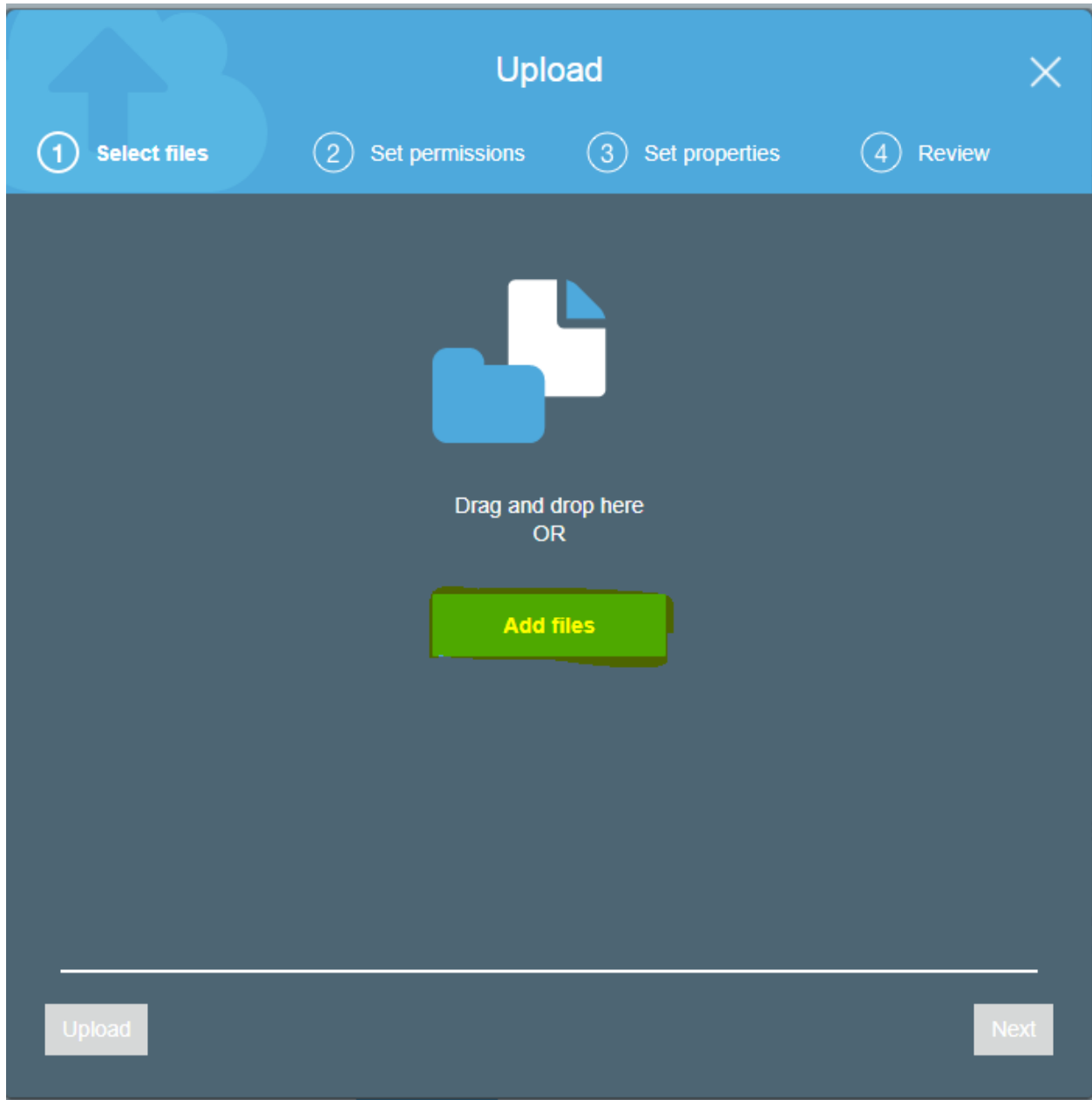
Type the bucketname (unique) and click “Create”.

The screenshot shows the 'Create bucket' wizard in the AWS Management Console. The title bar is blue with the text 'Create bucket' and a close button (X). Below the title bar is a progress bar with four steps: 1. Name and region (active), 2. Set properties, 3. Set permissions, and 4. Review. The main content area is dark blue. Under the heading 'Name and region', there is a 'Bucket name' field with a blue information icon (i) and the text 'sansbound' entered. Below this is a 'Region' dropdown menu showing 'US East (N. Virginia)' with a blue downward arrow. Further down is a section titled 'Copy settings from an existing bucket' with a dropdown menu showing 'Select bucket (optional)' and '5 Buckets' with a blue downward arrow. At the bottom of the form, there are three buttons: 'Create' (highlighted in yellow), 'Cancel' (white with blue border), and 'Next' (blue with white text).

Click “Upload”.

