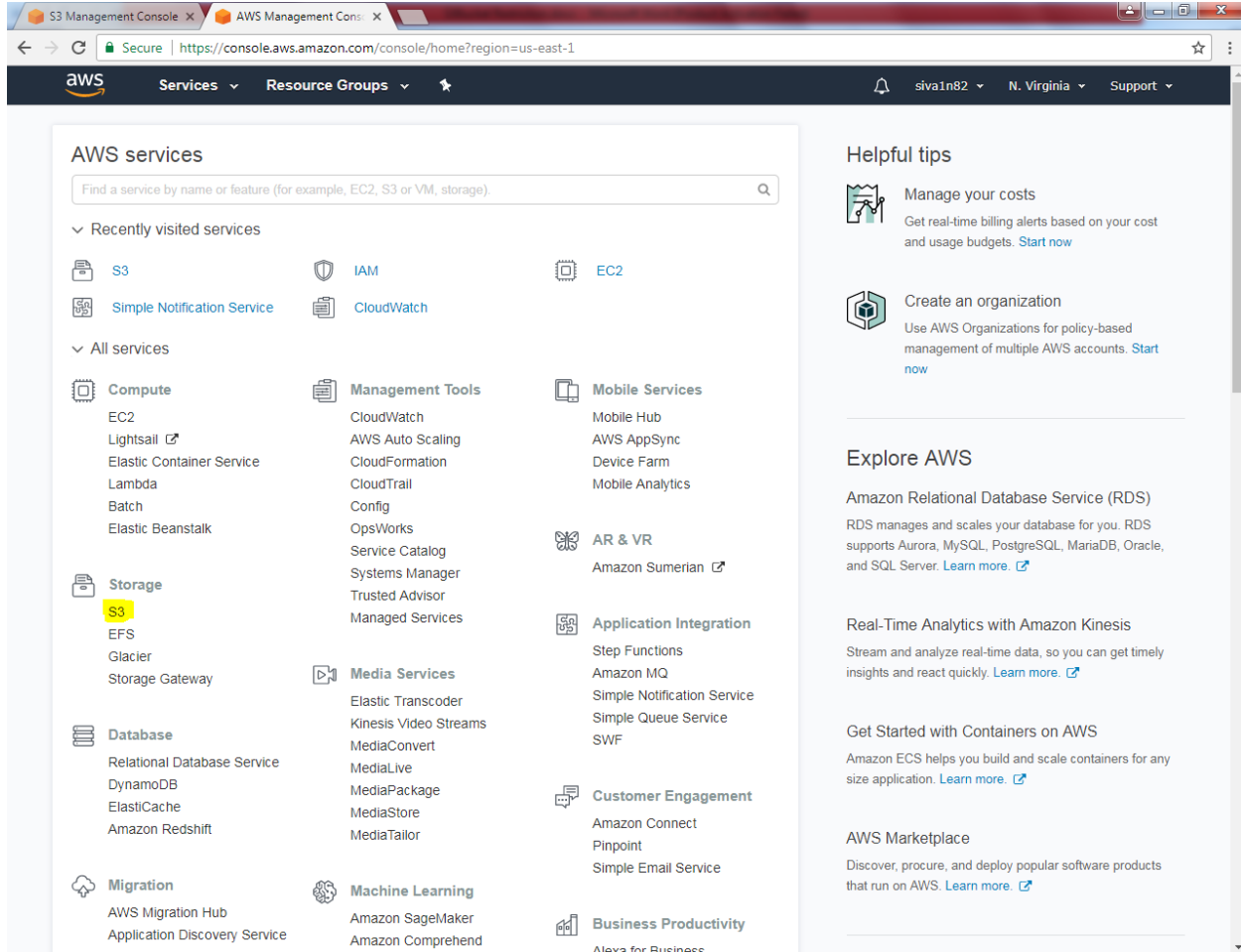


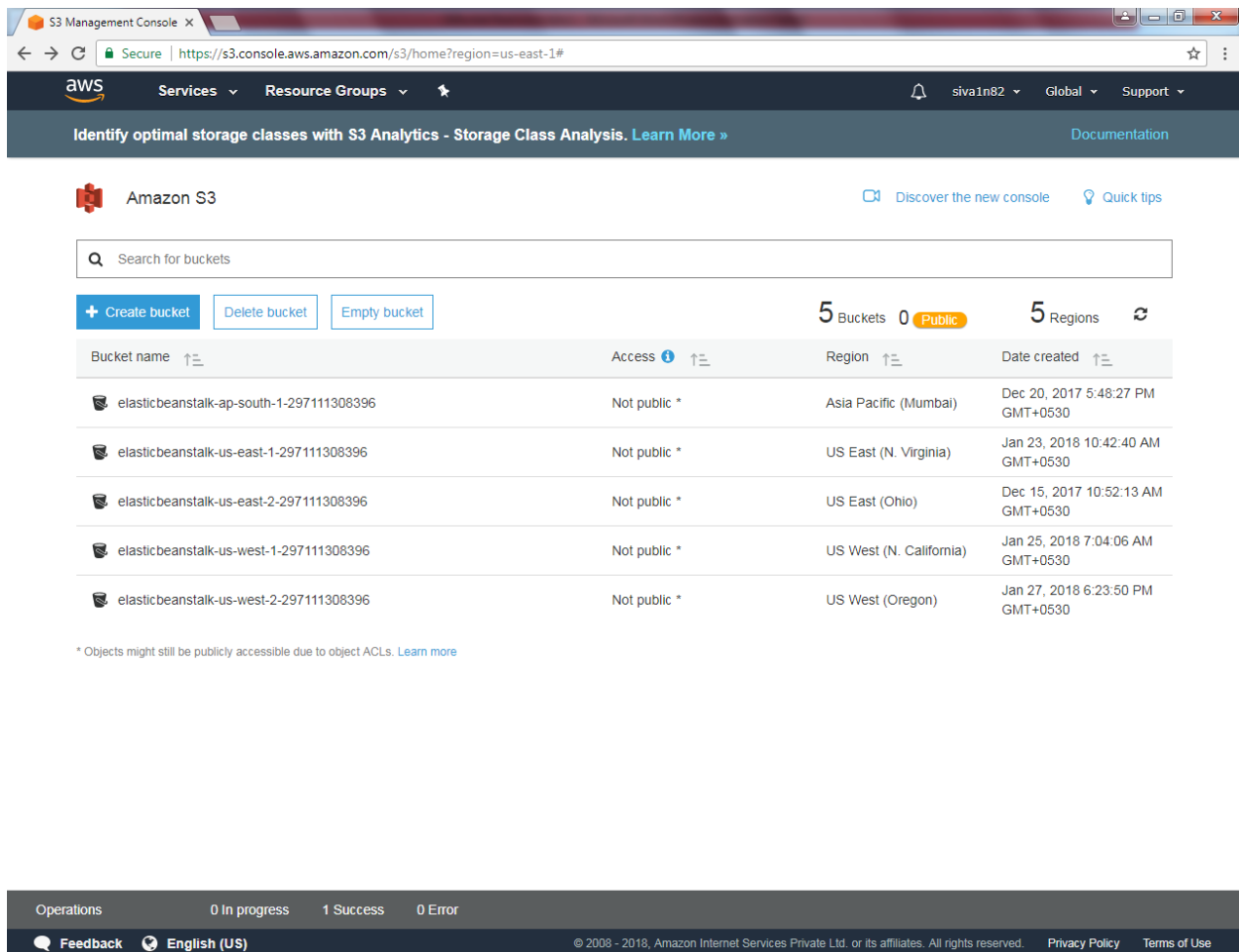
## Lab 23

### S3 Bucket – write restriction by using IAM

Click “S3” service.



Click “Create bucket”.

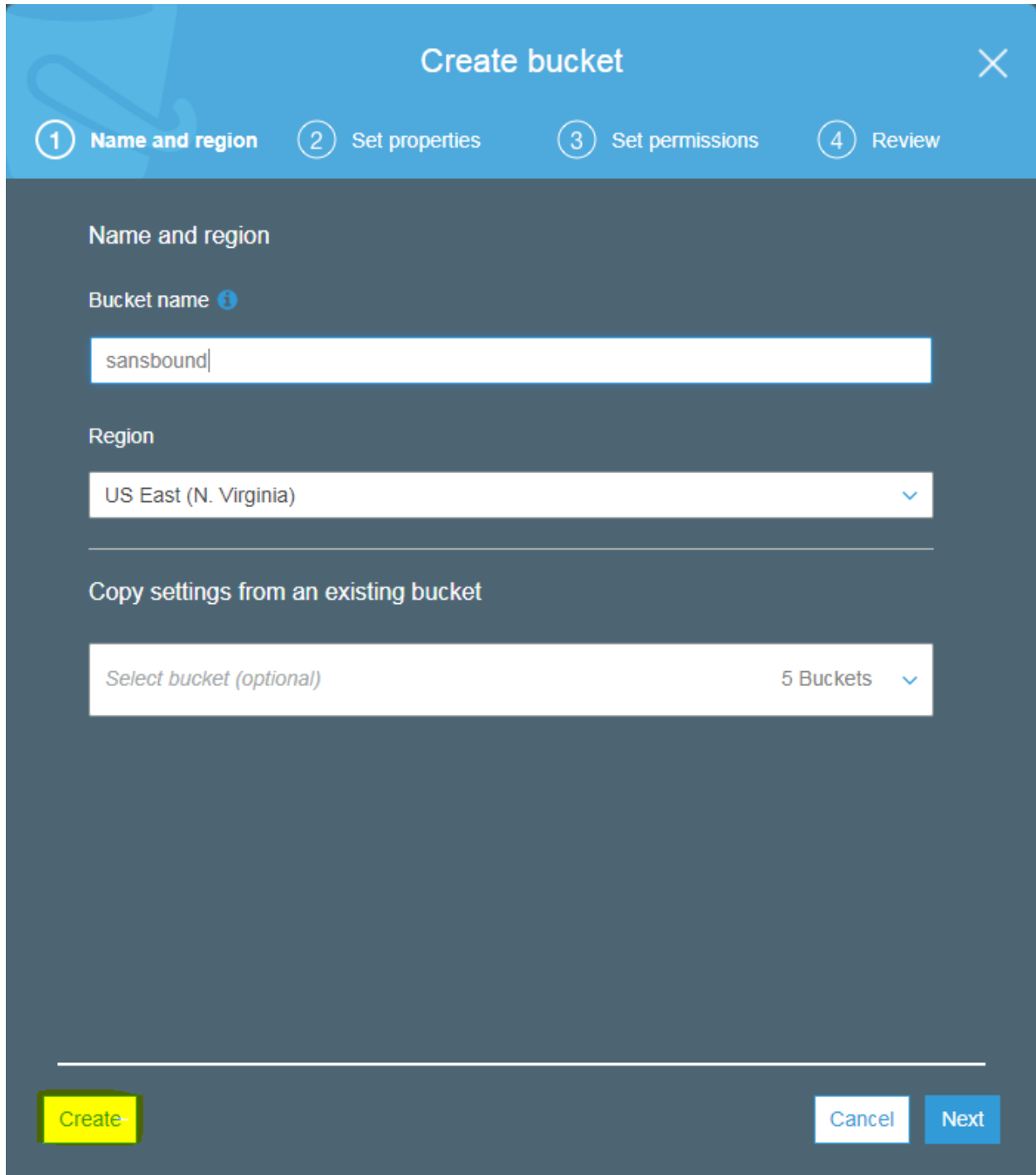


The screenshot shows the AWS S3 Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and a user profile 'siva1n82'. Below this is a banner for 'Identify optimal storage classes with S3 Analytics - Storage Class Analysis'. The main content area is titled 'Amazon S3' and includes a search bar 'Search for buckets'. Below the search bar are three buttons: 'Create bucket', 'Delete bucket', and 'Empty bucket'. To the right of these buttons, it shows '5 Buckets', '0 Public', and '5 Regions'. A table lists the buckets with columns for 'Bucket name', 'Access', 'Region', and 'Date created'. The table contains five entries, all with 'Not public \*' access. At the bottom, there's a status bar showing 'Operations: 0 In progress, 1 Success, 0 Error' and a footer with 'Feedback', 'English (US)', and copyright information.

