

AWS Lab (1)

1- Create Billing alarm

CloudWatch:

The screenshot shows the AWS CloudWatch Alarms console. The left sidebar contains navigation links for Alarms, Logs, Metrics, X-Ray traces, Events, Application monitoring, and Insights. The main content area displays a table of alarms. One alarm, 'My_Estimated_Charge_Alarm', is listed with a state of 'Insufficient data' and a condition of 'EstimatedCharges >= 1 for 1 datapoints within 6 hours'. The 'Actions' column for this alarm shows 'Actions enabled'.

Name	State	Last state update	Conditions	Actions
My_Estimated_Charge_Alarm	Insufficient data	2023-05-31 00:55:33	EstimatedCharges >= 1 for 1 datapoints within 6 hours	Actions enabled

SNS:

The screenshot shows the AWS SNS console. The left sidebar contains navigation links for Topics, Subscriptions, and Mobile. The main content area displays the details for a topic named 'My_CloudWatch_Alarms_Topic'. The details section shows the topic name, ARN, and type. Below the details, there is a table of subscriptions. One subscription is listed with an ID of '47c7e12e-f83b-4923-a33b-477b18a44...', an endpoint of 'amrhossamm@gmail.com', and a status of 'Confirmed'.

ID	Endpoint	Status	Protocol
47c7e12e-f83b-4923-a33b-477b18a44...	amrhossamm@gmail.com	Confirmed	EMAIL

2- Screenshot from each group with users and permissions

admin group with users

The screenshot shows the AWS IAM Management Console interface. The left sidebar contains navigation links for Identity and Access Management (IAM), including Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers, Account settings), Access reports (Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity, Service control policies (SCPs)), and Related consoles (IAM Identity Center, AWS Organizations). The main content area displays the 'admin' user group details. The 'Summary' section shows the user group name 'admin', creation time 'May 30, 2023, 19:51 (UTC+03:00)', and ARN 'arn:aws:iam::125467979341:group/admin'. Below this, the 'Users' tab is selected, showing a table of users in the group. The table has columns for User name, Groups, Last activity, and Creation time. Two users are listed: 'admin2-prog' and 'admin-1', both with a last activity of '1 hour ago' and creation time of '1 hour ago'.

User name	Groups	Last activity	Creation time
admin2-prog	1	None	1 hour ago
admin-1	1	None	1 hour ago

admin group with permissions

The screenshot shows the AWS IAM Management Console interface, similar to the previous one, but with the 'Permissions' tab selected. The 'Summary' section remains the same. The 'Permissions policies' section shows a table of policies attached to the group. The table has columns for Policy name, Type, and Description. One policy is listed: 'AdministratorAccess', which is an 'AWS managed - job function' policy that 'Provides full access to AWS services a...'. The 'Add permissions' button is visible at the top right of the table.

Policy name	Type	Description
AdministratorAccess	AWS managed - job function	Provides full access to AWS services a...

development group with users

The screenshot shows the AWS IAM console interface. The left sidebar contains the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, Access reports, and Service control policies (SCPs). The main content area is titled 'development' and shows the 'Users' tab. The 'Summary' section displays the user group name 'development', creation time 'May 30, 2023, 19:51 (UTC+03:00)', and ARN 'arn:aws:iam::125467979341:group/development'. Below this, the 'Users in this group (1)' section shows a table with one user: 'dev-user'. The table has columns for 'User name', 'Groups', 'Last activity', and 'Created'. The 'dev-user' is listed with '1' group and 'None' last activity.

