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Practical No: 6

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Aim: To understand and demonstrate the use of AWS IAM

Experiment: (Login to AWS Academy)

AWS Academy: Cloud Foundations

Perform the Lab 1 from module 4 - Submit entire lab screenshots and step-by-step instructions.

The screenshot shows the Vocareum website's Terms and Conditions page. At the top, there is a dark header bar with the 'vocareum' logo on the left and navigation links for 'Home', 'Classes', 'Help', and a user account link on the right. Below the header, a message prompts the user to read the terms and conditions and click 'I agree'. A horizontal line separates this from the 'Terms and Conditions' section. The 'Terms and Conditions' section is titled 'Terms and Conditions' and contains a detailed paragraph about the Site's terms of service, privacy policy, and how they govern the use of the platform. It also includes sections for 'Agreement To Terms' and 'Changes to Terms or Services' with their respective descriptions.

Please read the terms and conditions shown below and click on the "I agree" button at the bottom of this page to continue.

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AWS ●

EN-US ▾

Start Lab End Lab AWS Details Details Submit Submission Report Grades

Lab 1: Introduction to AWS IAM

AWS Identity and Access Management (IAM) is a web service that enables Amazon Web Services (AWS) customers to manage users and user permissions in AWS. With IAM, you can centrally manage **users**, **security credentials** such as access keys, and **permissions** that control which AWS resources users can access.

Lab overview and objectives

This lab will demonstrate:

- Exploring pre-created IAM Users and Groups

Introduction to AWS IAM

The screenshot shows the AWS IAM Dashboard. On the left, a sidebar menu includes 'Identity and Access Management (IAM)', 'Dashboard', 'Access management' (with sub-options like User groups, Users, Roles, Policies, Identity providers, Account settings, Root access management), 'Access reports' (with sub-options like Access Analyzer, Resource analysis, Unused access, Analyzer settings, Credential report, Organization activity, Service control policies), and 'CloudShell' and 'Feedback' buttons. The main content area displays 'IAM Dashboard' with sections for 'IAM resources' (User groups: 3, Users: 4, Roles: 13, Policies: 1, Identity providers: 0) and 'AWS Account' (Account ID: 6829-0933-2187, Account Alias: Create). A 'What's new' section lists recent changes: Amazon Bedrock introduces API keys for streamlined development, AWS Service Reference Information supports annotations for service actions, AWS expands resource control policies (RCPs) support to two additional services, and AWS IAM now enforces MFA for root users across all account types. The bottom right corner shows the date and time: 12-08-2025, 11:41.

Pre Created Users

The screenshot shows the 'Users' page in the AWS IAM console. The sidebar is identical to the previous dashboard. The main content area shows a table titled 'Users (4)'. The table has columns for 'User name', 'Path', 'Group', 'Last activity', 'MFA', 'Password age', and 'Console last sign-in'. The users listed are 'awsstudent' (Path: /, Group: Access denied, Last activity: -), 'user-1' (Path: /spl66/, Group: Access denied, Last activity: 6 minutes ago, MFA: Yes), 'user-2' (Path: /spl66/, Group: Access denied, Last activity: 6 minutes ago, MFA: Yes), and 'user-3' (Path: /spl66/, Group: Access denied, Last activity: 6 minutes ago, MFA: Yes). The bottom right corner shows the date and time: 12-08-2025, 11:41.

Users

The screenshot shows the AWS IAM User Details page for a user named 'user-1'. The 'Permissions' tab is selected. Key details shown include:

- ARN:** arn:aws:iam::682909332187:user/spl66/user-1
- Console access:** Enabled without MFA
- Created:** August 12, 2025, 11:34 (UTC+05:30)
- Last console sign-in:** Never
- Access key 1:** AKIAZ6AEROLNYQ6DK3MD - Active (Never used, Created today)
- Access key 2:** Create access key

The 'Permissions policies' section shows a table with columns for Policy name, Type, and Attached via. A search bar and filter are present. The 'Permissions boundary' section is noted as '(not set)'.

User 1 Permissions

The screenshot shows the AWS IAM User Details page for 'user-1', with the 'Groups' tab selected. Key details shown include:

- ARN:** arn:aws:iam::682909332187:user/spl66/user-1
- Console access:** Enabled without MFA
- Created:** August 12, 2025, 11:34 (UTC+05:30)
- Last console sign-in:** Never
- Access key 1:** AKIAZ6AEROLNYQ6DK3MD - Active (Never used, Created today)
- Access key 2:** Create access key

The 'User groups membership' section indicates that the user does not belong to any groups.

