

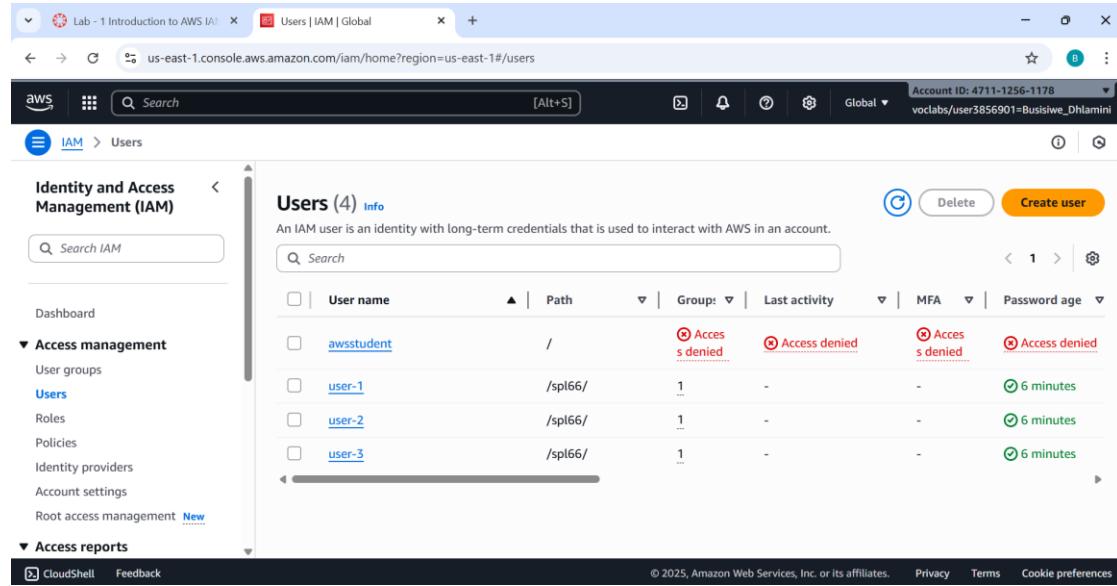
LOGBOOK

Lab 1: Introduction to AWS IAM

Task 1: Explore the Users and Groups

Task 2: Add Users to Groups

Task 3: Sign-In and Test Users



The screenshot shows the AWS IAM 'Users' page. The left sidebar has 'Identity and Access Management (IAM)' selected under 'Access management'. The main table lists four users:

User name	Path	Group	Last activity	MFA	Password age
awsstudent	/	Access denied	Access denied	-	Access denied
user-1	/spl66/	Access denied	-	-	6 minutes
user-2	/spl66/	Access denied	-	-	6 minutes
user-3	/spl66/	Access denied	-	-	6 minutes

At the bottom right of the table, there are links for 'CloudShell', 'Feedback', 'Privacy', 'Terms', and 'Cookie preferences'.

Busisiwe Dhlamini

The screenshot shows the AWS IAM User groups page. At the top, there is a green banner stating "1 user added to this group." Below this, the heading "User groups (3)" is displayed with an "Info" link. A sub-instruction below the heading says "A user group is a collection of IAM users. Use groups to specify permissions for a collection of users." There is a search bar and a pagination indicator showing page 1 of 1. A table lists three user groups:

Group name	Users	Permissions	Creation time
EC2-Admin	1	Defined	11 minutes ago
EC2-Support	1	Defined	11 minutes ago
S3-Support	1	Defined	11 minutes ago

At the bottom of the page, there are links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

Lab 2: Build your VPC and Launch a Web Server

Task 1: Create your VPC

Task 2: Create Additional Subnets

Task 3: Create a VPC Security Group

Task 4: Launch a Web Server Instance

The screenshot shows the AWS VPC console VPC dashboard. On the left, there is a sidebar with options like EC2 Global View, Filter by VPC, Virtual private cloud (Your VPCs, Subnets, Route tables, Internet gateways, Egress-only Internet gateways, Carrier gateways, DHCP option sets, Elastic IPs, Managed prefix lists, NAT gateways). The main area displays "Your VPCs (3) Info" with a search bar and a table. The table has columns: Name, VPC ID, State, Block Public..., and IPv4 CIDR. The data is as follows:

Name	VPC ID	State	Block Public...	IPv4 CIDR
Work VPC	vpc-06a3ach5bdc885b27	Available	Off	10.0.0.0/16
-	vpc-0e3533edb88c4a1f	Available	Off	172.31.0.0/16
lab-vpc	vpc-098a63fc9f06c206	Available	Off	10.0.0.0/16

Below the table, there is a section titled "Select a VPC above". At the bottom of the page, there are links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

Lab 3: Introduction to Amazon EC2

Task 1: Launch Your Amazon EC2 Instance

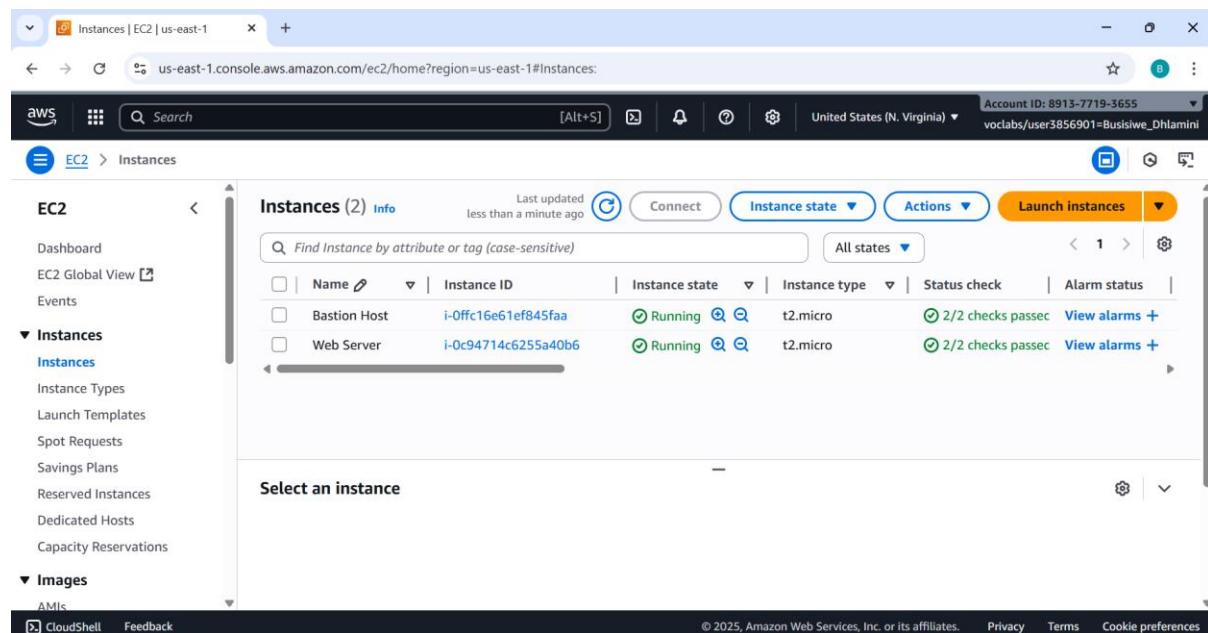
Task 2: Monitor Your Instance

Task 3: Update Your Security Group & Access Your Web Server

Task 4: Resize Your Instance: Instance Type & EBS Volume

Task 5: Explore EC2 Limits

Task 6: Test Stop Protection



Activity: AWS Lambda

- Task 1: Create a lambda function
- Task 2: Configure the trigger
- Task 3: Configure the Lambda function
- Task 4: Verify that the lambda function worked

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The screenshot shows the AWS Lambda console interface. At the top, there are tabs for 'Activity - AWS Lambda' and 'myStopinator | Functions | Lam'. The main content area displays the 'Function overview' for 'myStopinator'. The function icon is orange with a Lambda symbol. Below it, there's a 'Layers' section showing '(0)'. On the left, there are buttons for '+ Add trigger' and '+ Add destination'. On the right, there's a 'Description' field with a '-' sign, a 'Last modified' field showing '45 seconds ago', a 'Function ARN' field with the value 'arn:aws:lambda:us-east-1:637423516634:function:myStopinator', and a 'Function URL' field with a link. At the bottom, there are tabs for 'Code', 'Test', 'Monitor', 'Configuration', 'Aliases', and 'Versions'. The status bar at the bottom includes links for 'CloudShell', 'Feedback', '© 2025, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