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

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

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



**Create bucket** ✕

1 Name and region   2 Set properties   3 Set permissions   4 Review

**Name and region**

Bucket name ⓘ

sansbound

Region

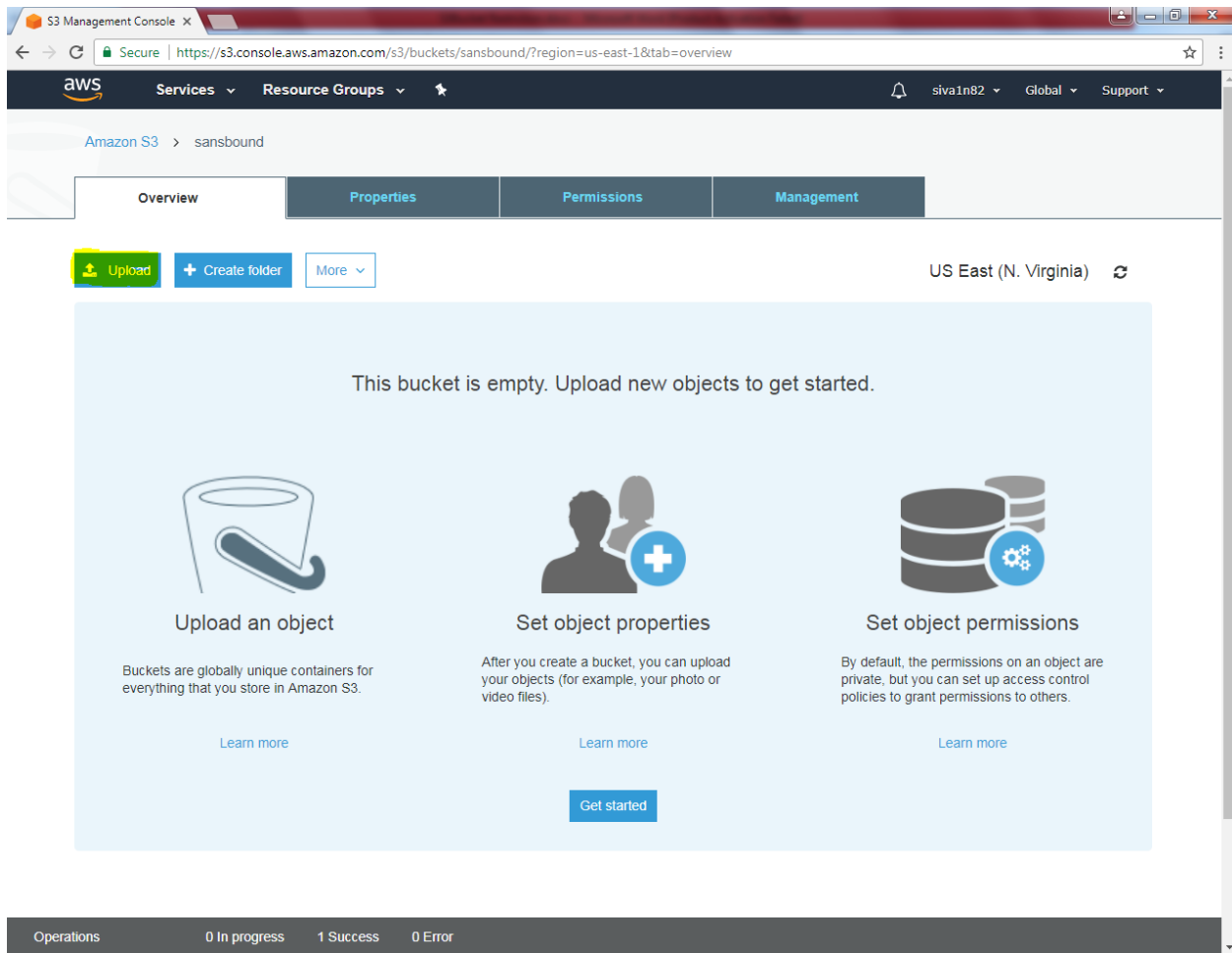
US East (N. Virginia) ▾

Copy settings from an existing bucket

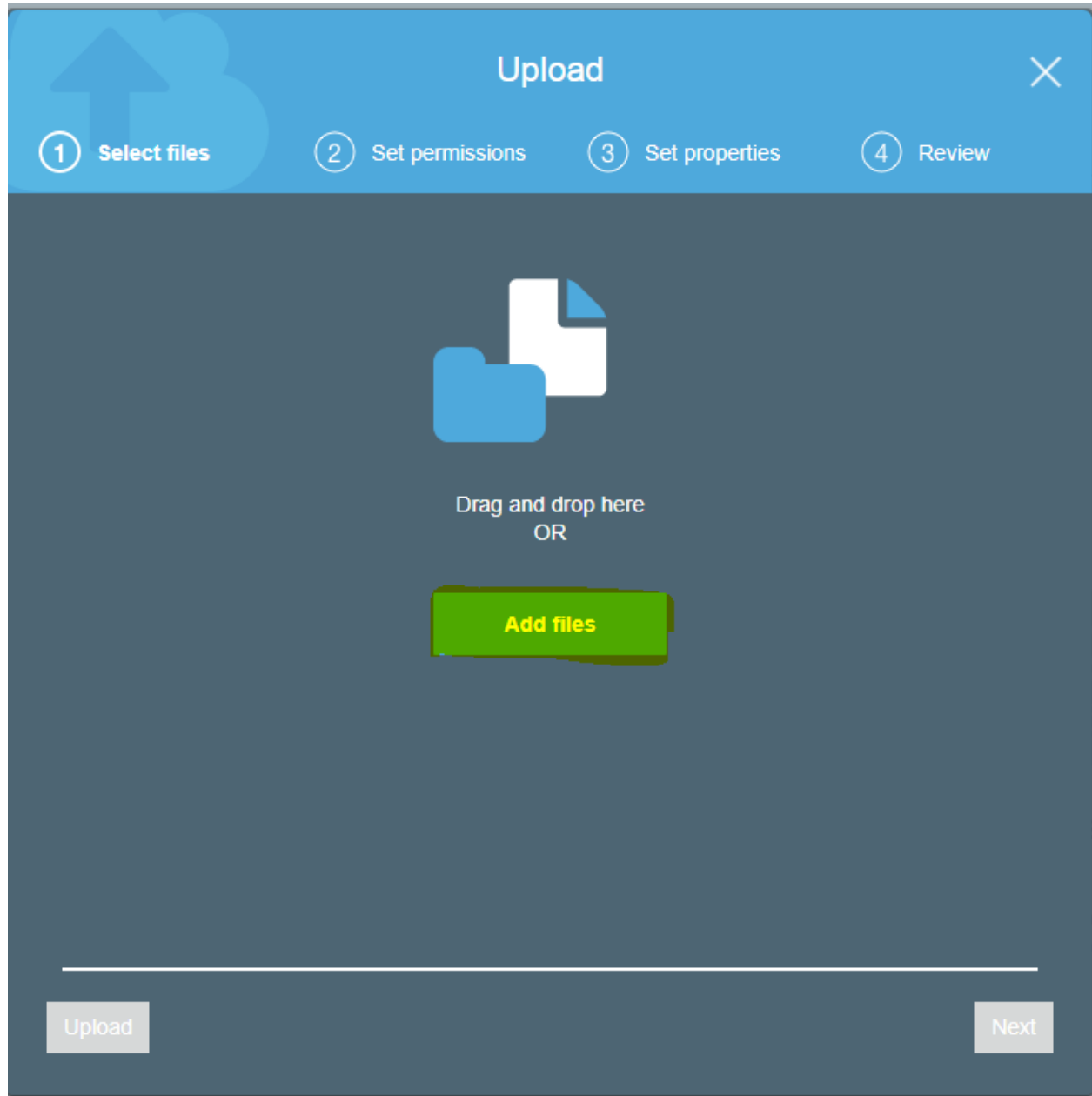
Select bucket (optional)   5 Buckets ▾

Create   Cancel   Next

Click “Upload”.

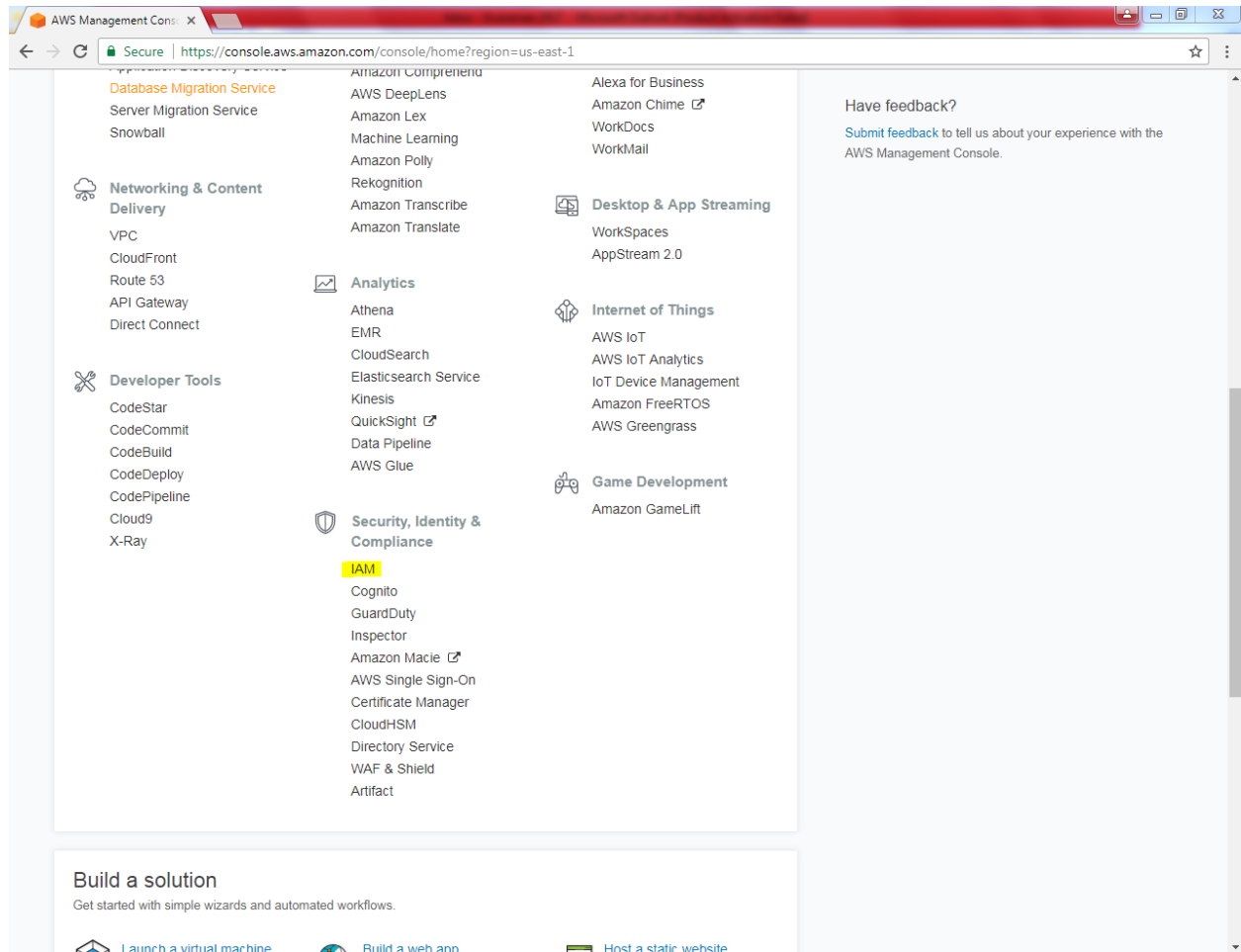


Click “Add files”