User 1 Groups

The screenshot shows the AWS IAM User Details page for a user named 'user-1'. The left sidebar includes options like Dashboard, Access management (User groups, Roles, Policies, Identity providers, Account settings, Root access management), and Access reports (Access Analyzer, Resource analysis, Unused access, Analyzer settings, Credential report, Organization activity, Service control policies). The main content area displays the 'user-1' info card with tabs for Summary, Permissions, Groups, Tags, Security credentials (selected), and Last Accessed. Under 'Security credentials', it shows 'Console access' (Enabled without MFA), 'Last console sign-in' (Never), and two access keys. The 'Multi-factor authentication (MFA)' section indicates 0 MFA devices assigned. The bottom right corner shows the AWS logo, account ID (6829-0933-2187), and session details (voclabs/user4286950=rahman.242466.it@mhsse.a...).

User 1 Security Credentials

The screenshot shows the AWS IAM User Groups page. The left sidebar includes options like Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers, Account settings, Root access management), and Access reports (Access Analyzer, Resource analysis, Unused access, Analyzer settings, Credential report, Organization activity, Service control policies). The main content area displays the 'User groups (3)' info card. It lists three groups: EC2-Admin, EC2-Support, and S3-Support, each with 0 users and defined permissions, created 9 minutes ago. The bottom right corner shows the AWS logo, account ID (6829-0933-2187), and session details (voclabs/user4286950=rahman.242466.it@mhsse.a...).

User Groups

The screenshot shows the AWS IAM User Groups page for the 'S3-Support' group. The left sidebar includes options like 'User groups', 'Users', 'Roles', 'Policies', 'Identity providers', 'Account settings', and 'Root access management'. The main content area displays the 'Summary' of the 'S3-Support' group, showing it was created on August 12, 2025, at 11:34 (UTC+05:30). The ARN is listed as arn:aws:iam::682909332187:group/spl66/S3-Support. Below this, there are tabs for 'Users', 'Permissions', and 'Access Advisor'. The 'Users' tab shows 'Users in this group (0)' with a search bar and a table header. The 'Permissions' tab is currently selected, showing 'Permissions policies (1) info' with a table for managing policies. A policy named 'AmazonS3ReadOnlyAccess' is listed, which provides read-only access to all buckets via the AWS Management Console. The policy JSON is displayed:

```
1- [ { 2-   "Version": "2012-10-17", 3-     "Statement": [ 4-       { 5-         "Effect": "Allow", 6-           "Action": [ 7-             "s3:Get*", 8-             "s3:List*", 9-             "s3:Subscribe*", 10-            "s3-object-lambda:Get*", 11-            "s3-object-lambda>List*" 12-          ], 13-         "Resource": "*" 14-       } 15-     ] 16-   ]
```

S3 Group Users

This screenshot is from the same AWS IAM User Groups page for the 'S3-Support' group, but the 'Permissions' tab is selected. It shows the 'Permissions policies (1) info' section. The policy 'AmazonS3ReadOnlyAccess' is detailed, showing it provides read-only access to all buckets via the AWS Management Console. The policy JSON is identical to the one shown in the previous screenshot.

S3 Group Permissions

The screenshot shows the AWS IAM User Groups page for the 'EC2-Support' group. The 'Permissions' tab is selected. A single policy, 'AmazonEC2ReadOnlyAccess', is attached. The JSON code for this policy is displayed:

```
1  [ { 2      "Version": "2012-10-17", 3          "Statement": [ 4              { 5                  "Effect": "Allow", 6                  "Action": [ 7                      "ec2:Describe*", 8                      "ec2:GetSecurityGroupsForVpc" 9                  ], 10                 "Resource": "*" 11             }, 12             { 13                 "Effect": "Allow", 14                 "Action": "elasticloadbalancing:Describe*", 15                 "Resource": "*" 16             }, 17             { 18                 "Effect": "Allow", 19                 "Action": [ 20                     "cloudwatch:ListMetrics",
```

S3 Group Details

The screenshot shows the AWS IAM User Groups page for the 'EC2-Support' group. The 'Permissions' tab is selected. A single policy, 'AmazonEC2ReadOnlyAccess', is attached. The JSON code for this policy is displayed:

```
1  [ { 2      "Version": "2012-10-17", 3          "Statement": [ 4              { 5                  "Effect": "Allow", 6                  "Action": [ 7                      "ec2:Describe*", 8                      "ec2:GetSecurityGroupsForVpc" 9                  ], 10                 "Resource": "*" 11             }, 12             { 13                 "Effect": "Allow", 14                 "Action": "elasticloadbalancing:Describe*", 15                 "Resource": "*" 16             }, 17             { 18                 "Effect": "Allow", 19                 "Action": [ 20                     "cloudwatch:ListMetrics",
```

