

AWS IAM

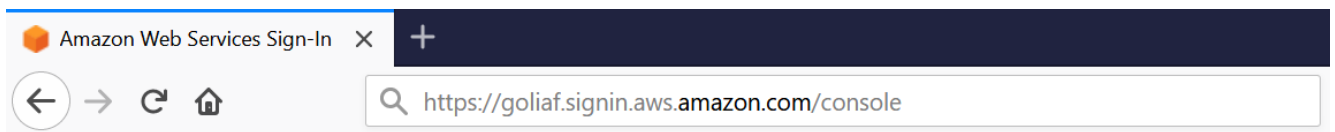
During the hands-on exercises you will get acquainted with the main points related to the management and configuration of Identity and Access Management (IAM) functionality.

1. Signing-in AWS Management Console

We are using URL

<https://gardenew.signin.aws.amazon.com/console>

to sign-in AWS Management Console for training purpose.



After that we will be redirected to AWS Login page:



Account ID or alias

goliaf

IAM user name

student1

Password

.....

Sign In

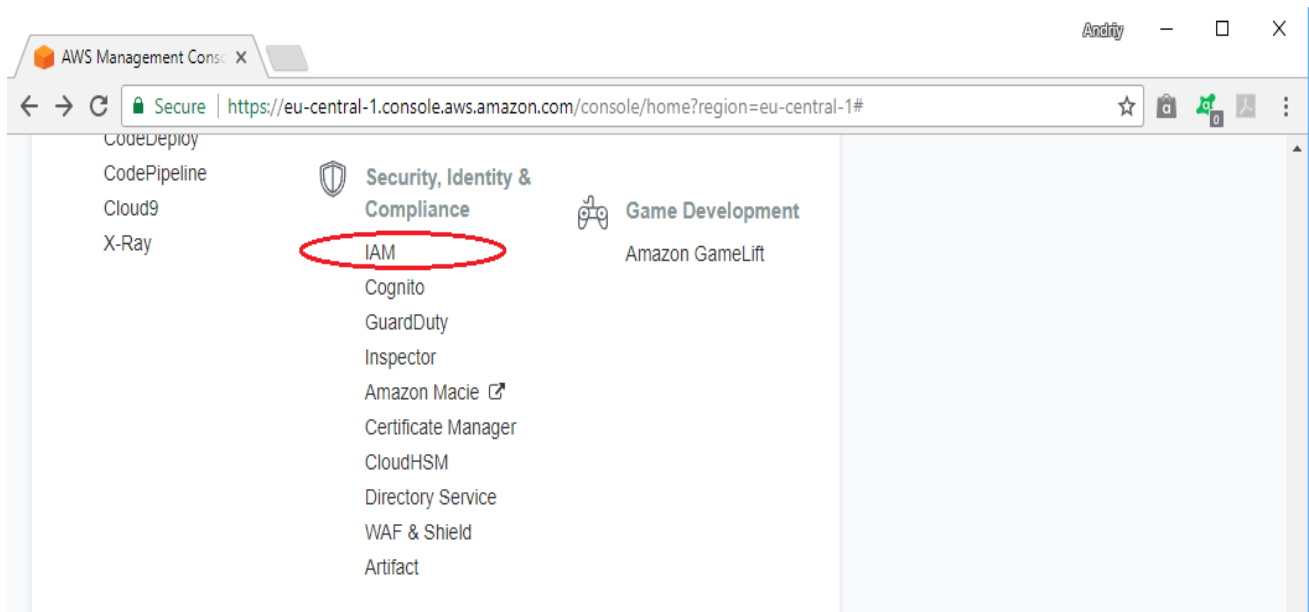
[Sign-in using root account credentials](#)



Enter IAM User name and Password here and then click “Sign In” button. AWS Console Home page will be opened:

2. IAM Operation Getting Started

Open AWS Management Console as usual and then find and click on IAM link:



IAM Dashboard main page will be opened:

Search IAM

Welcome to Identity and Access Management

IAM users sign-in link:
<https://triangu.signin.aws.amazon.com/console> [Customize](#) | [Copy Link](#)

IAM Resources

Users: 12 Roles: 8
 Groups: 4 Identity Providers: 0
 Customer Managed Policies: 5

Security Status

5 out of 5 complete.