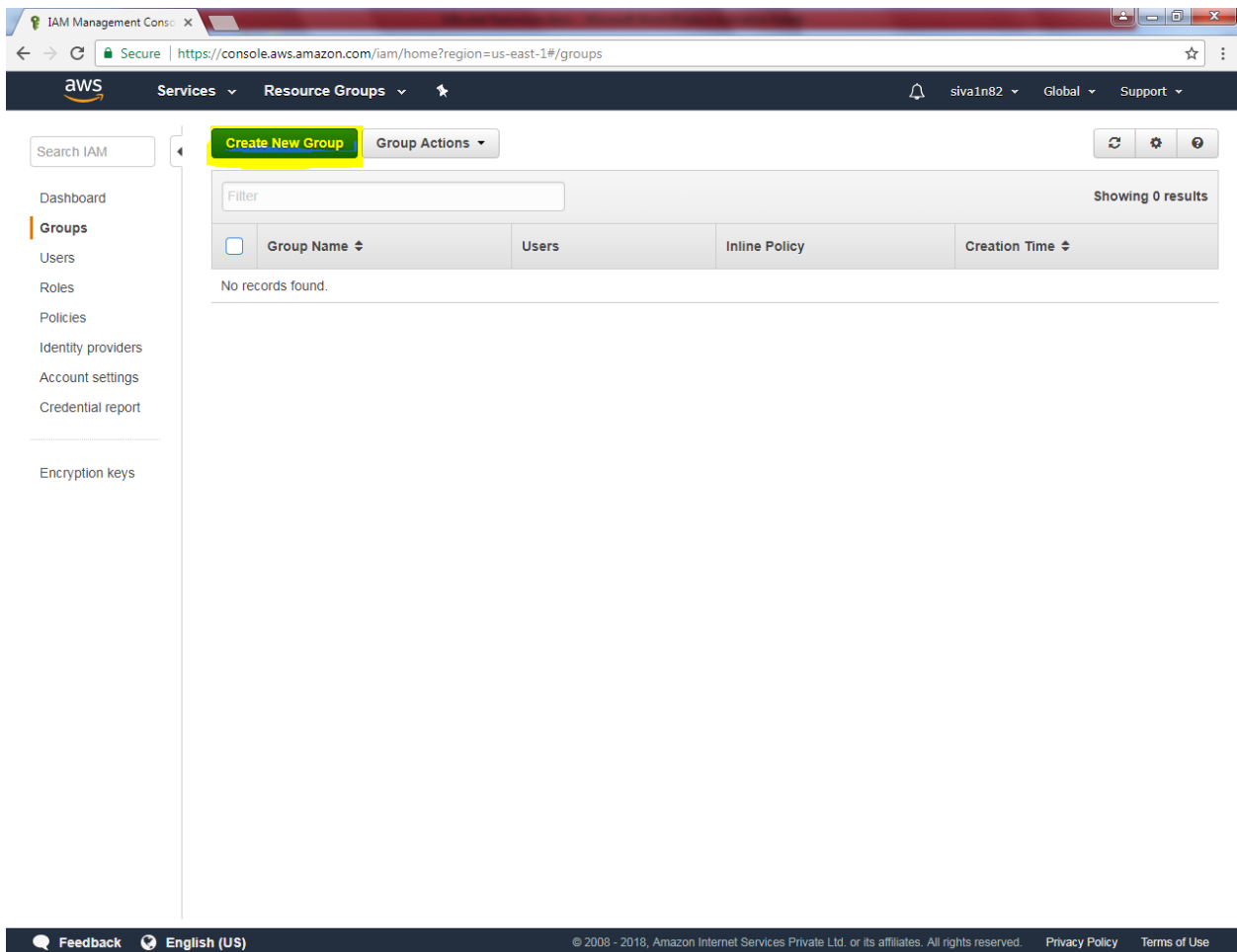


Then Click “Upload”.

Click "IAM"

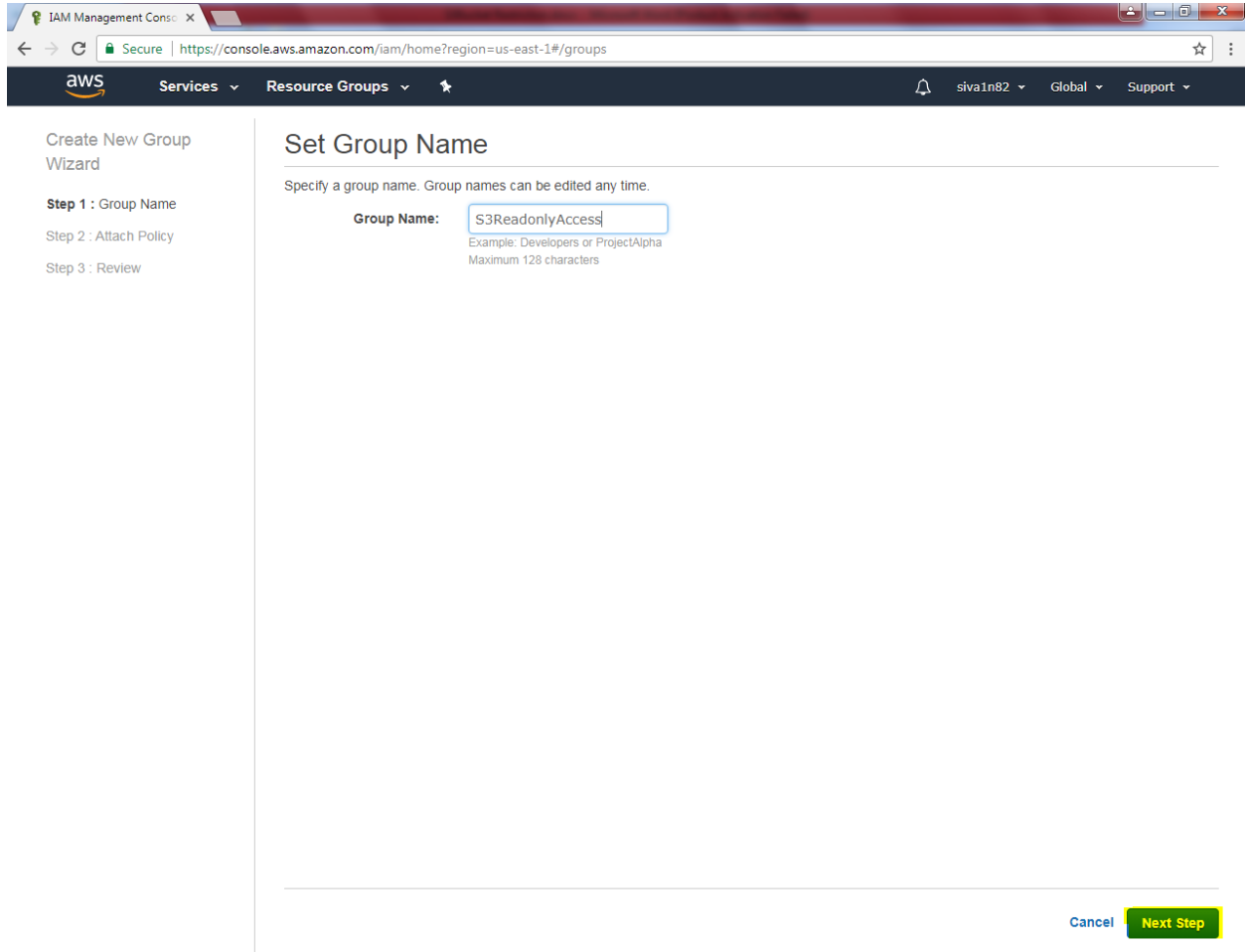


Click “Create New Group”.



The screenshot shows the AWS IAM Management Console interface. The browser address bar displays the URL `https://console.aws.amazon.com/iam/home?region=us-east-1#/groups`. The console header includes the AWS logo, navigation tabs for Services, Resource Groups, and a user profile section. On the left sidebar, the 'Groups' link is selected. The main content area features a 'Create New Group' button (highlighted in yellow) and a 'Group Actions' dropdown. Below these is a table with columns: Group Name, Users, Inline Policy, and Creation Time. The table indicates 'Showing 0 results' and 'No records found.' The footer contains a Feedback link, language selection (English (US)), and copyright information.

Create group as “S3ReadOnlyAccess”.

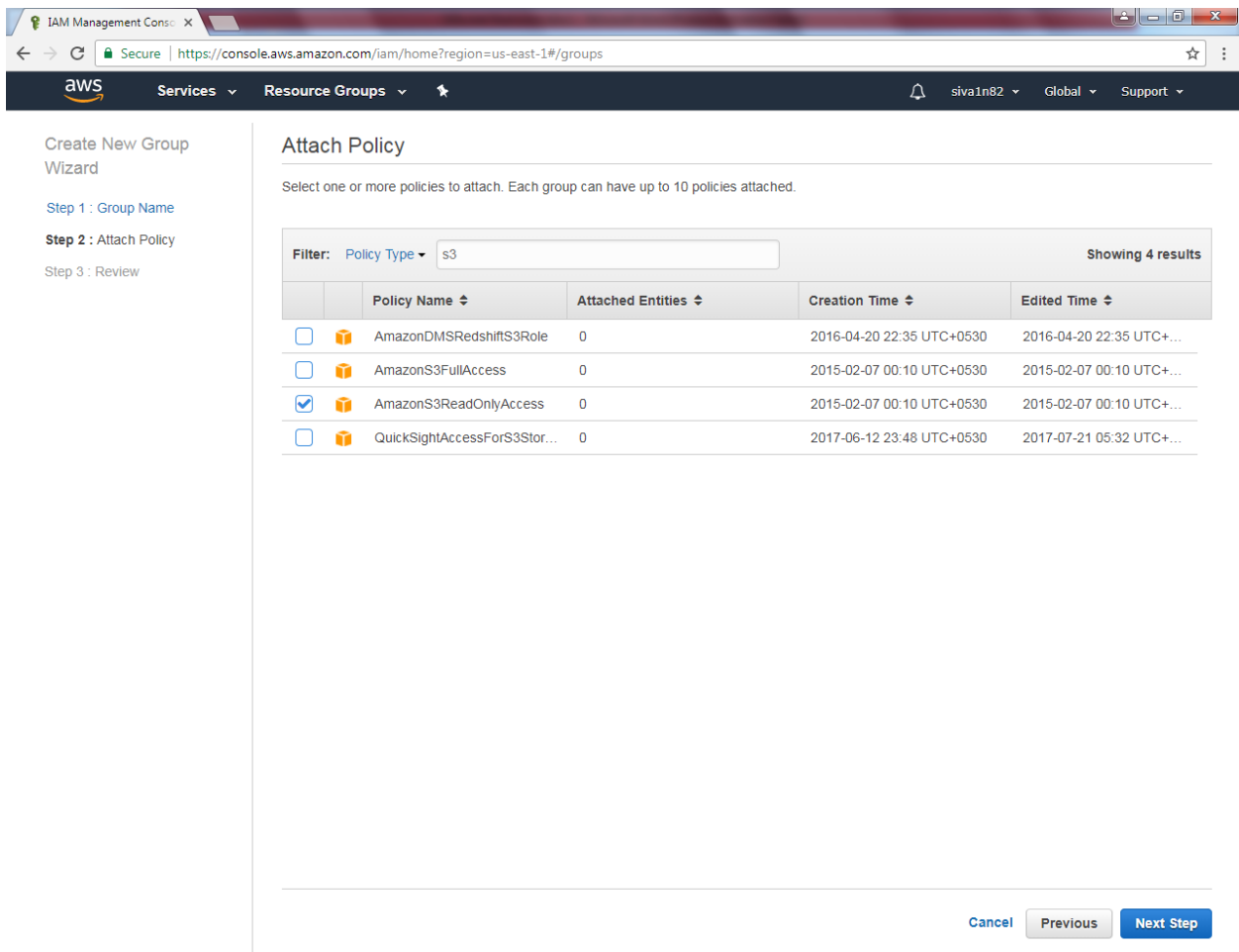


The screenshot shows the AWS IAM Management Console in a web browser. The browser's address bar displays the URL `https://console.aws.amazon.com/iam/home?region=us-east-1#/groups`. The console's top navigation bar includes the AWS logo, a 'Services' dropdown, a 'Resource Groups' dropdown, and a user profile 'siva1n82' with a 'Global' region selector and a 'Support' link. On the left sidebar, the 'Create New Group Wizard' is active, showing a progress list: 'Step 1 : Group Name' (selected), 'Step 2 : Attach Policy', and 'Step 3 : Review'. The main content area is titled 'Set Group Name' and contains the instruction 'Specify a group name. Group names can be edited any time.' Below this, the 'Group Name' field is a text input containing 'S3ReadOnlyAccess'. A small example text below the field reads 'Example: Developers or ProjectAlpha' and 'Maximum 128 characters'. At the bottom right of the main area, there are two buttons: a blue 'Cancel' button and a yellow 'Next Step' button.