User name	Groups	Last activity	Created
dev-user	1	None	49

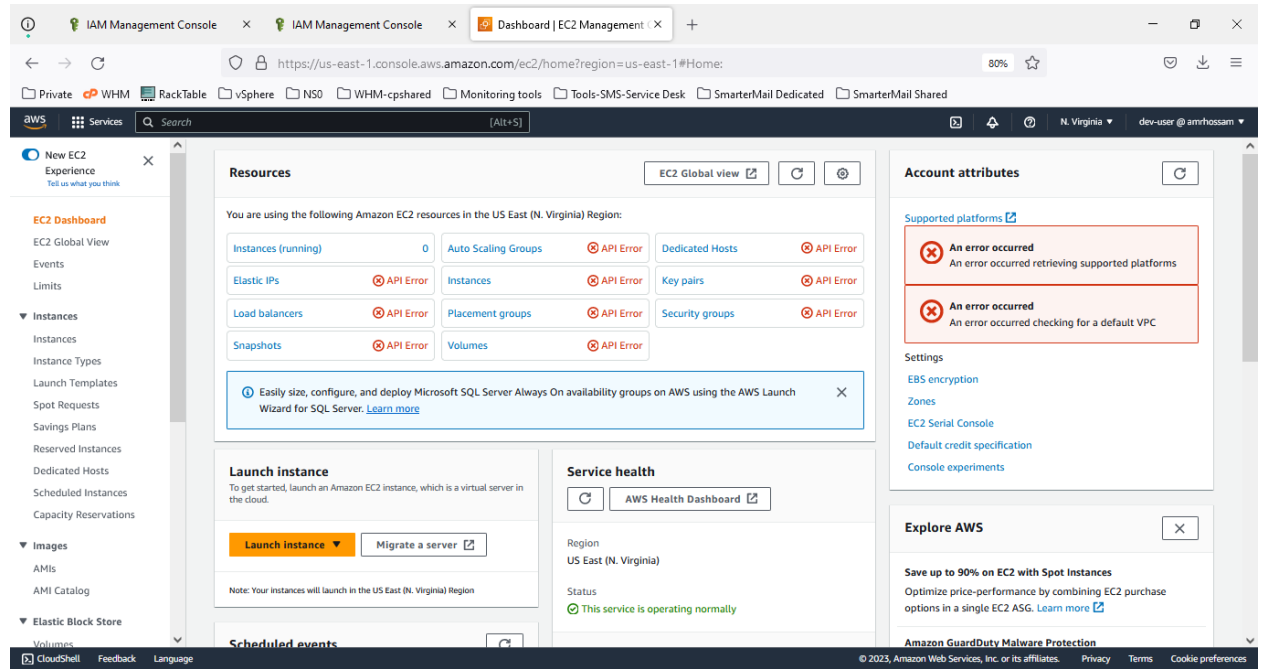
development group with permissions

The screenshot shows the AWS IAM console interface, similar to the previous one, but with the 'Permissions' tab selected. The 'Summary' section remains the same. The 'Permissions policies (1)' section shows a table with one policy: 'AmazonS3ReadOnlyAccess'. The table has columns for 'Policy name', 'Type', and 'Description'. The 'AmazonS3ReadOnlyAccess' policy is listed with 'AWS managed' type and 'Provides read only access to all buckets via the AWS Management Console.' description.

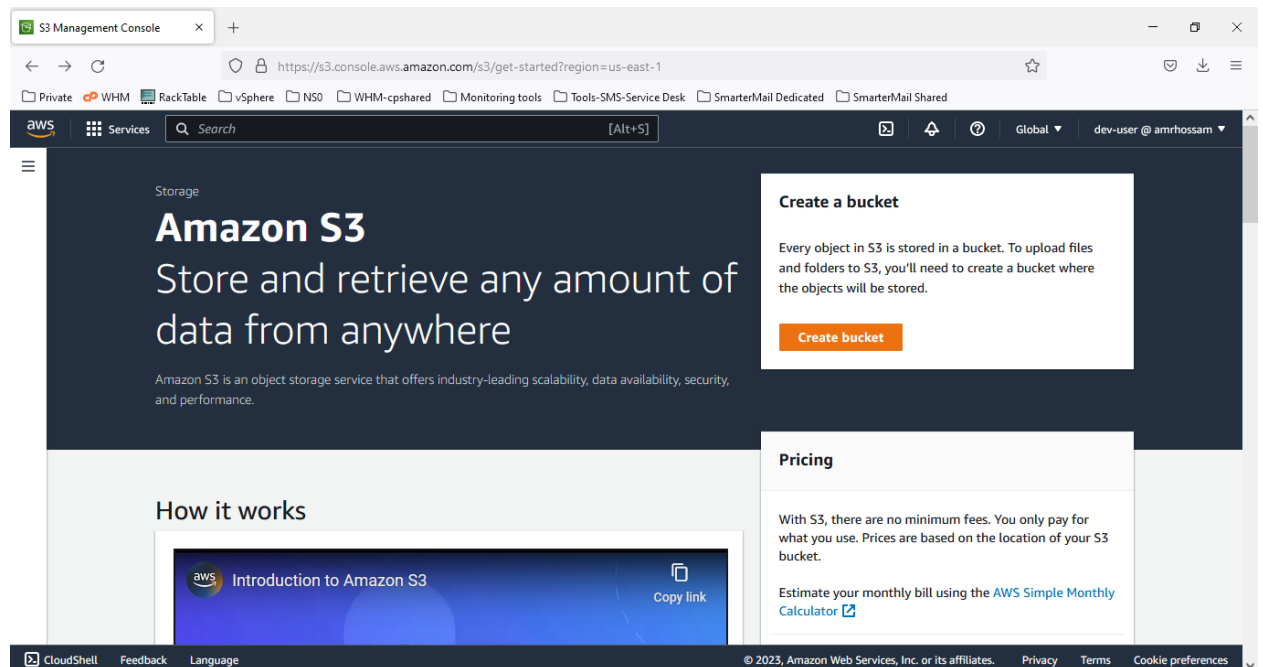
Policy name	Type	Description
AmazonS3ReadOnlyAccess	AWS managed	Provides read only access to all buckets via the AWS Management Console.