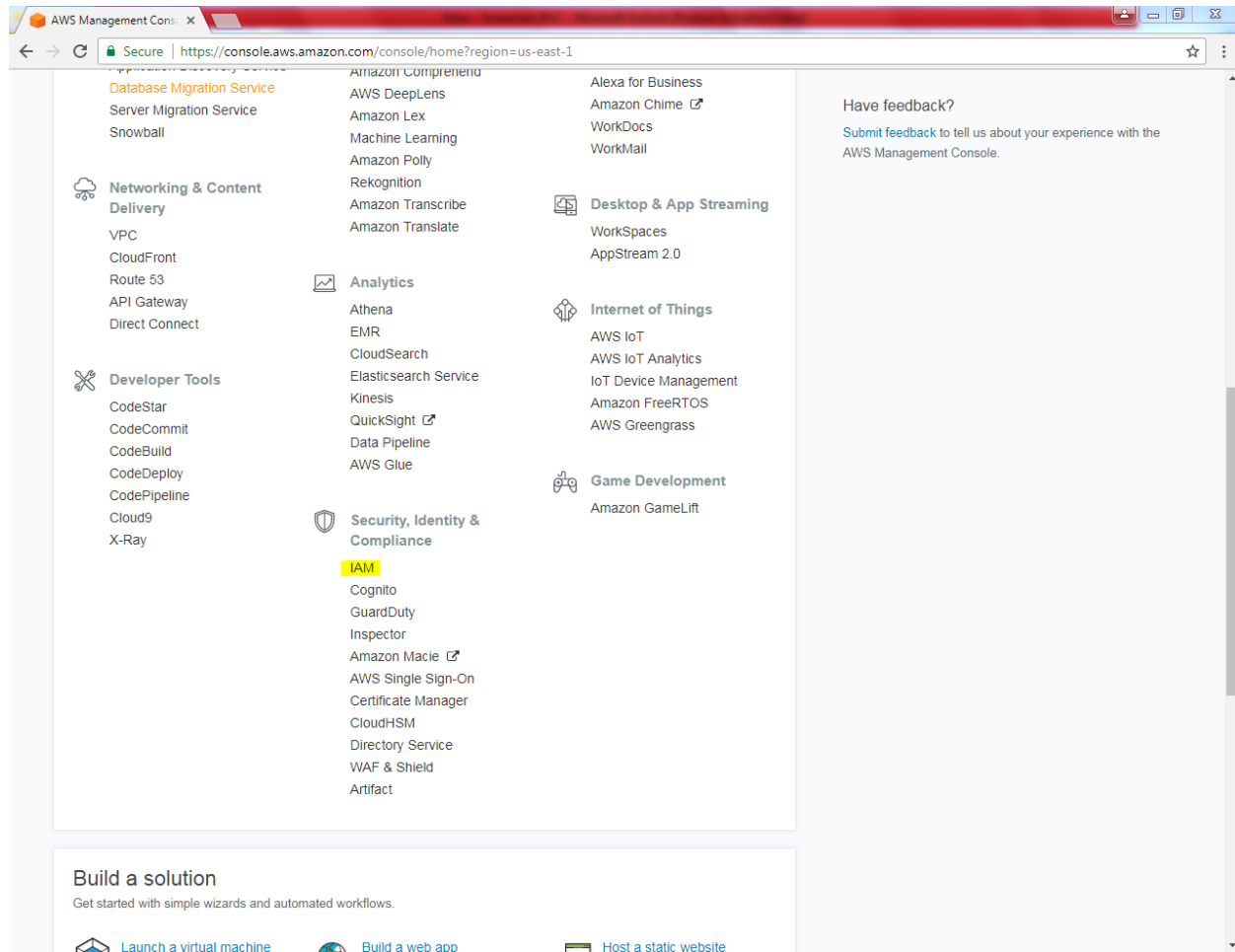


Click “Add files”