EC2 Group Permissions

The screenshot shows the AWS IAM User Groups page for the 'EC2-Admin' group. The 'Permissions' tab is selected. A single policy, 'EC2-Admin-Policy', is attached. The JSON code for the policy is displayed:

```
1 - {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Action": [
6         "ec2:Describe*",

```

EC2 Group Details

The screenshot shows the AWS IAM User Groups page for the 'EC2-Admin' group. The 'Permissions' tab is selected. A single policy, 'EC2-Admin-Policy', is attached. The JSON code for the policy is displayed:

```
1 - {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Action": [
6         "ec2:Describe*",
7         "ec2:StartInstances",
8         "ec2:StopInstances"
6       ],
7       "Resource": "*",
8     },
9     {
10    "Effect": "Allow"
11  }
12 ]
13 }
14 ]
15 ]
16 ]

```

EC2 Group Permissions

The screenshot shows the 'Add users' step in the IAM User Groups wizard. It lists three users: 'user-1' (selected), 'user-2', and 'user-3'. Each user has a status of '0' and 'None' under 'Last activity' and 'Access type' respectively, with a timestamp of '13 minutes ago'. At the bottom right are 'Cancel' and 'Add users' buttons.

Adding user-1 to S3 Group

The screenshot shows the 'S3-Support' group details page. A green banner at the top indicates '1 user added to this group.' The 'Users' tab is selected, showing one user named 'user-1'. The ARN of the user is listed as 'arn:aws:iam::682909332187:group/spl66/S3-Support'. The 'Permissions' and 'Access Advisor' tabs are also visible.

Successfully added user-1 to S3 Group

The screenshot shows the 'Add users' dialog box within the AWS IAM console. The user 'user-2' is selected, indicated by a checked checkbox and a blue highlight. The other two users, 'user-1' and 'user-3', are unchecked. At the bottom right of the dialog are two buttons: 'Cancel' and 'Add users'.

Adding user-2 to EC2 Group

The screenshot shows the 'EC2-Support' group details page in the AWS IAM console. A green success message at the top states '1 user added to this group.' Below this, the 'Users' tab is selected, showing a table with one user entry: 'user-2'. The ARN of the user is listed as 'arn:aws:iam::682909332187:group/spl66/EC2-Support'. At the bottom right of the table are 'Remove' and 'Add users' buttons.

Successfully added user-2 to EC2 Group

The screenshot shows the 'Add users' page within the AWS IAM console. A vertical red box highlights the sidebar on the left. The main area displays three users: 'user-1', 'user-2', and 'user-3'. 'user-3' is selected, indicated by a blue border around its row. At the bottom right are 'Cancel' and 'Add users' buttons.

Adding user-3 to Admin Group

The screenshot shows the 'EC2-Admin' group details page within the AWS IAM console. A vertical red box highlights the sidebar on the left. A green banner at the top indicates '1 user added to this group.' The 'Users' tab is selected, showing 'user-3' listed. At the bottom right are 'Remove' and 'Add users' buttons.