Click “Next”.



Click “AmazonS3Readonly Access”.



IAM Management Console x

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

### Attach Policy

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

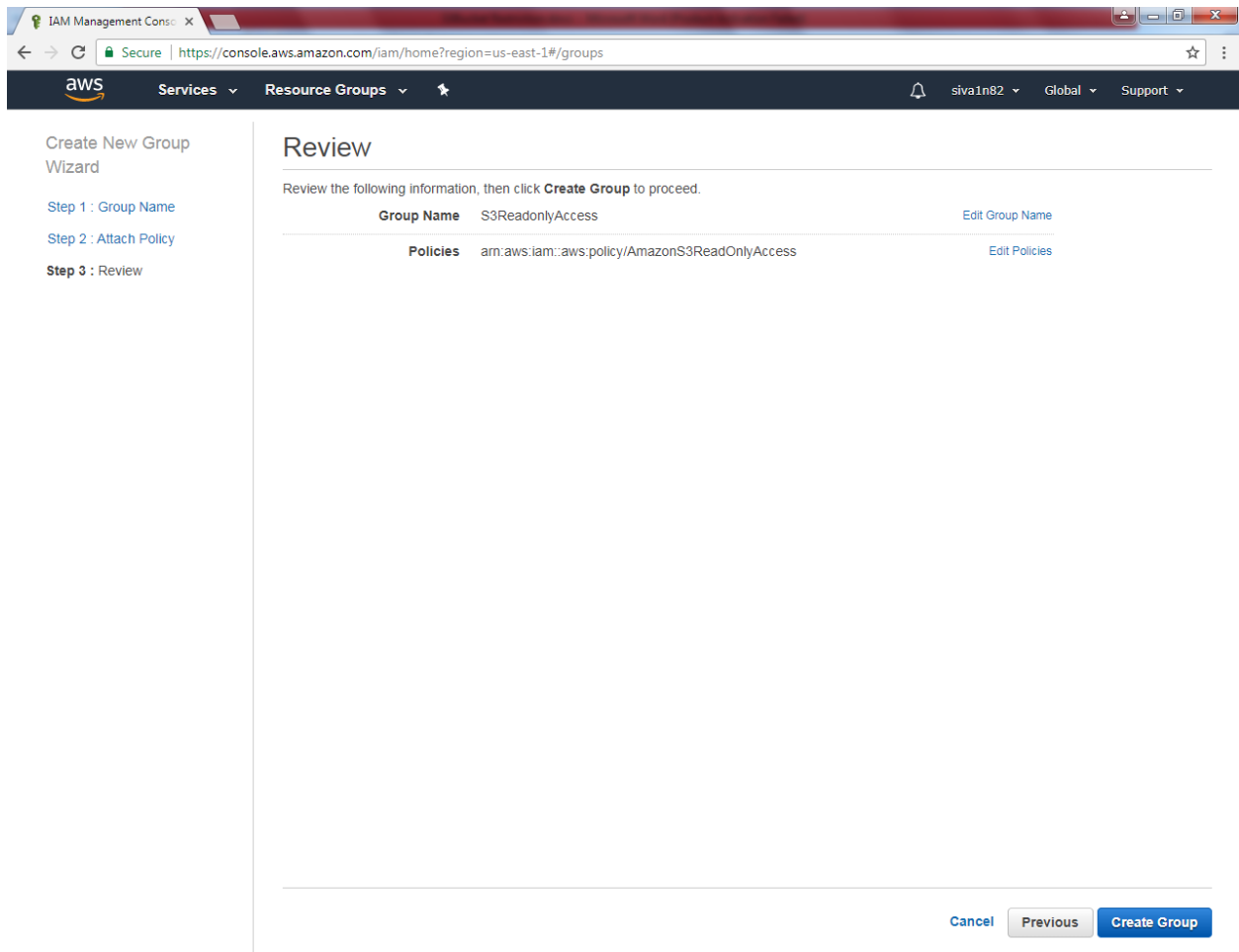
Filter: Policy Type s3 Showing 4 results

	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

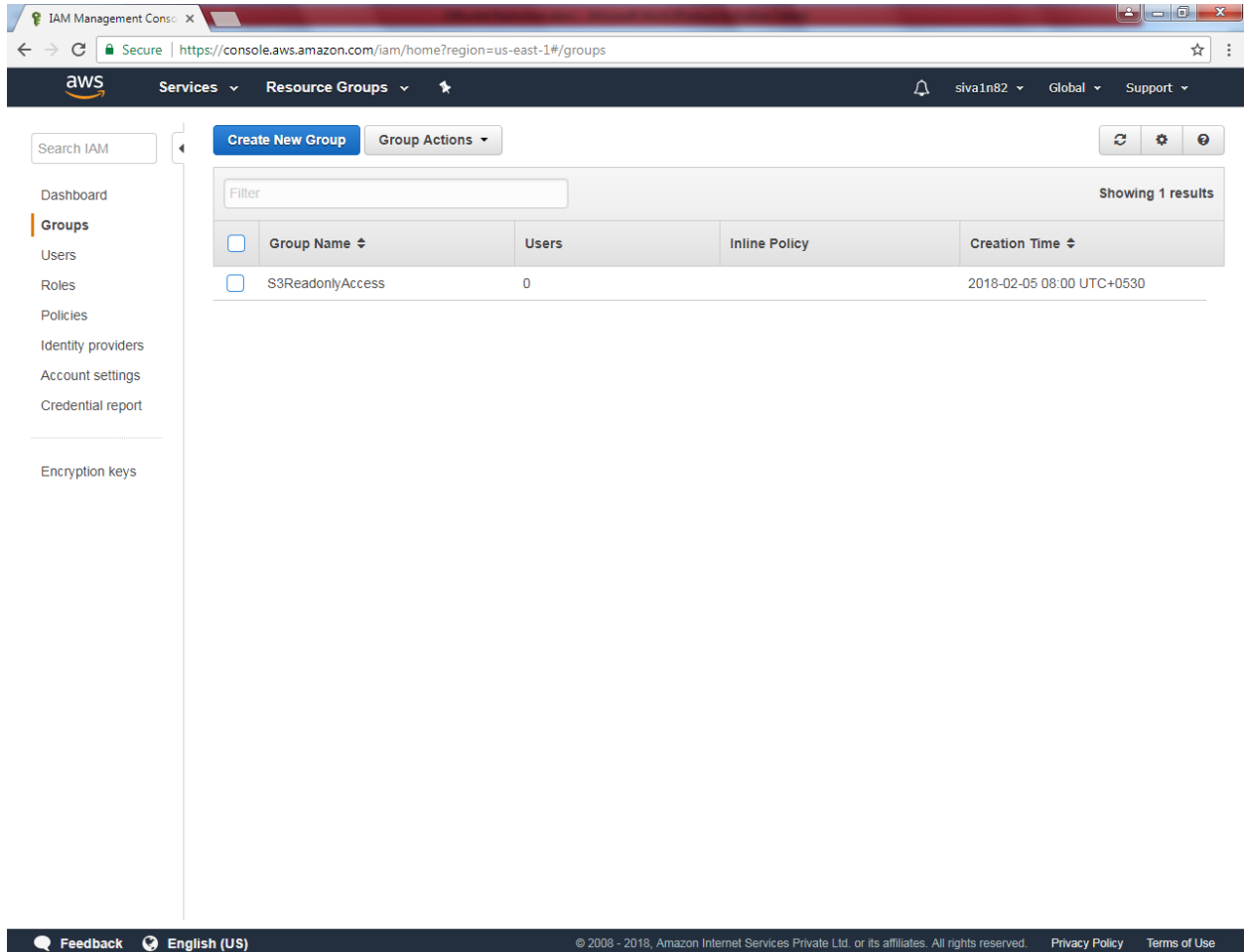
Click “Next”.

Click “Create Group”.



The screenshot shows the AWS IAM console interface. The browser address bar displays the URL `https://console.aws.amazon.com/iam/home?region=us-east-1#/groups`. The AWS navigation bar at the top includes the AWS logo, a 'Services' dropdown, a 'Resource Groups' dropdown, a user profile 'siva1n82', a 'Global' dropdown, and a 'Support' dropdown. On the left sidebar, the 'Create New Group Wizard' is visible, with three steps: 'Step 1: Group Name', 'Step 2: Attach Policy', and 'Step 3: Review' (which is the active step). The main content area is titled 'Review' and contains the instruction: 'Review the following information, then click **Create Group** to proceed.' Below this instruction, there are two rows of information: 'Group Name' with the value 'S3ReadOnlyAccess' and an 'Edit Group Name' link, and 'Policies' with the value 'arn:aws:iam::aws:policy/AmazonS3ReadOnlyAccess' and an 'Edit Policies' link. At the bottom right of the main content area, there are three buttons: 'Cancel', 'Previous', and 'Create Group'.

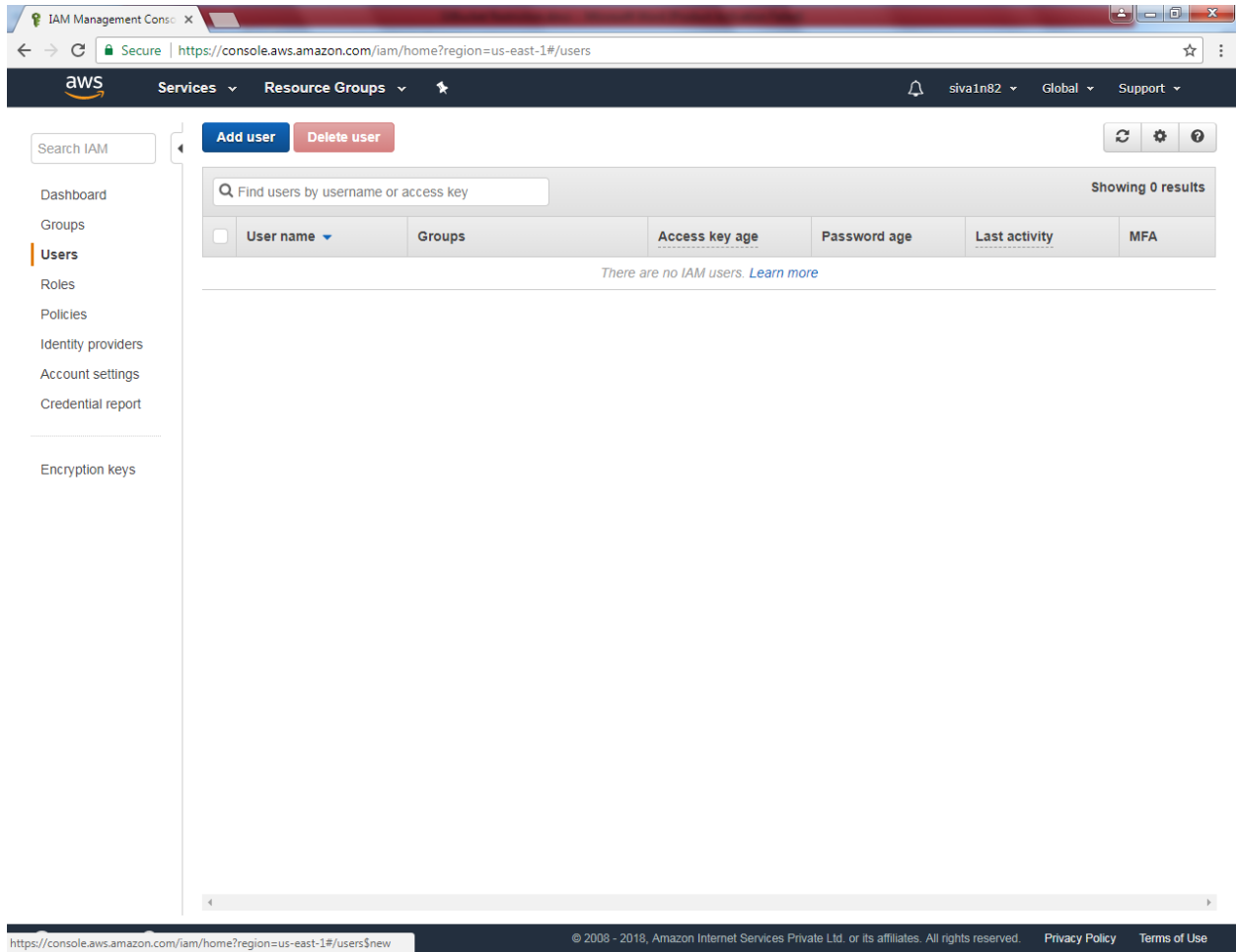
Group has been created successfully.



