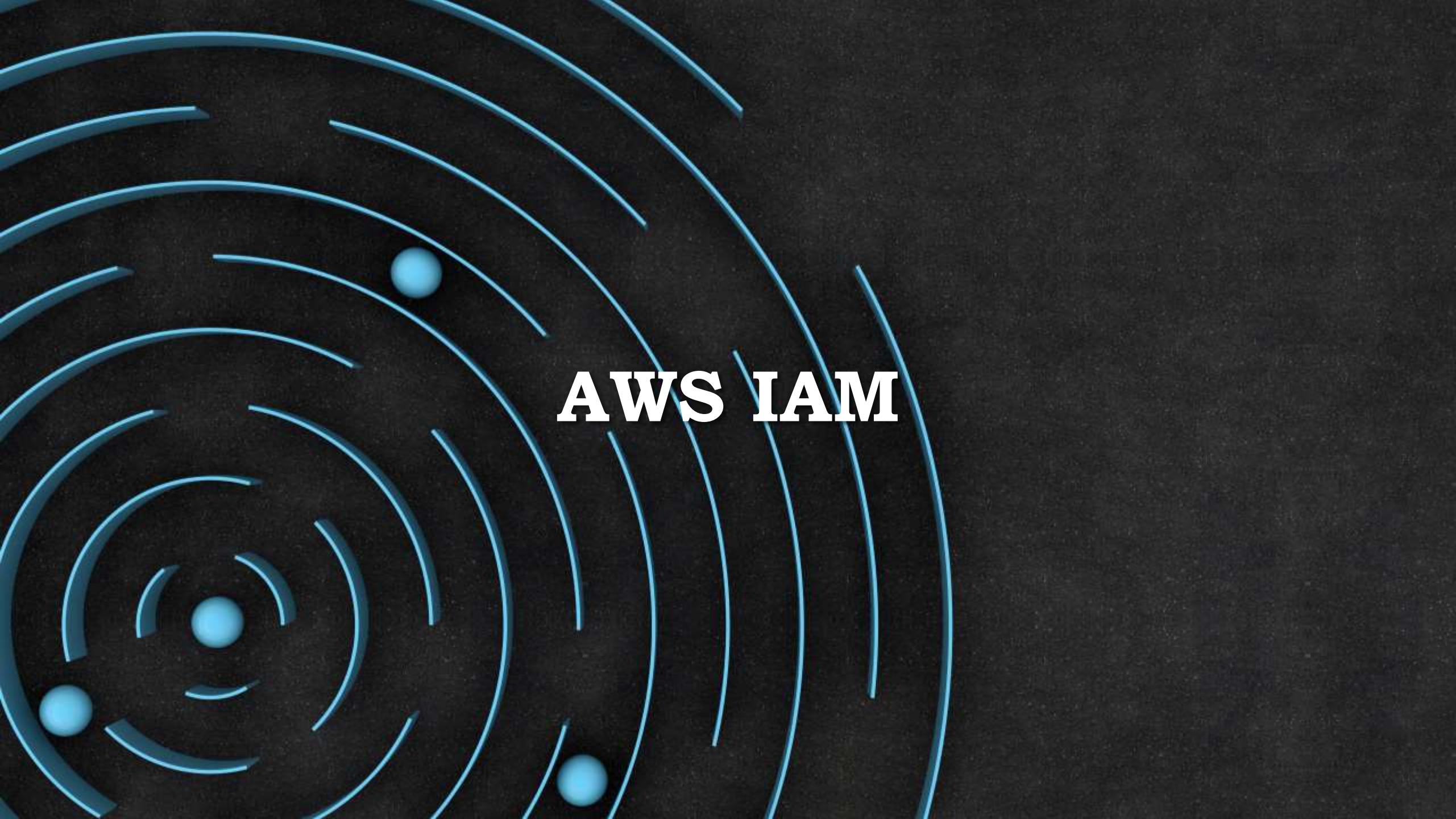


AMAZON WEB SERVICES

M.NAVYA SRI
20A31A05E8

The background features a dark gray gradient with a subtle noise texture. Overlaid on this are several thin, glowing blue arcs that radiate from the bottom center. Interspersed among these arcs are small, semi-transparent blue spheres of varying sizes.

AWS IAM

Step1: starting lab

The screenshot shows a Windows desktop environment with a browser window open to awsacademy.instructure.com/courses/37818/modules/items/3224381. The browser has three tabs: "Lab 1 - Introduction to AWS IAM" (active), "Lab 1 - Introduction to AWS IAM", and "(4) WhatsApp". The page title is "ACFv2EN-37818 | Modules | Module 4 - AWS IAM | Lab 1 - Introduction to AWS IAM". The left sidebar of the application includes links for Account, Dashboard, Courses, Calendar, Inbox, History, and Help. A modal dialog box titled "Start Lab" is displayed, containing the following information:

Region: us-east-1
Lab ID: arn:aws:cloudformation:us-east-1:615089242099:stack/c73982a150614713869049tlw615089242099/f91d2690-d22a-11ed-87c6-0e4bc29eaad5
Creation Time: 2023-04-03T07:22:33-0700

Start session at: 2023-04-03T07:22:33-0700
Remaining session time: 02:00:00(120 minutes)

Lab status: in creation

At the bottom of the dialog, it says: "In this task, you will explore the Users and Groups that..."

Navigation buttons at the bottom of the dialog are "Previous" and "Next". The system tray at the bottom right shows the date and time as 03-04-2023, 07:56 PM, and icons for battery, signal, and network.

Step2: search for IAM

The screenshot shows the AWS Management Console search results for the term 'iam'. The search bar at the top contains 'Q. iam'. The results are categorized into 'Services' and 'Features'.

Services (9)

- IAM** ☆ Manage access to AWS resources
- IAM Identity Center (successor to AWS Single Sign-On)** ☆ Manage workforce user access to multiple AWS accounts and cloud applications
- Resource Access Manager** ☆ Share AWS resources with other accounts or AWS Organizations
- Serverless Application Repository** ☆ Assemble, deploy, and share serverless applications within teams or publicly

See all 9 results ▶

Features (19)

- Groups** ☆ IAM feature
- Roles**

See all 19 results ▶

A sidebar on the right titled 'AWS' contains links such as 'Started with AWS', 'Find certification', and 'Learn with AWS?'. A tooltip in the bottom-left corner of the main search area says 'Introducing AWS CloudWatch Metrics Toolbar'.

Page footer: https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1 © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Step3: In access management click on user

The screenshot shows the AWS IAM Management Console interface. On the left, there is a navigation sidebar with the following sections:

- Identity and Access Management (IAM)** (selected)
- Dashboard
- Access management** (selected)
 - User groups
 - Users** (selected)
 - Roles
 - Policies
 - Identity providers
 - Account settings
- Access reports**
 - Access analyzer
 - Archive rules
 - Analyzers
 - Settings
- Credential report
- Organization activity

The main content area is titled "Users (4) Info". It contains a search bar labeled "Find users by username or access key" and a table with the following data:

User name	Groups	Last activity	MFA	Password age	Active key age
awsstudent	None	Never	None	None	-
user-1	None	Never	None	7 minutes ago	7 minutes ago
user-2	None	Never	None	7 minutes ago	7 minutes ago
user-3	None	Never	None	7 minutes ago	7 minutes ago

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

Step4: choose user-1 and click on groups

The screenshot shows the AWS IAM Management Console interface. The left sidebar is titled "Identity and Access Management (IAM)" and includes sections for "Access management" (User groups, Roles, Policies, Identity providers, Account settings), "Access reports" (Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity), and navigation links (CloudShell, Feedback, Language). The main content area shows the "user-1" details under the "Users" section. The "Summary" tab is selected, displaying the ARN (arn:aws:iam::615089242099:user/spl66/user-1), Console access (Enabled without MFA), and Access keys (Access key 1: AKIAY6NRM77ZEDXZNN4 - Active, Never used. Created today; Access key 2: Not enabled). Below the summary, tabs for "Permissions", "Groups" (which is currently selected), "Tags (1)", "Security credentials", and "Access Advisor" are visible. The "User groups membership (0)" section indicates that user-1 is not yet a member of any groups, with buttons for "Add user to groups" and "Remove". The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray.

Step5: choose user group at left side

The screenshot shows the AWS IAM Management Console interface. On the left, there is a navigation sidebar with the following sections:

- Identity and Access Management (IAM)**: Contains links for Search IAM, Dashboard, Access management (User groups, Users, Roles, Policies), Identity providers, Account settings, and Access reports (Access analyzer, Archive rules, Analyzers, Settings).
- Credential report**
- Organization activity**

The main content area is titled "User groups (3)" and includes a brief description: "A user group is a collection of IAM users. Use groups to specify permissions for a collection of users." Below this is a search bar labeled "Filter User groups by property or group name and press enter". A table displays three user groups:

Group name	Users	Permissions	Creation time
EC2-Admin	>Loading	>Loading	14 minutes ago
EC2-Support	>Loading	>Loading	14 minutes ago
S3-Support	>Loading	>Loading	14 minutes ago

At the top of the main content area, there are buttons for Refresh, Delete, and Create group. The browser's address bar shows the URL: us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/groups.

Step6: choose EC2 support and click on permissions

The screenshot shows the AWS IAM Management Console interface. The left sidebar is titled "Identity and Access Management (IAM)" and includes sections for Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers), and Access reports (Access analyzer, Archive rules, Analyzers, Settings). The "User groups" section is currently selected. The main content area shows the "EC2-Support" user group under "User groups > EC2-Support". The "Summary" tab is selected, displaying the group's name (EC2-Support), creation time (April 03, 2023, 19:53 (UTC+05:30)), and ARN (arn:aws:iam::615089242099:group/spl66/EC2-Support). Below the summary, there are tabs for "Users", "Permissions" (which is selected), and "Access Advisor". The "Permissions" tab shows "Permissions policies (1)" attached to the group. A table lists the policy: Policy name: AmazonEC2ReadOnlyAccess, Type: AWS managed, Description: Provides read only access to Ama. At the bottom of the page, the URL is https://us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#groups/details/EC2-Support?section=permissions, and the footer includes links for Privacy, Terms, and Cookie preferences.

Step7: choose user group and choose S3-Support

The screenshot shows the AWS IAM Management Console interface. The left sidebar is titled "Identity and Access Management (IAM)" and includes sections for "Access management" (User groups, Users, Roles, Policies, Identity providers, Account settings), "Access reports" (Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity), and navigation links (CloudShell, Feedback, Language). The main content area is titled "S3-Support" under "User groups > S3-Support". It displays the "Summary" of the user group, including the User group name (S3-Support), Creation time (April 03, 2023, 19:53 (UTC+05:30)), and ARN (arn:aws:iam::615089242099:group/spl66/S3-Support). Below the summary, there are tabs for "Users" (selected), "Permissions", and "Access Advisor". The "Users in this group (0)" section indicates that no users are currently assigned to this group. A search bar and filtering options for "User name", "Groups", "Last activity", and "Creation time" are present. The bottom of the screen shows the Windows taskbar with various pinned icons and system status.

Step8: choose permissions and click on + icon

The screenshot shows the AWS IAM Management Console interface. The left sidebar includes sections for Identity and Access Management (IAM), Access management (User groups, Users, Roles, Policies, Identity providers, Account settings), and Access reports (Access analyzer, Archive rules, Analyzers, Settings). The main content area is titled "Permissions policies (1)" and displays the "AmazonS3ReadOnlyAccess" policy. The policy details state: "Provides read only access to all buckets via the AWS Management Console." Below this, the JSON code for the policy is shown:

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

At the bottom of the page, there are links for CloudShell, Feedback, Language, and a footer with copyright information and navigation icons.

Step9: click on user groups and now click on EC2-Admin and click on permissions and again click on +

The screenshot shows the AWS IAM Management Console with the URL <https://us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/groups/details/EC2-Admin?section=permissions>. The left sidebar has 'User groups' selected under 'Access management'. The main panel displays the 'EC2-Admin' user group summary, including its creation time (April 03, 2023, 19:53 (UTC+05:30)) and ARN (arn:aws:iam::615089242099:group/spl66/EC2-Admin). The 'Permissions' tab is active, showing one managed policy named 'EC2-Admin-Policy' (Customer inline). The policy code is partially visible:

```
1+ {
2- "Version": "2012-10-17",
3- "Statement": [
4- ]
```

The bottom right corner of the screenshot shows the date and time: 08:13 PM 03-04-2023.

Step 10: click on S3-Support again and choose users tab and click on Add user

The screenshot shows the AWS IAM Management Console interface. The left sidebar is titled 'Identity and Access Management (IAM)' and includes sections for 'Access management' (User groups, Users, Roles, Policies, Identity providers, Account settings), 'Access reports' (Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity), and navigation links for CloudShell, Feedback, and Language.

The main content area is titled 'Add users to S3-Support' and shows a list of 'Other users in this account (4)'. The table columns are User name, Groups, Last activity, and Creation time. The users listed are awsstudent, user-1, user-2, and user-3, all of whom have 0 Groups, None last activity, and were created 22 minutes ago.

At the bottom right of the main content area are 'Cancel' and 'Add users' buttons.

The browser's address bar shows the URL: us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/groups/details/S3-Support/add-users.

The status bar at the bottom right shows the date and time: 03-04-2023 08:16 PM.

User name	Groups	Last activity	Creation time
awsstudent	0	None	22 minutes ago
user-1	0	None	23 minutes ago
user-2	0	None	23 minutes ago
user-3	0	None	23 minutes ago

Step11: choose user-1 and click on add users button

The screenshot shows the AWS IAM Management Console interface. On the left, there's a navigation sidebar with 'Identity and Access Management (IAM)' selected. Under 'Access management', 'User groups' is also selected. The main content area is titled 'Add users to S3-Support'. It displays a table of 'Other users in this account' with four rows: 'awsstudent', 'user-1' (which has a checked checkbox), 'user-2', and 'user-3'. The 'user-1' row is highlighted with a blue border. At the bottom right of the table are 'Cancel' and 'Add users' buttons.

User name	Groups	Last activity	Creation time
awsstudent	0	None	24 minutes ago
<input checked="" type="checkbox"/> user-1	0	None	24 minutes ago
<input type="checkbox"/> user-2	0	None	24 minutes ago
<input type="checkbox"/> user-3	0	None	24 minutes ago

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Step 12: users added to the group successfully

The screenshot shows the AWS IAM Management Console interface. On the left, the navigation pane is visible with sections like 'Identity and Access Management (IAM)', 'Access management' (selected), and 'Access reports'. Under 'Access management', 'User groups' is selected, showing a list of groups: 'S3-Support' (selected), 'Users', 'Roles', 'Policies', 'Identity providers', and 'Account settings'. The main content area displays the 'S3-Support' group details. A green header bar at the top of the content area says 'Users added to this group.' Below it, the breadcrumb navigation shows 'IAM > User groups > S3-Support'. The group name 'S3-Support' is displayed with a 'Delete' button. A 'Summary' section shows the group's creation time (April 03, 2023, 19:53 (UTC+05:30)) and ARN (arn:aws:iam::615089242099:group/spl66/S3-Support). Below this, there are tabs for 'Users' (selected), 'Permissions', and 'Access Advisor'. The 'Users in this group (1)' section lists a single user named 'user-1'. There are buttons for 'Remove users' and 'Add users'. At the bottom, there is a search bar and a table with columns: 'User name', 'Groups', 'Last activity', and 'Creation time'. The table shows one entry for 'user-1'. The bottom of the screen includes standard browser controls, a taskbar with various icons, and a system tray.

Identity and Access Management (IAM)

Search IAM

Dashboard

User groups (Selected)

Users

Roles

Policies

Identity providers

Account settings

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

CloudShell Feedback Language

https://www.awsacademy.com/vi... https://www.awsacademy.com/vi... IAM Management Console https://www.awsacademy.com/vi... https://www.awsacademy.com/vi...

us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/groups/details/S3-Support?section=users

KL ERP Meet - wyz-wkyw-v... GDB online Debug... Get Emoji — All... Outlook HTML, JavaScript, &... Play Chess Online ... New Tab Home - Chess.com Amazon Sign-In 65 Common Cambr...

Services Search [Alt+S] Global vodlabs/user2076333=mnsreddy252@gmail.com @ 6150-8924-2099

S3-Support

Delete Edit

Summary

User group name	Creation time	ARN
S3-Support	April 03, 2023, 19:53 (UTC+05:30)	arn:aws:iam::615089242099:group/spl66/S3-Support

Users in this group (1)

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

Search

User name	Groups	Last activity	Creation time
user-1	1	None	25 minutes ago

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Step 13: click on users group now click on EC2-Support and click on add users

(4) WhatsApp X https://www.awsacademy.com/v... X IAM Management Console X https://www.awsacademy.com/v... X

us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/groups/details/EC2-Support?section=users

KL ERP Meet - wyz-wkyw-v... GDB online Debug... Get Emoji — All... Outlook HTML, JavaScript, &... Play Chess Online New Tab Home - Chess.com Amazon Sign-in 65 Common Cambri...

aws Services Search [Alt+S] X ? Global voclabs/user2076333=mnsreddy25@gmail.com @ 6150-8924-2099

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

IAM > User groups > EC2-Support

EC2-Support

Delete Edit

Summary

User group name	Creation time	ARN
EC2-Support	April 03, 2023, 19:53 (UTC+05:30)	arn:aws:iam::615089242099:group/spl66/EC2-Support

Users Permissions Access Advisor

Users in this group (0)

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

Search

User name	Groups	Last activity	Creation time
No resources to display			

Remove users Add users

< 1 > ⌂

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ENG IN 08:20 PM 03-04-2023

Step14: select user2 and click on add users

The screenshot shows the AWS IAM Management Console interface. The left sidebar is titled "Identity and Access Management (IAM)" and includes sections for "Access management" (User groups, Users, Roles, Policies, Identity providers, Account settings) and "Access reports" (Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity). The main content area is titled "Add users to EC2-Support" and shows a list of "Other users in this account (Selected 1/4)". The list includes four users: awsstudent, user-1, user-2, and user-3. The "user-2" checkbox is checked, indicating it is selected for addition to the group. At the bottom right of the list are "Cancel" and "Add users" buttons.

User name	Groups	Last activity	Creation time
awsstudent	0	None	28 minutes ago
user-1	1	None	29 minutes ago
<input checked="" type="checkbox"/> user-2	0	None	29 minutes ago
user-3	0	None	29 minutes ago

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Step 15: user2 added successfully

The screenshot shows the AWS IAM Management Console interface. The left sidebar has 'Identity and Access Management (IAM)' selected. Under 'Access management', 'User groups' is selected, showing 'EC2-Support'. The main panel displays the 'EC2-Support' user group summary, including its name, creation time, and ARN. Below this, the 'Users' tab is selected, showing one user named 'user-2' added to the group. A green banner at the top indicates 'Users added to this group.'

Identity and Access Management (IAM)

Search IAM

Dashboard

User groups

Users

Roles

Policies

Identity providers

Account settings

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/groups/details/EC2-Support)section=users

IAM > User groups > EC2-Support

EC2-Support

Summary

User group name	Creation time	ARN
EC2-Support	April 03, 2023, 19:53 (UTC+05:30)	arn:aws:iam::615089242099:group/spl66/EC2-Support

Users Permissions Access Advisor

Users in this group (1)

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

User name	Groups	Last activity	Creation time
user-2	None	29 minutes ago	2023-04-03T14:53:00Z

CloudShell Feedback Language

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08:22 PM ENG IN 03-04-2023

Step 16: in EC2 admin choose user-3 and click on add users

Step17: user3 created successfully

The screenshot shows the AWS IAM Management Console interface. On the left, a sidebar menu is open under the 'Access management' section, specifically the 'User groups' tab. The main content area displays the details for the 'EC2-Admin' user group. At the top, a green banner states 'Users added to this group.' Below this, the navigation path is IAM > User groups > EC2-Admin. The group name 'EC2-Admin' is centered above a 'Summary' section. The summary table includes columns for 'User group name' (EC2-Admin), 'Creation time' (April 03, 2023, 19:53 (UTC+05:30)), and 'ARN' (arn:aws:iam::615089242099:group/spl66/EC2-Admin). Below the summary is a tab bar with 'Users' (selected), 'Permissions', and 'Access Advisor'. The 'Users in this group (1)' section shows a table with one entry: 'user-3'. The table has columns for 'User name' (user-3), 'Groups' (1), 'Last activity' (None), and 'Creation time' (34 minutes ago). Action buttons for 'Remove users' and 'Add users' are located at the top right of this section. The bottom of the page includes standard AWS footer links like CloudShell, Feedback, Language, and a copyright notice for 2023.