Activity: AWS Elastic Beanstalk

Task 1: Access the Elastic Beanstalk environment

Task 2: Deploy a sample application to Elastic Beanstalk

Task 3: Explore the AWS Resources that support your application

The screenshot shows the AWS Elastic Beanstalk console. The title bar includes tabs for 'Activity - AWS Elastic Beanstalk', 'Environment overview - events', and 'Welcome'. The main content area features a large blue 'Congratulations' banner with the text 'Your first AWS Elastic Beanstalk Application is now running on your own dedicated environment in the AWS Cloud'. To the right, there's a 'What's Next?' section with a list of links: 'Learn how to build, deploy and manage your own applications using AWS Elastic Beanstalk', 'AWS Elastic Beanstalk concepts', 'Learn how to create new application versions', and 'Learn how to manage your application environments'. Below that is a 'Download the AWS Reference Application' section with a link 'Explore a fully-featured reference application using the AWS SDK for Java'. The final section is 'AWS Toolkit for Eclipse' with links: 'Developers may build and deploy AWS Elastic Beanstalk applications directly from Eclipse', 'Get started with Eclipse and AWS Elastic Beanstalk by watching this video', and 'View all AWS Elastic Beanstalk documentation'.

Lab 4: Working with EBS

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Task 1: Create a New EBS Volume

Task 2: Attach the Volume to an Instance

Task 3: Connect to Your Amazon EC2 Instance

Task 4: Create & Configure Your File System

Task 5: Create the Amazon EBS Snapshot

Task 6: Restore the Amazon EBS Snapshot

Name	Type	Size	IOPS	Throughput	Snapshot ID
My Volume	gp2	1 GiB	100	-	snap-0f9367e...
vol-0248fea523b6a39c0	gp3	8 GiB	3000	125	snap-0f9367e...
vol-09a888ee38c966d67	gp3	9 GiB	3000	125	snap-0f9367e...

Lab 5: Build Your DB Server and Interact with Your DB Using an App

Task 1: Create a Security Group for the RDS DB Instance

Task 2: Create a DB Subnet Group

Task 3: Create an Amazon RDS DB Instance

Task 4: Interact with Your Database

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The screenshot shows the AWS VPC console with the URL us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#SecurityGroup:groupId=sg-0af7775ee84997905. The page displays the details of a security group named "sg-0af7775ee84997905 - Web Security Group". Key information includes:

- Details:** Security group name: Web Security Group, Security group ID: sg-0af7775ee84997905, Description: Enable HTTP access, Owner: 975050282739, Inbound rules count: 2 Permission entries, Outbound rules count: 1 Permission entry.
- Inbound rules (2):** sgr-0abe2bb6e8817c82b, IP version: IPv4, Type: HTTP, Protocol: TCP.

Lab 6: Scale and Load Balance Your Architecture

Task 1: Create an AMI for Auto Scaling

Task 2: Create a Load Balancer

Task 3: Create a Launch Template & an Auto Scaling Group

Task 4: Verify that Load Balancing is working

Task 5: Test Auto Scaling

Task 6: Terminate Web Server 1

The screenshot shows the AWS EC2 Instances page with the URL us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:. The page displays the following information:

- EC2:** Currently creating AMI ami-0e7355304095e7b6f from Instance i-00fd1e71e586b7c9a. Check that the AMI status is 'Available' before deleting the instance or carrying out other actions related to this AMI.
- Instances (2):** Web Server 1 (i-00fd1e71e586b7c9a, t2.micro, Running, 2/2 checks passed) and Bastion Host (i-0d0eec1a2d2b2eee5, t2.micro, Running, 2/2 checks passed).
- Actions:** Connect, Instance state, Actions, Launch instances.