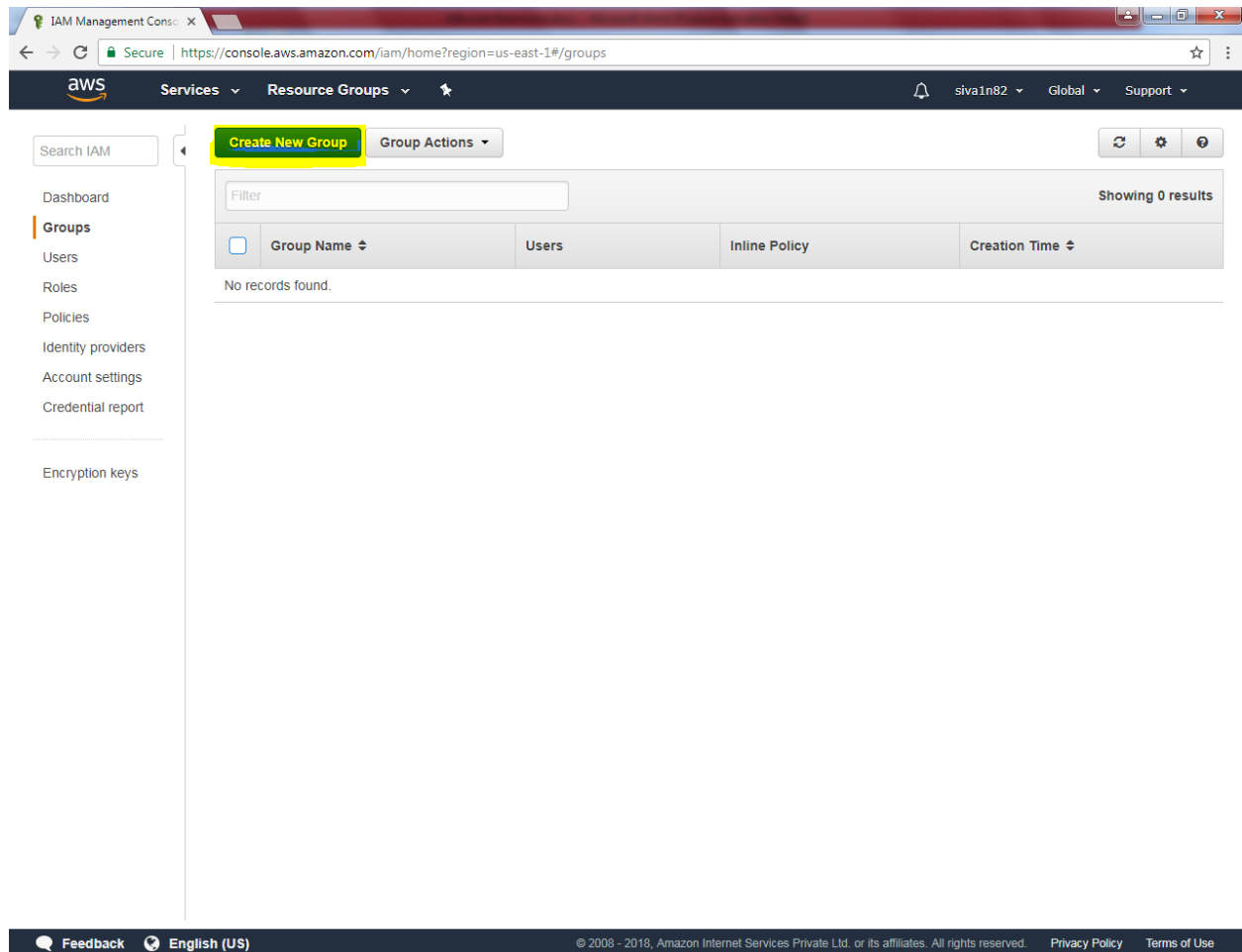


Then Click "Upload".

Click "IAM"



Click “Create New Group”.



Create group as “S3ReadOnlyAccess”.

The screenshot shows the AWS IAM console interface. On the left, a sidebar contains the 'Create New Group Wizard' with three steps: 'Step 1 : Group Name' (selected), 'Step 2 : Attach Policy', and 'Step 3 : Review'. The main content area is titled 'Set Group Name' and includes the instruction 'Specify a group name. Group names can be edited any time.' Below this, the 'Group Name' field is populated with 'S3ReadonlyAccess'. A text box below the field provides an example: 'Example: Developers or ProjectAlpha' and a note: 'Maximum 128 characters'. At the bottom right of the main area, there are two buttons: 'Cancel' and 'Next Step'.

IAM Management Console

Secure | <https://console.aws.amazon.com/iam/home?region=us-east-1#/groups>

aws Services Resource Groups

siva1n82 Global Support

Create New Group Wizard

Step 1 : Group Name

Step 2 : Attach Policy

Step 3 : Review

### Set Group Name

Specify a group name. Group names can be edited any time.

Group Name:

Example: Developers or ProjectAlpha  
Maximum 128 characters

Cancel Next Step

Click "Next".



Click “AmazonS3ReadOnly Access”.

Attach Policy

Select one or more policies to attach. Each group can have up to 10 policies attached.

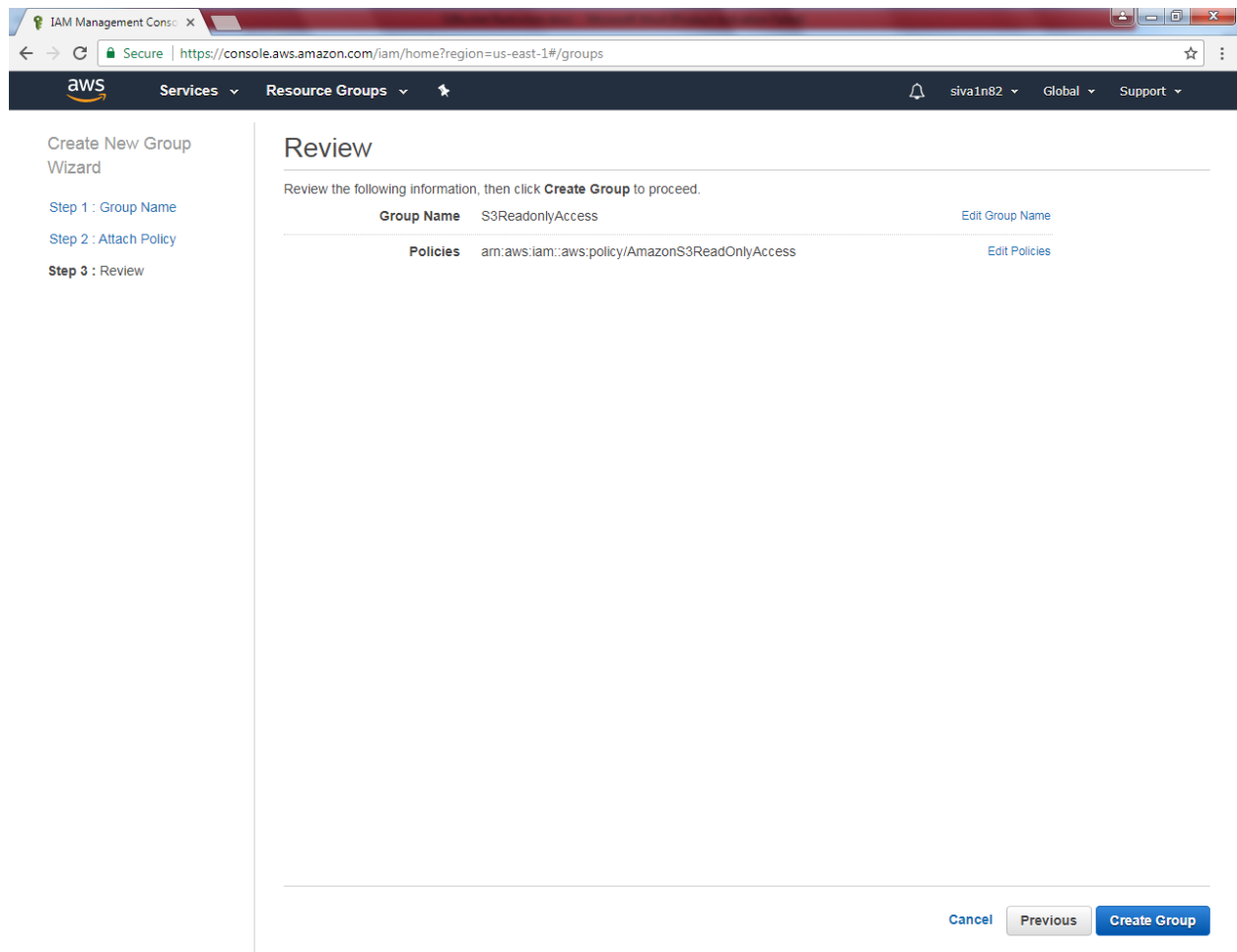
Filter: Policy Type s3 Showing 4 results