Step 18: create each user in each group name

The screenshot shows the AWS IAM Management Console interface. On the left, there is a navigation sidebar titled "Identity and Access Management (IAM)". Under "Access management", the "User groups" option is selected, which is highlighted in blue. Other options include "Users", "Roles", "Policies", "Identity providers", "Account settings", "Access analyzer", "Archive rules", "Analyzers", "Settings", "Credential report", and "Organization activity".

The main content area is titled "User groups (3) Info". It contains a brief description: "A user group is a collection of IAM users. Use groups to specify permissions for a collection of users." Below this is a search bar labeled "Filter User groups by property or group name and press enter". A table lists three user groups:

Group name	Users	Permissions	Creation time
EC2-Admin	1	↳ Loading	34 minutes ago
EC2-Support	1	↳ Loading	34 minutes ago
S3-Support	1	↳ Loading	34 minutes ago

At the top right of the main content area, there are buttons for "Create group", "Delete", and "Edit". The browser's address bar shows the URL: "https://us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#groups". The status bar at the bottom right shows the date and time: "03-04-2023 08:27 PM".

Step19: copy the sign-in url and paste it in new tab.

The screenshot shows the AWS IAM Management Console dashboard. The left sidebar includes sections for Identity and Access Management (IAM), Access management, Access reports, and IAM resources. The main area displays security recommendations, IAM resources (User groups: 3, Users: 4, Roles: 14, Policies: 1, Identity providers: 0), and a 'What's new' section. On the right, there is an 'AWS Account' summary and a 'Tools' section with links to Policy simulator and Web identity federation playground. A status bar at the bottom indicates the URL is https://615089242099.signin.aws.amazon.com/console and shows system icons like battery level and network status.

AWS Account

- Account ID: 615089242099
- Account Alias: 615089242099 Create

Sign-in URL Copied IAM users in this account

<https://615089242099.signin.aws.amazon.com/console>

Tools

- Policy simulator
- Web identity federation playground

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Step20: click on sign with credentials that they given in docx.

Amazon Web Services Sign-In

Sign in as IAM user

Account ID (12 digits) or account alias
615089242099

IAM user name
user-1

Password
.....

Remember this account

Sign in

Sign in using root user email

Forgot password?

THE OFFICIAL
AWS Merch Store

Buy your favorite AWS branded apparel, accessories, and more at our online store.

[Shop now »](#)

English ▾

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Search

File

Firefox

Play Chess Online

New Tab

Home - Chess.com

Amazon Sign-In

65 Common Cambr...

ENG IN

08:40 PM

03-04-2023

Step21: It shows like this

The screenshot shows the AWS Management Console home page for the region ap-southeast-2. The top navigation bar includes tabs for Services, Search, and a user profile. A sidebar on the left provides a service menu and a step-by-step guide for using the console. The main content area features a large cube icon and a message about no recently visited services. It also lists commonly visited services: IAM, EC2, S3, RDS, and Lambda. On the right, there's a "Welcome to AWS" section with links for getting started, training, and discovering new services. A modal window at the bottom left introduces AWS CloudShell. The bottom navigation bar includes links for CloudShell, Feedback, Language, and cookie preferences, along with system status icons.

AWS Management Console

ap-southeast-2.console.aws.amazon.com/console/home?region=ap-southeast-2#

Services Search [Alt+S]

Incognito

KLERP Meet - wyz-wkyw.v... GDB online Debug... Get Emoji — All... Outlook HTML, JavaScript, &... Play Chess Online... New Tab Home - Chess.com Amazon Sign-In 65 Common Cambr...

Sydney user-1 @ 6150-8924-2099

Service menu
You can access all AWS services here. There are sections for recently visited and you can save your favorite services too.

Step 1 of 2 Next

No recently visited services

Explore one of these commonly visited AWS services.

IAM EC2 S3 RDS Lambda

Introducing AWS CloudShell in the Console Toolbar

Get quick access to CloudShell while navigating throughout the AWS Management Console.

View all services

Cost and usage info

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Step22: in services choose s3

The screenshot shows the AWS Management Console search results for the query 's3'. The search bar at the top contains 's3'. On the left, a sidebar lists categories: Services (7), Features (19), Resources (New), Blogs (1,215), Documentation (16,155), Knowledge Articles (30), Tutorials (12), Events (26), and Marketplace (1,034). The main content area displays search results under 'Services' and 'Features'.

Services

- S3** ☆ Scalable Storage in the Cloud
Top features: Buckets, Access points, Batch Operations
- S3 Glacier** ☆ Archive Storage in the Cloud
- AWS Snow Family** ☆ Large Scale Data Transport
- AWS Transfer Family** ☆ Fully managed support for SFTP, FTPS and FTP

See all 7 results ▶

Features

- Amazon S3 File Gateway**
Storage Gateway feature

See all 19 results ▶

On the right side of the search results, there is a sidebar with the title 'AWS' and sections: 'Started with AWS', 'Fundamentals and find valuable', 'Find certification', 'AWS experts and advance your', 'View with AWS?', and 'View AWS services, features, and'. There is also a section titled 'Introducing AWS CloudFront'.

At the bottom of the page, there are links for CloudShell, Feedback, Language, © 2023, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, and Cookie preferences. The status bar at the bottom right shows the date '03-04-2023' and time '08:42 PM'.

Step23: click on created bucket

The screenshot shows the AWS S3 Management Console interface. The left sidebar has a 'Buckets' section with links for Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Block Public Access settings for this account, Storage Lens (Dashboards and AWS Organizations settings), Feature spotlight, and AWS Marketplace for S3. The main content area shows an 'Account snapshot' with a 'View Storage Lens dashboard' button. Below it is a 'Buckets (1)' section with a table. The table has columns: Name, AWS Region, Access, and Creation date. One row is listed: samplebucket--f91d2690, US East (N. Virginia) us-east-1, Objects can be public, April 3, 2023, 19:52:38 (UTC+05:30). Action buttons for Copy ARN, Empty, Delete, and Create bucket are at the top of the table. A search bar 'Find buckets by name' is also present.

Name	AWS Region	Access	Creation date
samplebucket--f91d2690	US East (N. Virginia) us-east-1	Objects can be public	April 3, 2023, 19:52:38 (UTC+05:30)

Step24: choose EC2 in search bar and click on instances at left side

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes tabs for 'Dashboard' (selected), 'EC2 Management', 'Compute', 'Logs', and 'Metrics'. The address bar shows the URL: <https://ap-southeast-2.console.aws.amazon.com/ec2/home?region=ap-southeast-2#Instances>. The left sidebar has sections like 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances' (selected), 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images' (selected), 'AMIs', 'AMI Catalog', and 'Elastic Block Store'. The main content area is titled 'Resources' and displays a grid of EC2 resources: Instances (running) 0, Auto Scaling Groups (API Error), Dedicated Hosts (API Error), Elastic IPs (API Error), Instances (API Error), Key pairs (API Error), Load balancers (API Error), Placement groups (API Error), Security groups (API Error), Snapshots (API Error), Volumes (API Error). Below this is a callout for Microsoft SQL Server Always On availability groups. To the right is the 'Account attributes' section with 'Supported platforms' (two errors: retrieving supported platforms and checking for a default VPC), 'Settings' (EBS encryption, Zones, EC2 Serial Console, Default credit specification, Console experiments), and an 'Explore AWS' section. The bottom status bar shows the URL again and the AWS logo.

Step25: click on sign out

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes tabs for Instances, Services, and Search, along with a keyboard shortcut [Alt+S]. The main content area displays the 'Instances' page with a search bar and filters for Name, Instance ID, Instance state, Instance type, Status check, and Alarm status. A message states: "You are not authorized to perform this operation." Below this, a section titled "Select an instance" is visible. On the left, a sidebar menu is open under the "Instances" heading, listing options like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, and Capacity Reservations. The right sidebar displays account information: Account ID: 6150-8924-2099, IAM user: user-1, and links for Account, Organization, Service Quotas, Billing Dashboard, Security credentials, and Settings. At the bottom right of the sidebar is a "Sign out" button. The browser's address bar shows the URL: https://ap-southeast-2.console.aws.amazon.com/ec2/logoutIdoLogout. The status bar at the bottom right shows the date and time: 03-04-2023 08:50 PM.

Step26: copy the URL again and login with new credentials that given in docx

The screenshot shows the AWS IAM Management Console dashboard. 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), and Access reports (Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity). The main content area is titled "IAM dashboard" and includes sections for "Security recommendations" (with two items: "Add MFA for root user" and "Update your access permissions for AWS Billing, Cost Management, and Account consoles"), "AWS Account" (Account ID: 615089242099, Account Alias: 615089242099, "Sign-in URL Copied" message with a link to https://615089242099.signin.aws.amazon.com/console), and "Tools" (Policy simulator, Web identity federation playground). The "IAM resources" section displays statistics: User groups (3), Users (4), Roles (14), Policies (1), and Identity providers (0). The bottom of the screen shows the Windows taskbar with various pinned icons.

IAM dashboard

Security recommendations

- Add MFA for root user**
Sign in as the root user (or contact your administrator) and register a multi-factor authentication (MFA) device for the root user to improve security for this account.
- Update your access permissions for AWS Billing, Cost Management, and Account consoles**
We are replacing the following IAM actions for Billing, Cost Management, and Account consoles with granular IAM actions: `aws-portal:ViewBilling`, `aws-portal:ModifyBilling`, `aws-portal:ViewAccount`, `aws-portal:ModifyAccount`, `aws-portal:ViewPaymentMethods`, `aws-portal:ModifyPaymentMethods`, `aws-portal:ViewUsage`, `purchase-orders:ViewPurchaseOrders`, and `purchase-orders:ModifyPurchaseOrders`. To ensure you don't lose access to AWS Billing, Cost Management, and Account console based features, update your existing IAM policies to include the new IAM actions before July 2023. Examples of features impacted include AWS Cost Explorer, AWS Budgets, Billing console, and more. For more information, please visit blog.

AWS Account

Account ID: 615089242099
Account Alias: 615089242099 [Create](#)

Sign-in URL Copied [IAM users in this account](https://615089242099.signin.aws.amazon.com/console)

<https://615089242099.signin.aws.amazon.com/console>

Tools

Policy simulator
The simulator evaluates the policies that you choose and determines the effective permissions for each of the actions that you specify.

Web identity federation playground
Authenticate yourself to any of the supported web identity providers, see the requests and responses, obtain a set of temporary security credentials,

IAM resources

User groups	Users	Roles	Policies	Identity providers
3	4	14	1	0

What's new

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Step27: choose EC2

The screenshot shows the AWS Management Console search results for the term 'ec2'. The search bar at the top contains 'ec2'. The results are categorized into 'Services' and 'Features'.

Services (12)

- EC2** ☆ Virtual Servers in the Cloud
- EC2 Image Builder** ☆ A managed service to automate build, customize and deploy OS images
- Amazon Inspector** ☆ Continual vulnerability management at scale
- AWS Firewall Manager** ☆ Central management of firewall rules

See all 12 results ▶

Features

- Dashboard** EC2 feature
- Limits**

See all 53 results ▶

AWS

- Started with AWS
- Find certification
- New with AWS?

Search results for 'ec2'

layout + Add widgets

CloudShell Feedback Language

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Cloud Shell Search New Tab Home - Chess.com Amazon Sign-In 65 Common Cambri... Sydney user-2 @ 6150-8924-2099

08:54 PM 03-04-2023 ENG IN WiFi 03-04-2023

Step28: click on the instances at left side

The screenshot shows the AWS Management Console interface for the EC2 service. The title bar reads "Instances | EC2 Management Con...". The main content area is titled "Instances" and displays a message: "No instances. You do not have any instances in this region." Below this message is a prominent "Launch instances" button. On the left side, there is a navigation sidebar with the following sections and items:

- New EC2 Experience** (checkbox)
- EC2 Dashboard**
- EC2 Global View**
- Events**
- Tags**
- Limits**
- Instances** (selected)
 - Instances** (selected)
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations
- Images**
 - AMIs
 - AMI Catalog
- Elastic Block Store**

The bottom of the screen shows the browser's address bar with the URL "https://ap-southeast-2.console.aws.amazon.com/ec2/home?region=ap-southeast-2#Instances" and the status bar with system information.

Step29: choose N.Virginia as location then you can see LabHost

The screenshot shows the AWS Management Console interface for the EC2 service. The browser address bar indicates the URL is `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:`. The AWS logo and services navigation bar are at the top. The main content area displays the 'Instances' section with the following details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Bastion Host	i-0c96d97afdd72e94b	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-3-237-60-73
LabHost	i-0d330c09f342dff3	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-3-231-33-21

A modal window titled 'Select an instance' is open, prompting the user to choose an instance to interact with. A tooltip for the CloudShell feature is also visible in the bottom-left corner.

At the bottom of the screen, the Windows taskbar is visible with various pinned icons and the system tray showing the date and time.

Step30: choose LabHost and click on stop instance

The screenshot shows the AWS Management Console with the EC2 Instances page open. There are two instances listed:

Name	Instance ID	Instance state	Instance type	Status
Bastion Host	i-0c96d97afdd72e94b	Running	t2.micro	2/2
LabHost	i-0d330c09f342dff3	Running	t2.micro	2/2

A context menu is open over the "LabHost" instance, with the "Actions" dropdown expanded. The "Stop instance" option is highlighted in orange.

Below the instances, the details for the selected instance (i-0d330c09f342dff3) are displayed:

Instance: i-0d330c09f342dff3 (LabHost)

Details	Security	Networking	Storage	Status checks	Monitoring	Tags
Instance summary						
Introducing AWS CloudShell in the Console Toolbar Get quick access to CloudShell while navigating throughout the AWS Management Console.	Public IPv4 address 3.231.33.215 open address	Private IPv4 addresses 10.1.11.6				
	Instance state Running	Public IPv4 DNS ec2-3-231-33-215.compute-1.amazonaws.com open address				
	Private IP DNS name (IPv4 only) ip-10-1-11-6.ec2.internal					

A tooltip for the CloudShell toolbar is visible on the left side of the instance details panel.

Step31: it shows an error while stoping error

AWS Management Console Instances | EC2 Management Con... + us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances: KL ERP Meet - wyz-wkyw-v... GDB online Debug... Get Emoji — All... Outlook HTML, JavaScript, &... Play Chess Online ... New Tab Home - Chess.com Amazon Sign-In 65 Common Cambr... Incognito Services Search [Alt+S] X New EC2 Experience Tell us what you think EC2 Dashboard EC2 Global View Events Tags Limits Instances Instances (1/2) Info Find instance by attribute or tag (case-sensitive) Instance: i-0d330c09f342dffe3 (LabHost) Details Security Networking Storage Status checks Monitoring Tags Introducing AWS CloudShell in the Console Toolbar Get quick access to CloudShell while navigating throughout the AWS Management Console. IP name: ip-10-1-11-6.ec2.internal OK Public IPv4 address 3.231.33.215 | open address Private IPv4 addresses 10.1.11.6 Instance state Running Public IPv4 DNS ec2-3-231-33-215.compute-1.amazonaws.com | open address Private IP DNS name (IPv4 only) ip-10-1-11-6.ec2.internal © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences CloudShell Feedback Language Search ENG IN 09:03 PM 03-04-2023

Failed to stop the instance i-0d330c09f342dffe3

You are not authorized to perform this operation. Encoded authorization failure message: J2YrW6ZKZMC7j9Fosv4K7SGx6RT4IUNVcQFN6fBWDP1OxuusxDVJ7_lZIW5GQ2Vsh9E6-v2XIVsVv36PsKhqqOrU0SHr8-MncocJt6LjQ0Fl8bKT678hvBpjmyzgaKpTP6n7tz8KkEK9_aO8zQzzLHWHjDSZjwhwrxJn6L-wbHBImqkUl4UMmihsqsDlFxfe56pBlmGW09SfQuoSSoknF38YzwRDwawR0Y7lqfu_BAFkY1Fsj0vwSbWZOcb9z-BX0iXEVmJQVWE9UnztdpbC94giJwKEUfYpoBo9yHTZ1lutMxEnvTR-X-BIGFkkIWivkjIEZ5V2ksDgc2GwKb7dTiuqzO-n5jqu1d7FGZRTMw4xChfFsvo1ao1H4O6xrOBmCLQagQTtPAyBnbsb43ul4d40os4voDCzvE89EGKVlmJoev6EEJMCDhc6J3hFO4VSGRN_U3y3sysFuRsqrF1L6oepEoE4L63MAleav9b49RCqqZjVjpGuCpa557HUMJkbO1R5T5S28WgG8FtoR0x0n38h_jheXn68OQ2-i6njd8GwN7a4FhZH0Y2H0mrkR5q6mf4qMljKqeKmt70NDBtBMhr_JCQJSFdpBLswM0Sz5kg-UJahQejc0vR7pk-oZqh4aZQ55X-0-aJvCHUoc0OwncZ_jKx4T2B2W5gu-9gMVTv_OEjj23LZPr6wgWNbDbNE09TvbUcgcaD4LjG5qc512q6aMPif78F2T7IUI_vR22xFBQdFkzcfrfrk1UA4v6lGi513tNOnEGAJM-GX336bZB-hEP_QBDwHAvtSBMDjenfpbzZeOP7gMEM8FRCmNPsoYMJ5jHb6Vp6vDtvtS2wW9kn3-4uFmrPQBx-INmCbktmqX_j8nl2ogjOlqLgLFWBSkWmy-RvTJCSi7dl1B2u-uLowQXgpTgsFEAjDEzT2KTwcSTFsyzCVKvx4b1u42IMbr98QFMXYOoDRU2YjGwvlKEmZY3PhJDCMRGR08op1nQ

Step32: click on sign up

The screenshot shows the AWS Management Console with the S3 Management Console tab selected. The URL in the address bar is <https://s3.console.aws.amazon.com/s3/buckets?region=us-east-1>. The browser's search bar contains [Alt+S]. The top navigation bar includes links for KL ERP, Meet - wyz-wlyw-v..., GDB online Debug..., Get Emoji — All..., Outlook, HTML, JavaScript, &..., Play Chess Online ..., New Tab, Home - Chess.com, Amazon Sign-In, and 65 Common Cambr... . The AWS Services menu is open, showing 'Amazon S3' as the selected service. The main content area displays the 'Amazon S3 > Buckets' page, which includes an 'Account snapshot' section and a 'Buckets' table. The table has columns for Name, AWS Region, Access, Creation date, and Settings. It shows 'No buckets' under all categories. A 'Create bucket' button is located at the bottom right of the table. On the far right, account details are shown: Account ID: 6150-8924-2099, IAM user: user-2. Below these are links for Account, Organization, Service Quotas, Billing Dashboard, and Security credentials. At the bottom right of the page are 'Switch role' and 'Sign out' buttons. A modal window titled 'Introducing AWS CloudShell in the Console Toolbar' is open in the bottom-left corner. It contains two items: 'Get quick access to CloudShell while navigating throughout the AWS Management Console.' and a 'OK' button. The status bar at the bottom shows the URL <https://s3.console.aws.amazon.com/s3/logoutId/logout>, along with copyright information for 2023, privacy, terms, cookie preferences, and system icons for ENG IN, 09:04 PM, and 03-04-2023.

