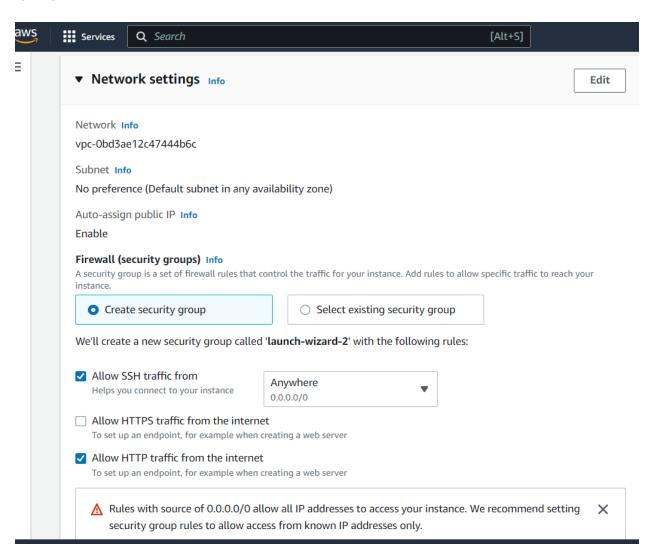
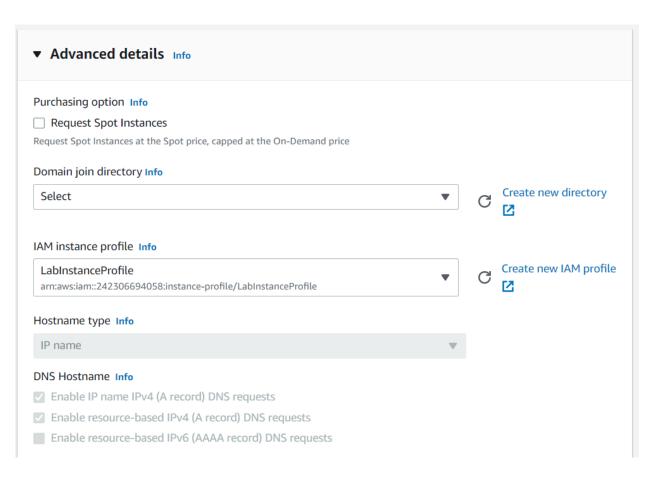
Assignment 1 – laaS and FaaS

1. Spin up an EC2 instance

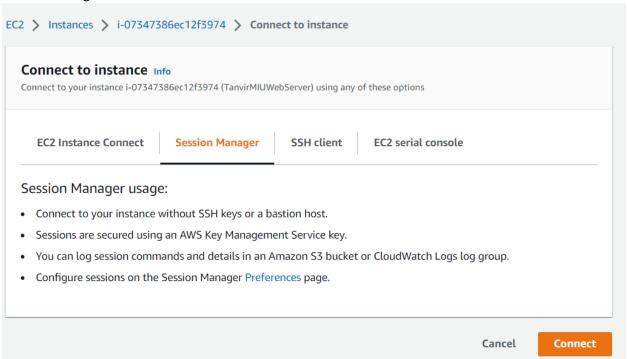


2. IAM instance profile setting in Advance Settings -



3. Configure web server

Session manager connect

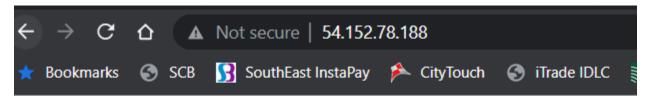


4. After installing APACHE, creating index.html

Session ID: user2294082=tanvir-0ea4e5eafc82e5ada Instance ID: i-07347386ec12f3974