	Policy Name	Attached Entities	Creation Time	Edited Time
<input type="checkbox"/>	AmazonDMSRedshiftS3Role	0	2016-04-20 22:35 UTC+0530	2016-04-20 22:35 UTC+...
<input type="checkbox"/>	AmazonS3FullAccess	0	2015-02-07 00:10 UTC+0530	2015-02-07 00:10 UTC+...
<input checked="" type="checkbox"/>	AmazonS3ReadOnlyAccess	0	2015-02-07 00:10 UTC+0530	2015-02-07 00:10 UTC+...
<input type="checkbox"/>	QuickSightAccessForS3Stor...	0	2017-06-12 23:48 UTC+0530	2017-07-21 05:32 UTC+...

Cancel Previous Next Step

Click “Next”.

Click “Create Group”.

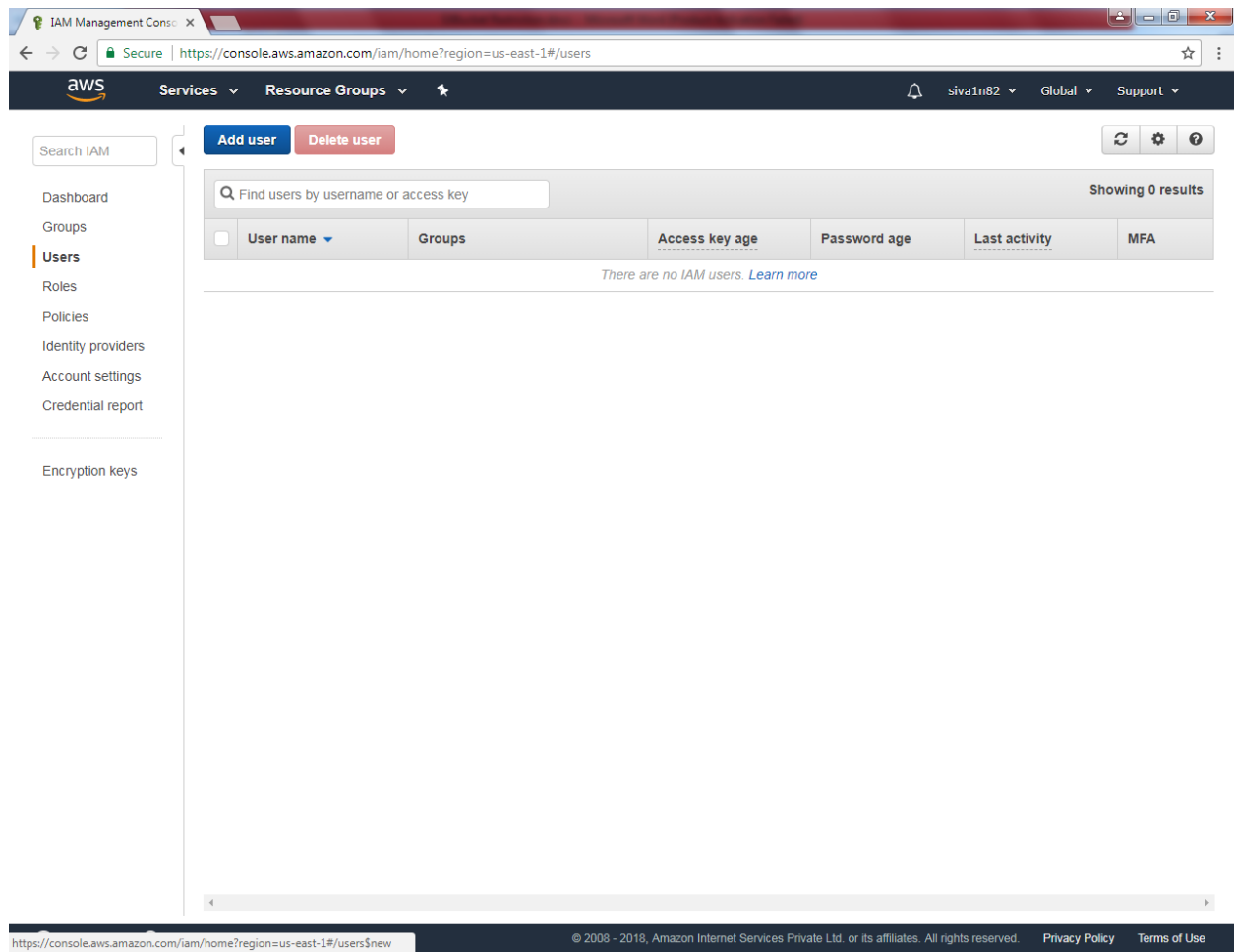


Group has been created successfully.