Step33: Sign-in with new credentials details given and chooseEC2

The screenshot shows the AWS Management Console Home page. At the top, there are three tabs labeled "AWS Management Console" and a "New Incognito Tab". The main content area has two columns. The left column, titled "Recently visited", lists "EC2" and "S3". The right column, titled "Welcome to AWS", features three sections: "Getting started with AWS" (with a rocket icon), "Training and certification" (with a diploma icon), and "What's new with AWS?" (with a lightbulb icon). A tooltip at the bottom left introduces "AWS CloudShell" and its quick access through the toolbar. The footer includes links for "CloudShell", "Feedback", "Language", "© 2023, Amazon Web Services, Inc. or its affiliates.", "Privacy", "Terms", and "Cookie preferences". The system tray at the bottom right shows the date and time as "03-04-2023 09:07 PM".

Console Home [Info](#)

Recently visited [Info](#)

- [EC2](#)
- [S3](#)

Introducing AWS CloudShell in the Console Toolbar

Get quick access to CloudShell while navigating throughout the AWS Management Console.

View all services

Cost and usage [Info](#)

Reset to default layout [+ Add widgets](#)

Welcome to AWS

Getting started with AWS [Info](#)

Learn the fundamentals and find valuable information to get the most out of AWS.

Training and certification [Info](#)

Learn from AWS experts and advance your skills and knowledge.

What's new with AWS? [Info](#)

Discover new AWS services, features, and Regions.

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03-04-2023 09:07 PM ENG IN

Step34: choose Labhost and click on stop instance

The screenshot shows the AWS Management Console EC2 Instances page. There are two instances listed:

Name	Instance ID	Instance state	Instance type	Status
Bastion Host	i-0c96d97afdd72e94b	Running	t2.micro	2/2
LabHost	i-0d330c09f342dff3	Running	t2.micro	2/2

The "LabHost" instance is selected. On the right side, there is a "Actions" dropdown menu with the following options:

- Stop instance (highlighted)
- Start instance
- Reboot instance
- Hibernate instance
- Terminate instance

A modal window titled "Instance: i-0d330c09f342dff3 (LabHost)" is open, showing the instance summary. It includes fields for Public IPv4 address (3.231.33.215), Instance state (Running), Private IP DNS name (ip-10-1-11-6.ec2.internal), and Private IPv4 addresses (10.1.11.6). A tooltip for CloudShell is displayed in the bottom-left corner.

Page footer:

- CloudShell
- Feedback
- Language
- © 2023, Amazon Web Services, Inc. or its affiliates.
- Privacy
- Terms
- Cookie preferences

System tray icons:

- ENG IN
- 09:07 PM
- 03-04-2023

Step35: LabHost has been successfully stopped

The screenshot shows the AWS Management Console EC2 Instances page. At the top, a green banner displays the message "Successfully stopped i-0d330c09f342dff3". The main table lists two instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Bastion Host	i-0c96d97afdd72e94b	Running	t2.micro	2/2 checks passed	User: arn:aws:iam::123456789012:root	us-east-1a	ec2-3-237-60-73
LabHost	i-0d330c09f342dff3	Stopping	t2.micro	2/2 checks passed	User: arn:aws:iam::123456789012:root	us-east-1a	ec2-3-231-33-21

The left sidebar shows the navigation menu under the Instances section, with "Instances" selected. A tooltip for CloudShell is visible at the bottom left. The bottom right corner shows the system tray with the date and time.

VIRTUAL PRIVATE CLOUD

Lab-2 - Build your VPC and Launch EC2 Instances

VPC Management Console

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#Home:

KLERP Meet - wyz-wkyw-v... GDB online Debug... Get Emoji — All... Outlook HTML, JavaScript, & CSS Play Chess Online ... New Tab Home - Chess.com Amazon Sign-In 65 Common Cambri... N. Virginia vclabs/user2076333@mnsreddy252@gmail.com @ 6849-1428-7339

aws Services Search [Alt+S]

VPC dashboard X

EC2 Global View New

Filter by VPC: Select a VPC

Virtual private cloud

- Your VPCs New
- Subnets
- Route tables
- Internet gateways
- Egress-only internet gateways
- Carrier gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Security

Create VPC Launch EC2 Instances

Note: Your Instances will launch in the US East region.

Resources by Region Refresh Resources

You are using the following Amazon VPC resources

VPCs	US East 2	NAT Gateways	US East 0
Subnets	US East 7	VPC Peering Connections	US East 0
Route Tables	US East 3	Network ACLs	US East 2
Internet Gateways	US East 2	Security Groups	US East 3
Egress-only Internet Gateways	US East 0	Customer Gateways	US East 0
DHCP Option Sets	US East 1	Virtual Private Gateways	US East 0

Service Health

[View complete service health details](#)

Settings

Zones

Console Experiments

Additional Information

VPC Documentation

All VPC Resources

Forums

Report an Issue

AWS Network Manager

AWS Network Manager provides tools and features to help you manage and monitor your network on AWS. Network Manager makes it easier to perform connectivity management, network monitoring and troubleshooting, IP management, and network security and governance.

Get started with Network Manager

Site-to-Site VPN Connections

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ENG IN 11:09 PM 03-04-2023

Lab 2 - Build your VPC and Launch EC2 Instances

VPC Management Console

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpc:createMode=vpcWithResources

KL ERP Meet - wyz-wkyw-v... GDB online Debug... Get Emoji — All... Outlook HTML, JavaScript, & CSS Play Chess Online ... New Tab Home - Chess.com Amazon Sign-In 65 Common Cambr...

aws Services Search [Alt+S]

N. Virginia vclabs/user2076333=mnsreddy252@gmail.com @ 6849-1428-7339

VPC > Your VPCs > Create VPC

Create VPC Info

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances. Mouse over a resource to highlight the related resources.

VPC settings

Resources to create Info
Create only the VPC resource or the VPC and other networking resources.

VPC only VPC and more

Name tag auto-generation Info
Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.
 Auto-generate
project

IPv4 CIDR block Info
Determine the starting IP and the size of your VPC using CIDR notation.
10.0.0.0/16 65,536 IPs

IPv6 CIDR block Info
 No IPv6 CIDR block
 Amazon-provided IPv6 CIDR block

Preview

VPC Show details
Your AWS virtual network
project-vpc

Subnets (4)
Subnets within this VPC

- us-east-1a
 - project-subnet-public1-us-east-1a
 - project-subnet-private1-us-east-1a
- us-east-1b
 - project-subnet-public2-us-east-1b
 - project-subnet-private2-us-east-1b

Route tables (3)
Route network traffic to re

- project-rtb-public
- project-rtb-private1-us-east-1a
- project-rtb-private2-us-east-1b

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VPC settings

Resources to create [Info](#)

Create only the VPC resource or the VPC and other networking resources

VPC only

● VPC and more

Name tag auto-generation [Info](#)

Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.

Auto-generate

lab

IPv4 CIDR block [Info](#)

Determine the starting IP and the size of your VPC using CIDR notation

10.0.0.0/16

IPv6 CIDR block [Info](#)

• No IPv6 CIDR block

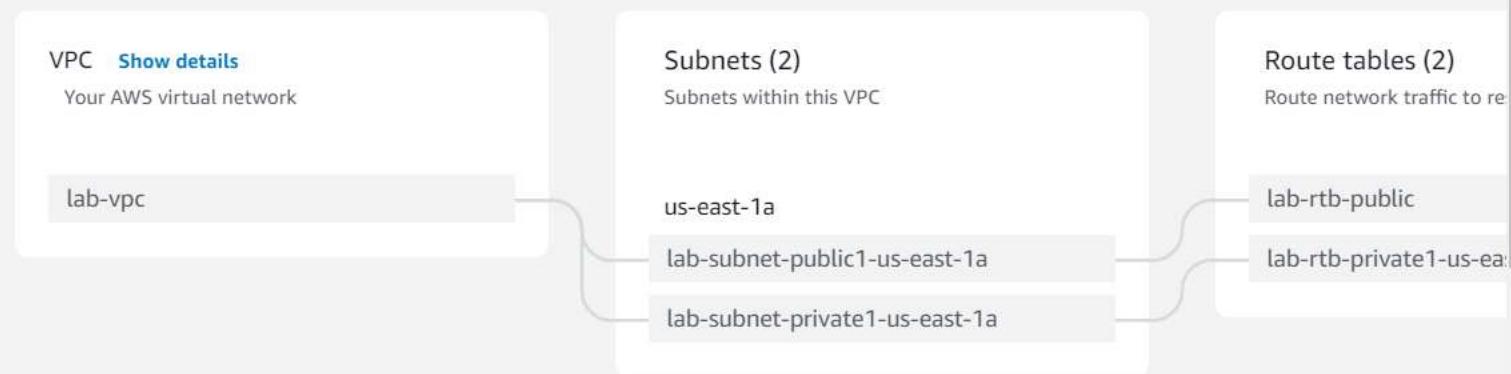
○ Amazon-provided IPv6 CIDR block

Tenancy Info

Default

Number of Availability Zones (AZs) [Info](#)

Preview



Lab 2 - Build your VPC and Launc X VPC Management Console + ↻ ⌂ ⌄ ⌁ ⌃ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#CreateVpc:createMode=vpcWithResources

KL ERP Meet - wyz-wkyw-v... GDB online Debug... Get Emoji — All... Outlook HTML, JavaScript, &... Play Chess Online -... New Tab Home - Chess.com Amazon Sign-In 65 Common Cambr... N. Virginia voclabs/user2076333=mnsreddy252@gmail.com @ 6849-1428-7339

AWS Services Search [Alt+S] 🌐 ⓘ N. Virginia N. Virginia

Number of Availability Zones (AZs) [Info](#)
Choose the number of AZs in which to provision subnets. We recommend at least two AZs for high availability.
 1 2 3

▶ Customize AZs

Number of public subnets [Info](#)
The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.
 0 1

Number of private subnets [Info](#)
The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.
 0 1 2

▼ Customize subnets CIDR blocks
Public subnet CIDR block in us-east-1a
10.0.0.0/24 256 IPs

Private subnet CIDR block in us-east-1a
10.0.1.0/24 256 IPs

NAT gateways (\$) [Info](#)
Choose the number of Availability Zones (AZs) in which to create NAT gateways.
Note that there is a charge for each NAT gateway

Preview

VPC [Show details](#)
Your AWS virtual network
lab-vpc

Subnets (2)
Subnets within this VPC
us-east-1a
lab-subnet-public1-us-east-1a
lab-subnet-private1-us-east-1a

Route tables (2)
Route network traffic to re
lab-rtb-public
lab-rtb-private1-us-ea

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NAT gateways (\$) [Info](#)

Choose the number of Availability Zones (AZs) in which to create NAT gateways. Note that there is a charge for each NAT gateway

None	In 1 AZ	1 per AZ
------	---------	----------

VPC endpoints [Info](#)

Endpoints can help reduce NAT gateway charges and improve security by accessing S3 directly from the VPC. By default, full access policy is used. You can customize this policy at any time.

None	S3 Gateway
------	------------

DNS options [Info](#)

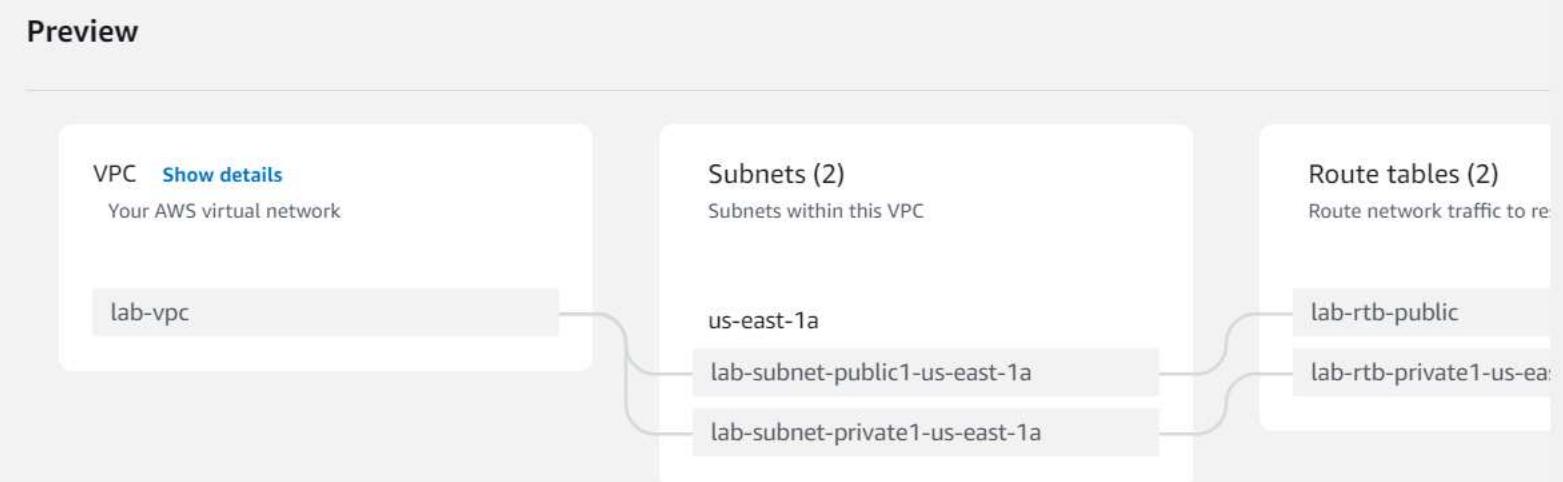
Enable DNS hostnames
 Enable DNS resolution

▼ **Additional tags**

Add tags to the VPC and all resources within the VPC. Do not set the Name tag here. Set the Name tag under Name tag auto-generation above or directly in the visualizer.

Add new tag

You can add 49 more tags.



Cancel

Create VPC

Success

▼ Details

- ✓ Create VPC: vpc-0399b05ea0da59681 [🔗](#)
 - ✓ Enable DNS hostnames
 - ✓ Enable DNS resolution
 - ✓ Verifying VPC creation: vpc-0399b05ea0da59681 [🔗](#)
 - ✓ Create subnet: subnet-04391bc52335bc724 [🔗](#)
 - ✓ Create subnet: subnet-07687eacd8e5acdcc [🔗](#)
 - ✓ Create internet gateway: igw-04afd1edb9268c98f [🔗](#)
 - ✓ Attach internet gateway to the VPC
 - ✓ Create route table: rtb-0ad266ebaac3d10cd [🔗](#)
 - ✓ Create route
 - ✓ Associate route table
 - ✓ Allocate elastic IP: eipalloc-0c8252424e4917617 [🔗](#)
 - ✓ Create NAT gateway: nat-02fccfc16ea482be8 [🔗](#)
 - ✓ Wait for NAT Gateways to activate
 - ✓ Create route table: rtb-0e0a933fe9d8438ab [🔗](#)
 - ✓ Create route
 - ✓ Associate route table
 - ✓ Verifying route table creation

View VPC

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

lab-subnet-public2

The name can be up to 256 characters long.

Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US East (N. Virginia) / us-east-1b

IPv4 CIDR block [Info](#)

© 10030/24

▼ Tags - optional

Key

Value - optional

© Name

Barbara

Add new tag

You can add 40 more tags

Remove

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

lab-subnet-private2

The name can be up to 256 characters long.

Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US East (N. Virginia) / us-east-1b

IPv4 CIDR block Info

Q 10030/24

▼ Tags - optional

Key

Value - optional

Q Name

X

Q lab-subnet-private?

Remove

Add new tag

You can add 49 more tags.

Remove

VPC > Route tables > rtb-0e0a933fe9d8438ab > Edit subnet association

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/4)

Filter subnet associations

-	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/>	lab-subnet-public2	subnet-05d020d8b457ec570	10.0.2.0/24	-	Main (rtb-02c85dd1e9e23823c)
<input checked="" type="checkbox"/>	lab-subnet-private1-us-east-1a	subnet-07687eadc8e5acdcc	10.0.1.0/24	-	rtb-0e0a933fe9d8438ab / lab-rtb-priv...
<input type="checkbox"/>	lab-subnet-public1-us-east-1a	subnet-04391bc52335bc724	10.0.0.0/24	-	rtb-0ad266ebaac3d10cd / lab-rtb-public
<input checked="" type="checkbox"/>	lab-subnet-private2	subnet-085f9bc08036df987	10.0.3.0/24	-	Main (rtb-02c85dd1e9e23823c)

Selected subnets

subnet-07687eacd8e5acdcc / lab-subnet-private1-us-east-1a

subnet-085f9bc08036df987 / lab-subnet-private? X

Cancel

Save associations

Lab 2 - Build your VPC and Launc x Route tables | VPC Management x + ↻ ⌂ ⌃ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋ ⌊ ⌋

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#RouteTables:

KL ERP Meet - wyz-wkyw-v... GDB online Debug... Get Emoji — All... Outlook HTML, JavaScript, &... Play Chess Online -... New Tab Home - Chess.com Amazon Sign-In 65 Common Cambr... N. Virginia voclabs/user2076333=mnsreddy252@gmail.com @ 6849-1428-7339

VPC dashboard EC2 Global View [New] Filter by VPC: Select a VPC Virtual private cloud Your VPCs New Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security CloudShell Feedback Language

[Alt+S]

You have successfully updated subnet associations for rtb-0e0a933fe9d8438ab / lab-rtb-private1-us-east-1a.

Route tables (1/6) Info Filter route tables Actions Create route table

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Ov...
lab-rtb-public	rtb-0ad266ebaac3d10cd	subnet-04391bc52335b...	-	No	vpc-0399b05ea0da59681 lab...	68...
Work Public Route ...	rtb-0cbc1d33808078191	subnet-0cb30fe277da8...	-	No	vpc-02e92a5045cb098a0 Wo...	68...
-	rtb-02c85dd1e9e23823c	-	-	Yes	vpc-0399b05ea0da59681 lab...	68...
-	rtb-04aabc690195fef10	-	-	Yes	vpc-02e92a5045cb098a0 Wo...	68...
-	rtb-0c9cfced0afce6930	-	-	Yes	vpc-0ad8547162cf98ee1	68...
lab-rtb-private1-us...	rtb-0e0a933fe9d8438ab	2 subnets	-	No	vpc-0399b05ea0da59681 lab...	68...

rtb-0ad266ebaac3d10cd / lab-rtb-public

Details Routes Subnet associations Edge associations Route propagation Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

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VPC > Route tables > rtb-0ad266ebaac3d10cd > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/4)

Filter subnet associations

	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input checked="" type="checkbox"/>	lab-subnet-public2	subnet-05d020d8b457ec570	10.0.2.0/24	-	Main (rtb-02c85dd1e9e23823c)
<input type="checkbox"/>	lab-subnet-private1-us-east-1a	subnet-07687eadc8e5acdcc	10.0.1.0/24	-	rtb-0e0a933fe9d8438ab / lab-rtb-priv...
<input checked="" type="checkbox"/>	lab-subnet-public1-us-east-1a	subnet-04391bc52335bc724	10.0.0.0/24	-	rtb-0ad266ebaac3d10cd / lab-rtb-public
<input type="checkbox"/>	lab-subnet-private2	subnet-085f9bc08036df987	10.0.3.0/24	-	rtb-0e0a933fe9d8438ab / lab-rtb-priv...

Selected subnets

subnet-04391bc52335bc724 / lab-subnet-public1-us-east-1a >

subnet-05d020d8b457ec570 / lab-subnet-public2 X

Cancel

Save associations

 You have successfully updated subnet associations for rtb-0ad266ebaac3d10cd / lab-rtb-public.