- ☒ Activate MFA on your root account
- ☒ Create individual IAM users
- ☒ Use groups to assign permissions
- ☒ Apply an IAM password policy
- ☒ Rotate your access keys

Feature Spotlight

Introduction to AWS IAM

Additional Information

- [IAM best practices](#)
- [IAM documentation](#)
- [Web Identity Federation Playground](#)
- [Policy Simulator](#)
- [Videos, IAM release history and additional resources](#)

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Click on “Users” link at left-side menu ribbon and find yourself in the list:

Search IAM

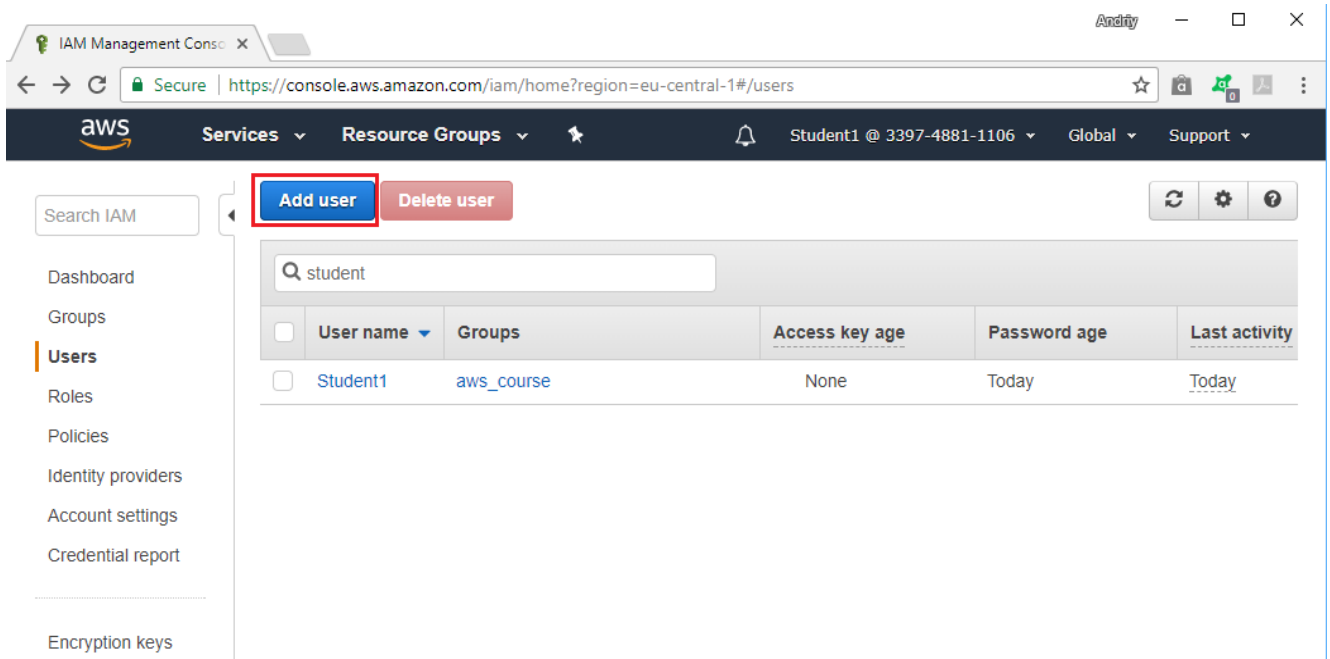
Add user **Delete user**

Q student

| <input type="checkbox"/> | User name | Groups | Access key age | Password age | Last activity |
|--------------------------|-----------|------------|----------------|--------------|---------------|
| <input type="checkbox"/> | student1 | aws_course | None | 17 days | 17 days |

Dashboard
 Groups
Users
 Roles
 Policies
 Identity providers
 Account settings
 Credential report
 Encryption keys

Click on “Add User” button to start creation of new user:



Search IAM

Dashboard

Groups

Users

Roles

Policies

Identity providers

Account settings

Credential report

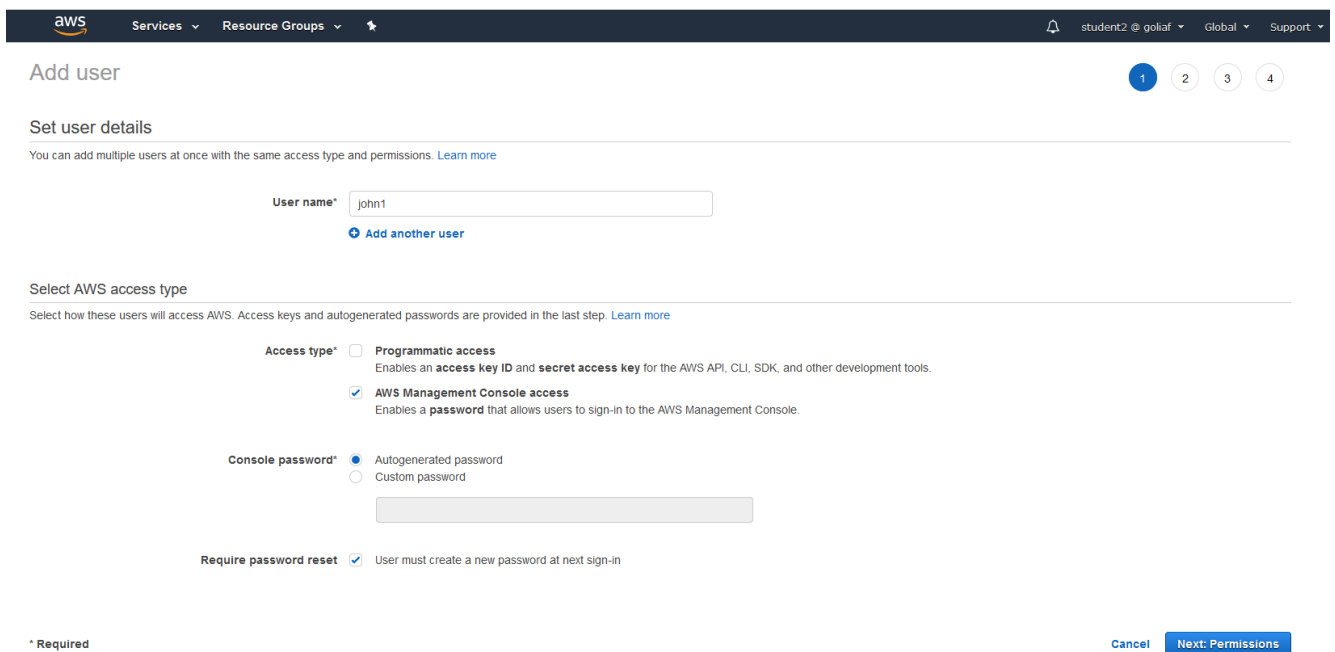
Encryption keys

Add user Delete user

student

| | User name | Groups | Access key age | Password age | Last activity |
|--------------------------|-----------|------------|----------------|--------------|---------------|
| <input type="checkbox"/> | Student1 | aws_course | None | Today | Today |

On the next page specify user details as shown below:



Add user

1 2 3 4

Set user details

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

User name* john1

[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

Require password reset ☒ User must create a new password at next sign-in

* Required

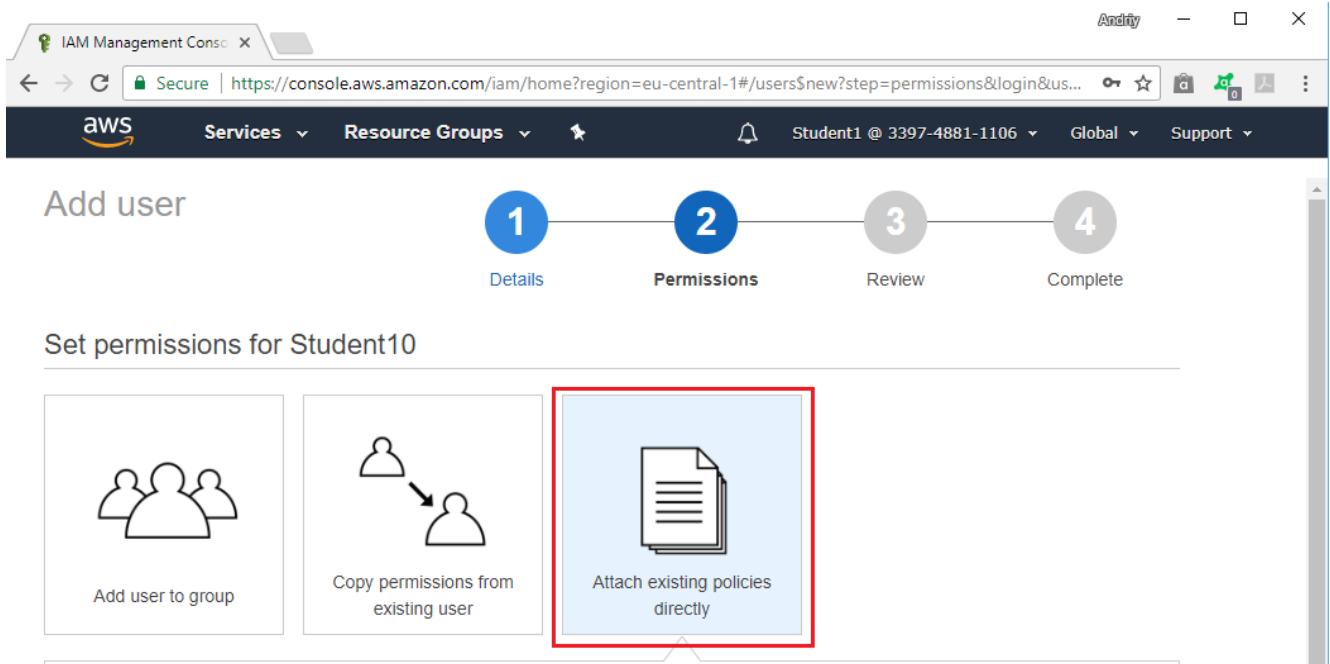
Cancel **Next: Permissions**

User Name: starting with **john1** up to **john99**

Check AWS Management Console Access

Choose Autogenerated password

On the next page select “Add existing policies directly” option:



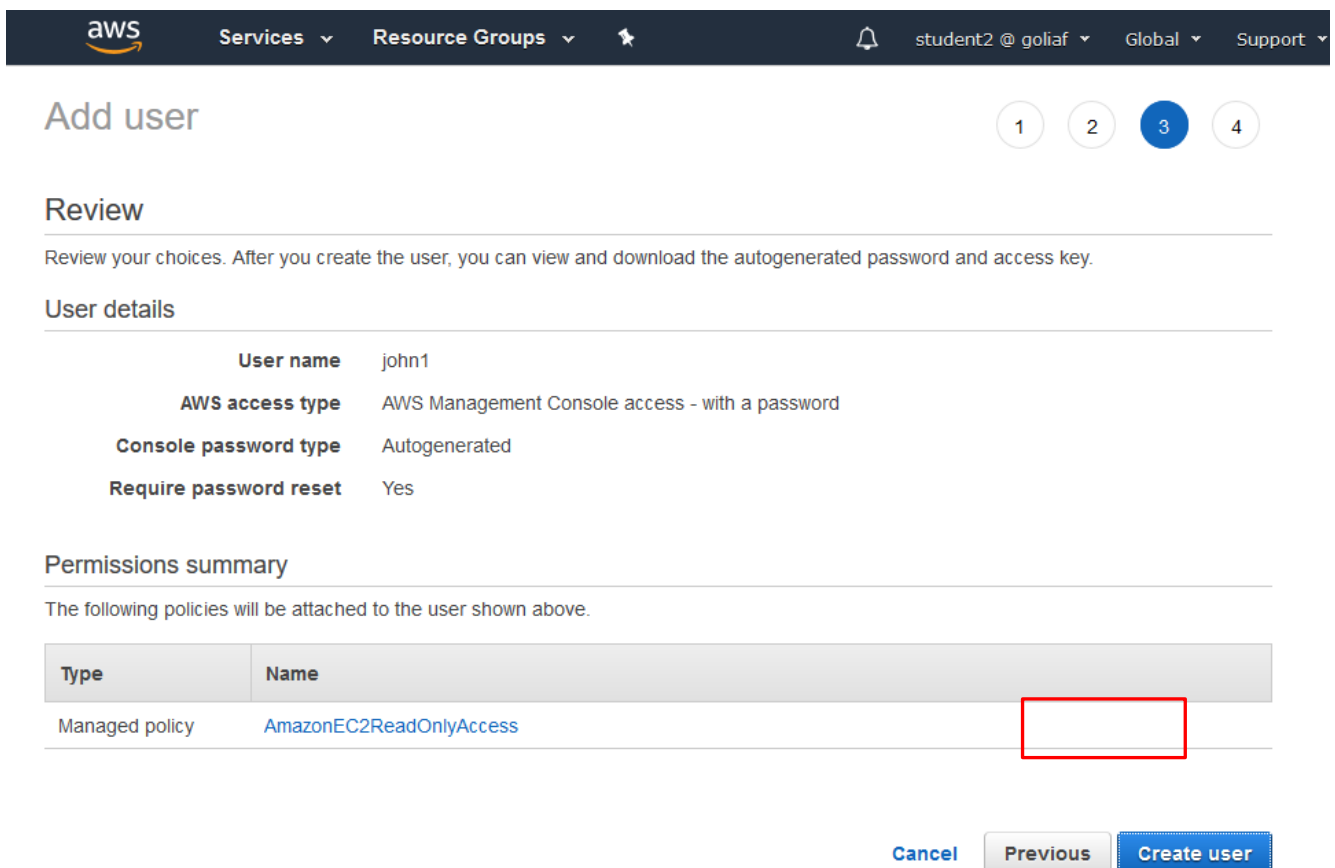
Add user

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

Set permissions for Student10

Add user to group Copy permissions from existing user **Attach existing policies directly**

and then find and select “AmazonEC2ReadOnlyAccess” policy name using filter field by type of policy as shown below, then click on “Next: Review: button:



Add user

1 2 3 **Review** 4

Review

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

User details

| | |
|-------------------------------|---|
| User name | john1 |
| AWS access type | AWS Management Console access - with a password |
| Console password type | Autogenerated |
| Require password reset | Yes |

Permissions summary

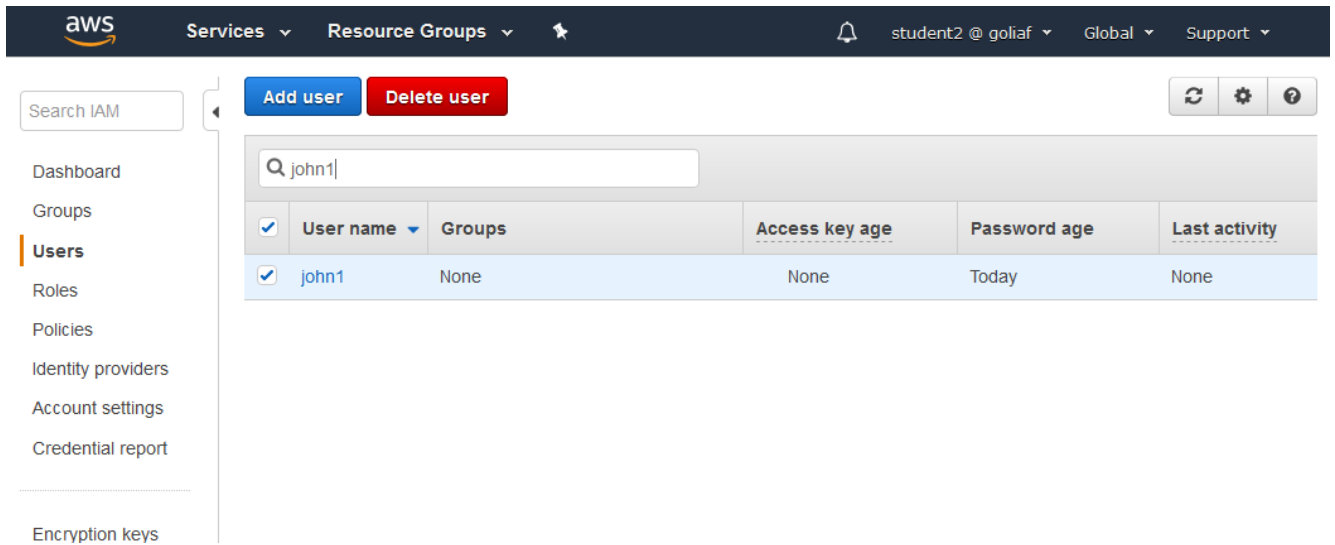
The following policies will be attached to the user shown above.

| Type | Name |
|----------------|---|
| Managed policy | AmazonEC2ReadOnlyAccess |

Cancel Previous **Create user**

Click on “Create User” button.