The screenshot displays the AWS IAM Management Console interface. The top navigation bar includes the AWS logo, a 'Services' dropdown, a 'Resource Groups' dropdown, and a user profile 'siva1n82' with a 'Global' region selector and a 'Support' link. The left-hand navigation pane lists various IAM components: Dashboard, Groups (highlighted), Users, Roles, Policies, Identity providers, Account settings, Credential report, and Encryption keys. The main content area is titled 'Groups' and features a 'Create New Group' button and a 'Group Actions' dropdown. Below these is a search bar labeled 'Filter' and a table showing one result. The table has columns for 'Group Name', 'Users', 'Inline Policy', and 'Creation Time'. The single entry is 'S3ReadOnlyAccess' with 0 users, no inline policy, and a creation time of '2018-02-05 08:00 UTC+0530'. The bottom of the console shows a 'Feedback' link, the language 'English (US)', and copyright information for 2008-2018.

<input type="checkbox"/>	Group Name ↕	Users	Inline Policy	Creation Time ↕
<input type="checkbox"/>	S3ReadOnlyAccess	0		2018-02-05 08:00 UTC+0530

Click “Add user”.



Type the username & password for access IAM console.

**Set user details**

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name\*

[Add another user](#)

**Select AWS access type**

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type\* ☒ **Programmatic access**  
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☒ **AWS Management Console access**  
Enables a **password** that allows users to sign-in to the AWS Management Console.

Console password\* ☐ Autogenerated password  
☒ Custom password

☐ Show password

Require password reset ☐ User must create a new password at next sign-in  
Users automatically get the [IAMUserChangePassword](#) policy to allow them to change their own password.

\* Required

[Cancel](#) [Next: Permissions](#)

[Feedback](#) [English \(US\)](#) © 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. [Privacy Policy](#) [Terms of Use](#)

Click "Next".

Select "S3ReadonlyAccess" group

The screenshot shows the AWS IAM Management Console interface. At the top, the browser address bar displays the URL: `https://console.aws.amazon.com/iam/home?region=us-east-1#/users$new?step=permissions&accessKey&login&userNames=student1&passwordType=manual`. The console header includes the AWS logo, navigation tabs for 'Services' and 'Resource Groups', and user information 'siva1n82' with 'Global' and 'Support' links.

The main content area features three action cards: 'Add user to group' (highlighted with a blue border), 'Copy permissions from existing user', and 'Attach existing policies directly'. Below these cards, a text box explains: 'Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)'. Below this text are 'Create group' and 'Refresh' buttons.

A search bar with the placeholder 'Search' is present, followed by a table showing search results. The table has two columns: 'Group' and 'Attached policies'. One result is shown:

Group	Attached policies
<input checked="" type="checkbox"/> S3ReadOnlyAccess	AmazonS3ReadOnlyAccess

At the bottom right of the main content area, there are three buttons: 'Cancel', 'Previous', and 'Next: Review' (which is highlighted in blue).

The footer contains a 'Feedback' link, 'English (US)' language selection, and copyright information: '© 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.' along with 'Privacy Policy' and 'Terms of Use' links.

Click "Next".

Click “Create user”.

The screenshot shows the AWS IAM console 'Add user' wizard at the 'Review' step. The progress bar at the top indicates four steps: 1. Details, 2. Permissions, 3. Review (current step), and 4. Complete. The 'Review' section contains two main parts: 'User details' and 'Permissions summary'.

**User details**

User name	student1
AWS access type	Programmatic access and AWS Management Console access
Console password type	Custom
Require password reset	No