3- Screenshot from using dev-user to access ec2 and S3 from console

For ec2



For S3



4- Screenshot from listing users and groups using admin2-prog

```
MINGW64/c/Users/Amr Hossam/Desktop
Amr Hossam@DESKTOP-7RB9P1N MINGW64 ~/Desktop (main)
$ aws iam list-users
{
  "Users": [
    {
      "Path": "/",
      "UserName": "admin-1",
      "UserId": "AIDAR2NTZNZGRUC7ZYC2A",
      "Arn": "arn:aws:iam::125467979341:user/admin-1",
      "CreateDate": "2023-05-30T16:54:12+00:00"
    },
    {
      "Path": "/",
      "UserName": "admin2-prog",
      "UserId": "AIDAR2NTZNZG3BBL2ZYIC",
      "Arn": "arn:aws:iam::125467979341:user/admin2-prog",
      "CreateDate": "2023-05-30T17:33:48+00:00"
    },
    {
      "Path": "/",
      "UserName": "dev-user",
      "UserId": "AIDAR2NTZNZG6DQBG2774",
      "Arn": "arn:aws:iam::125467979341:user/dev-user",
      "CreateDate": "2023-05-30T19:16:28+00:00",
      "PasswordLastUsed": "2023-05-30T19:18:34+00:00"
    }
  ]
}

Amr Hossam@DESKTOP-7RB9P1N MINGW64 ~/Desktop (main)
$ aws iam list-groups
{
  "Groups": [
    {
      "Path": "/",
      "GroupName": "admin",
      "GroupId": "AGPAR2NTZNZG2VESAK2D0",
      "Arn": "arn:aws:iam::125467979341:group/admin",
      "CreateDate": "2023-05-30T16:51:14+00:00"
    },
    {
      "Path": "/",
      "GroupName": "development",
      "GroupId": "AGPAR2NTZNZG5X7XZMD53",
      "Arn": "arn:aws:iam::125467979341:group/development",
      "CreateDate": "2023-05-30T16:51:37+00:00"
    }
  ]
}

Amr Hossam@DESKTOP-7RB9P1N MINGW64 ~/Desktop (main)
$ |
```

5- Screenshot from listing users and groups using dev-user

```
Amr Hossam@DESKTOP-7RB9P1N MINGW64 ~/Desktop (main)
$ aws iam list-users

An error occurred (AccessDenied) when calling the ListUsers operation: User: arn:aws:iam::125467979341:user/dev-user is not authorized to perform: iam:ListUsers on resource: arn:aws:iam::125467979341:user/ because no identity-based policy allows the iam:ListUsers action

Amr Hossam@DESKTOP-7RB9P1N MINGW64 ~/Desktop (main)
$ aws iam list-groups

An error occurred (AccessDenied) when calling the ListGroups operation: User: arn:aws:iam::125467979341:user/dev-user is not authorized to perform: iam:ListGroups on resource: arn:aws:iam::125467979341:group/ because no identity-based policy allows the iam:ListGroups action

Amr Hossam@DESKTOP-7RB9P1N MINGW64 ~/Desktop (main)
$ |
```