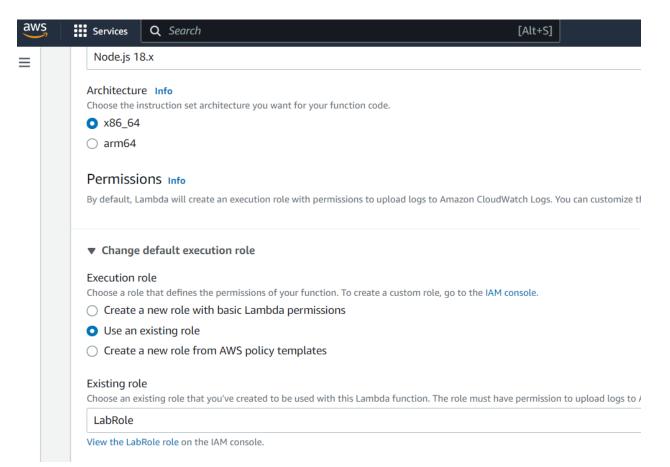


5. Html run with browser



Fanvir Zobair Mahboob

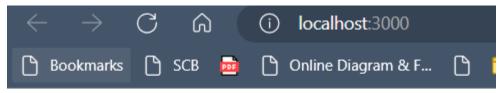
6. Creating Lambda



7. Enabling public API by function URL and enabling CORS

aws	Services	Q Search [Alt+S]]			
	○ Create	a new role with basic Lambda permissions				
	Use an	Use an existing role				
	○ Create	a new role from AWS policy templates				
	Existing ro Choose an ex	le xisting role that you've created to be used with this Lambda function. The role must have permissi	ion t			
	LabRole					
	View the Lab	pRole role on the IAM console.				
	▼ Adva	nced settings				
	☐ Enable	Code signing Info				
	Use code sig	ning configurations to ensure that the code has been signed by an approved source and has not be	een			
	✓ Enable	function URL Info				
	Use function	URLs to assign HTTP(S) endpoints to your Lambda function.				
	Auth type					
	Choose the a	auth type for your function URL. Learn more 🔀				
	Only aut	AM thenticated IAM users and roles can make requests to your function URL.				
	NONE					
	Lambda	won't perform IAM authentication on requests to your function URL. The URL endpoint will be pu	blic			
	Function URL permissions					
		en you choose auth type NONE , Lambda automatically creates the following resource. L. You can edit the policy later. To limit access to authenticated IAM users and roles,				
	▶ View po	olicy statement				
	_	ure cross-origin resource sharing (CORS) RS to allow access to your function URL from any origin. You can also use CORS to control access fo	or sp			

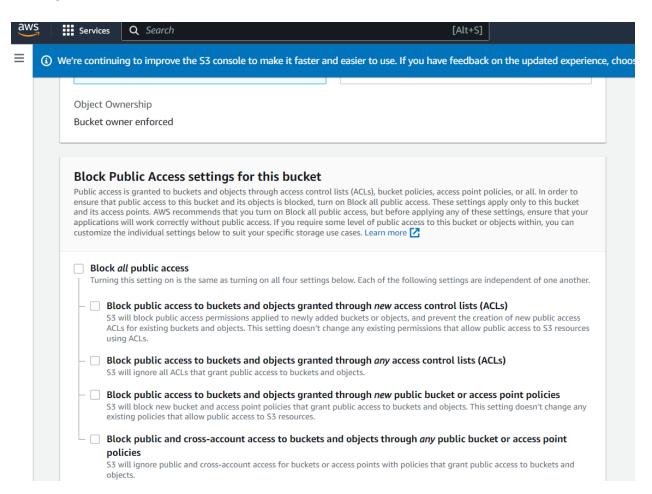
8. Output of Lambda from localhost react app