**Permissions summary**

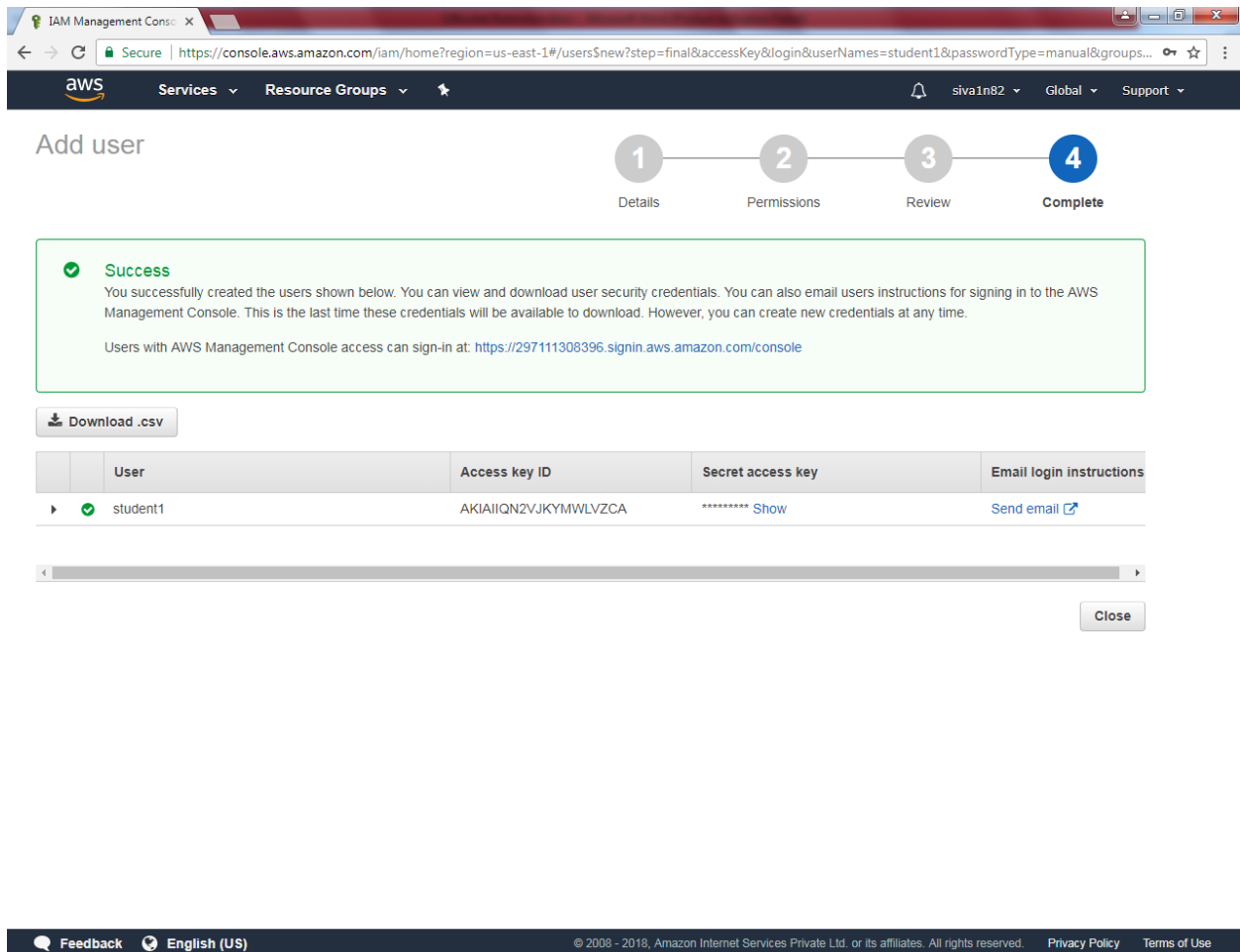
The user shown above will be added to the following groups.

Type	Name
Group	<a href="#">S3ReadOnlyAccess</a>

At the bottom right of the review section, there are three buttons: 'Cancel', 'Previous', and 'Create user'.

The footer of the console includes a 'Feedback' link, the language 'English (US)', and copyright information: '© 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.' It also links to 'Privacy Policy' and 'Terms of Use'.

User created successfully.



The screenshot shows the AWS IAM Management Console interface. At the top, the browser address bar displays the URL: [https://console.aws.amazon.com/iam/home?region=us-east-1#/users\\$new?step=final&accessKey&login&userNames=student1&passwordType=manual&groups...](https://console.aws.amazon.com/iam/home?region=us-east-1#/users$new?step=final&accessKey&login&userNames=student1&passwordType=manual&groups...). The console header includes the AWS logo, navigation tabs for Services and Resource Groups, and user information for 'siva1n82'.

The main heading is 'Add user'. Below it, a progress bar shows four steps: 1 Details, 2 Permissions, 3 Review, and 4 Complete (highlighted in blue).

A green success message box states: 'Success. You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time. Users with AWS Management Console access can sign-in at: <https://297111308396.signin.aws.amazon.com/console>'.

Below the message is a 'Download .csv' button. A table lists the created user:

	User	Access key ID	Secret access key	Email login instructions
▶	✓ student1	AKIAIIQN2VJKYMVLVZCA	***** <a href="#">Show</a>	<a href="#">Send email</a> <a href="#">↗</a>

A 'Close' button is located at the bottom right of the table area.

The footer contains 'Feedback', 'English (US)', copyright information '© 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.', and links for 'Privacy Policy' and 'Terms of Use'.



Type the URL provided by amazon.

Account ID or alias

297111308396

IAM user name

student1

Password

.....

Sign In

[Sign-in using root account credentials](#)