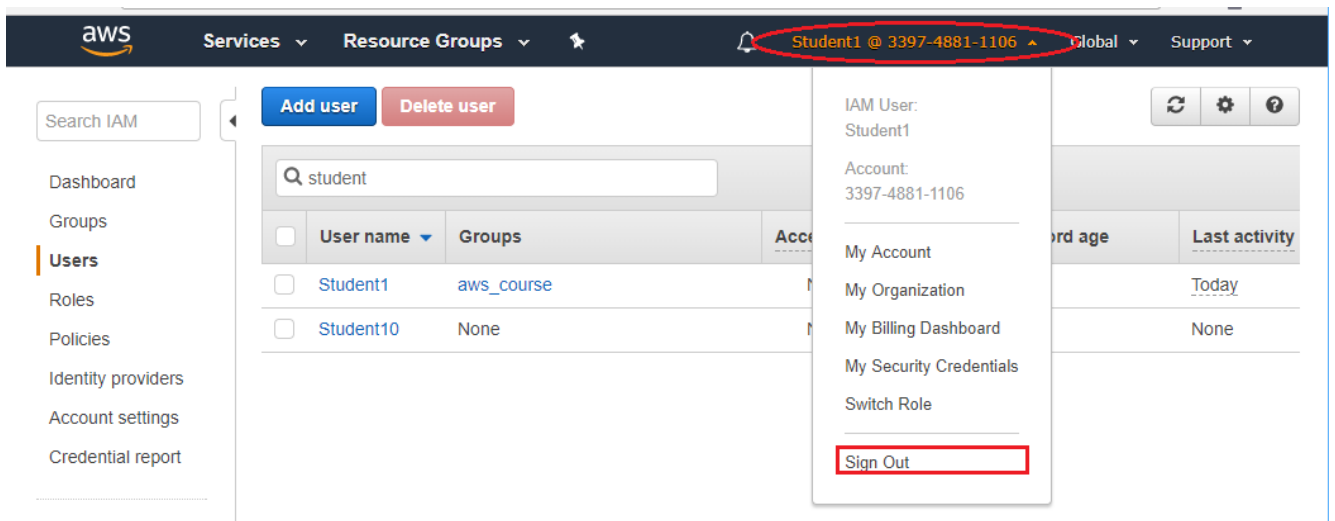
Confirm the creation of new user and finally find it in the list of available users:



The screenshot shows the AWS IAM console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', a star icon, a notification bell, the user 'student2 @ goliaf', 'Global', and 'Support'. The left sidebar contains a 'Search IAM' box and a list of navigation items: Dashboard, Groups, **Users** (highlighted), Roles, Policies, Identity providers, Account settings, Credential report, and Encryption keys. The main content area has 'Add user' and 'Delete user' buttons. Below them is a search bar with 'john1' entered. A table lists the users:

| <input checked="" type="checkbox"/> | User name | Groups | Access key age | Password age | Last activity |
|-------------------------------------|-----------|--------|----------------|--------------|---------------|
| <input checked="" type="checkbox"/> | john1 | None | None | Today | None |

3. Sign-out from your current account using top menu:



The screenshot shows the AWS IAM console interface with the top menu open. The user 'Student1 @ 3397-4881-1106' is highlighted in the top navigation bar. The dropdown menu shows the following options: IAM User: Student1, Account: 3397-4881-1106, My Account, My Organization, My Billing Dashboard, My Security Credentials, Switch Role, and **Sign Out** (highlighted with a red box). The main content area shows the 'Users' page with a search bar containing 'student' and a table listing users:

| <input type="checkbox"/> | User name | Groups | Access key age | Password age | Last activity |
|--------------------------|-----------|------------|----------------|--------------|---------------|
| <input type="checkbox"/> | Student1 | aws_course | | Today | |
| <input type="checkbox"/> | Student10 | None | | None | |

and log in again using Username and password of user you’ve created before:



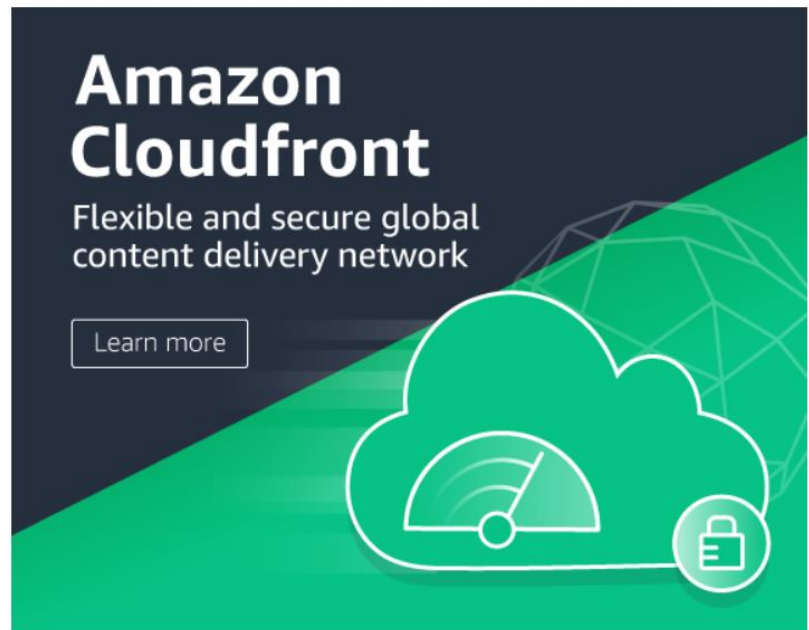
Account ID or alias

IAM user name

Password

Sign In

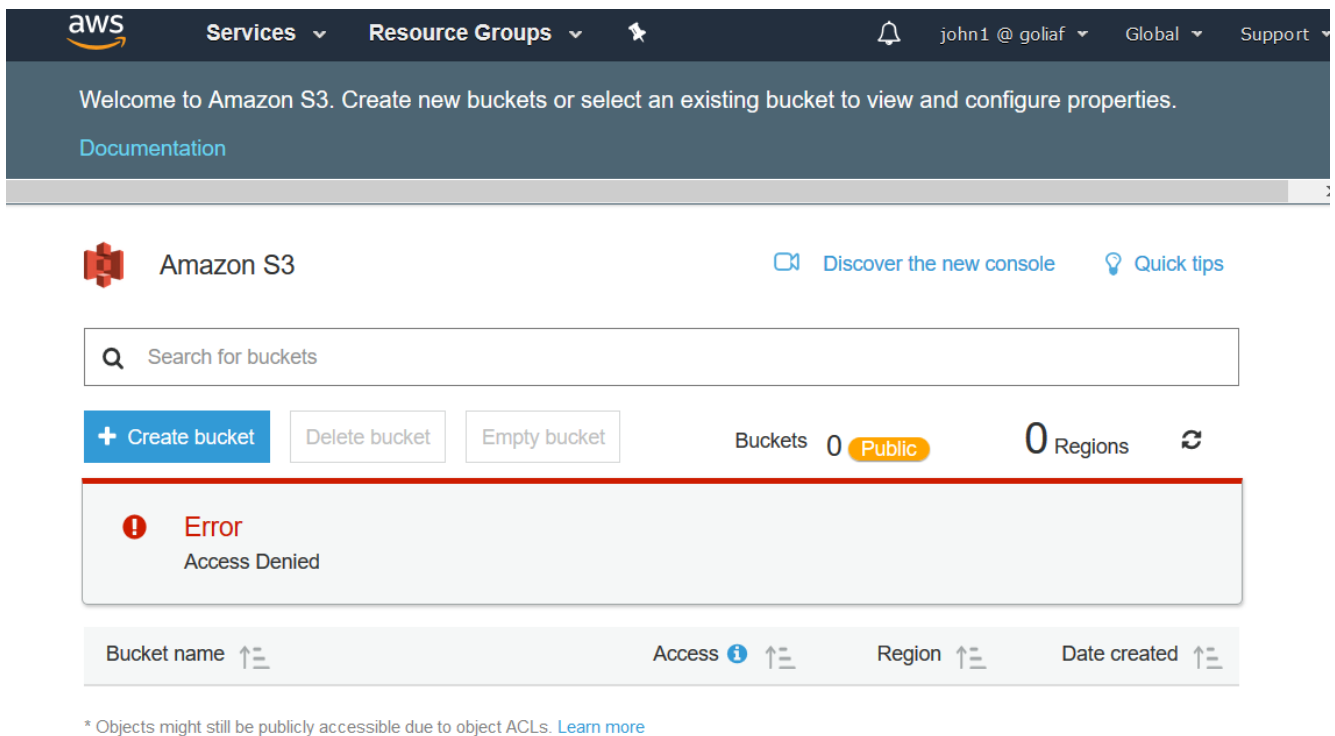
[Sign-in using root account credentials](#)



You will enter AWS Management Console as usual.