Successfully added user-3 to Admin Group

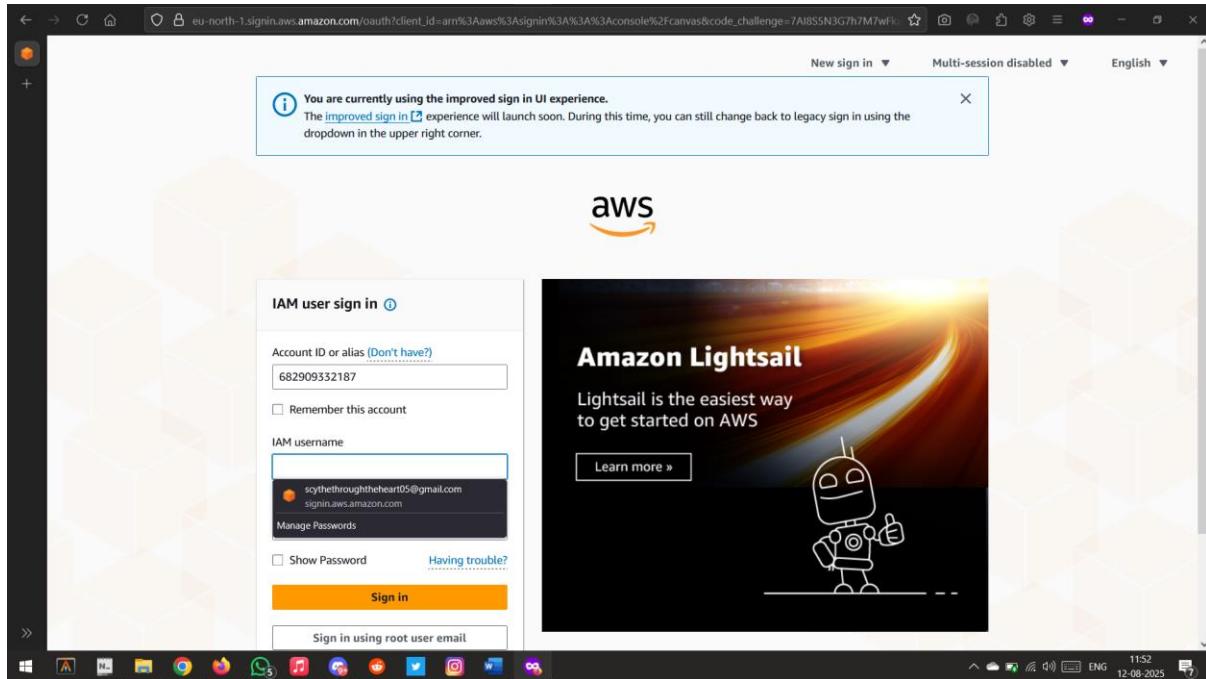
The screenshot shows the AWS Identity and Access Management (IAM) console. The left sidebar is collapsed, and the main area displays the 'User groups' section. The title bar indicates the URL is `us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#groups`. The top right shows the account ID: `6829-0933-2187` and the user: `voclabs/user4286950=rahman.242466.it@mhsse.a...`. The 'User groups' table lists three entries:

| Group name | Users | Permissions | Creation time |
|-------------|-------|-------------|----------------|
| EC2-Admin | 1 | Defined | 15 minutes ago |
| EC2-Support | 1 | Defined | 15 minutes ago |
| S3-Support | 1 | Defined | 15 minutes ago |

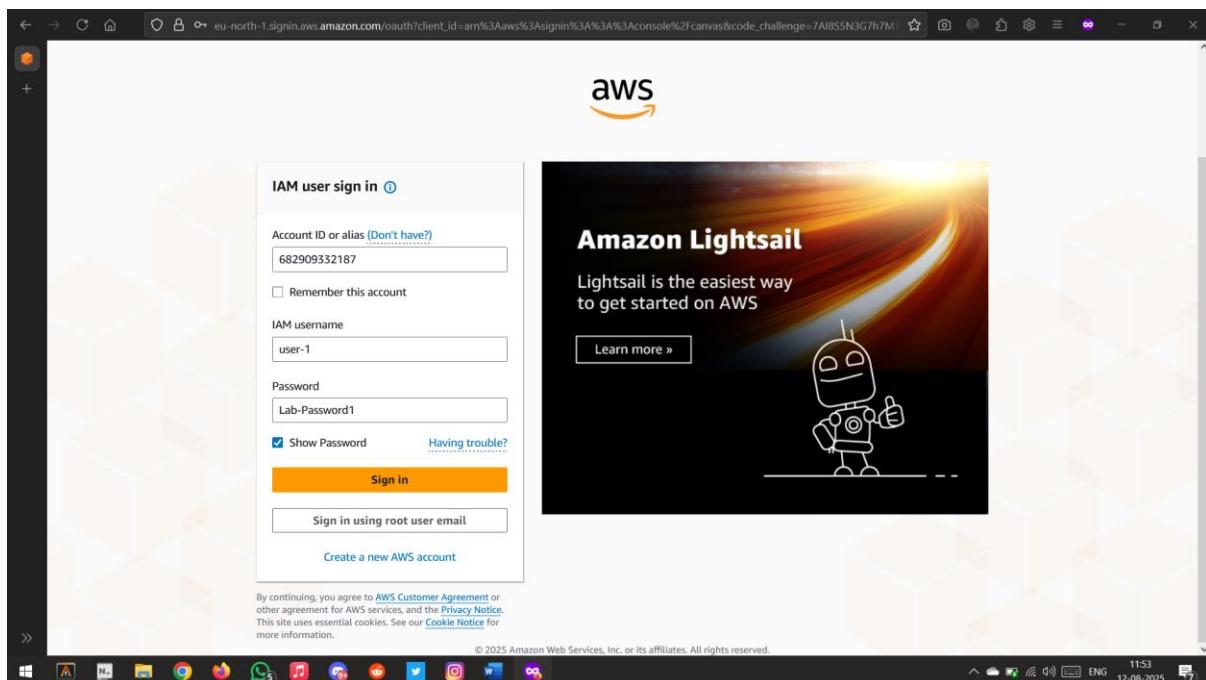
Each group now at least has a single user

The screenshot shows a Windows desktop environment. A browser window is open with the URL `https://682909332187.signin.aws.amazon.com/console` in the address bar. The taskbar at the bottom shows various pinned icons and the system tray with network and battery status.