Cloud Computing course

- 1. STUDENT 1
- 2. STUDENT 2
- 3. STUDENT 3
- 4. STUDENT 4

9. Creating bucket in S3

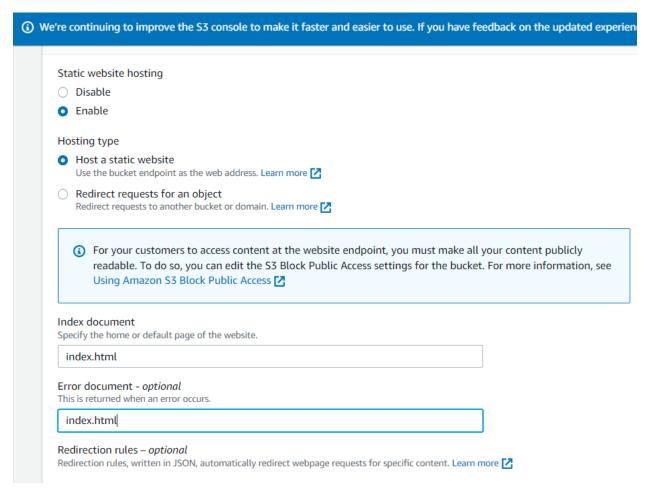


Bucket policy

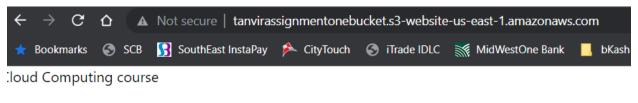
The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket

```
{
  "Version": "2012-10-17",
  "Id": "Policy1650912821527",
  "Statement": [
      {
            "Sid": "Stmt1650912820312",
            "Effect": "Allow",
            "Principal": "*",
            "Action": "s3:GetObject",
            "Resource": "arn:aws:s3:::tanvirassignmentonebucket/*"
      }
    ]
}
```

11. Enable static page hosting



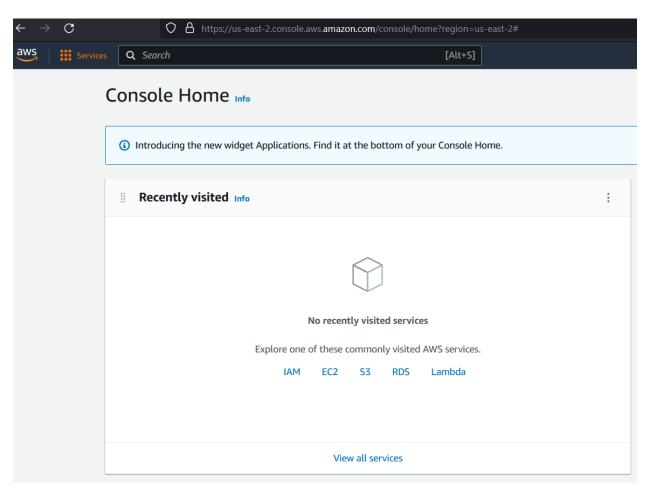
12. React app successfully deployed in bucket -



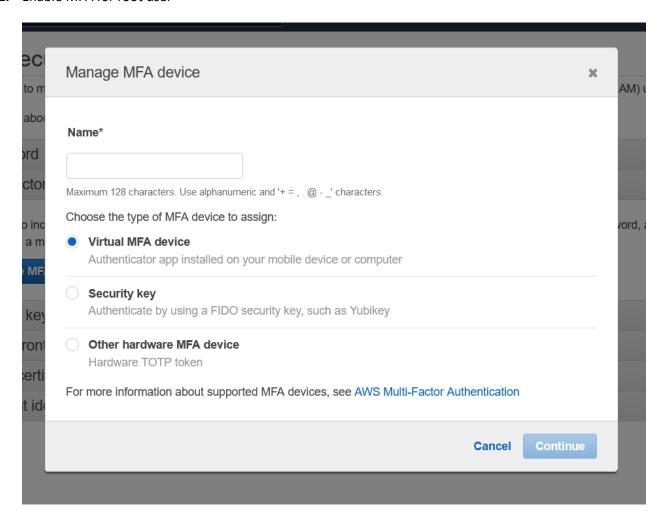
- 1. STUDENT 1
- 2. STUDENT 2
- 3. STUDENT 3
- 4. STUDENT 4