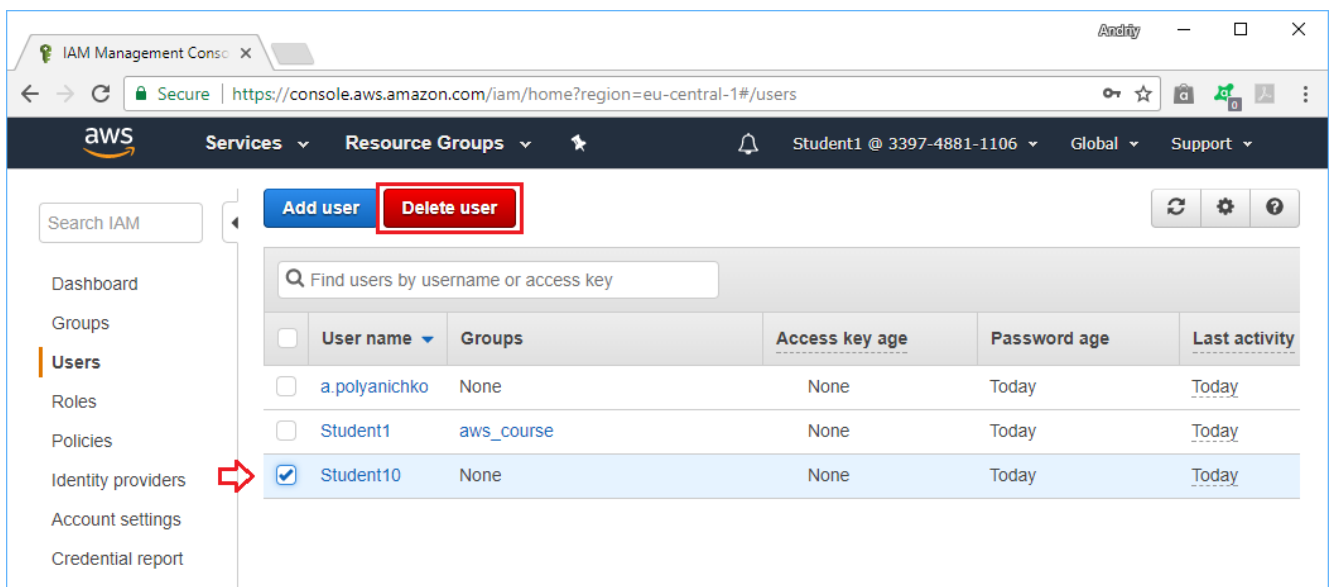
Now, if you will try to access EC2 services, you may consider that **john1** has complete access to all EC2 service functionalities (please check the availability of links which we had used in previous modules, hopefully everything is working).

If we are trying access S3 service, the message will appear:



So **john1** is restricted to access S3 due to corresponding privilege is not allowed explicitly in the attached managed policy.

Please sign out from **john1** user and then sign in again under your original user name. Open IAM Dashboard, click on “Users” item in left-side menu ribbon and delete temporary user which were named Student 10 in our examples:



Please confirm the deletion of user:

Delete user

The following users will be permanently deleted, including all user data, user security credentials, and user inline policies. Deleted user data cannot be recovered. Are you sure that you want to delete the following users?

| User name | Last activity |
|-----------|---------------------------------|
| john1 | No permissions to retrieve data |

Note: recent activity usually appears within 4 hours. Access Advisor tracking began on Oct 1, 2015.

☒ The last activity could not be loaded for one or more users that might have recently accessed AWS. Deleting them could affect running systems. Check the box to confirm that you want to delete these users.

Cancel
Yes, delete

and finally check the list of available users in IAM.

aws

Services

Resource Groups

student2 @ goliaf
Global
Support

Search IAM

Dashboard

Groups

Users

Roles

Policies

Identity providers

Account settings

Credential report

Encryption keys

Add user

Delete user

john1

Showing 0 results

| | User name | Groups | Access key age | Password age | Last activity | MFA |
|--|-----------|--------|----------------|--------------|---------------|-----|
| There are no IAM users. Learn more | | | | | | |