The screenshot shows the AWS IAM Management Console interface. The left sidebar contains navigation links: Dashboard, Groups (selected), Users, Roles, Policies, Identity providers, Account settings, Credential report, and Encryption keys. The main content area displays the 'Groups' page with a 'Create New Group' button and a 'Group Actions' dropdown. A table lists the groups, showing one result: 'S3ReadOnlyAccess' with 0 users, no inline policy, and a creation time of 2018-02-05 08:00 UTC+0530. The bottom footer includes a Feedback link, language selection (English (US)), and copyright information for Amazon Internet Services Private Ltd.

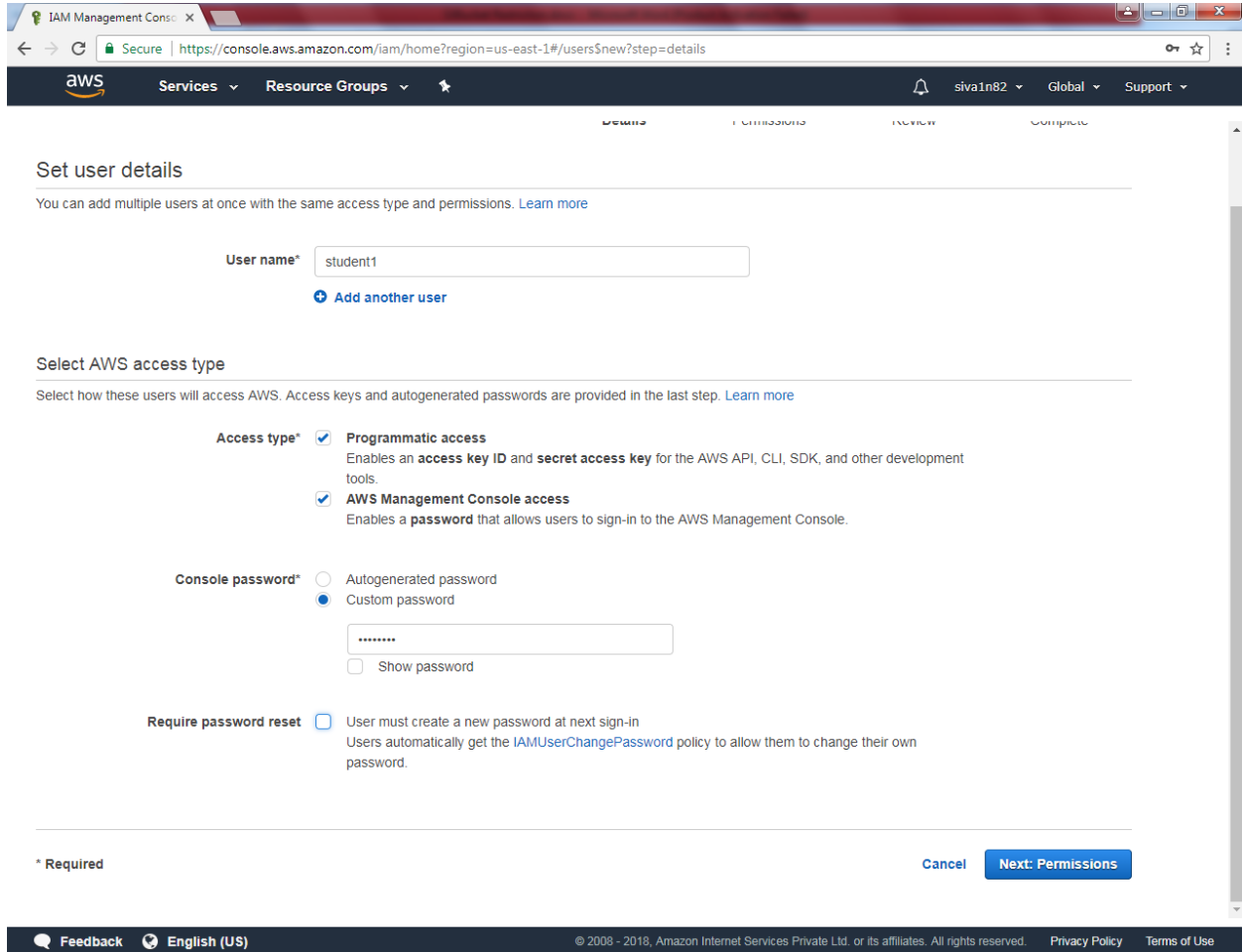
<input type="checkbox"/>	Group Name ↕	Users	Inline Policy	Creation Time ↕
<input type="checkbox"/>	S3ReadOnlyAccess	0		2018-02-05 08:00 UTC+0530

Click “Add user”.



The screenshot shows the AWS IAM Management Console interface. The left sidebar contains a navigation menu with options: Dashboard, Groups, **Users**, Roles, Policies, Identity providers, Account settings, Credential report, and Encryption keys. The main content area has a search bar labeled 'Find users by username or access key' and a status 'Showing 0 results'. Below this is a table with columns: ☐, User name, Groups, Access key age, Password age, Last activity, and MFA. A message states 'There are no IAM users. [Learn more](#)'. At the top of the console, there are buttons for 'Add user' and 'Delete user'. The footer includes the URL 'https://console.aws.amazon.com/iam/home?region=us-east-1#/users\$new' and copyright information: '© 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use'.

Type the username & password for access IAM console.



IAM Management Console

Secure | [https://console.aws.amazon.com/iam/home?region=us-east-1#/users\\$new?step=details](https://console.aws.amazon.com/iam/home?region=us-east-1#/users$new?step=details)

aws Services Resource Groups

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

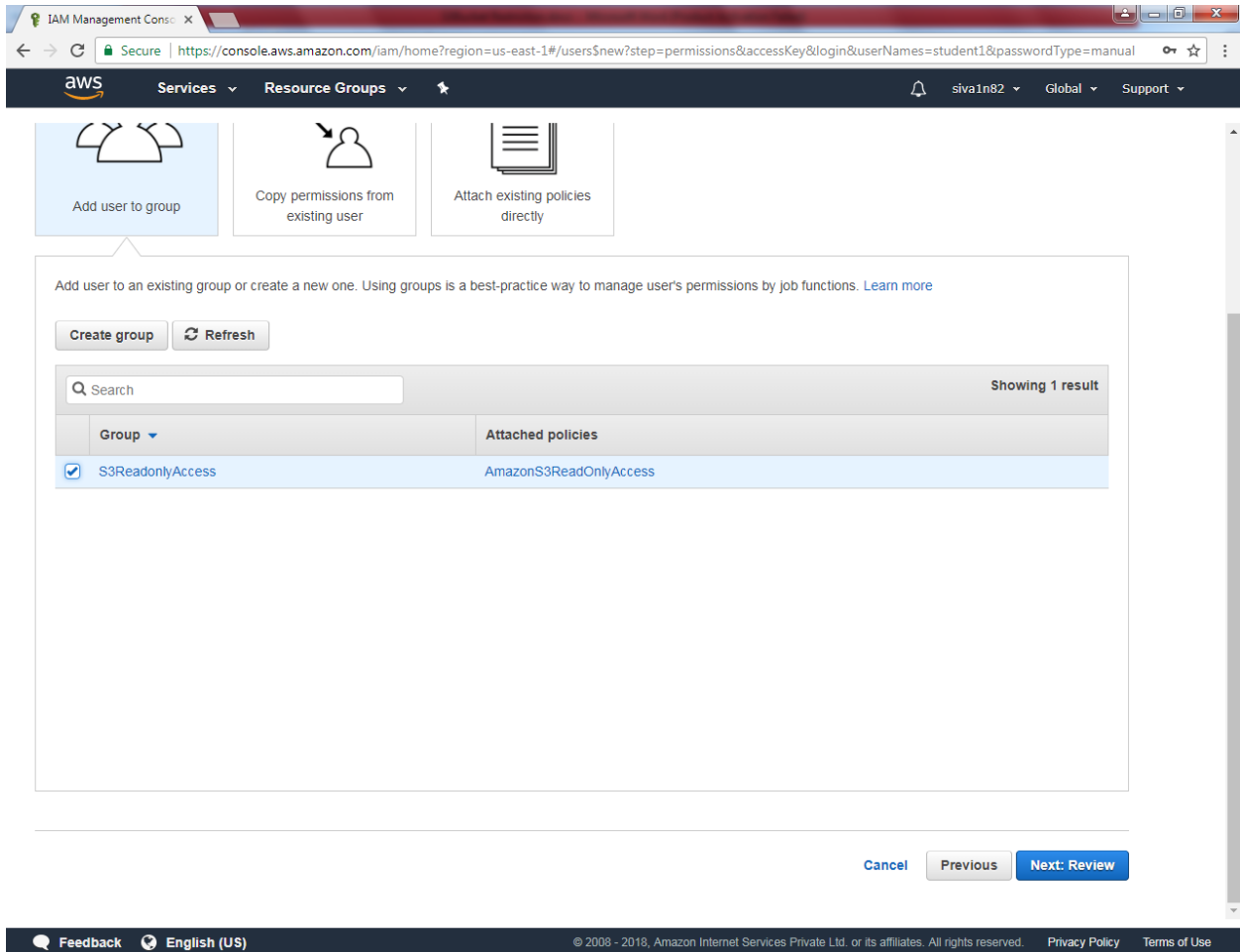
[Cancel](#) [Next: Permissions](#)

Feedback English (US)

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Click "Next".