Route tables (6) Info

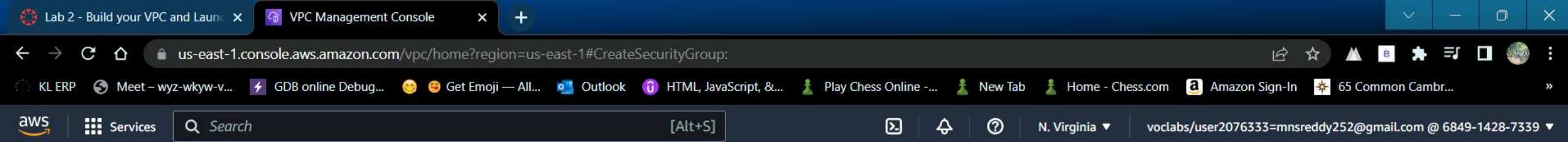
G

Actions ▼

Create route table

	Name	Route table ID	Explicit subnet associations	Edge associations	Main	VPC	Owner
<input type="checkbox"/>	lab-rtb-public	rtb-0ad266ebaac3d10cd	2 subnets	-	No	vpc-0399b05ea0da59681 lab...	68...
<input type="checkbox"/>	Work Public Route ...	rtb-0cbc1d33808078191	subnet-0cb30fe277da8...	-	No	vpc-02e92a5045cb098a0 Wo...	68...
<input type="checkbox"/>	-	rtb-02c85dd1e9e23823c	-	-	Yes	vpc-0399b05ea0da59681 lab...	68...
<input type="checkbox"/>	-	rtb-04aabbc690195fef10	-	-	Yes	vpc-02e92a5045cb098a0 Wo...	68...
<input type="checkbox"/>	-	rtb-0c9cfced0afce6930	-	-	Yes	vpc-0ad8547162cf98ee1	68...
<input type="checkbox"/>	lab-rtb-private1-us...	rtb-0e0a933fe9d8438ab	2 subnets	-	No	vpc-0399b05ea0da59681 lab...	68...

Select a route table



Create security group [Info](#)

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name [Info](#)

Name cannot be edited after creation.

Description [Info](#)

VPC [Info](#)

 X

Inbound rules [Info](#)

Type [Info](#)

Protocol [Info](#)

Port range [Info](#)

Source [Info](#)

 X

Description - optional [Info](#)



Lab 2 - Build your VPC and Laun VPC Management Console + us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#SecurityGroup:groupId=sg-0dabff752e7e52db1 KL ERP Meet - wyz-wkyw-v... GDB online Debug... Get Emoji — All... Outlook HTML, JavaScript, &... Play Chess Online -... New Tab Home - Chess.com Amazon Sign-In 65 Common Cambr... N. Virginia voclabs/user2076333=mnsreddy252@gmail.com @ 6849-1428-7339

VPC dashboard EC2 Global View [New] Filter by VPC: Select a VPC Virtual private cloud Your VPCs New Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security CloudShell Feedback Language

Search [Alt+S]

✓ Security group (sg-0dabff752e7e52db1 | Web Security Group) was created successfully

► Details

VPC > Security Groups > sg-0dabff752e7e52db1 - Web Security Group

sg-0dabff752e7e52db1 - Web Security Group

Actions ▾

Details			
Security group name	Security group ID	Description	VPC ID
Web Security Group	sg-0dabff752e7e52db1	Enable HTTP access	vpc-0399b05ea0da59681
Owner	Inbound rules count	Outbound rules count	
684914287339	1 Permission entry	1 Permission entry	

Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Inbound rules (1/1)

C Manage tags Edit inbound rules

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Lab 2 - Build your VPC and Launc X VPC Management Console + ↻ ⌂ ⌄ ⌁ ⌃ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋

us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#SecurityGroup:groupId=sg-0dabff752e7e52db1

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VPC dashboard EC2 Global View Filter by VPC: Select a VPC Virtual private cloud Your VPCs Documentation (26,835) Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security CloudShell Feedback Language

Services (12) Features (53) Resources New Blogs (1,935) EC2 Image Builder Knowledge Articles (30) Tutorials (20) Events (30) Marketplace (2,298)

Search results for 'ec2'

Services See all 12 results ►

- EC2** ☆ Virtual Servers in the Cloud
- EC2 Image Builder** ☆ A managed service to automate build, customize and deploy OS images
- Amazon Inspector** ☆ Continual vulnerability management at scale
- AWS Firewall Manager** ☆ Central management of firewall rules

Features See all 53 results ►

- Dashboard** EC2 feature
- Limits**

Actions ▾

VPC ID Run Reachability Analyzer

Inbound Rules (1 / 1) Manage tags Edit inbound rules

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CloudShell Feedback Language

Search ⌂ ⌄ ⌁ ⌃ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋

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The screenshot shows the AWS EC2 Dashboard. On the left, a sidebar lists navigation options like New EC2 Experience, EC2 Dashboard, Instances, and Images. The main area displays metrics for running instances, Auto Scaling Groups (with an API Error), Dedicated Hosts, Key pairs, and Security groups. A central callout box promotes the AWS Launch Wizard for Microsoft SQL Server. Below this are two main sections: 'Launch instance' (with 'Launch instance' and 'Migrate a server' buttons) and 'Service health' (showing the service is operating normally). To the right, a sidebar provides links to VPC, Default VPC, Settings, EBS encryption, Zones, EC2 Serial Console, Default credit specification, and Console experiments. Another sidebar on the far right offers promotions for EC2 spot instances and GuardDuty protection.

New EC2 Experience X

Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs

AMI Catalog

Search [Alt+S] X ? N. Virginia ▼

Instances (running) 1 Auto Scaling Groups ✖ API Error Dedicated Hosts 0

Elastic IPs 2 Instances 1 Key pairs 1

Load balancers ✖ API Error Placement groups 0 Security groups 5

Snapshots 0 Volumes 1

ⓘ Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#) X

Launch instance

Launch instance Launch instance Launch instance from template Launch instance ▲

Migrate a server Migrate a server

Note: Your instances will launch in the US East (N. Virginia) Region

Service health

G [AWS Health Dashboard](#) G

Region
US East (N. Virginia)

Status
 ⓘ This service is operating normally

Zones

Zone name	Zone ID

Explore AWS

Save up to 90% on EC2 with Spot Instances
Optimize price-performance by combining EC2 purchase options in a single EC2 ASG. [Learn more](#) ✖

Amazon GuardDuty Malware Protection
GuardDuty now provides agentless malware detection in Amazon EC2 & EC2 container workloads. [Learn more](#) ✖

Enable Best Price-Performance with AWS Graviton2
AWS Graviton2 powered EC2 instances enable up to 40% better price performance for a broad spectrum of

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Lab 2 - Build your VPC and Launc X Launch an instance | EC2 Manage X

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

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Services Search [Alt+S] N. Virginia voclabs/user2076333=mnsreddy252@gmail.com @ 6849-1428-7339

Network settings

VPC - required Info
vpc-0399b05ea0da59681 (lab-vpc)
10.0.0.0/16

Subnet Info
subnet-05d020d8b457ec570 lab-subnet-public2
VPC: vpc-0399b05ea0da59681 Owner: 684914287339 Availability Zone: us-east-1b IP addresses available: 251 CIDR: 10.0.2.0/24

Create new subnet

Auto-assign public IP Info
Enable

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
 Create security group Select existing security group

Common security groups Info
Select security groups
Web Security Group sg-0dabff752e7e52db1 X
VPC: vpc-0399b05ea0da59681

Compare security group rules

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.0.2...read more ami-0c39f71452c08778

Virtual server type (instance type)
t2.micro

Firewall (security group)
Web Security Group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the

Cancel Launch instance Review commands

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Q Search

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Lab 2 - Build your VPC and Launc X Launch an instance | EC2 Manage X

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

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Metadata response hop limit [Info](#)
Select

Allow tags in metadata [Info](#)
Select

User data - optional [Info](#)
Enter user data in the field.

```
#!/bin/bash
# Install Apache Web Server and PHP
sudo dnf install -y httpd wget php mariadb105-server
# Download Lab files
wget https://aws-tc-largeobjects.s3.us-west-2.amazonaws.com/CUR-TF-100-ACCLFO-2-9026/2-lab2-vpc/s3/lab-app.zip
unzip lab-app.zip -d /var/www/html/
# Turn on web server
chkconfig httpd on
service httpd start
```

User data has already been base64 encoded

▼ Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.0.2...[read more](#)
ami-00c39f71452c08778

Virtual server type (instance type)
t2.micro

Firewall (security group)
Web Security Group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the

Cancel **Launch instance** **Review commands**

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

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New EC2 Experience Tell us what you think

EC2 Instances Launch an instance

Success
Successfully initiated launch of instance ([i-0542285c8177c230f](#))
[▶ Launch log](#)

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup" 1 2 3 4 5 6 >

Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)

Connect to your instance
Once your instance is running, log into it from your local computer.
[Connect to instance](#) [Learn more](#)

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#) [Create a new RDS database](#)

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
[Create EBS snapshot policy](#)

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

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New EC2 Experience Tell us what you think

Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Web Server 1	i-0542285c8177c230f	Running	t2.micro	Initializing	No alarms	us-east-1b	ec2-54-145-5-28

Instance: i-0542285c8177c230f (Web Server 1)

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0542285c8177c230f (Web Server 1)	54.145.5.28 open address	Public IPv4 DNS copied
IPv6 address	Instance state	ec2-54-145-5-28.compute-1.amazonaws.com open address
-	Running	
Hostname type	Private IP DNS name (IPv4 only)	
IP name: ip-10-0-2-100.ec2.internal	ip-10-0-2-100.ec2.internal	

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Search



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Not secure | ec2-54-145-5-28.compute-1.amazonaws.com

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aws Load Test RDS

Meta-Data	Value
InstanceId	
Availability Zone	

Current CPU Load: 1%

Windows taskbar icons: Search, File Explorer, Firefox, Google Chrome, Microsoft Edge, Task View, Volume, Network, Battery, and Date/Time (11:55 PM, 03-04-2023).

AWS ELASTIC BEANSTALK

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

New EC2 Experience Tell us what you think

EC2 Dashboard
EC2 Global View
Events
Tags
Limits

Instances

Instances

Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances

Select an instance

Introducing AWS CloudShell in the Console Toolbar
Get quick access to CloudShell while navigating throughout the AWS Management Console.

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	
<input type="checkbox"/>	Bastion Host	i-03a7b9dcc0ed5e292	Running	t2.micro	2/2 checks passed	No alarms	<input data-bbox="2010 453 2048 475" type="button" value="+"/>	us-east-1a	ec2-44-201-36-1
<input type="checkbox"/>	Lab	i-0014cf04374dd86f6	Running	t2.micro	2/2 checks passed	No alarms	<input data-bbox="2010 511 2048 532" type="button" value="+"/>	us-east-1a	ec2-44-212-221-

CloudShell Feedback Language

Volumes (2)											<input type="button" value="C"/>	<input type="button" value="Actions ▾"/>	<input type="button" value="Create volume"/>				
											<input type="button" value="Search"/>	<	1	>	<input type="button" value="⚙"/>		
	Name	▼	Volume ID	▼	Type	▼	Size	▼	IOPS	▼	Throughput	▼	Snapshot	▼	Created	▼	Available
<input type="checkbox"/>	-		vol-082d285167dc2ccf1		gp2		8 GiB		100		-		snap-016944d...		2023/04/04 00:12 GMT+5:...		us-east-1
<input type="checkbox"/>	-		vol-0e2042bf2267a8249		gp2		8 GiB		100		-		snap-016944d...		2023/04/04 00:14 GMT+5:...		us-east-1

Select a volume above



Lab 4 - Working with EBS Create volume | EC2 Management

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateVolume:

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100 / 3000
Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

Throughput (MiB/s) [Info](#)
Not applicable

Availability Zone [Info](#)
us-east-1a

Snapshot ID - optional [Info](#)
Don't create volume from a snapshot [C](#)

Encryption [Info](#)
Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.
 Encrypt this volume

Tags - optional [Info](#)
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key [Use "My Volume"](#)
Name [X](#) My Volume [X](#) Remove
Add tag
You can add 49 more tags

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Search Outlook Google Chrome Microsoft Edge Firefox Internet Explorer ENG IN 12:28 AM 04-04-2023

Lab 4 - Working with EBS X Volumes | EC2 Management Con: + ↻ ⌂ ⌃ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋ ⌊ ⌋

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes:

KL ERP Meet - wyz-wkyw-v... GDB online Debug... Get Emoji — All... Outlook HTML, JavaScript, &... Play Chess Online -... New Tab Home - Chess.com Amazon Sign-In 65 Common Cambr... N. Virginia voclabs/user2076333=mnsreddy252@gmail.com @ 4127-5313-5747

AWS Services Search [Alt+S] X

New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events Tags Limits Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations Images AMIs AMI Catalog

Successfully created volume [vol-05f0b354c83972f75](#).

Volumes (3)

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Available
<input type="checkbox"/>	-	vol-082d285167dc2ccf1	gp2	8 GiB	100	-	snap-016944d...	2023/04/04 00:12 GMT+5:...	us-east
<input type="checkbox"/>	-	vol-0e2042bf2267a8249	gp2	8 GiB	100	-	snap-016944d...	2023/04/04 00:14 GMT+5:...	us-east
<input type="checkbox"/>	My Volume	vol-05f0b354c83972f75	gp2	1 GiB	100	-	-	2023/04/04 00:28 GMT+5:...	us-east

Select a volume above

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Basic details

Volume ID

 vol-05f0b354c83972f75 (My Volume)

Availability Zone

us-east-1a

Instance Info

i-0014cf04374dd86f6

3

Only instances in the same Availability Zone as the selected volume are displayed.

Device name [Info](#)

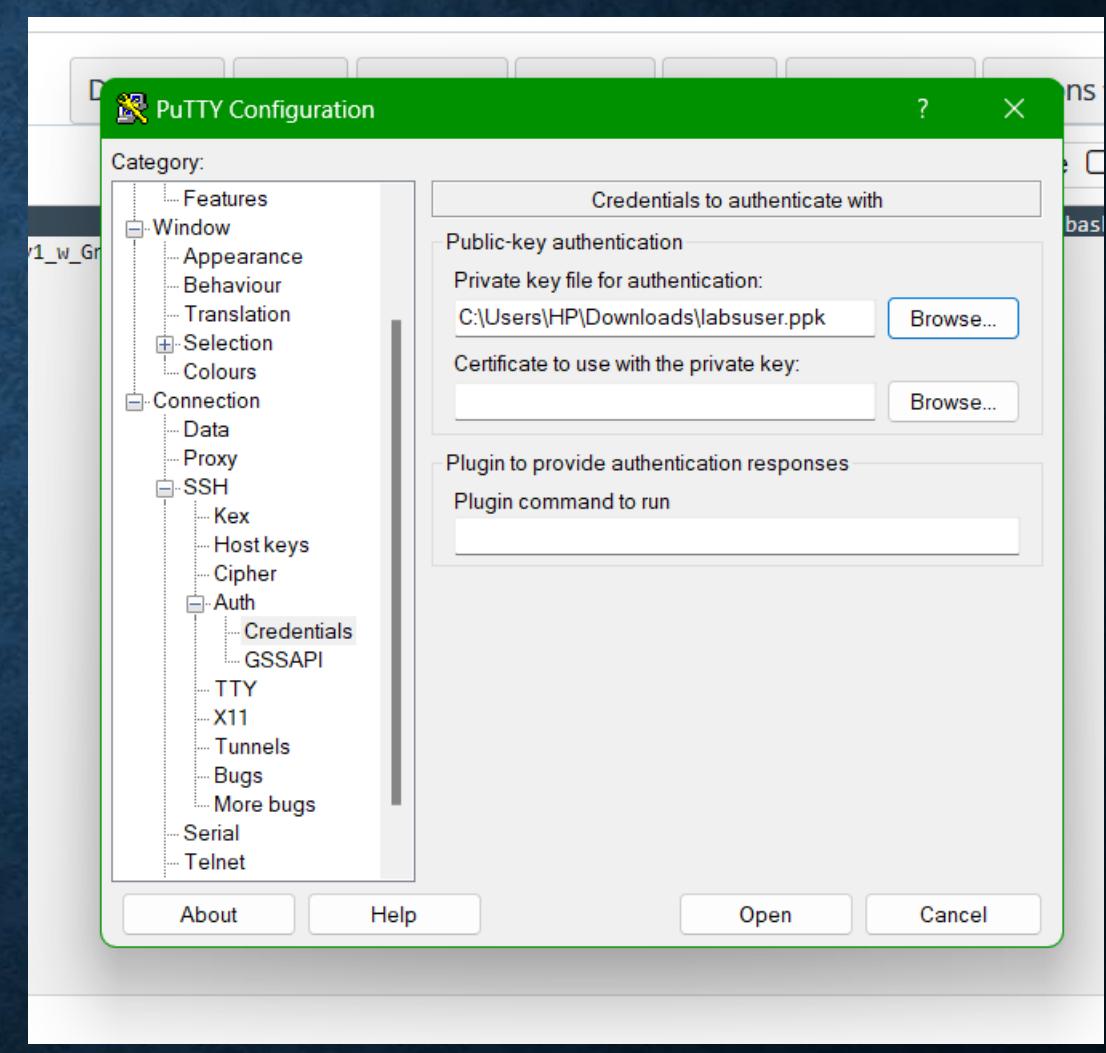
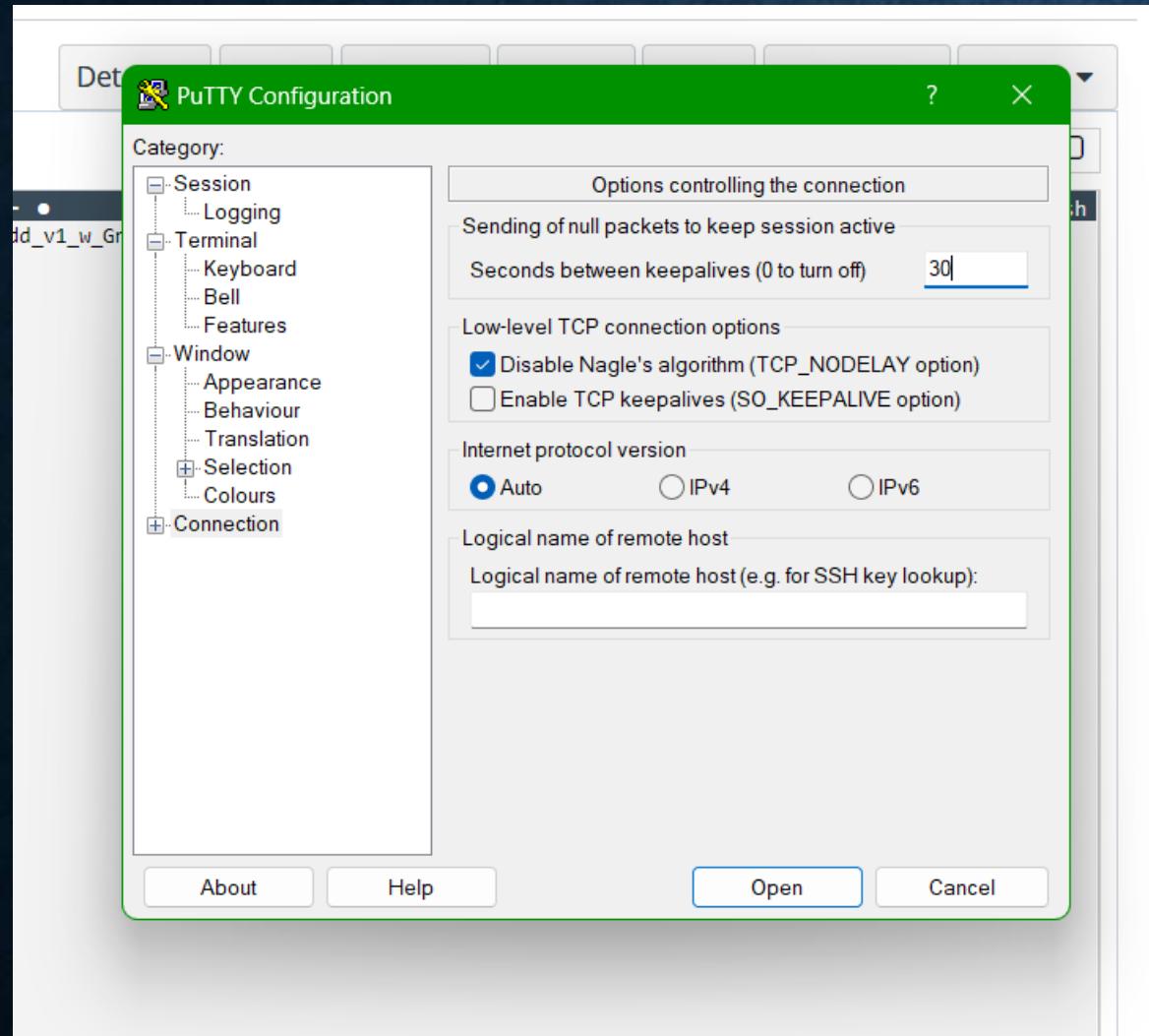
/dev/sdf

Recommended device names for Linux: /dev/sda1 for root volume, /dev/sd[f-p] for data volumes

- i** Newer Linux kernels may rename your devices to `/dev/xvdf` through `/dev/xvdp` internally, even when the device name entered here (and shown in the details) is `/dev/sdf` through `/dev/sdp`.