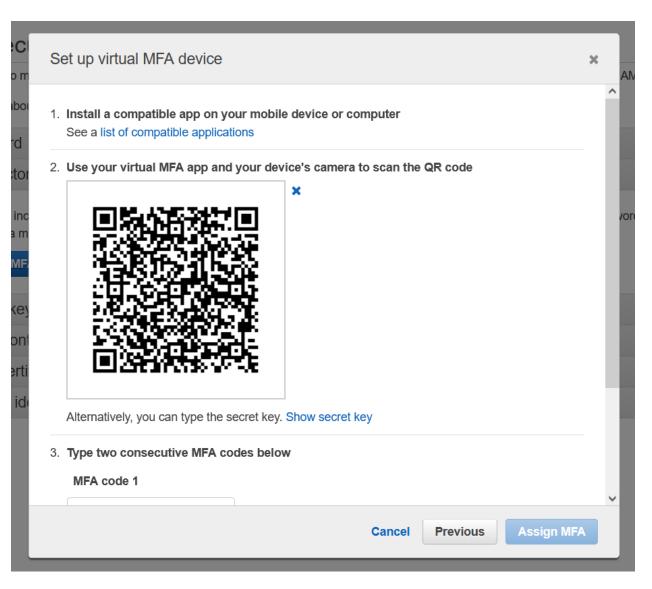
Create Own AWS Account

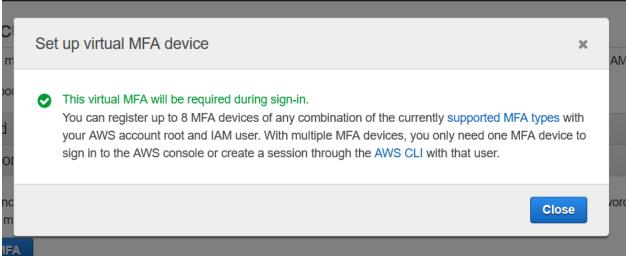
1. First AWS root user created for personal account



2. Enable MFA for root user







3. Create IAM profile user

▼IAM User and Role Access to Billing Information

Edit

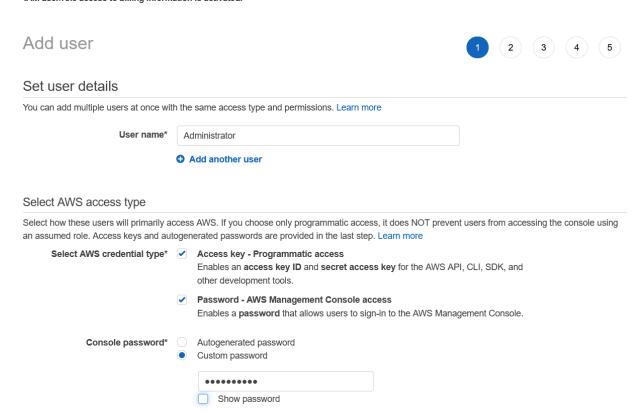
Use the **Activate IAM Access** setting to allow IAM users and roles access to pages of the Billing and Cost Management console. This setting alone doesn't grant IAM users and roles the necessary permissions for these console pages. In addition to activating IAM access, you must also attach the required IAM policies to those users or roles. For more information, see <u>Granting access to your billing information and tools</u>.

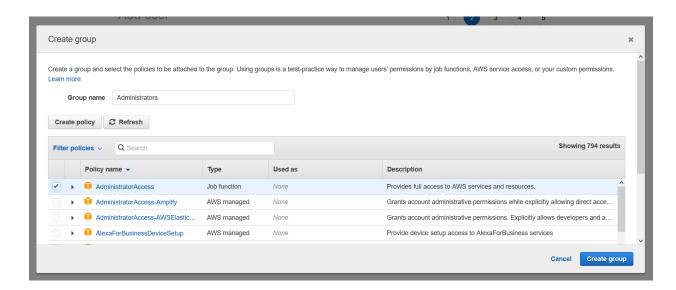
If this setting is deactivated, then IAM users and roles in this account can't access the Billing and Cost Management console pages, even if they have administrator access or the required IAM policies.