Select “S3ReadOnlyAccess” group

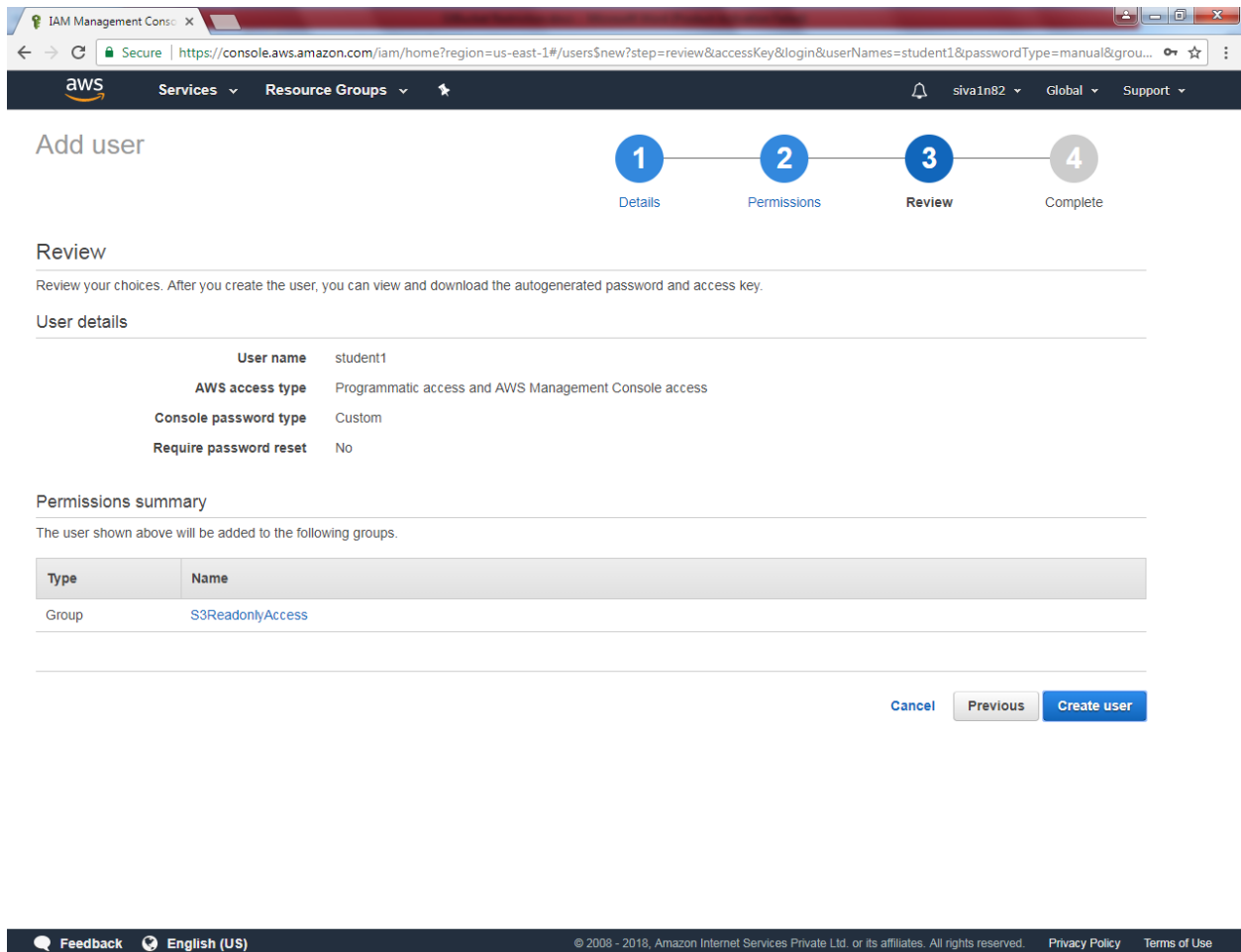


The screenshot shows the AWS IAM Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and a user profile 'siva1n82'. Below this, there are three main action buttons: 'Add user to group' (highlighted with a callout), 'Copy permissions from existing user', and 'Attach existing policies directly'. The 'Add user to group' section contains a 'Create group' button and a 'Refresh' button. Below these is a search bar and a table showing the results. The table has two columns: 'Group' and 'Attached policies'. One result is shown: 'S3ReadOnlyAccess' with the policy 'AmazonS3ReadOnlyAccess'. At the bottom right of the console area, there are 'Cancel', 'Previous', and 'Next: Review' buttons. The footer contains 'Feedback', 'English (US)', and copyright information.

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

Click “Next”.

Click “Create user”.



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

The main heading is "Add user". Below it is a progress indicator with four steps: 1 Details, 2 Permissions, 3 Review (current step), and 4 Complete.

The "Review" section contains the following information:

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

**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**

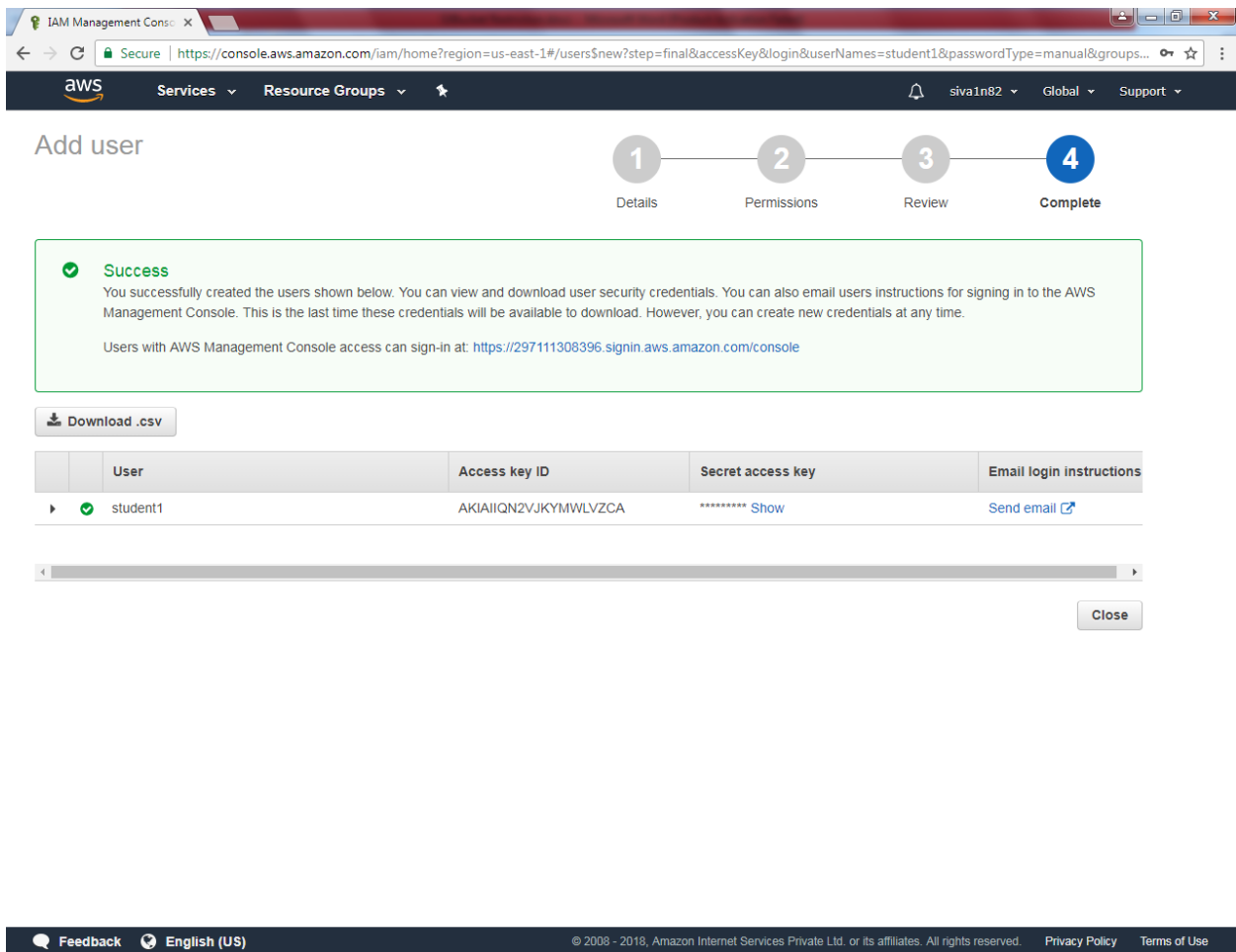
The user shown above will be added to the following groups.

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

At the bottom right, there are three buttons: "Cancel", "Previous", and "Create user".

The footer contains a Feedback icon, "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".

User created successfully.



The screenshot shows the AWS IAM Management Console 'Add user' page. The breadcrumb trail indicates the user is at the 'Complete' step of a four-step process: 1. Details, 2. Permissions, 3. Review, 4. Complete. A green success message states: '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 'student1' with its Access key ID, Secret access key (masked with 'Show'), and a 'Send email' link. The footer includes 'Feedback', 'English (US)', copyright information, and links to 'Privacy Policy' and 'Terms of Use'.

**Add user**

1 Details — 2 Permissions — 3 Review — 4 **Complete**

**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>

[Download .csv](#)

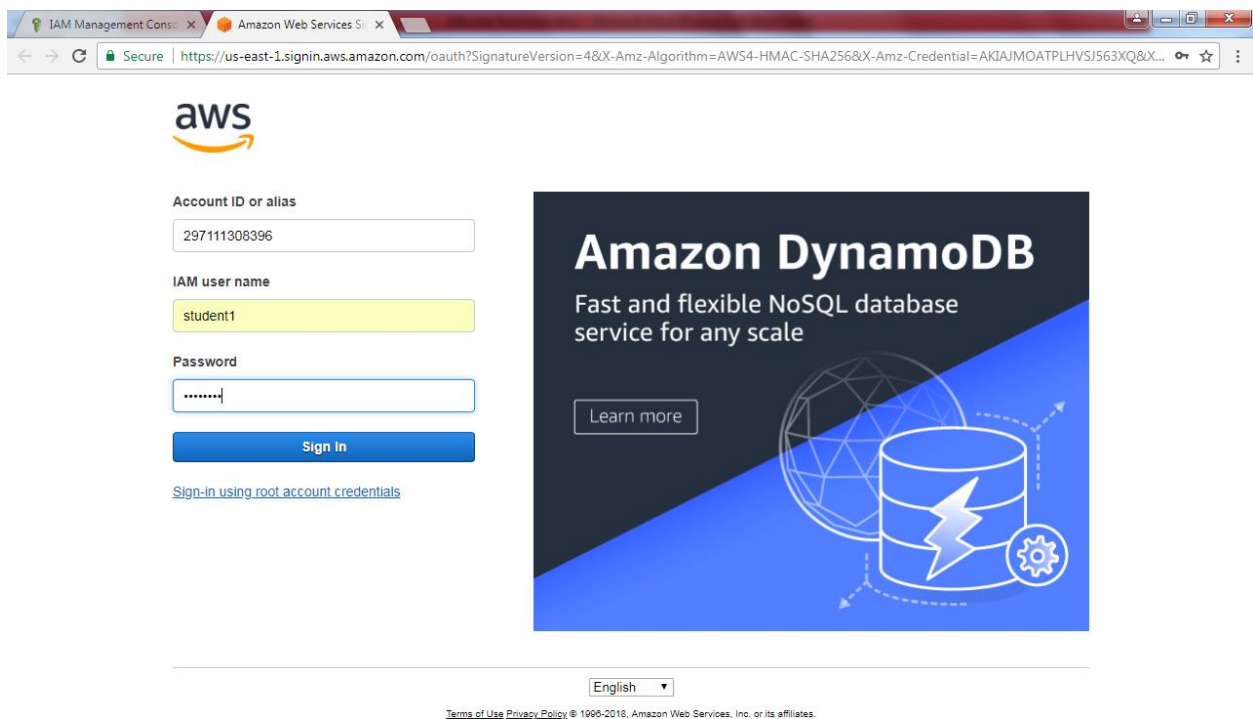
	User	Access key ID	Secret access key	Email login instructions
▶	✓ student1	AKIAIIQN2VJKYMWLVZCA	***** <a href="#">Show</a>	<a href="#">Send email</a>

[Close](#)

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



Type the URL provided by amazon.



The screenshot shows a web browser window with the AWS IAM login page. The browser's address bar displays a secure URL starting with 'https://us-east-1.signin.aws.amazon.com/'. The page features the AWS logo at the top left. Below it, there are three input fields: 'Account ID or alias' with the value '297111308396', 'IAM user name' with the value 'student1', and 'Password' with masked characters. A blue 'Sign In' button is positioned below the password field. A link for 'Sign-in using root account credentials' is located below the button. To the right of the login fields is a large promotional banner for 'Amazon DynamoDB' with the text 'Fast and flexible NoSQL database service for any scale' and a 'Learn more' button. The banner includes a graphic of a database cylinder with a lightning bolt and a gear. At the bottom of the page, there is a language dropdown menu set to 'English' and a footer containing 'Terms of Use Privacy Policy © 1996-2016, Amazon Web Services, Inc. or its affiliates.'

aws

Account ID or alias  
297111308396

IAM user name  
student1

Password  
.....