Cancel

Attach volume



```
ec2-user@ip-10-1-11-130:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
  
_ _ | ( _ _ / ) Amazon Linux 2 AMI  
_ _ | \ _ _ |  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-10-1-11-130 ~]$
```

```
ec2-user@ip-10-1-11-130:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
  
_ _ | ( _ _ / ) Amazon Linux 2 AMI  
_ _ | \ _ _ |  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-10-1-11-130 ~]$ x  
-bash: x: command not found  
[ec2-user@ip-10-1-11-130 ~]$ x  
-bash: x: command not found  
[ec2-user@ip-10-1-11-130 ~]$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
devtmpfs        478M    0  478M   0% /dev  
tmpfs          486M    0  486M   0% /dev/shm  
tmpfs          486M  468K  485M   1% /run  
tmpfs          486M    0  486M   0% /sys/fs/cgroup  
/dev/xvda1       8.0G  1.5G  6.5G  19% /  
tmpfs          98M    0   98M   0% /run/user/0  
tmpfs          98M    0   98M   0% /run/user/1000  
[ec2-user@ip-10-1-11-130 ~]$
```

```
[ec2-user@ip-10-1-11-130:~]
```

```
First data block=0  
Maximum filesystem blocks=268435456  
8 block groups  
32768 blocks per group, 32768 fragments per group  
8192 inodes per group  
Superblock backups stored on blocks:  
    32768, 98304, 163840, 229376
```

```
Allocating group tables: done
```

```
Writing inode tables: done
```

```
Creating journal (8192 blocks): done
```

```
Writing superblocks and filesystem accounting information: done
```

```
[ec2-user@ip-10-1-11-130 ~]$ sudo mkdir /mnt/data-store
```

```
[ec2-user@ip-10-1-11-130 ~]$ sudo mount /dev/sdf /mnt/data-store
```

```
[ec2-user@ip-10-1-11-130 ~]$ echo "/dev/sdf    /mnt/data-store ext3 defaults,noatime 1 2" | sudo tee -a /etc/fstab
```

```
/dev/sdf    /mnt/data-store ext3 defaults,noatime 1 2
```

```
[ec2-user@ip-10-1-11-130 ~]$ cat /etc/fstab
```

```
#
```

```
UUID=9da90cbe-ac2c-449c-ba5c-c06e3466d676    /          xfs    defaults,noatim
```

```
e 1 1
```

```
/dev/sdf    /mnt/data-store ext3 defaults,noatime 1 2
```

```
[ec2-user@ip-10-1-11-130 ~]$
```

```
[ec2-user@ip-10-1-11-130:~]
```

```
[ec2-user@ip-10-1-11-130 ~]$ sudo mount /dev/sdf /mnt/data-store  
[ec2-user@ip-10-1-11-130 ~]$ echo "/dev/sdf    /mnt/data-store ext3 defaults,noatime 1 2" | sudo tee -a /etc/fstab  
/dev/sdf    /mnt/data-store ext3 defaults,noatime 1 2  
[ec2-user@ip-10-1-11-130 ~]$ cat /etc/fstab  
#  
UUID=9da90cbe-ac2c-449c-ba5c-c06e3466d676    /          xfs    defaults,noatim
```

```
e 1 1
```

```
/dev/sdf    /mnt/data-store ext3 defaults,noatime 1 2
```

```
[ec2-user@ip-10-1-11-130 ~]$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	478M	0	478M	0%	/dev
tmpfs	486M	0	486M	0%	/dev/shm
tmpfs	486M	468K	485M	1%	/run
tmpfs	486M	0	486M	0%	/sys/fs/cgroup
/dev/xvda1	8.0G	1.5G	6.5G	19%	/
tmpfs	98M	0	98M	0%	/run/user/0
tmpfs	98M	0	98M	0%	/run/user/1000
/dev/xvdf	975M	60K	924M	1%	/mnt/data-store

```
[ec2-user@ip-10-1-11-130 ~]$ sudo sh -c "echo some text has been written > /mnt/data-store/file.txt"
```

```
[ec2-user@ip-10-1-11-130 ~]$ cat /mnt/data-store/file.txt
```

```
some text has been written
```

```
[ec2-user@ip-10-1-11-130 ~]$
```

Volume ID

 vol-05f0b354c83972f75 (My Volume)

Description

Add a description for your snapshot

255 characters maximum.

Encryption [Info](#)

Not encrypted

Tags [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional	Remove
<input type="text" value="Name"/> X	<input type="text" value="My Snapshot"/> X	Remove

Add tag

You can add 49 more tags.

Cancel

Create snapshot


```
#  
UUID=9da90cbe-ac2c-449c-ba5c-c06e3466d676      /          xfs      defaults,noatim  
e 1 1  
/dev/sdf  /mnt/data-store ext3 defaults,noatime 1 2  
[ec2-user@ip-10-1-11-130 ~]$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
devtmpfs        478M   0    478M  0% /dev  
tmpfs          486M   0    486M  0% /dev/shm  
tmpfs          486M  468K  485M  1% /run  
tmpfs          486M   0    486M  0% /sys/fs/cgroup  
/dev/xvda1     8.0G  1.5G  6.5G  19% /  
tmpfs          98M   0    98M  0% /run/user/0  
tmpfs          98M   0    98M  0% /run/user/1000  
/dev/xvdf     975M  60K  924M  1% /mnt/data-store  
[ec2-user@ip-10-1-11-130 ~]$ sudo sh -c "echo some text has been written > /mnt/  
data-store/file.txt"  
[ec2-user@ip-10-1-11-130 ~]$ cat /mnt/data-store/file.txt  
some text has been written  
[ec2-user@ip-10-1-11-130 ~]$  
[ec2-user@ip-10-1-11-130 ~]$ sudo rm /mnt/data-store/file.txt  
[ec2-user@ip-10-1-11-130 ~]$  
[ec2-user@ip-10-1-11-130 ~]$ ls /mnt/data-store/  
lost+found  
[ec2-user@ip-10-1-11-130 ~]$
```

Lab 4 - Working with EBS Create volume | EC2 Management

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateVolumeFromSnapshot:snapshotId=snap-0b0a581fd4df8cf42

Services Search [Alt+S] N. Virginia voclabs/user2076333=mnsreddy252@gmail.com @ 4127-5313-5747

Not applicable

Availability Zone [Info](#)

us-east-1a

Fast snapshot restore [Info](#)

Not enabled for selected snapshot

Encryption [Info](#)

Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.

Encrypt this volume

Tags - optional [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key Value - optional

Name Restored Volume

Add tag Remove Use "Restored Volume"

You can add 49 more tags.

Cancel Create volume

CloudShell Feedback Language https://us-east-1.console.aws.amazon.com/cloudshell/home?region=us-east-1 © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 12:51 AM 04-04-2023

Basic details

Volume ID

vol-0cacc09c334162e36 (Restored Volume)

Availability Zone

us-east-1a

Instance Info

i-0014cf04374dd86f6

G

Only instances in the same Availability Zone as the selected volume are displayed.

Device name [Info](#)

/dev/sdg

Recommended device names for Linux: `/dev/sda1` for root volume, `/dev/sd[f-p]` for data volumes

- i** Newer Linux kernels may rename your devices to `/dev/xvdf` through `/dev/xvdp` internally, even when the device name entered here (and shown in the details) is `/dev/sdf` through `/dev/sdp`.

Cancel

Attach volume

```
[ec2-user@ip-10-1-11-130 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        478M    0  478M  0% /dev
tmpfs          486M    0  486M  0% /dev/shm
tmpfs          486M  468K  485M  1% /run
tmpfs          486M    0  486M  0% /sys/fs/cgroup
/dev/xvda1     8.0G  1.5G  6.5G 19% /
tmpfs          98M    0   98M  0% /run/user/0
tmpfs          98M    0   98M  0% /run/user/1000
/dev/xvdf      975M   60K  924M  1% /mnt/data-store
[ec2-user@ip-10-1-11-130 ~]$ sudo sh -c "echo some text has been written > /mnt/
data-store/file.txt"
[ec2-user@ip-10-1-11-130 ~]$ cat /mnt/data-store/file.txt
some text has been written
[ec2-user@ip-10-1-11-130 ~]$
[ec2-user@ip-10-1-11-130 ~]$ sudo rm /mnt/data-store/file.txt
[ec2-user@ip-10-1-11-130 ~]$
[ec2-user@ip-10-1-11-130 ~]$ ls /mnt/data-store/
lost+found
[ec2-user@ip-10-1-11-130 ~]$ sudo mkdir /mnt/data-store2
[ec2-user@ip-10-1-11-130 ~]$ sudo mount /dev/sdg /mnt/data-store2
[ec2-user@ip-10-1-11-130 ~]$ ls /mnt/data-store2/
file.txt  lost+found
[ec2-user@ip-10-1-11-130 ~]$
```

AWS LAMBDA

Learner Lab

Functions - Lambda

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions

AWS Services Search [Alt+S] N. Virginia voclabs/user2076333=mnsreddy252@gmail.com @ 6226-0392-9032

AWS Lambda

Dashboard Applications Functions Additional resources Code signing configurations Layers Replicas Related AWS resources Step Functions state machines

Lambda > Functions

Functions (4) Last fetched 1 second ago Actions Create function

Filter by tags and attributes or search by keyword

<input type="checkbox"/>	Function name	Description	Package type	Runtime	Last modified
<input type="checkbox"/>	RedshiftOverwatch	Deletes Redshift Cluster if the count is more than 2.	Zip	Python 3.8	10 days ago
<input type="checkbox"/>	MainMonitoringFunction	-	Zip	Python 3.8	10 days ago
<input type="checkbox"/>	RoleCreationFunction	Create SLR if absent	Zip	Python 3.8	10 days ago
<input type="checkbox"/>	RedshiftEventSubscription	Create Redshift event subscription to SNS Topic.	Zip	Python 3.8	10 days ago

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function

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ENG IN 01:35 AM 04-04-2023

Learner Lab

Create function - Lambda

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function

Services Search [Alt+S] N. Virginia voclabs/user2076333=mnsreddy252@gmail.com @ 6226-0392-9032

Lambda > Functions > Create function

Create function Info

AWS Serverless Application Repository applications have moved to [Create application](#).

- Author from scratch
Start with a simple Hello World example.
- Use a blueprint
Build a Lambda application from sample code and configuration presets for common use cases.
- Container image
Select a container image to deploy for your function.

Basic information

Function name
Enter a name that describes the purpose of your function.

Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime Info
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Architecture Info
Choose the instruction set architecture you want for your function code.
 x86_64
 arm64

Permissions Info

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ENG IN 01:37 AM 04-04-2023

Learner Lab

Add triggers - Lambda

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/add/trigger?focus=aws%2Flambda&target=arn%3Aaws%3Alambda%3Aus-east-1%3A%

Services Search [Alt+S] N. Virginia voclabs/user2076333=mnsreddy252@gmail.com @ 6226-0392-9032

EventBridge (CloudWatch Events)

aws events management-tools

Rule
Pick an existing rule, or create a new one.
 Create a new rule
 Existing rules

Rule name
Enter a name to uniquely identify your rule.
everyMinute

Rule description
Provide an optional description for your rule.

Rule type
Trigger your target based on an event pattern, or based on an automated schedule.
 Event pattern
 Schedule expression

Schedule expression
Self-trigger your target on an automated schedule using [Cron or rate expressions](#). Cron expressions are in UTC.
rate(1 minute)
e.g. rate(1 day), cron(0 17 ? * MON-FRI *)

Lambda will add the necessary permissions for Amazon EventBridge (CloudWatch Events) to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

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ENG IN 01:41 AM 04-04-2023

Learner Lab myStopinator - Lambda Instances | EC2 Management

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/myStopinator?tab=code

File Edit Find View Go Tools Window Test Deploy Changes not deployed

Go to Anything (Ctrl-P)

Environment

myStopinator / lambda_function.py