The Activate IAM Access setting does not control access to:

- The console pages for AWS Cost Anomaly Detection, Savings Plans overview, Savings Plans inventory, Purchase Savings Plans, and Savings Plan cart
- The Cost Management view in the AWS Console Mobile Application
- The Billing and Cost Management SDK APIs (AWS Cost Explorer, AWS Budgets, and AWS Cost and Usage Report APIs)
- The Customer Carbon Footprint Tool on the Cost & Usage Reports console page

IAM user/role access to billing information is activated.





Add user









Review

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

User details

User name Administrator AWS access type Programmatic access and AWS Management Console access Console password type Custom Require password reset Permissions boundary Permissions boundary is not set

Permissions summary

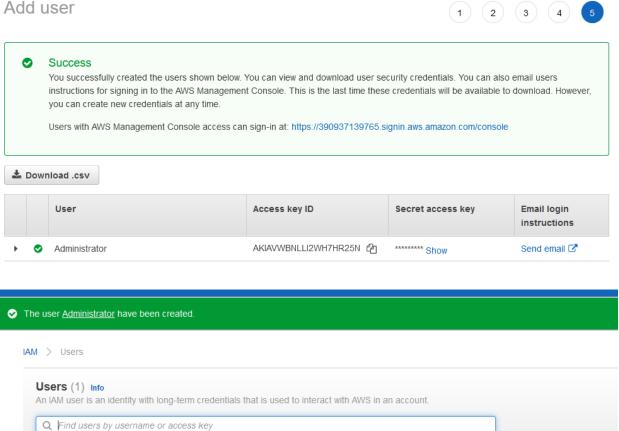
The user shown above will be added to the following groups.

Туре	Name
Group	Administrators
Managed policy	IAMUserChangePassword

Tags

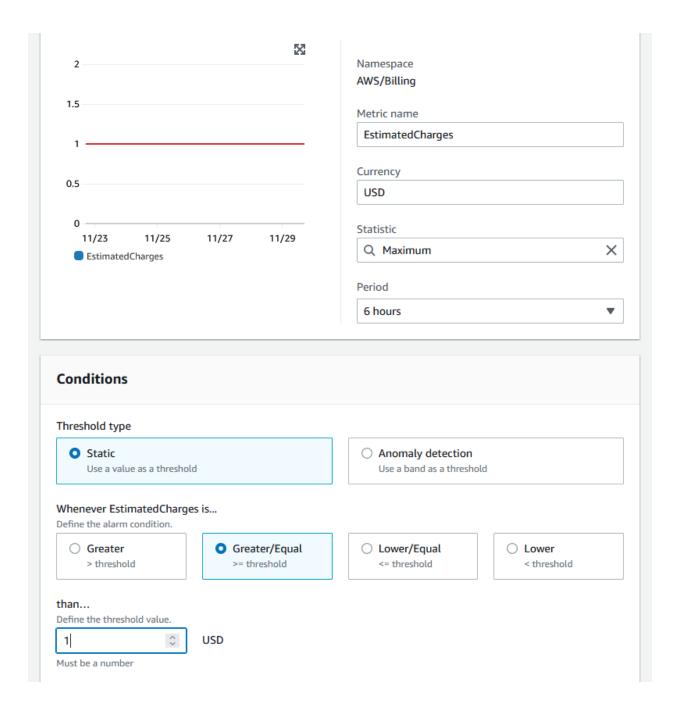
No tags were added.





4. Setting up a billing alarm on CloudWatch





Configure actions

In alarm The metric or expression is	О ОК	Insufficient data
outside of the defined threshold.	The metric or expression is within the defined threshold.	The alarm has just started or not enough data is available.
Send a notification to the following SNS Define the SNS (Simple Notification Service) to	-	
Select an existing SNS topic		
Create new topic		
Use topic ARN to notify other accoun	nts	
Create a new topic The topic name must be unique.		
MyBillingAlarm		
SNS topic names can contain only alphanumer Email endpoints that will receive the no Add a comma-separated list of email addresse	tification	
and the second s		
tanvirmahboob@gmail.com		
tanvirmahboob@gmail.com user1@example.com, user2@example.com		