Amazon DynamoDB

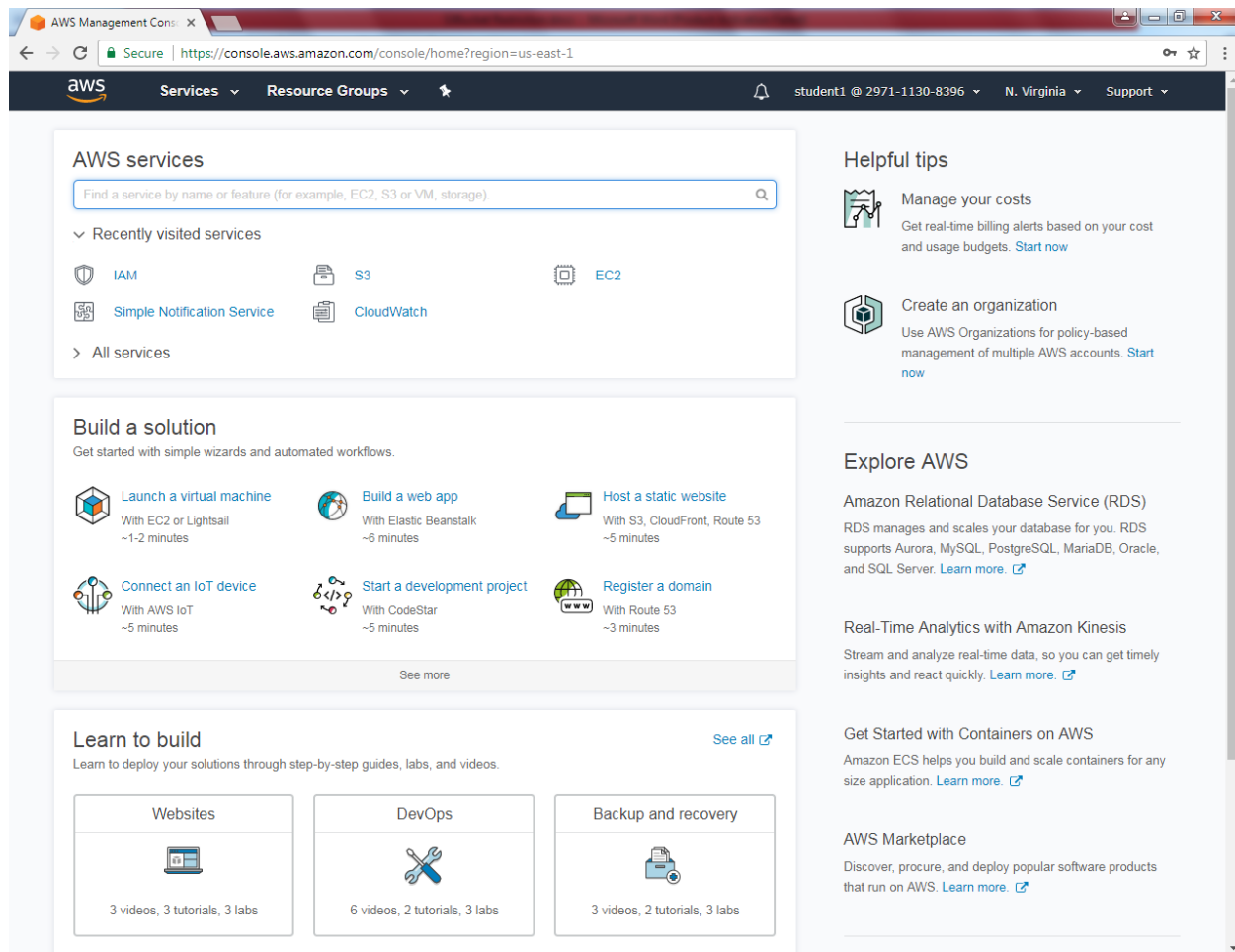
Fast and flexible NoSQL database service for any scale

Learn more

English

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Logged into console.



**AWS services**

Find a service by name or feature (for example, EC2, S3 or VM, storage).

Recently visited services

- IAM
- S3
- EC2
- Simple Notification Service
- CloudWatch

> All services

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With CodeStar  
~5 minutes
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With Route 53  
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Click “Sansbound” bucket.

The screenshot shows the AWS S3 Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and a user profile 'student1 @ 2971-1130-8396'. Below this is a banner for 'Identify optimal storage classes with S3 Analytics - Storage Class Analysis. Learn More »'. The main heading is 'Amazon S3'. Below the heading is a search bar 'Search for buckets'. There are three buttons: '+ Create bucket', 'Delete bucket', and 'Empty bucket'. To the right, it shows '6 Buckets', '0 Public', and '5 Regions'. The main content is a table of buckets:

Bucket name	Access	Region	Date created
elasticbeanstalk-ap-south-1-297111308396	Not public *	Asia Pacific (Mumbai)	Dec 20, 2017 5:48:27 PM GMT+0530
elasticbeanstalk-us-east-1-297111308396	Not public *	US East (N. Virginia)	Jan 23, 2018 10:42:40 AM GMT+0530
elasticbeanstalk-us-east-2-297111308396	Not public *	US East (Ohio)	Dec 15, 2017 10:52:13 AM GMT+0530
elasticbeanstalk-us-west-1-297111308396	Not public *	US West (N. California)	Jan 25, 2018 7:04:06 AM GMT+0530
elasticbeanstalk-us-west-2-297111308396	Not public *	US West (Oregon)	Jan 27, 2018 6:23:50 PM GMT+0530
sansbound	Not public *	US East (N. Virginia)	Feb 5, 2018 7:10:51 AM GMT+0530

\* Objects might still be publicly accessible due to object ACLs. [Learn more](#)

At the bottom, there's a footer with 'Feedback', 'English (US)', '© 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.', 'Privacy Policy', and 'Terms of Use'.