```
1 import boto3
2 region = 'us-east-1'
3 instances = ['i-059d53c74d63d6ac1']
4 ec2 = boto3.client('ec2', region_name=region)
5
6 def lambda_handler(event, context):
7     ec2.stop_instances(InstanceIds=instances)
8     print('stopped your instances: ' + str(instances))
```

3:34 Python Spaces: 4

Code properties

Learner Lab myStopinator - Lambda Instances | EC2 Management

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/myStopinator?tab=monitoring

AWS Services Search [Alt+S] N. Virginia vocabs/user2076333=mnsreddy252@gmail.com @ 6226-0392-9032

AWS Lambda

Successfully updated the function myStopinator.

Function URL [Info](#)

Code Test Monitor Configuration Aliases Versions

Metrics Logs Traces View CloudWatch logs View X-Ray traces View Lambda Insights View CodeGuru profiles

CloudWatch metrics [Info](#)

Filter by Function

Lambda sends runtime metrics for your functions to Amazon CloudWatch. The metrics shown are an aggregate view of all function runtime activity. To view metrics for the unqualified or \$LATEST resource, choose **Filter by**. To view metrics for a specific function version or alias, choose **Aliases** or **Versions**, select the alias or version, and then choose **Monitor**.

1h 3h 12h 1d 3d 1w Custom [C](#) [▼](#)

Invocations	Duration	Error count and success rate (%)
Count 2	Milliseconds 1.21 1.1	Count No unit 100

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In ec2 the instance that we chosen has been stopped.

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes tabs for 'Learner Lab', 'myStopinator - Lambda', and 'Instances | EC2 Management'. The main content area displays a table of instances. A filter 'Instance state = running' is applied. One instance, named 'ec2server' with ID 'i-025769a7f5e2e1a2d', is listed. Its status is 'Running' with a green checkmark. Below the table, a specific instance is selected: 'Instance: i-059d53c74d63d6ac1 (Web Server 1)'. The 'Details' tab is active, showing the following information:

Attribute	Value	Details
Instance ID	i-059d53c74d63d6ac1 (Web Server 1)	Public IPv4 address: 100.26.186.135 open address
IPv6 address	-	Instance state: Running
Hostname type	IP name: ip-10-0-2-82.ec2.internal	Private IP DNS name (IPv4 only): ip-10-0-2-82.ec2.internal

The left sidebar contains a navigation menu with sections like 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances' (selected), 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Scheduled Instances', 'Capacity Reservations', 'Images' (selected), 'AMIs', and 'AMI Catalog'.

AWS LIGHT SAIL

- PROCEDURE:

1. On the home page, choose Create instance.
2. Select a location for your instance (an AWS Region and Availability Zone). Choose Change Region and zone to create your instance in another location.
3. Optionally, you can change the Availability Zone. Choose an Availability Zone from the dropdown list.
4. Pick an application (Apps + OS) or an operating system (OS Only).
- 5. Choose your instance plan.
- 6. Enter a name for your instance.
- Resource names:
 1. Must be unique within each AWS Region in your Lightsail account.
 2. Must contain 2 to 255 characters.
 3. Must start and end with an alphanumeric character or number.
 4. Can include alphanumeric characters, numbers, periods, dashes, and underscores.

7. Choose one of the following options to add tags to your instance:

- Add key-only tags or Edit key-only tags (if tags have already been added). Enter your new tag into the tag key text box, and press Enter. Choose Save when you're done entering your tags to add them, or choose Cancel to not add them.



- Create a key-value tag, then enter a key into the Key text box, and a value into the Value text box. Choose Save when you're done entering your tags, or choose Cancel to not add them. Key-value tags can only be added one at a time before saving. To add more than one key-value tag, repeat the previous steps.



8. Choose Create instance.

Within minutes, your Lightsail instance is ready and you can connect to it via SSH, without leaving Lightsail!

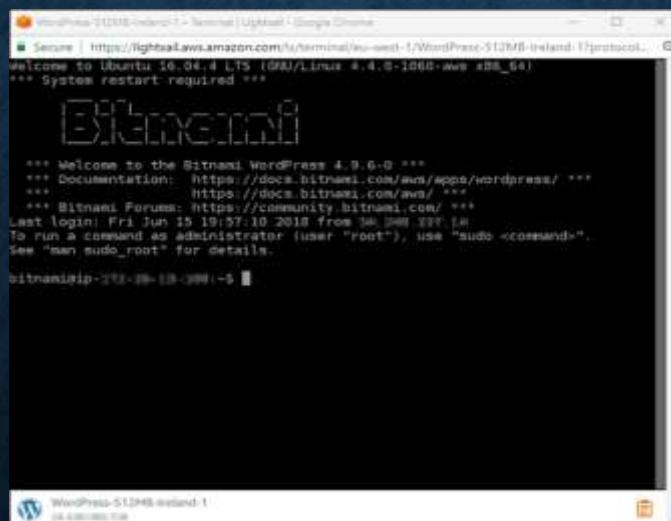
How to connect to your instance

- 1. From the Lightsail home page, choose the menu on the right of your instance's name, and then choose connect.



Alternately, you can open your instance management page and choose the Connect tab.

- 2. You can now type commands into the terminal and manage your Lightsail instance without setting up an SSH client.



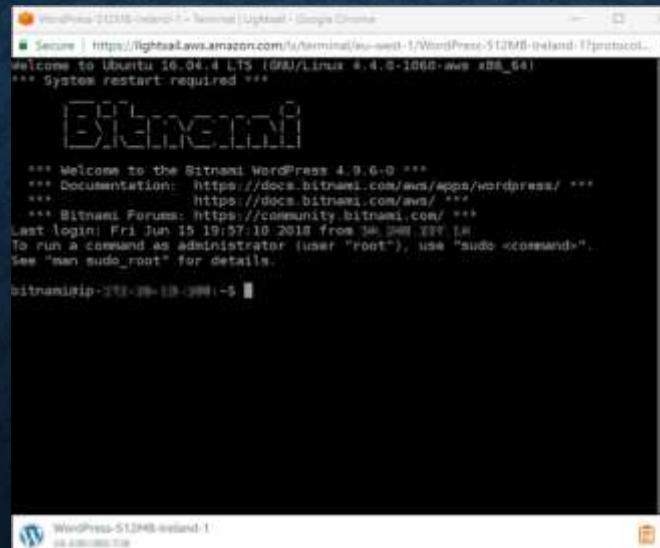
How to connect to your instance

1. From the Lightsail home page, choose the menu on the right of your instance's name, and then choose Connect.



Alternately, you can open your instance management page and choose the Connect tab.

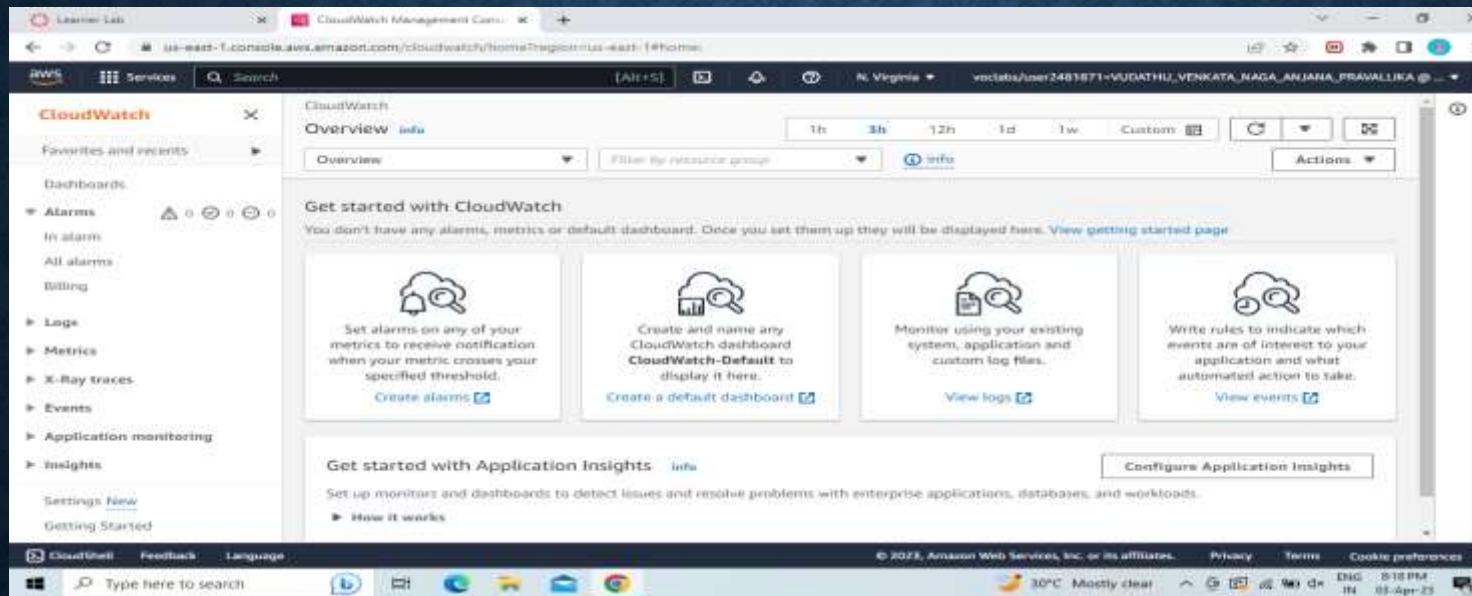
2. You can now type commands into the terminal and manage your Lightsail instance without setting up an SSH client.



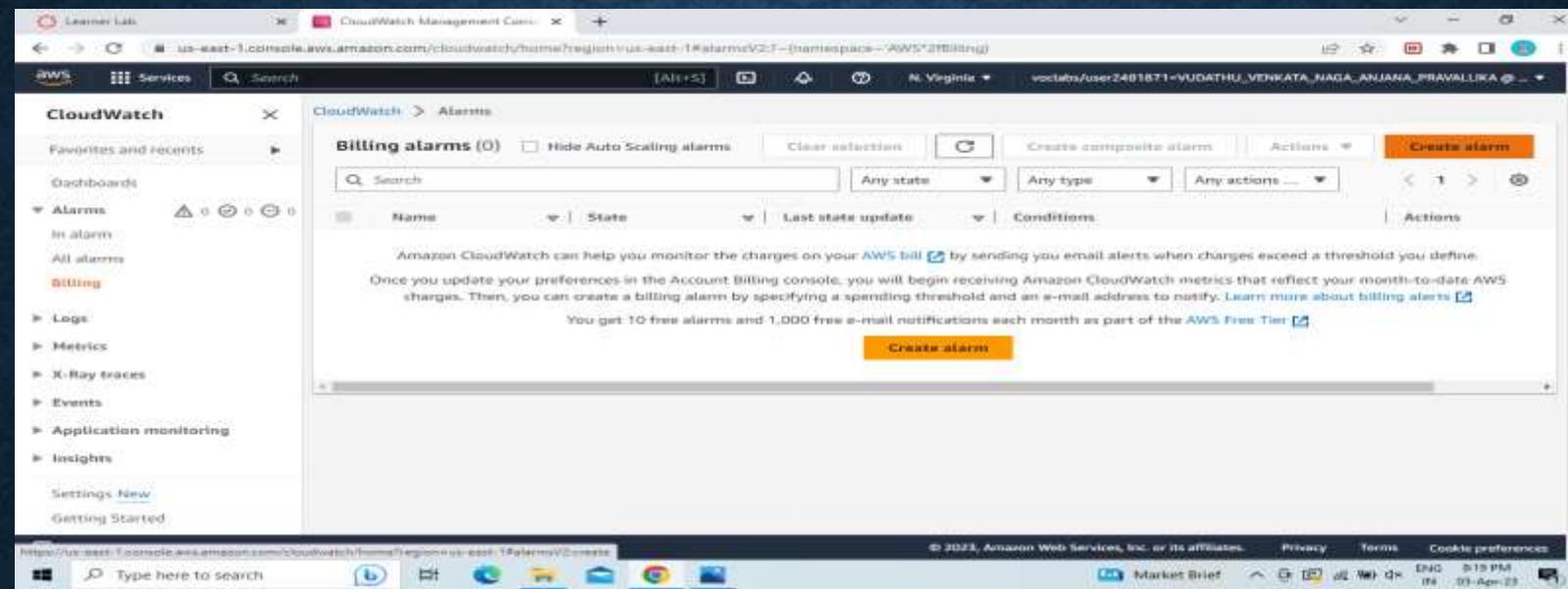
AWS CLOUD WATCH

PROCEDURE

1.Go to AWS Services, Click on CloudWatch and then in the Dashboard go to Alarms section and select Billings.



2.Then Click on CREATE ALARM.



3.Then follow the steps.

In the first step it will ask us to Specify metric and conditions.Click on Select Metric.
Change the Currency to Rupee.

In the Conditions section choose the EstimatedCharges like
Greater/GreaterEqual/Lowerequal/Lower and also define the threshold value.

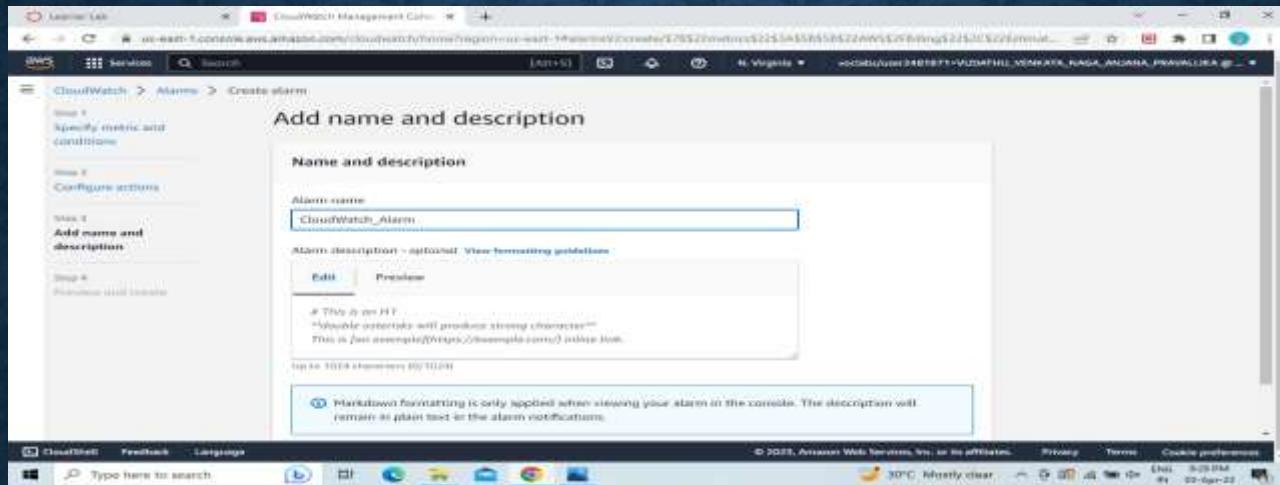
4.Click on Next.

The image consists of two side-by-side screenshots of the AWS CloudWatch Metrics Metrics & Alarms interface. The left screenshot shows the 'Specify metric and conditions' step, where a metric named 'EstimatedCharges' is selected with a threshold of 1000. The right screenshot shows the 'Conditions' step, where the threshold type is set to 'State' (Less than or equal to) and the value is 1000.

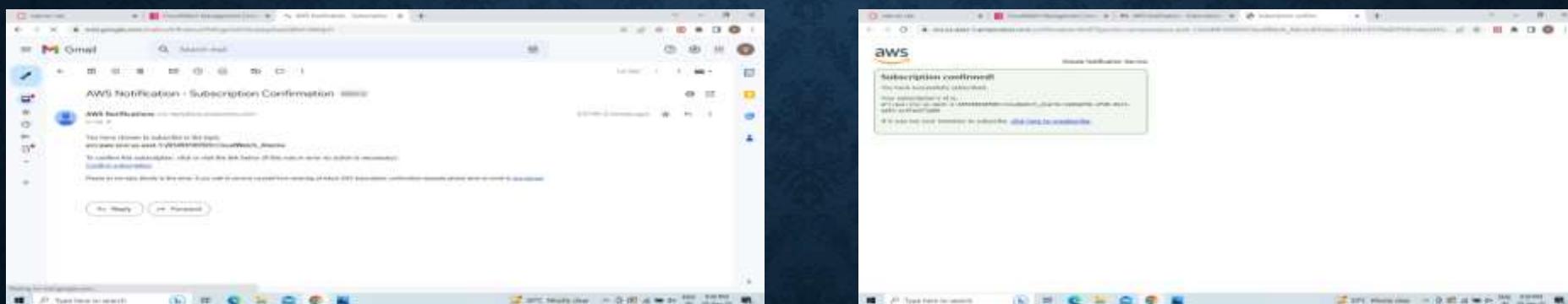
5. Now for Configure Actions choose Create new topic. Give a name to the topic and enter your email to receive a notification. Click on Create Topic, then Next.

The image shows the 'Step 4: Preview and Create' screen of the AWS CloudWatch Metrics Metrics & Alarms interface. It displays the configuration for sending notifications via SNS. The 'Create new topic' option is selected, and the topic name 'CloudWatch_Alarms' is entered. An email endpoint 'pravallika.vudathu2003@gmail.com' is listed under 'Email endpoints that will receive the notification...'. Buttons for 'Create topic' and 'Add notification' are visible at the bottom.

6.Give a name to your Alarm and Click on next.



7. You will get a AWS Notification-Subscription Confirmation mail to the email which you have provided.Click on Confirm Subscription.Then it will open a window showing Subscription Confirmed.



8.Preview the details you have entered .

9.Click on Create alarm.This will Create your Alarm.

The screenshot shows the AWS CloudWatch Management Console interface. The left sidebar is titled "CloudWatch" and includes sections for Favorites and recent, Dashboards, Alarms (selected), In alarm, All alarms (which is red), Billing, Logs, Metrics, X-Ray traces, Events, Application monitoring, Insights, Settings, and Getting Started. The main content area is titled "Billing alarms (1)" and shows a single alarm named "CloudWatch_Alarm". The alarm details are as follows:

Name	State	Last state update	Conditions	Actions
CloudWatch_Alarm	Insufficient data	2023-04-03 20:30:53	EstimatedCharges > 1000 for 1 datapoints within 6 hours	Actions enabled

A green banner at the top right of the main content area says "Successfully created alarm CloudWatch_Alarm." There is also a "View alarm" button. The top navigation bar shows tabs for Learner Lab, CloudWatch Management Console, AWS Notification - Subscription, and Subscription confirm. The address bar shows the URL: us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2?<Page=MetricSelection~AlarmType=MetricAlarm~AlarmData=(Metrics...). The status bar at the bottom shows the date and time: © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 30°C Mostly clear ENG 8:31 PM IN 03-Apr-23.

AWS COMMAND LINE INTERFACE

Procedure:

STEP 1 - Download and install AWS CLI and complete the installation steps.

STEP 2 - Login to AWS Management Console and search for IAM.

STEP 3 - In the navigation pane ,select Users

The screenshot shows the AWS IAM (Identity and Access Management) service in the AWS Management Console. The left sidebar has 'Identity and Access Management (IAM)' selected. Under 'Access management', 'Users' is also selected. The main content area is titled 'Users (202)'. It displays a table with columns: User name, Groups, Last activity, MFA, Password last used, and Actions. The table lists several users, all of whom are Admins and have 'None' MFA. The last activity column shows various times from '1 hour ago' to 'Yesterday'. The Actions column contains small icons for each user. A search bar at the top allows filtering by username or access key.

User name	Groups	Last activity	MFA	Password last used	Actions
20A31A0157	Admin	1 hour ago	None	7 days ago	
20A31A0159	Admin	1 hour ago	None	7 days ago	
20A31A0160	Admin	2 days ago	None	7 days ago	
20A31A0167	Admin	2 days ago	None	7 days ago	
20A31A0242	Admin and goodAdmin	Yesterday	None	7 days ago	
20A31A0367	Admin	2 days ago	None	7 days ago	
20A31A0394	Admin	14 hours ago	None	2 days ago	

STEP 4 - In the users select the name of the user whose access keys you want to create.

STEP 5 - Click on Security Credentials tab.

The screenshot shows the AWS Identity and Access Management (IAM) service in the AWS Management Console. The URL in the browser is `us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/users/details/20A31A0502?section=security_credentials`. The left sidebar shows the navigation menu for IAM, with 'Users' selected. The main content area displays details for a user named '20A31A0502'. At the top, it shows the user was created on March 21, 2023, at 14:51 (UTC+05:30). It also indicates that there is one Access key (Access Key 1) which is Not enabled. Below this, the 'Security credentials' tab is selected, showing the 'Console sign-in' section. It contains a 'Console sign-in link' (a blue link to `https://ezts.signin.aws.amazon.com/console`) and a 'Console password' (last updated 7 days ago, on 2023-03-27 09:57 GMT+5:30). It also shows the last console sign-in, which occurred 27 minutes ago on 2023-04-03 20:58 GMT+5:30. Below this section is a 'Multi-factor authentication (MFA)' section, which currently has 0 MFA devices assigned. There are buttons for 'Remove', 'Revoke', and 'Assign MFA device'.

STEP 6 - In the access Keys section , choose Create access key.

The screenshot shows the AWS Identity and Access Management (IAM) service interface. The left sidebar is titled "Identity and Access Management (IAM)" and includes sections for Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers, Account settings), and Access reports (Access analyzer, Archive rules, Analyzers, Settings). The main content area is titled "Access keys (1)". It displays a single access key entry:

AKIATR4OXV3QNPAMUQBM		Actions ▾
Description	-	Status
Last used	7 days ago	Created
Policies		7 days ago
Last used region	us-east-1	Last used service
		iam

Below this, there is a section titled "SSH public keys for AWS CodeCommit (0)". The bottom of the page includes standard AWS footer links: CloudShell, Feedback, Language, © 2023, Amazon Web Services India Private Limited or its affiliates., Privacy, Terms, and Cookie preferences.

Access key best practices & alternatives

Avoid using long-term credentials like access keys to improve your security. Consider the following use cases and alternatives.

- Command Line Interface (CLI)**
You plan to use this access key to enable the AWS CLI to access your AWS account.
- Local code**
You plan to use this access key to enable application code in a local development environment to access your AWS account.
- Application running on an AWS compute service**
You plan to use this access key to enable application code running on an AWS compute service like Amazon EC2, Amazon SES, or AWS Lambda to access your AWS account.
- Third-party service**
You plan to use this access key to enable a third-party application or service that requires you to manage your AWS resources.
- Application running outside AWS**

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Set description tag - optional

The description for this access key will be attached to this user as a tag and shown alongside the access key.

Description tag value
Describe the purpose of this access key and where it will be used. A good description will help you retrace this access key if necessary.

Maximum 256 characters. Allowed characters are letters, numbers, underscores, hyphens, and periods.

[Cancel](#) [Previous](#) [Create access key](#)

[CloudShell](#) [Feedback](#) [Language](#)

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Access key created

This is the only time that the secret access key can be viewed or downloaded. You cannot recover it later. However, you can create a new access key any time.

Retrieval access keys

Access key	Secret access key
AKIAJRAOXV3QD5GD6MZZ	***** Show

Access key best practices

- Never store your access key in plain text, in a code repository, or in code.
- Disable or delete access key when no longer needed.
- Enable least-privilege permissions.
- Store access keys securely.

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STEP 6 – Now you can use this access key to configure CLI

STEP 7 - Open Command Line Interface and run the following command>aws configure

After entering this command AWS CLI prompts us with four pieces of information

1. Access Key ID: (enter your ID)
2. Secret Access Key: (enter your key)
- 3.AWS Region: (enter the desired region)
- 4.Output Format: (enter the desired output)

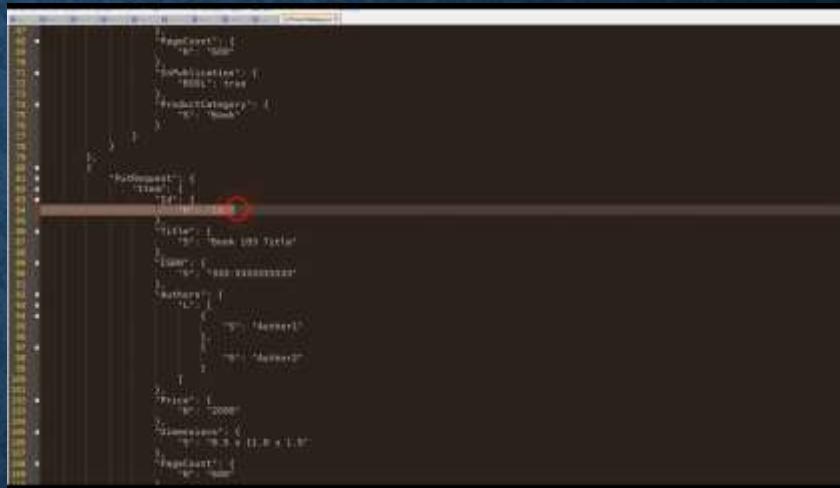
```
Microsoft Windows [Version 10.0.22621.1413]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sivas>aws configure
AWS Access Key ID [None]: AKIATR40XV3QD5GD6MZZ
AWS Secret Access Key [None]: vMQP4GL99CbDSxsPWSgiTkkozMiRsUUZ0i+hDdNT
Default region name [None]: us-east-1
Default output format [None]: json
```

Finally we get Javascript Object Notation of all the users as output.

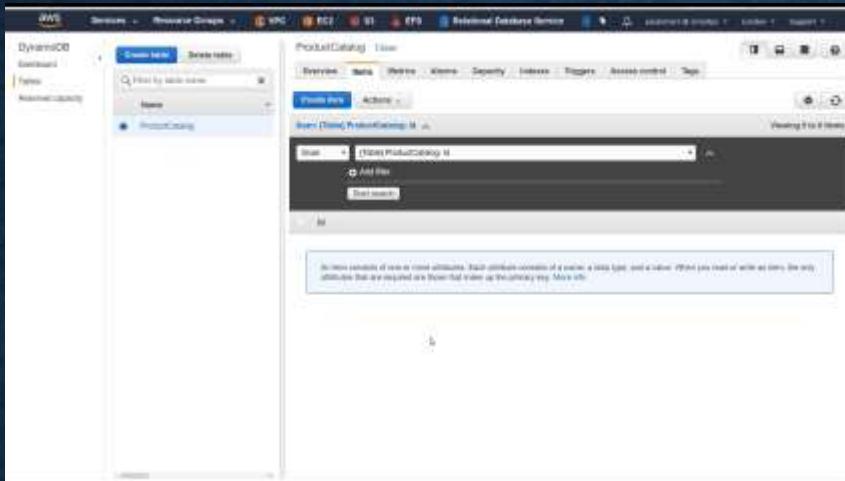
DYNAMO DB

- Setting up the Amazon DynamoDB
- here, we will be having an JSON file which is a product catalog
- the products have a lot of different attributes and **id** is only common.
- the interface looks like this:



This screenshot shows the "Create New Table" wizard, Step 1: Set table name and primary key. The table name is set to "ProductCatalog". The primary key is defined as "Partition Key" with the attribute "Number". A note indicates that "You do not have the required role to enable Auto Scaling by default." At the bottom, there is a "Create" button.

- After creating the table , we can see that there are no items present.



- So we will use the CLI to populate the table. Open powershell of AWS.