Copied the URL for log in for the IAM users



Page Opened



User-1 Login

The screenshot shows the AWS Console Home page. At the top right, it displays the account ID: 6829-0933-2187 and the region: Europe (Stockholm). The main dashboard includes sections for Recently visited services (with a note about no recent activity), Applications (showing 0 applications with a red box around an error message about access denied), Welcome to AWS (with a rocket icon and a link to get started), AWS Health (status), and Cost and usage (showing current month and forecasted month end costs, both with red 'Access denied' status). A navigation bar at the bottom includes CloudShell, Feedback, and various icons for other services like Lambda, S3, and RDS.

User-1 Home

The screenshot shows the Amazon S3 service page. The left sidebar lists options like General purpose buckets, Directory buckets, Table buckets, Vector buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Storage Lens (Dashboards, Storage Lens groups, AWS Organizations settings), and Feature spotlight. The main content area shows the 'General purpose buckets' tab with one bucket named 'samplebucket--2283b850' listed. It includes details such as Region: US East (N. Virginia) us-east-1, Creation date: August 12, 2025, 11:34:04 (UTC+05:30), and a 'Create bucket' button. To the right, there are sections for 'Account snapshot' (updated daily, view dashboard) and 'External access summary - new' (info, external access findings help identify bucket permissions). The bottom navigation bar is identical to the one in the first screenshot.

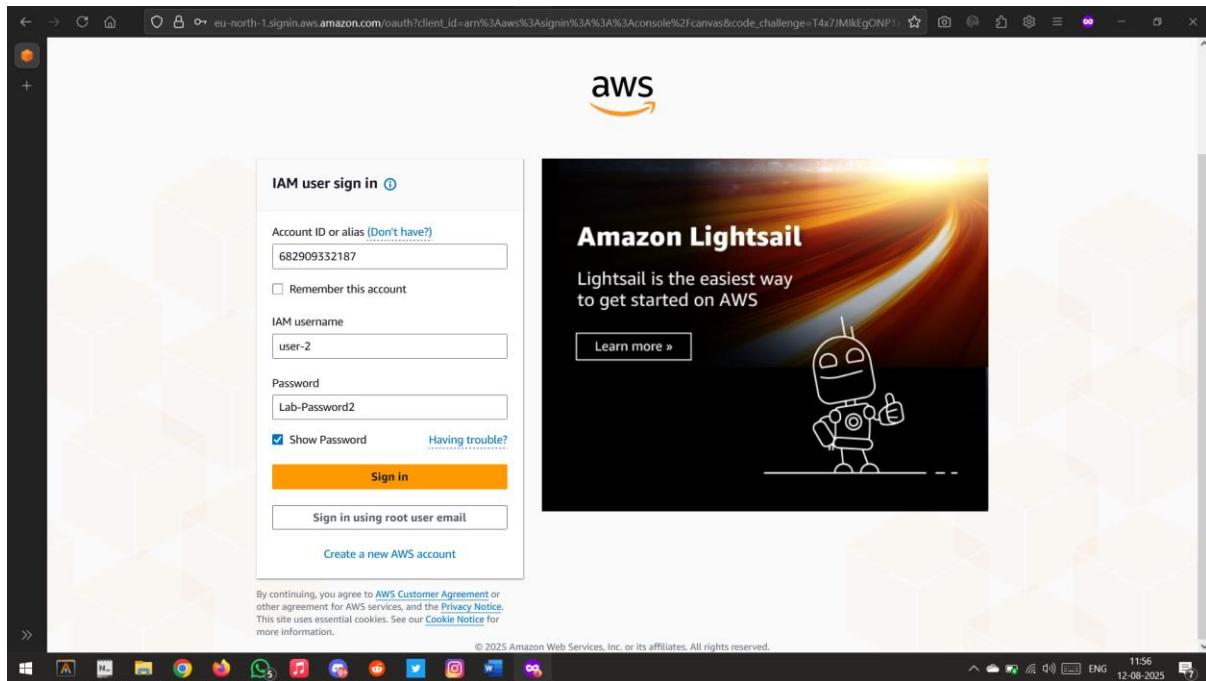
User-1 S3

The screenshot shows the AWS S3 console interface. The left sidebar has sections for General purpose buckets, Storage Lens, and Feature spotlight. The main area is titled "samplebucket--2283b850" and shows an "Objects (0)" section. It includes buttons for Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload. A message states, "Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)". Below this is a table header for Name, Type, Last modified, Size, and Storage class, followed by a message: "No objects. You don't have any objects in this bucket." An "Upload" button is at the bottom.