Sign In

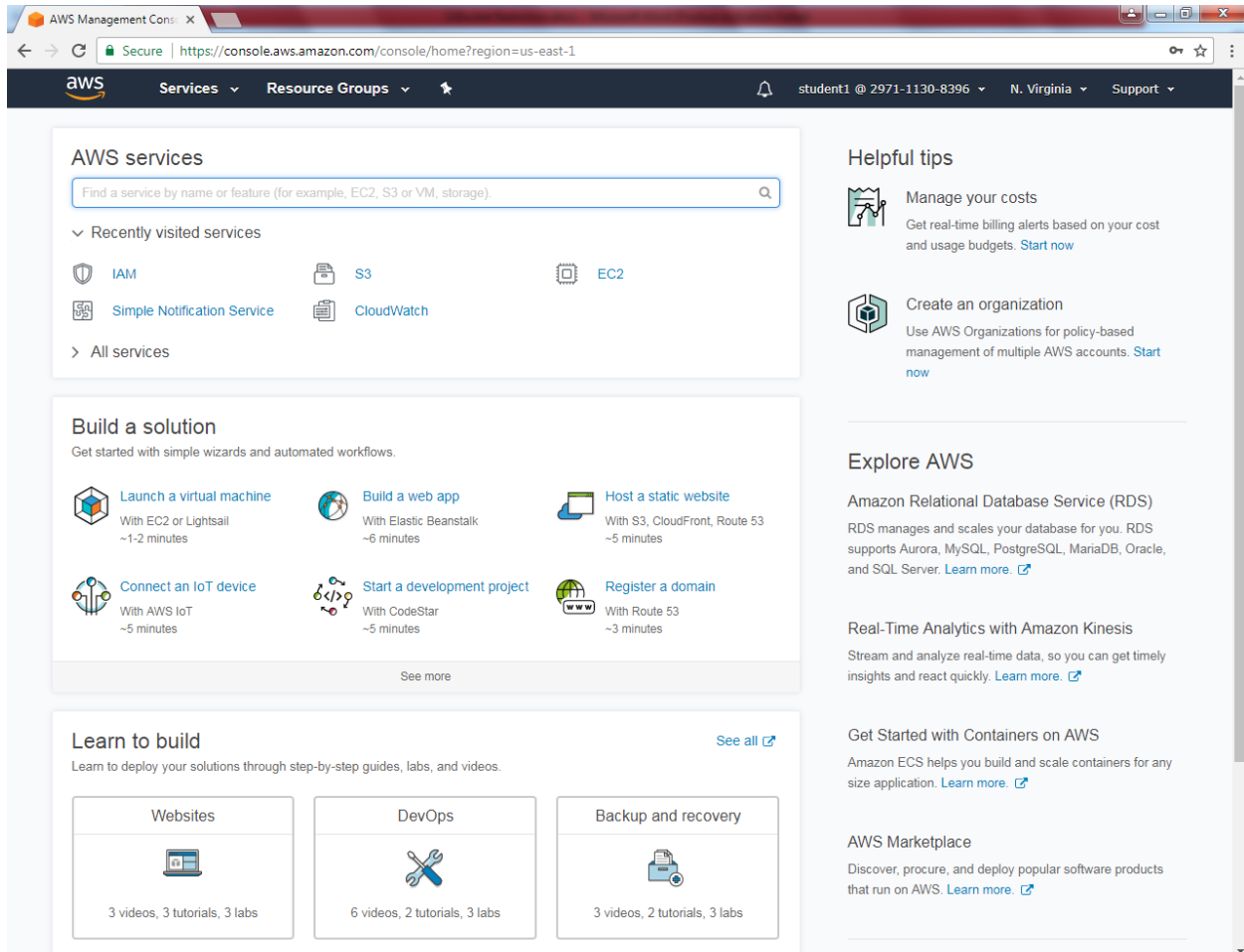
[Sign-in using root account credentials](#)

Amazon DynamoDB  
Fast and flexible NoSQL database service for any scale  
[Learn more](#)

English

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Logged into console.

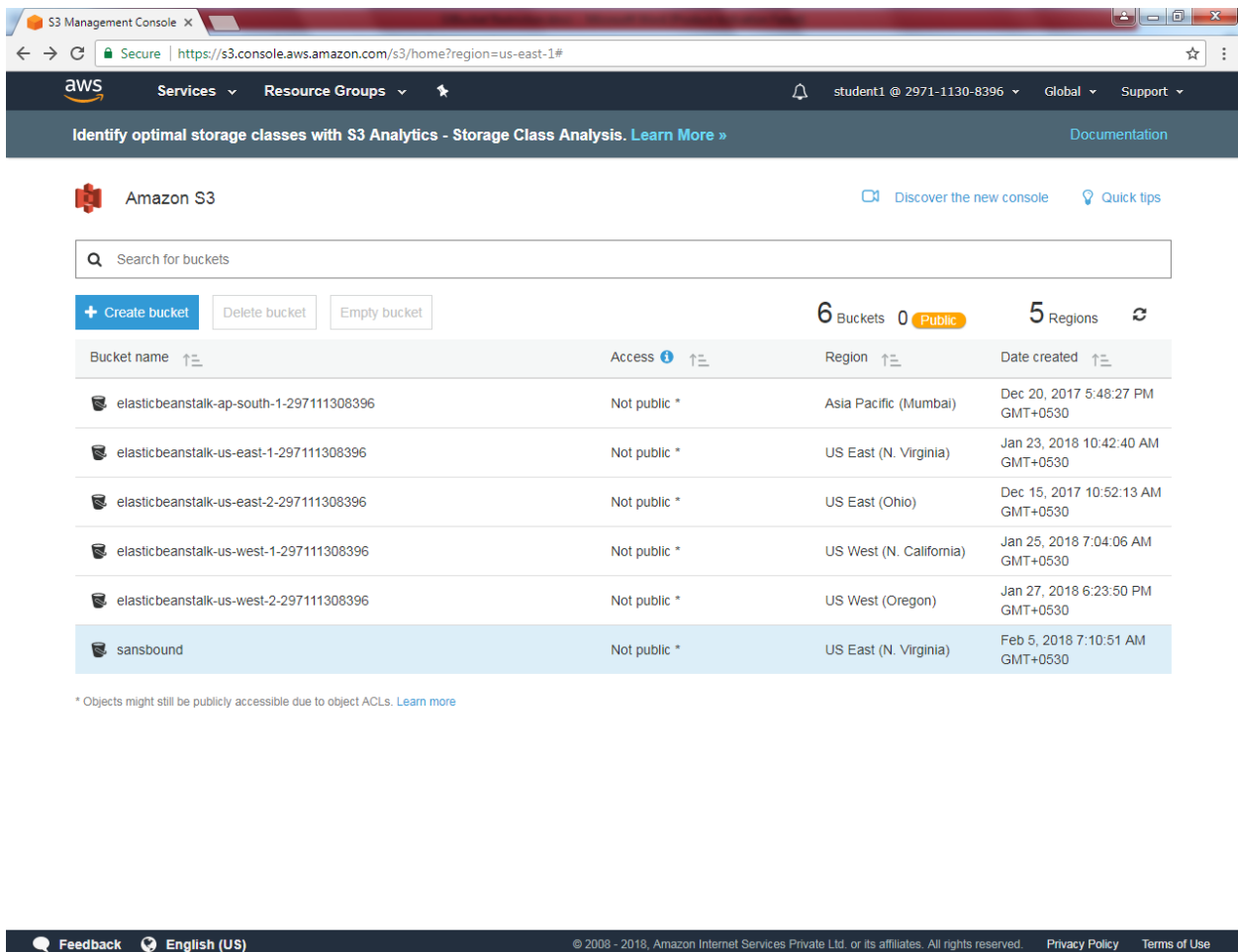


The screenshot shows the AWS Management Console interface. At the top, the browser address bar displays the URL <https://console.aws.amazon.com/console/home?region=us-east-1>. The console header includes the AWS logo, navigation tabs for Services, Resource Groups, and a user profile section showing 'student1 @ 2971-1130-8396' in the 'N. Virginia' region with a Support link.

The main content area is divided into several sections:

- AWS services:** Features a search bar with the placeholder text 'Find a service by name or feature (for example, EC2, S3 or VM, storage)'. Below the search bar, there are links for 'Recently visited services' including IAM, S3, EC2, Simple Notification Service, and CloudWatch. A link for 'All services' is also present.
- Build a solution:** A section titled 'Get started with simple wizards and automated workflows.' containing six quick-start options: 'Launch a virtual machine' (With EC2 or Lightsail, ~1-2 minutes), 'Build a web app' (With Elastic Beanstalk, ~6 minutes), 'Host a static website' (With S3, CloudFront, Route 53, ~5 minutes), 'Connect an IoT device' (With AWS IoT, ~5 minutes), 'Start a development project' (With CodeStar, ~5 minutes), and 'Register a domain' (With Route 53, ~3 minutes). A 'See more' link is at the bottom.
- Learn to build:** A section titled 'Learn to deploy your solutions through step-by-step guides, labs, and videos.' with a 'See all' link. It contains three cards: 'Websites' (3 videos, 3 tutorials, 3 labs), 'DevOps' (6 videos, 2 tutorials, 3 labs), and 'Backup and recovery' (3 videos, 2 tutorials, 3 labs).
- Helpful tips:** Includes 'Manage your costs' (Get real-time billing alerts based on your cost and usage budgets. [Start now](#)) and 'Create an organization' (Use AWS Organizations for policy-based management of multiple AWS accounts. [Start now](#)).
- Explore AWS:** A section with links to 'Amazon Relational Database Service (RDS)', 'Real-Time Analytics with Amazon Kinesis', 'Get Started with Containers on AWS', and 'AWS Marketplace'. Each link is accompanied by a brief description and a 'Learn more' link.

Click “Sansbound” bucket.