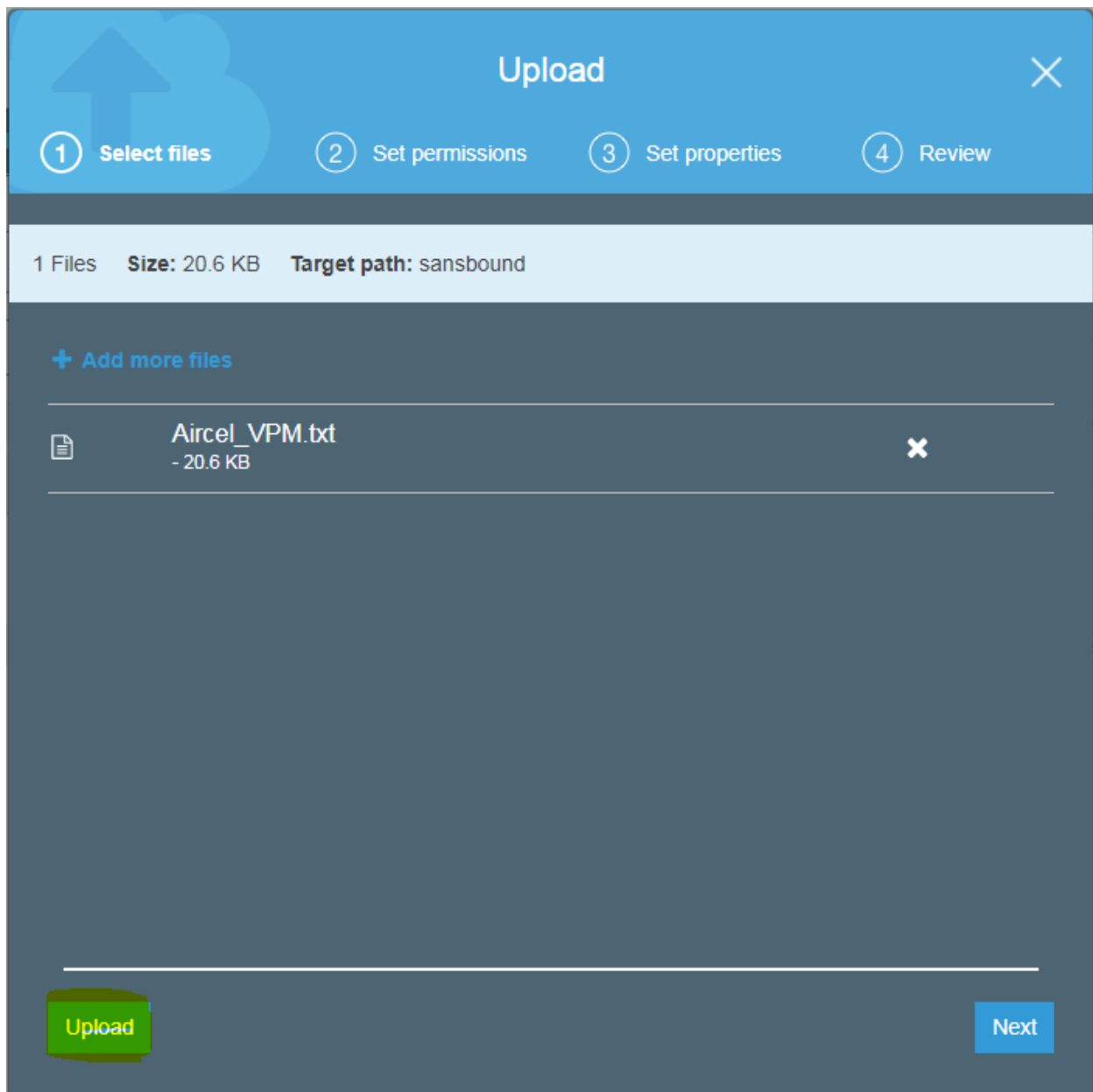
Click “Upload”.

The screenshot shows the AWS S3 Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and user information. Below this, the breadcrumb 'Amazon S3 > sansbound' is visible. The main content area has four tabs: 'Overview' (selected), 'Properties', 'Permissions', and 'Management'. Under the 'Overview' tab, there's a search bar and three buttons: 'Upload', 'Create folder', and 'More'. The region is set to 'US East (N. Virginia)'. A table lists the objects in the bucket:

<input type="checkbox"/>	Name ↑	Last modified ↑	Size ↑	Storage class ↑
<input type="checkbox"/>	New Text Document.txt	Feb 5, 2018 7:14:37 AM GMT+0530	70.0 B	Standard

At the bottom of the table, it says 'Viewing 1 to 1'.

Click “Upload”.



Unable to upload because its read only access.

The screenshot displays the AWS S3 Management Console interface. The browser address bar shows the URL: `https://s3.console.aws.amazon.com/s3/buckets/sansbound/?region=us-east-1&tab=overview`. The console header includes the AWS logo, navigation tabs (Services, Resource Groups), and user information (student1 @ 2971-1130-8396, Global, Support).

The breadcrumb navigation shows `Amazon S3 > sansbound`. Below this, there are four tabs: `Overview` (selected), `Properties`, `Permissions`, and `Management`.

A search bar is present with the placeholder text: "Type a prefix and press Enter to search. Press ESC to clear."

Below the search bar, there are three buttons: `Upload`, `Create folder`, and `More`. To the right, the region is set to `US East (N. Virginia)` with a refresh icon.

A table displays the contents of the bucket, showing one item:

Name	Last modified	Size	Storage class
New Text Document.txt	Feb 5, 2018 7:14:37 AM GMT+0530	70.0 B	Standard

At the bottom, a dark grey status bar shows the `Upload` operation with a red progress bar indicating `100% Failed`. Below this, a summary row shows: `Operations`, `0 In progress`, `0 Success`, and `1 Error`.