Sample bucket opened via user-1

The screenshot shows the AWS EC2 console interface. The left sidebar has sections for EC2, Instances, Images, Elastic Block Store, and Network & Security. The main area is titled "Instances" and shows an "Info" section. A message box says, "You are not authorized to perform this operation. User: arn:aws:iam::682909332187:user/spl66/user-1 is not authorized to perform: ec2:DescribeInstances because no identity-based policy allows the ec2:DescribeInstances action". Below this is a "Select an instance" section.

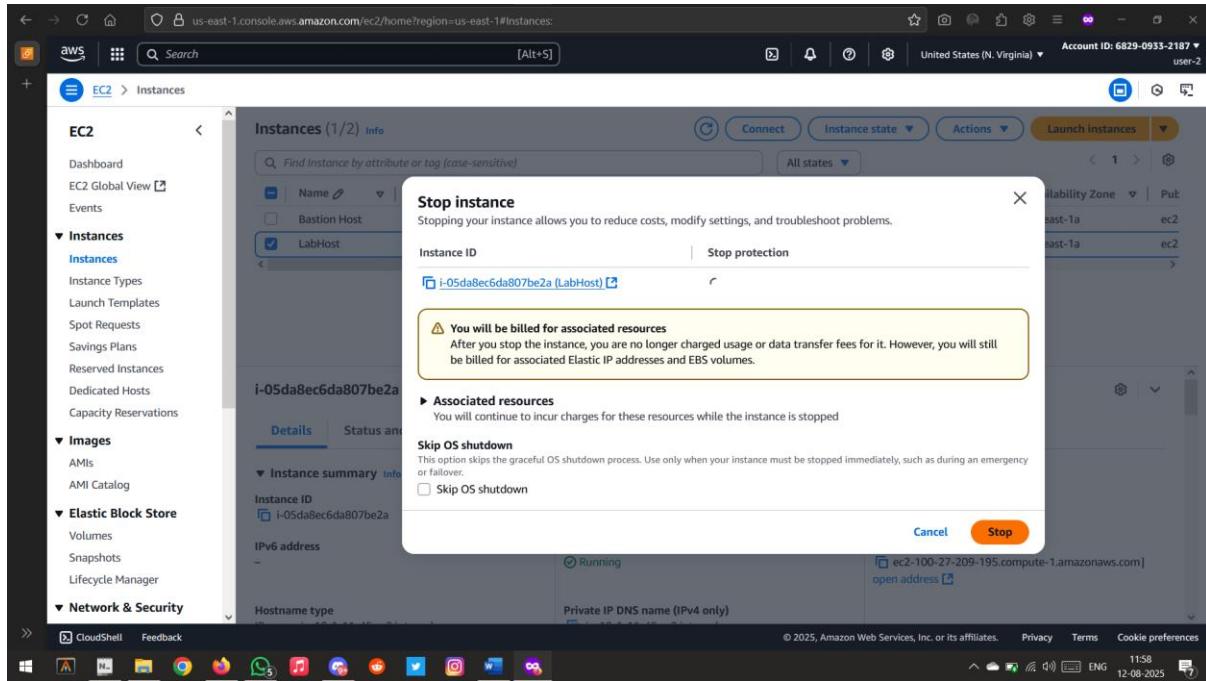
EC2 instances cannot be viewed via user-1