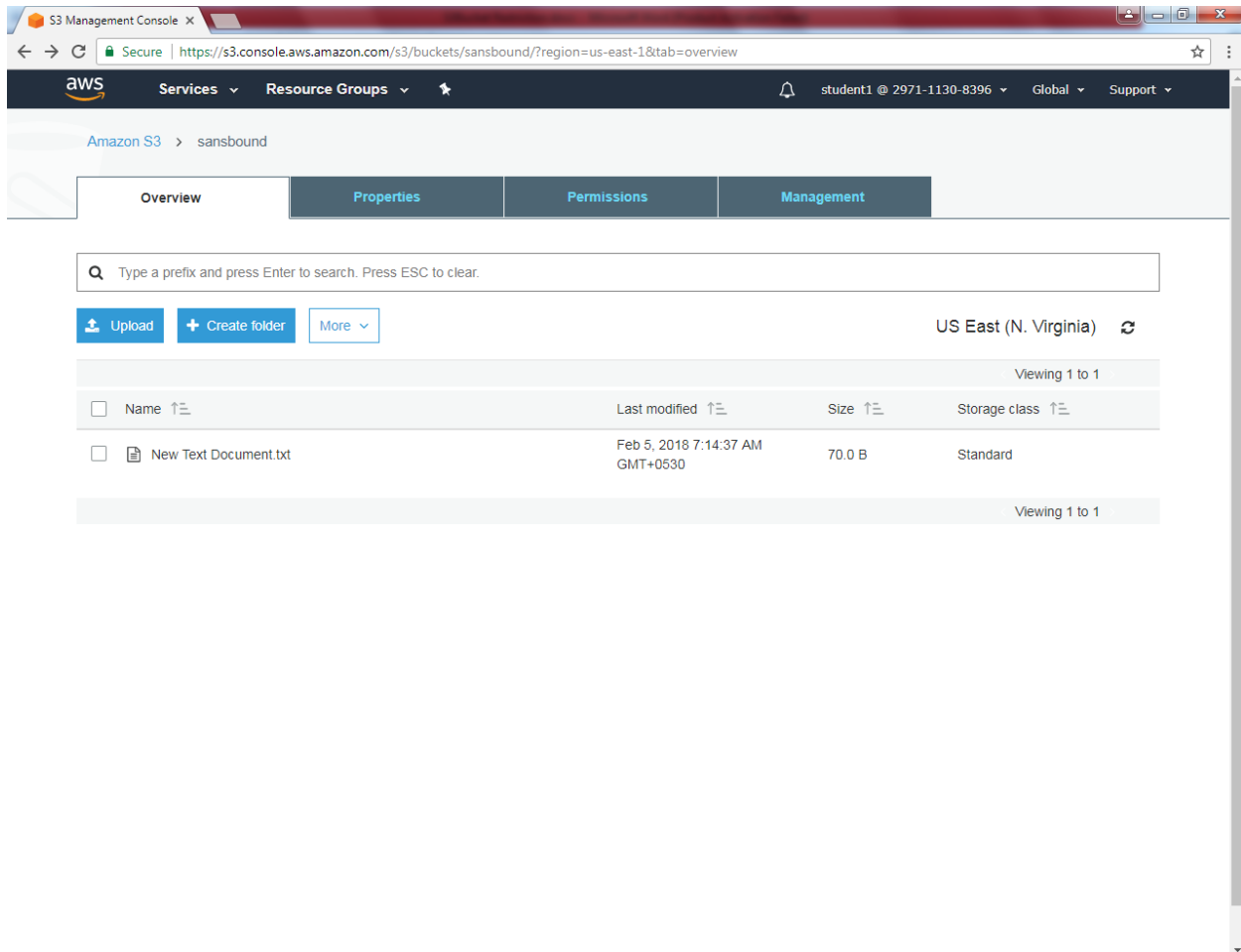
The screenshot shows the AWS S3 Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services', 'Resource Groups', and a user profile 'student1 @ 2971-1130-8396'. Below this is a banner for 'Identify optimal storage classes with S3 Analytics - Storage Class Analysis. Learn More »'. The main content area is titled 'Amazon S3' and includes a search bar and buttons for 'Create bucket', 'Delete bucket', and 'Empty bucket'. A summary shows '6 Buckets', '0 Public', and '5 Regions'. The bucket list table has columns for 'Bucket name', 'Access', 'Region', and 'Date created'. The 'sansbound' bucket is highlighted in blue at the bottom of the list.

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](#)

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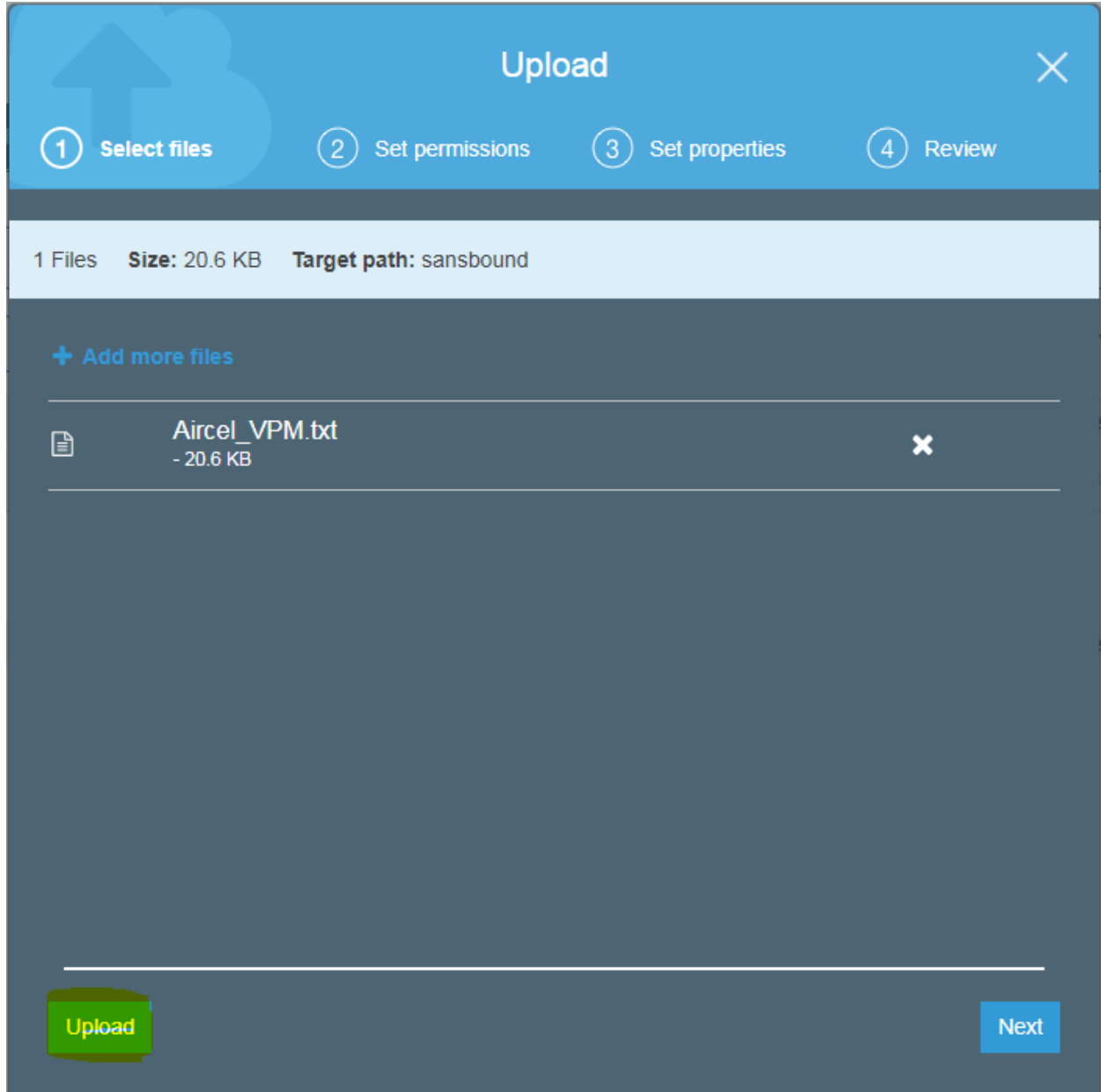
Click “Upload”.



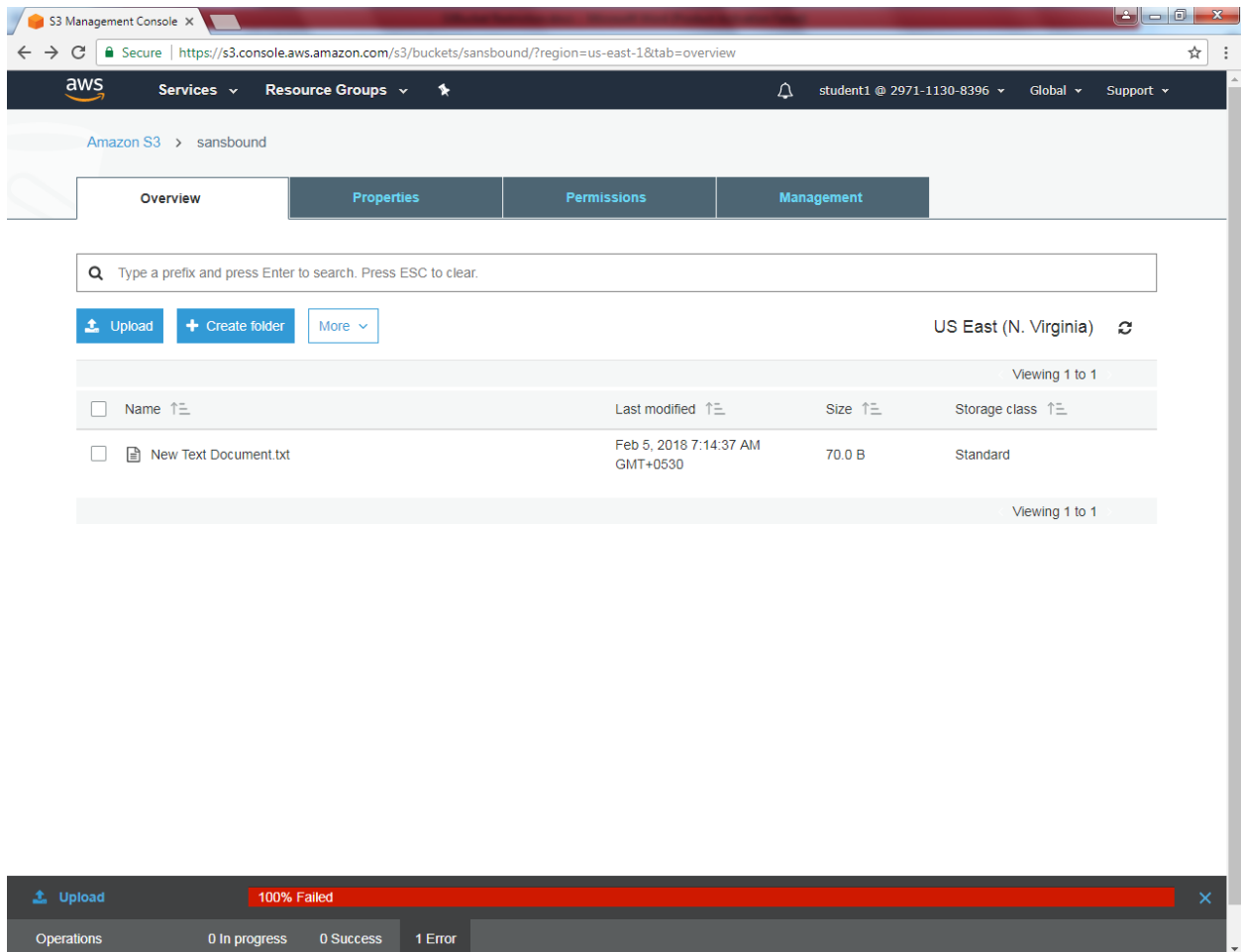
The screenshot shows the AWS S3 Management Console interface. The browser address bar displays the URL: `https://s3.console.aws.amazon.com/s3/buckets/sansbound/?region=us-east-1&tab=overview`. The console header includes the AWS logo, navigation tabs (Services, Resource Groups), and user information (student1 @ 2971-1130-8396). The breadcrumb trail shows 'Amazon S3 > sansbound'. The main content area has tabs for Overview, Properties, Permissions, and Management. Below the tabs is a search bar with the placeholder text 'Type a prefix and press Enter to search. Press ESC to clear.' Below the search bar are three buttons: 'Upload', 'Create folder', and 'More'. The region is set to 'US East (N. Virginia)'. A table displays the contents of the bucket, showing one object: 'New Text Document.txt'. The table has columns for Name, Last modified, Size, and Storage class. The object was last modified on Feb 5, 2018 at 7:14:37 AM GMT+0530, has a size of 70.0 B, and is stored in the Standard storage class.

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

Click "Upload".



Unable to upload because its read only access.



The screenshot shows the AWS S3 Management Console interface. The browser address bar displays the URL: `https://s3.console.aws.amazon.com/s3/buckets/sansbound/?region=us-east-1&tab=overview`. The console header shows the user is logged in as `student1 @ 2971-1130-8396` in the `Global` region. The breadcrumb navigation shows `Amazon S3 > sansbound`. The main content area has tabs for `Overview`, `Properties`, `Permissions`, and `Management`. Below the tabs is a search bar and action buttons: `Upload`, `Create folder`, and `More`. The region is set to `US East (N. Virginia)`. A table lists the contents of the bucket, showing one file: `New Text Document.txt`, which was last modified on `Feb 5, 2018 7:14:37 AM GMT+0530` and has a size of `70.0 B`. At the bottom, a red banner indicates a failed upload operation: `100% Failed`. Below this, a summary bar shows `0 In progress`, `0 Success`, and `1 Error`.

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