```
C:\> aws dynamodb list-tables --region eu-west-2
{
    "TableNames": [
        "ProductCatalog"
    ]
}
C:\> aws dynamodb describe-table --table-name ProductCatalog --region eu-west-2
{
    "Table": {
        "TableArn": "arn:aws:dynamodb:eu-west-2:489281224315:table/ProductCatalog",
        "AttributeDefinitions": [
            {
                "AttributeName": "Id",
                "AttributeType": "N"
            }
        ],
        "ProvisionedThroughput": {
            "NumberOfDecreasesToday": 0,
            "WriteCapacityUnits": 5,
            "ReadCapacityUnits": 5
        },
        "TableSizeBytes": 0,
        "TableName": "ProductCatalog",
        "TableStatus": "ACTIVE",
        "Replicas": [
            {
                "RegionName": "USWEST2",
                "AttributeDefinitions": [
                    {
                        "AttributeName": "Id",
                        "AttributeType": "N"
                    }
                ],
                "ItemCount": 0,
                "CreationDateTime": 1521726613.734
            }
        ]
    }
}
C:\> aws dynamodb batch-write-item --request-items file://ProductCatalog.json --region eu-west-2
```

The screenshot shows the AWS DynamoDB console with the 'ProductCatalog' table selected. The table now contains 10 items. The table details section shows the primary key 'Id' and other attributes. The data is as follows:

	Id	Price	ProductCategory	Title	BicycleType	Brand	Color	Description
1	200	300	Bicycle	10-Bike-004	Hybrid	Brand-Corp	["B", "Red"]	300 Description
2	200	300	Bicycle	15-Bike-003	Road	Brand-Corp	["B", "Red"]	300 Description
3	200	300	Bicycle	21-Bike-002	Road	Brand-Corp	["B", "Blue"]	300 Description
4	200	100	Bicycle	10-Bike-001	Road	Mountian-X	["B", "Red"]	200 Description
5	200	400	Bicycle	15-Bike-004	Mountian	Brand-Corp	["B", "Red"]	2M Description
6	100	20	Book	Book-100-Title				
7	100	3000	Book	Book-100-Title				
8	100	2	Book	Book-101-Title				

Screenshot of the AWS DynamoDB console showing the ProductCatalog table.

Table Overview:

- Table Name: ProductCatalog
- Partition Key: ProductCatalog ID
- Sort Key: None
- Attributes: Price, ProductCategory, Title, BicycleType, Brand, Color, Description

Table Data:

ID	Price	ProductCategory	Title	BicycleType	Brand	Color	Description
204	900	Bicycle	104Bike-204	Road	Brand-Corp	[170° - 180°]	200 Decathlon
208	300	Bicycle	104Bike-208	Road	Brand-Corp	[170° - 180°]	200 Decathlon
209	200	Bicycle	214Bike-209	Road	Brand-Corp	[170° - 180°]	200 Decathlon
201	100	Bicycle	104Bike-201	Road	Mountain A	[170° - 180°]	200 Decathlon
206	400	Bicycle	104Bike-206	Road	Brand-Corp	[170° - 180°]	200 Decathlon
102	10	Book	Book-102	None	None	None	None
100	2000	Book	Book-100	None	None	None	None
101	2	Book	Book-101	None	None	None	None

Screenshot of the AWS DynamoDB console showing the ProductCatalog table.

Table Overview:

- Table Name: ProductCatalog
- Partition Key: ProductCatalog ID
- Sort Key: None
- Attributes: Price, ProductCategory, Title, BicycleType, Brand, Color, Description

Table Data:

ID	Price	ProductCategory	Title	BicycleType	Brand	Color	Description
204	400	Bicycle	104Bike-204	Mountain	Brand-Corp	[170° - 180°]	200 Decathlon

RDS

Procedure:

Step 1: Create a Security Group for the RDS DB Instance.

aws management console → vpc → security groups → choose create security group → add inbound rule → create security group.

The screenshot shows the AWS VPC Management Console with the 'Security groups' page open. The left sidebar includes options like Carrier gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services, NAT gateways, Peering connections, Security (Network ACLs, Security groups), DNS firewall (Rule groups, Domain lists), and Network Firewall (Firewalls, Firewall policies, Network Firewall rule). The main area displays a table of existing security groups:

Name	Security group ID	Security group name	VPC ID	Description
Web Security Group	sg-01d38ed3846f1fb22	Web Security Group	vpc-0e63c938af50af6dd	Enable HTTP access
-	sg-b0f5c02e11cf2a061	default	vpc-0e99d72d284adab5a	default VPC security gr...
-	sg-b924ea7436e12708c	default	vpc-0e63c938af50af6dd	default VPC security gr...
-	sg-0de814af15ac8f2c0	WorkEc2SecurityGroup	vpc-0e130348b7d35abd3	VPC Security Group
-	sg-06c2bd11f5ec2d5d	default	vpc-0e110348b7d35abd3	default VPC security gr...

The screenshot shows the 'Create security group' wizard. The first step, 'Basic details', has the security group name set to 'DB Security Group'. The second step, 'Inbound rules', shows a single rule: Type: MySQL/Aurora, Protocol: TCP, Port range: 3306, and Source: Custom (0.0.0.0/0). The 'Description - optional' field contains 'Permit access from Web Security Group'.

Step 2 : Create a DB Subnet Group.

Rds → subnet groups → choose create DB subnet group → add subnets → create DB subnet group.

The screenshot shows the 'Subnet groups' page in the AWS RDS console. The left sidebar has 'Subnet groups' selected under 'Amazon RDS'. The main area displays a table titled 'Subnet groups (1)'. The table has columns: Name, Description, Status, and VPC. One entry is listed: 'db-subnet-group' (DB Subnet Group), 'Complete', and 'vpc-0f8f7faaf6c154fc2'. A prominent orange button at the top right says 'Create DB subnet group'.

The screenshot shows the 'Create DB subnet group' wizard. The title is 'Create DB subnet group'. It instructs the user to provide a name, description, and select a VPC. The 'Subnet group details' section contains fields for 'Name' (set to 'DB-Subnet-Group'), 'Description' (set to 'DB Subnet Group'), and 'VPC' (set to 'Lab VPC (vpc-0a63c938af50a76d)').

Step 3: In the left navigation pane, choose Databases → choose create database → MySQL

This screenshot shows the Amazon RDS Management console. The left sidebar includes options like Dashboard, Databases (which is selected), Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, and others. The main area is titled 'Databases' and shows a table with columns for DB identifier, Role, Engine, Region & AZ, Size, Status, and Actions. A search bar at the top allows filtering by database name. A prominent callout box at the top suggests creating a Blue/Green deployment. The status bar at the bottom indicates the user is in the us-east-1 region.

This screenshot shows the 'Create database' wizard. The first step, 'Choose a database creation method', offers two options: 'Standard create' (selected) and 'Easy create'. The second step, 'Engine options', shows three engine types: 'Aurora (MySQL Compatible)', 'Aurora (PostgreSQL Compatible)', and 'MySQL' (selected). To the right of the wizard, a detailed description of MySQL is provided, highlighting its popularity and various features. The status bar at the bottom indicates the user is in the us-east-1 region.

Step 4: In Availability and durability ,choose Multi –AZ DB instance then configure settings , DB instance class, Storage, connectivity, choose existing vpc security group and setup additional configuration.