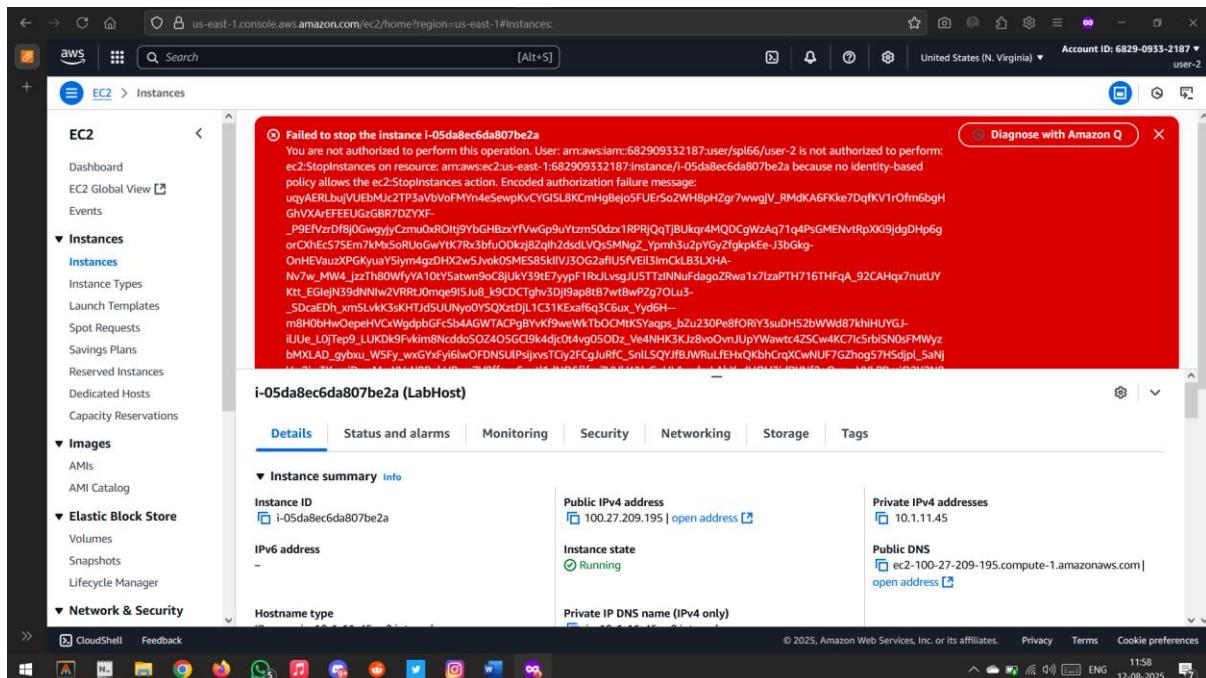
User-2 Login

A screenshot of the AWS EC2 Instances page. The URL is us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances. The sidebar shows navigation options like Dashboard, EC2 Global View, Events, Instances (selected), Images, Elastic Block Store, and Network & Security. The main content area shows a table of instances. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Put. Two instances are listed: "Bastion Host" (i-017712a695ed44461) and "LabHost" (i-05da8ec6da807be2a). Both instances are shown as "Running". The status check and alarm status are both "2/2 checks passed". The availability zone is "us-east-1a" and the instance type is "t2.micro". The status bar at the bottom shows the account ID (6829-0933-2187) and the user name (user-2).

EC2 instances via user-2



Stopping and EC2 Instance



Cannot stop since user-2 permissions

The screenshot shows the AWS S3 console landing page. The main heading is "Amazon S3" with the subtext "Store and retrieve any amount of data from anywhere". A brief description states: "Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance." To the right, there are three callout boxes: "Create a bucket" (with a "Create bucket" button), "Pricing" (mentioning no minimum fees), and "Resources" (link to "User guide"). Below these is a section titled "How it works" featuring a video thumbnail titled "Introduction to Amazon S3 | Amazon Web Services". The bottom of the page includes standard AWS navigation links like CloudShell, Feedback, and a cookie preferences link.

User-2 S3 page

The screenshot shows the AWS console home page for User-3. The top navigation bar indicates the region as "Europe (Stockholm)". The main dashboard features several cards: "Recently visited" (No recently visited services), "Applications" (0), "Cost and usage", "Welcome to AWS", and "AWS Health". The "Applications" card has a red box highlighting an error message: "Access denied to servicelogic:ListApplications" with a "Diagnose with Amazon Q" button. The bottom of the page includes standard AWS navigation links like CloudShell, Feedback, and a cookie preferences link.

Logged in as User-3

Successfully initiated stopping of i-05da8ec6da807be2a

Instances (1/2) Info

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Put |
|---|---------------------|----------------|---------------|-------------------|----------------|-------------------|-----|
| Bastion Host | i-017712a695ed44461 | Running | t2.micro | 2/2 checks passed | User: arm:aws: | us-east-1a | ec2 |
| <input checked="" type="checkbox"/> LabHost | i-05da8ec6da807be2a | Running | t2.micro | 2/2 checks passed | User: arm:aws: | us-east-1a | ec2 |

i-05da8ec6da807be2a (LabHost)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary

| Instance ID | Public IPv4 address | Private IPv4 addresses |
|---------------------|---------------------------------|---|
| i-05da8ec6da807be2a | 100.27.209.195 open address | 10.1.11.45 |
| IPv6 address | Instance state | Public DNS |
| - | Running | ec2-100-27-209-195.compute-1.amazonaws.com open address |
| Hostname type | Private IP DNS name (IPv4 only) | |

User-3 stopping an EC2 instance

Instances (2) Info

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Put |
|--------------------------|---------------------|----------------|---------------|-------------------|----------------|-------------------|-----|
| Bastion Host | i-017712a695ed44461 | Running | t2.micro | 2/2 checks passed | User: arm:aws: | us-east-1a | ec2 |
| <input type="checkbox"/> | i-05da8ec6da807be2a | Stopping | t2.micro | - | User: arm:aws: | us-east-1a | ec2 |

Select an instance

Stopping the instace

The screenshot shows the AWS EC2 Instances page. The left sidebar is collapsed. The main area displays a table of instances:

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Pub... |
|--------------|---------------------|----------------|---------------|-------------------|---------------------------|-------------------|--------|
| Bastion Host | i-017712a695ed44461 | Running | t2.micro | 2/2 checks passed | User: arm:aws: us-east-1a | us-east-1a | ec2... |
| LabHost | i-05da8ec6da807be2a | Stopped | t2.micro | - | User: arm:aws: us-east-1a | us-east-1a | - |

Below the table, a message says "Select an instance". The status bar at the bottom right shows "12:01 12-08-2025".

Instance Successfully Stopped

The screenshot shows the VoCareum lab interface. On the left, a sidebar lists tasks:

55. In the **Instance state** menu, choose **Stop instance**.
56. In the **Stop instance** window, choose **Stop**.
The instance will enter the *stopping* state and will shutdown.
57. Close your private browser window.

Submitting your work

58. To record your progress, choose **Submit** at the top of these instructions.
Important: Some of the checks made by the submission process in this lab will only give you credit if it has been at least 5 minutes since you completed the action. If you do not receive credit the first time you submit, you may need to wait a couple minutes and the submit again to receive credit for these items.
59. When prompted, choose **Yes**.
After a couple of minutes, the grades panel appears and shows you how many points you earned for each task. If the results don't display after a couple of minutes, choose **Grades** at the top of these instructions.

Tip: You can submit your work multiple times. After you change your work, choose **Submit** again. Your last submission is recorded for this lab.

The right side of the screen shows a "Grades" panel with the following table:

| Total score | 40/40 |
|---|-------|
| TASK 2a - Added user-1 to S3-Support group | 5/5 |
| TASK 2b - Added user-2 to EC2-Support group | 5/5 |
| TASK 2c - Added user-3 to EC2-Admin group | 5/5 |
| TASK 3a - user-1 logged in | 5/5 |
| TASK 3b - user-2 logged in | 5/5 |
| TASK 3c - user-2 ec2 stop instance attempt | 5/5 |
| TASK 3d - user-3 logged in | 5/5 |
| TASK 3e - user-3 EC2 stop instance attempt | 5/5 |

The status bar at the bottom right shows "12:09 12-08-2025".

Viewing Score

The screenshot shows a browser window for the Vocareum AWS lab. A modal dialog titled "Submission Report" is open, displaying the results of various tasks:

- Evaluating TASK 3a - user-1 logged in
Task 3a - Success! Evidence found that user-1 logged in.
- Evaluating TASK 3b - user-2 logged in
Task 3b - Success! Evidence found that user-2 logged in.
- Evaluating TASK 3c - user-2 EC2 stop instance attempt
Task 3c - Success! Evidence found that user-2 attempted to stop the LabHost instance.
- Evaluating TASK 3d - user-3 logged in
Task 3d - Success! Evidence found that user-3 logged in.
- Evaluating TASK 3e - user-3 EC2 stop instance attempt
Task 3e - Success! Evidence found that user-3 attempted to stop the LabHost instance.

Completed: 2025-08-11 23:38:53

Back in submit.sh...
end

60. To
? T
Provides in the submission report

Below the report, a "Lab complete" message is displayed:

Lab complete 🎓

Congratulations! You have completed the lab.

61. Choose **End Lab** at the top of this page, and then select **Yes** to confirm that you want to end the lab.

Windows taskbar icons are visible at the bottom.

Submission Report

The screenshot shows a browser window for the Vocareum AWS lab. A modal dialog asks if the user wants to end the lab:

Are you sure you want to end the lab?

If you choose yes, all the resources and data that have been configured in your AWS account will be permanently deleted.

Buttons: Yes (blue) and No (white)

Below the dialog, instructions and notes are provided:

61. Choose **End Lab** at the top of this page, and then select **Yes** to confirm that you want to end the lab.
A panel indicates that You may close this message box now...

62. Select the X in the top-right corner to close the panel.

Conclusion

Congratulations! You now have successfully:

- Explored pre-created IAM users and groups
- Inspected IAM policies as applied to the pre-created groups
- Followed a real-world scenario, adding users to groups with specific capabilities enabled
- Located and used the IAM sign-in URL
- Experimented with the effects of policies on service access

Windows taskbar icons are visible at the bottom.

Ending Lab