Availability and durability

Deployment options: Info

The deployment options below are limited to those supported by the engine you selected above:

- Multi-AZ DB Cluster - new
- Multi-AZ DB instance
- Single DB instance

Creates a primary DB instance and two read-only standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy, and increases capacity to serve load workloads.

Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

Creates a single DB instance with no standby DB instances.

Settings

DB instance identifier: Info

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

database-1

The DB instance identifier is case insensitive, but it's stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and InnoDB Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

Amazon RDS Optimized Writes - new

Show instance classes that support Amazon RDS Optimized Writes

DB instance class

Standard classes (includes m classes)

Memory optimized classes (includes r and x classes)

InnoDB classes (includes t classes)

db.t3.micro
2 vCPUs - 1.5 GiB RAM - Network: 1,200 Mbps

Include previous generation classes

Storage

Storage type: Info

Provisioned IOPS SSD (io1)
Low latency and provisioned IOPS

Allocated storage: Info

Step 5: Wait until Info changes to Modifying or Available.

Scroll down to the Connectivity & security section and copy the Endpoint field.

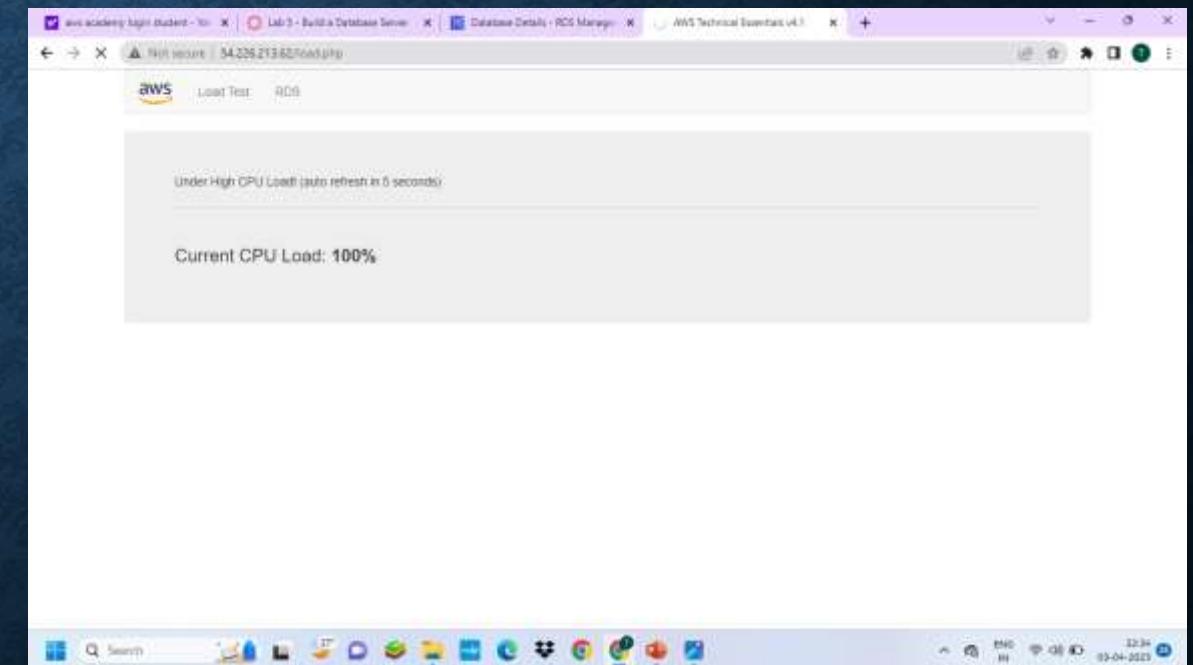
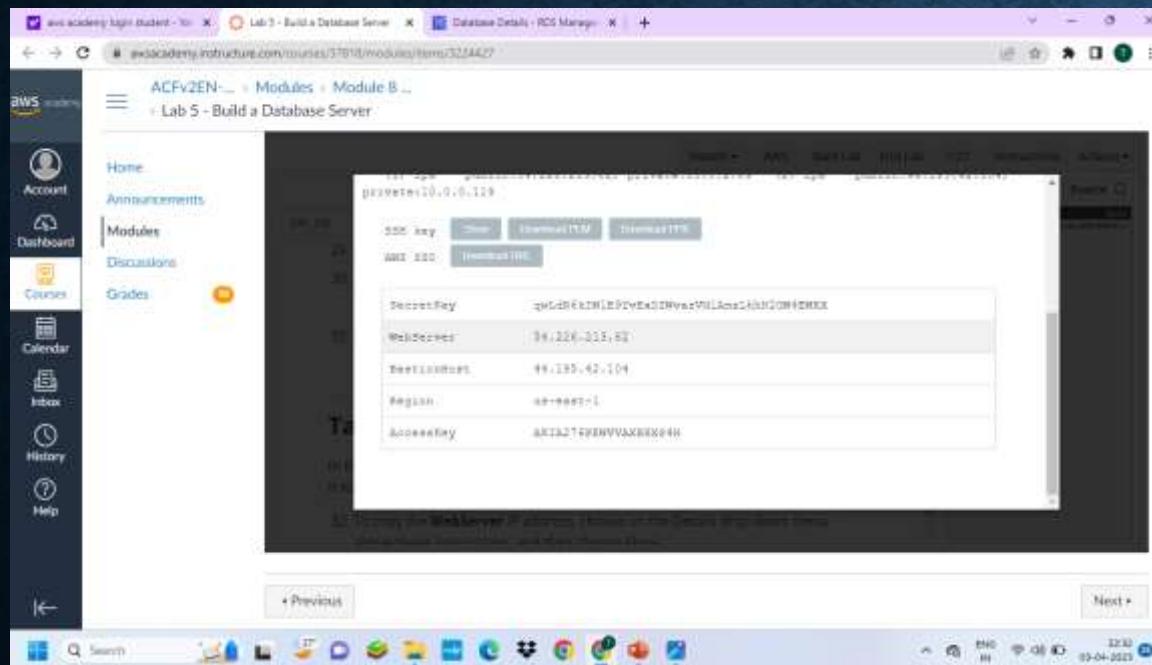
The screenshot shows the 'Database Details - RDS Manager' page for a database named 'lab-db'. The 'Summary' section displays the following information:

DB identifier	CPU	Status	Class
lab-db	2.63%	Available	db.t3.micro
Role	Current activity	Engine	Region & AZ
Instance	0 Connections	MySQL Community	us-east-1a

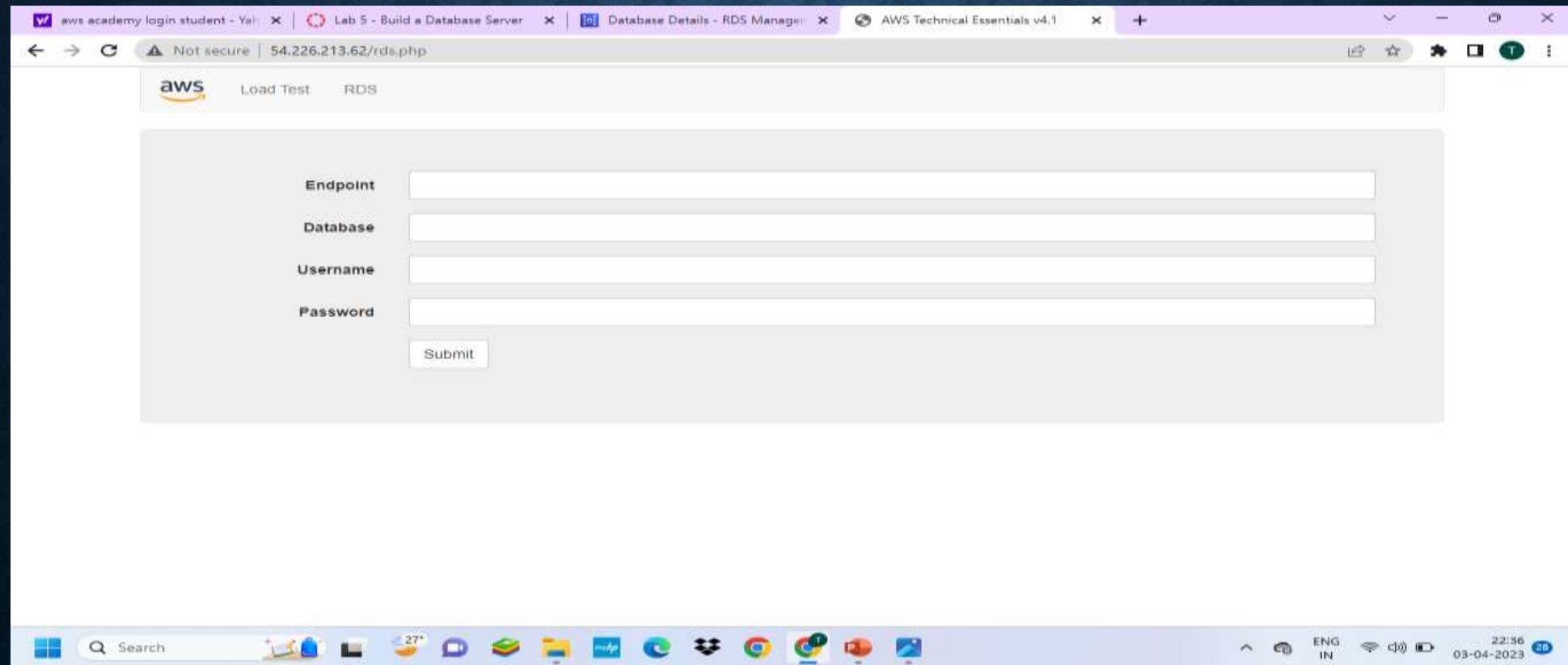
Below the summary, there are tabs for 'Connectivity & security', 'Monitoring', 'Logs & events', 'Configuration', 'Maintenance & backups', and 'Tags'. The 'Connectivity & security' tab is selected, showing the 'Endpoint & port' section with the 'Endpoint' field containing the value 'Endpoint'. Other sections include 'Networking' (Availability Zone) and 'Security' (VPC security groups).

Step 6 : Interact with Your Database.

On Details , copy the WebServer IP address. Open a new web browser tab, paste the WebServer IP address and press Enter. The web application will be displayed, showing information about the EC2 instance.



Step 7 : Choose the RDS link at the top of the page and configure the settings.



Step 8: After a few seconds the application will display an **Address Book**.

The Address Book application is using the RDS database to store information.

aws academy login student - Yal... | Database Details - RDS Manager... | Lab 5 - Build a Database Server... | AWS Technical Essentials v4.1... | Not secure | 54.226.213.62/rds.php

aws Load Test RDS

Address Book

Last name	First name	Phone	Email	Admin
Doe	Jane	010-110-1101	janed@someotheraddress.org	Edit Remove
Johnson	Roberto	123-456-7890	robertoj@someaddress.com	Edit Remove

Add Contact

27% 03-04-2023 22:38 2D

ELASTIC LOAD BALANCER

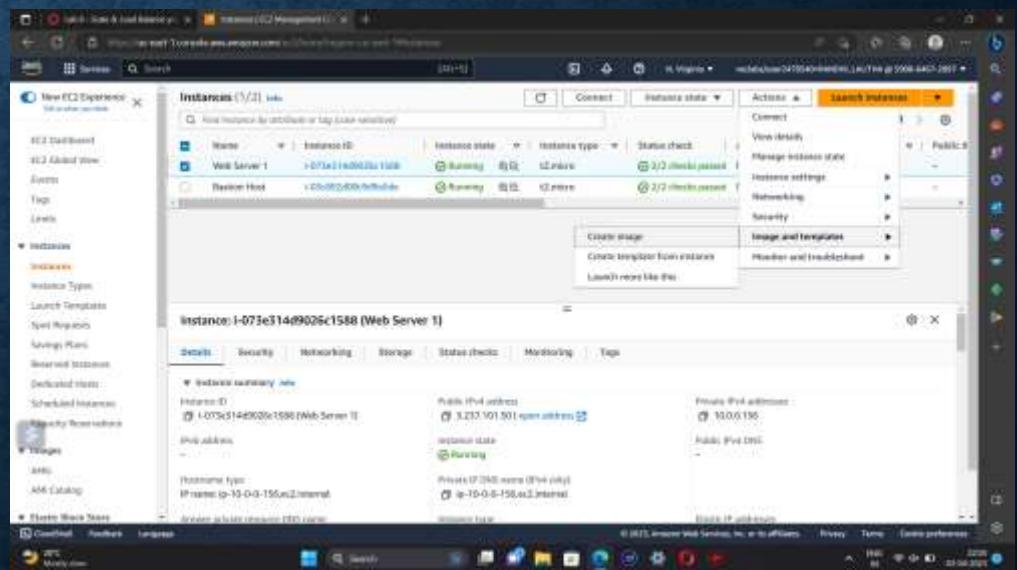
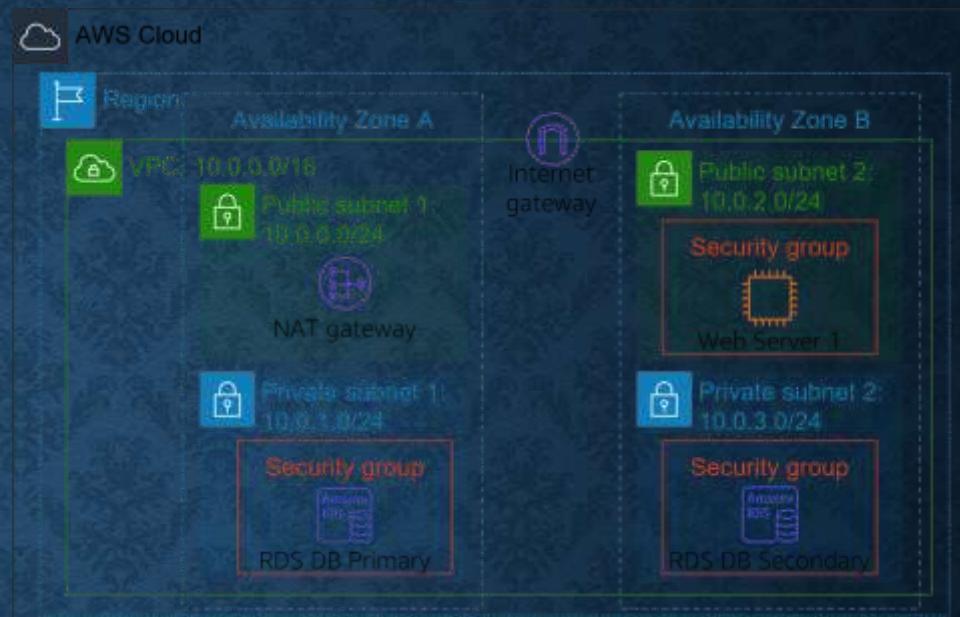
Elastic Load Balancing automatically distributes incoming application traffic across multiple Amazon EC2 instances.

In this lab, We are provided with the given infrastructure.

Procedure:

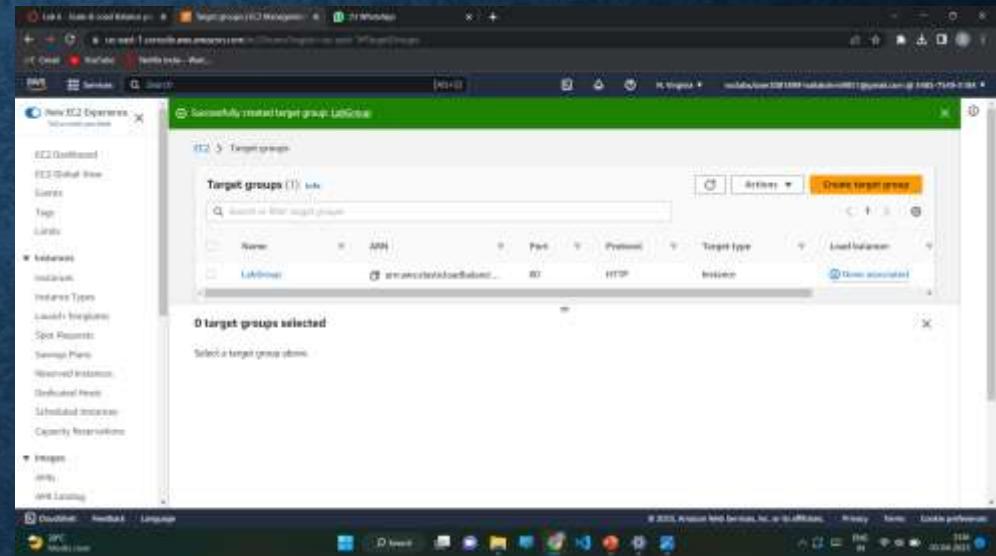
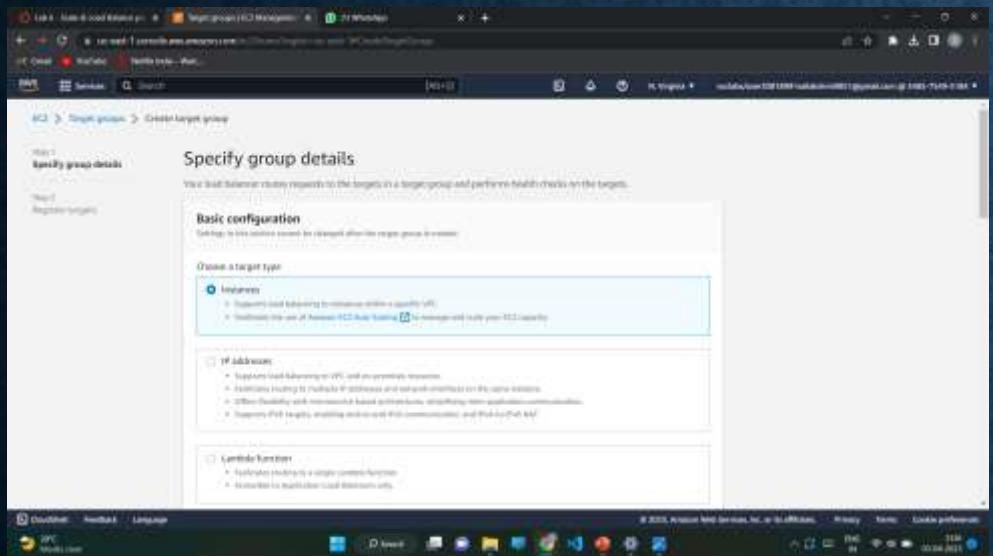
Task1: Creating an AMI for Auto Scaling

- ❖ Click start lab then click on AWS.
- ❖ You will navigate to AWS management console. Click on services and select EC2.
- ❖ Click instances. Make sure that **Status Checks** for **Web Server 1** displays 2/2 checks.
- ❖ Select **Web Server 1** and in actions click images and templates > create image. Name the image and give the description.
- ❖ Click create image.

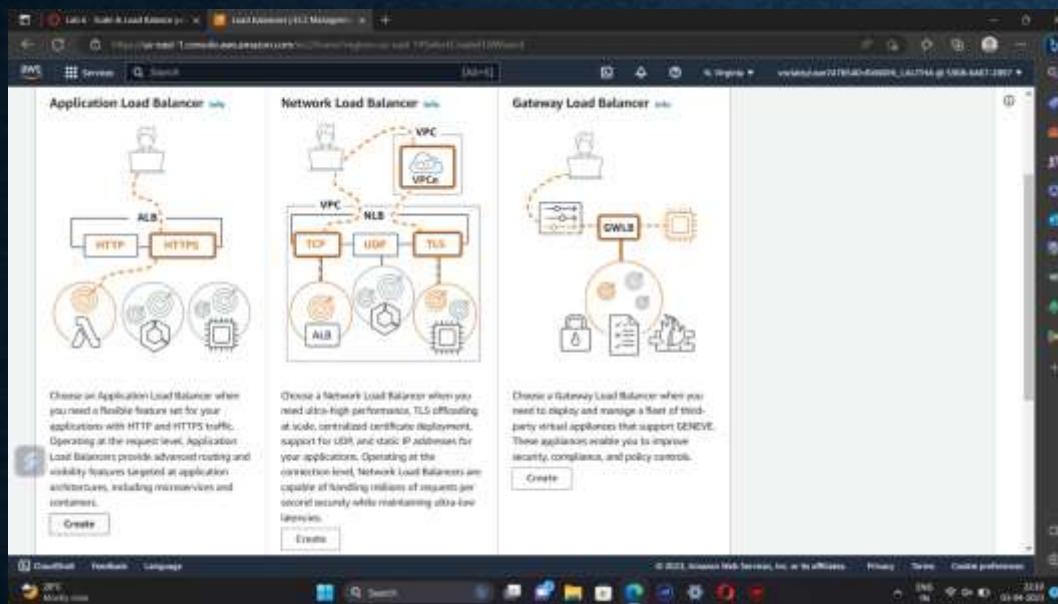


Task 2: Creating a load balancer

- ❖ Choose Target Groups and then click on create target group.
- ❖ Select target type as instances. Name the target group. Select Lab VPC under VPC that is we are creating load balancer in Lab VPC .
- ❖ Choose next and then click on create target group.



- ❖ From the left navigation pane , select Load Balancers. Click create load balancer.
- ❖ To create a application balancer, click create under Application Load Balancer and Name it.
- ❖ In Networking mapping, select Lab VPC and specify the subnets that the load balancer should use.
- ❖ In security groups, select only Web Security Group and deselect all other than it .
- ❖ For the Listener HTTP:80 row, set the Default action to forward to **LabGroup**.



The screenshot shows the configuration for a Listener named "HTTP-80".

- Protocol:** HTTP
- Port:** 80
- Default action:** Lambda@Edge
- Forward to:** Target group, Target type: Lambda@Edge

A "Create target group" button is also visible.

The form for creating a new load balancer:

- Add-on services tab:** Shows "None" and a "Tags" section.
- Attributes:** A note states: "Certain default attributes will be applied to your load balancer. You can view and edit them after creating the load balancer."
- Create load balancer** button.

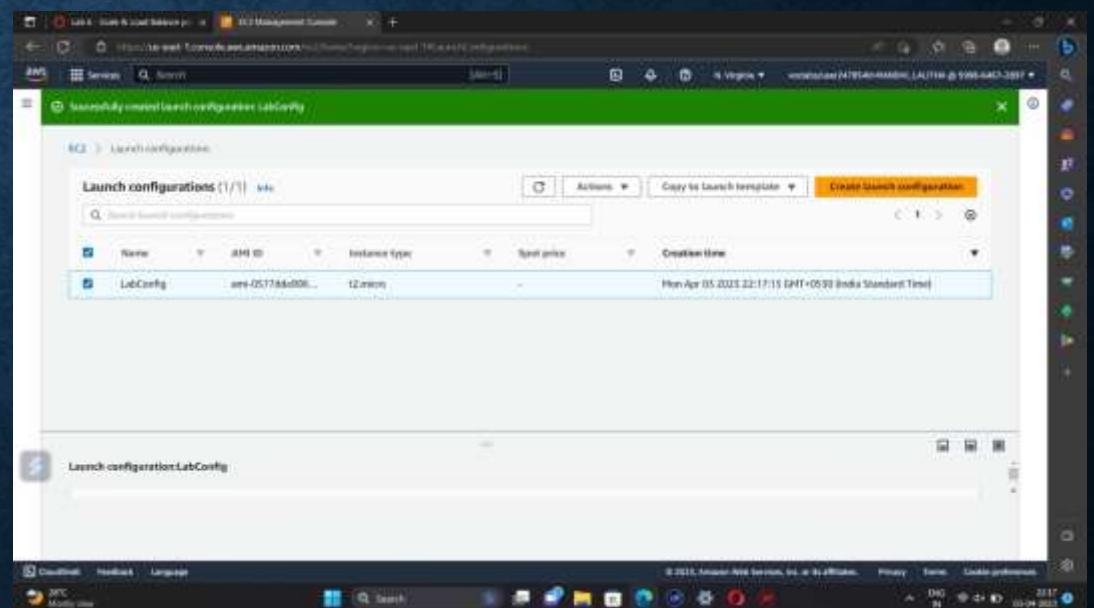
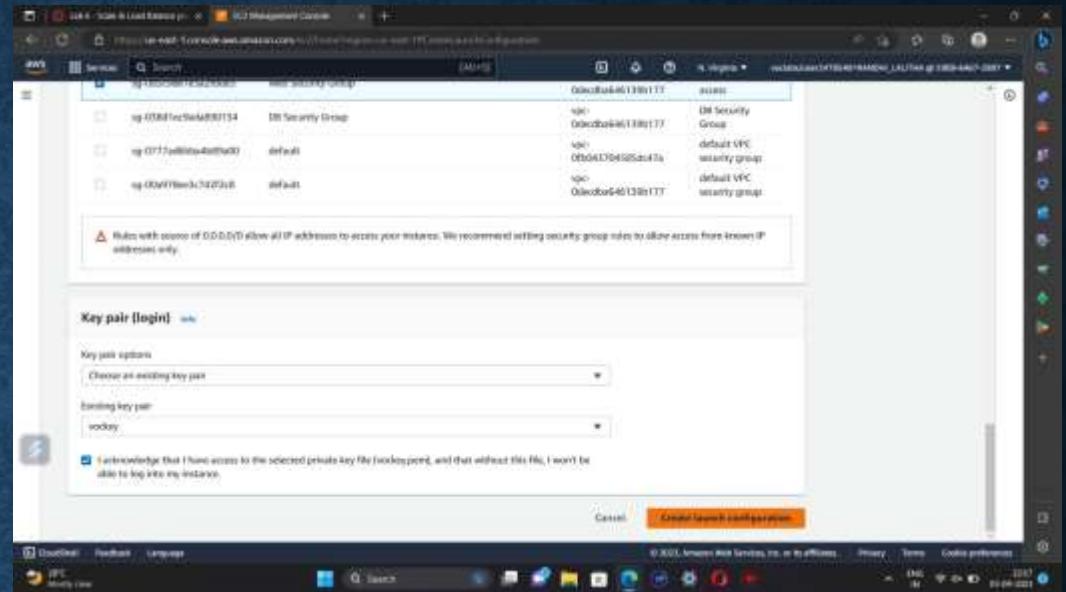
The screenshot shows the "Launch configurations" section of the EC2 Management Console.

- Message:** "Recommendation to not use Launch configurations. Amazon EC2 Auto Scaling no longer needs support for new EC2 features to launch configurations and will stop supporting new EC2 instance types after December 31, 2023. We recommend that customers using launch configurations migrate to launch templates. For more information, see the documentation." [See the documentation](#)
- Launch configurations:** A table with columns: Name, AMI ID, Instance type, Spot price, and Creation time. A note says: "No launch configurations found in this region." A "Create launch configuration" button is available.

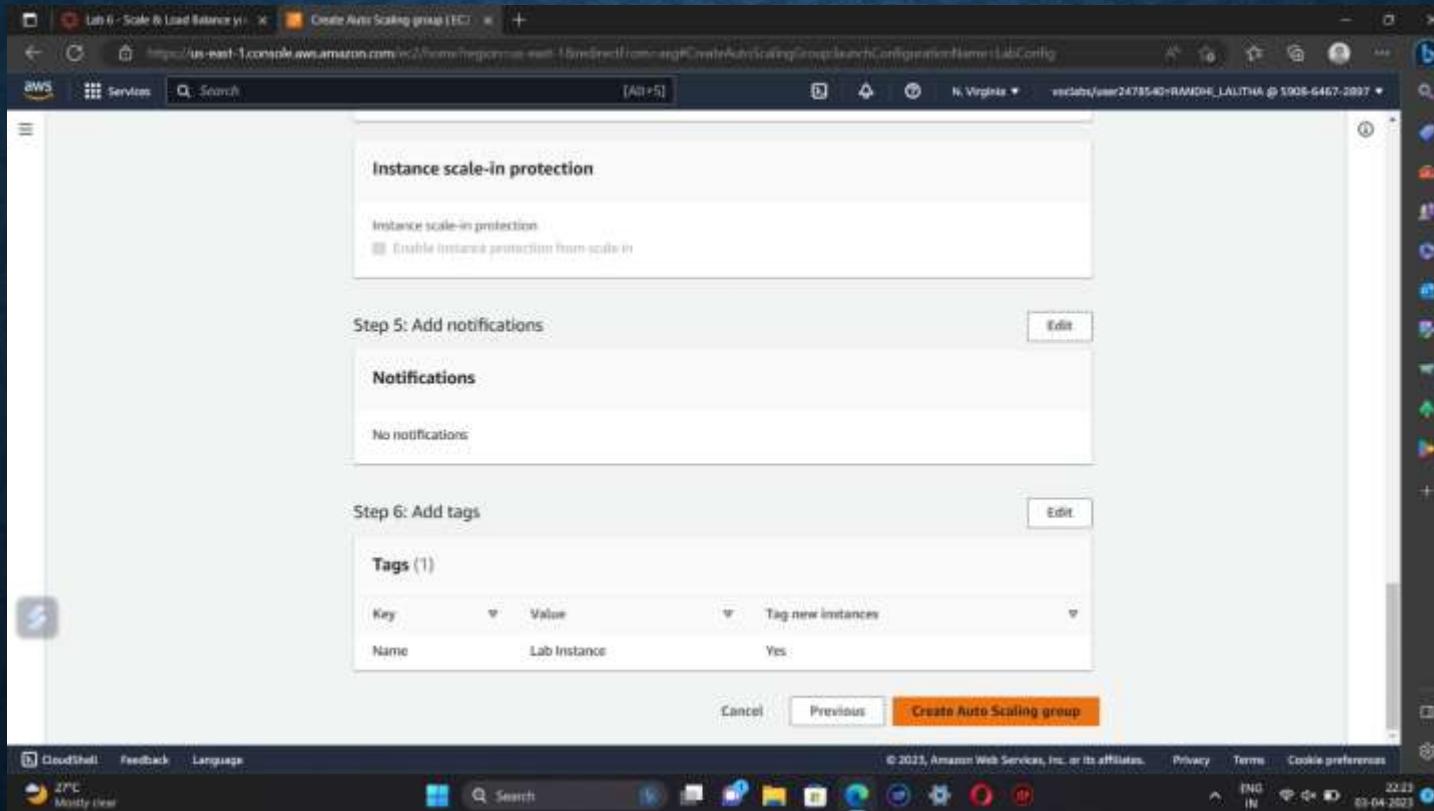
- ❖ Click create load balancer.

Task 3: Create a Launch Configuration and an Auto Scaling Group

- ❖ In Launch Configurations, click create launch configuration.
- ❖ Name the configuration and for AMI choose web server AMI that you created in task 1.
- ❖ Select the instance type.
- ❖ Under Additional Configuration, for monitoring select Enable EC2 instance detailed monitoring within CloudWatch.
- ❖ Under security groups , choose an existing security group Web Security Group.
- ❖ Under key pair, choose an existing key pair vockey. Check I acknowledge...
- ❖ Click Create launch configuration.
- ❖ For created launch configuration, select create auto scaling group from actions.
- ❖ Name it and select Lab VPC under VPC, select the private subnets.
- ❖ Select an existing load balancer which was created earlier.
- ❖ In the **Additional settings - optional** pane, select **Enable group metrics collection within CloudWatch**

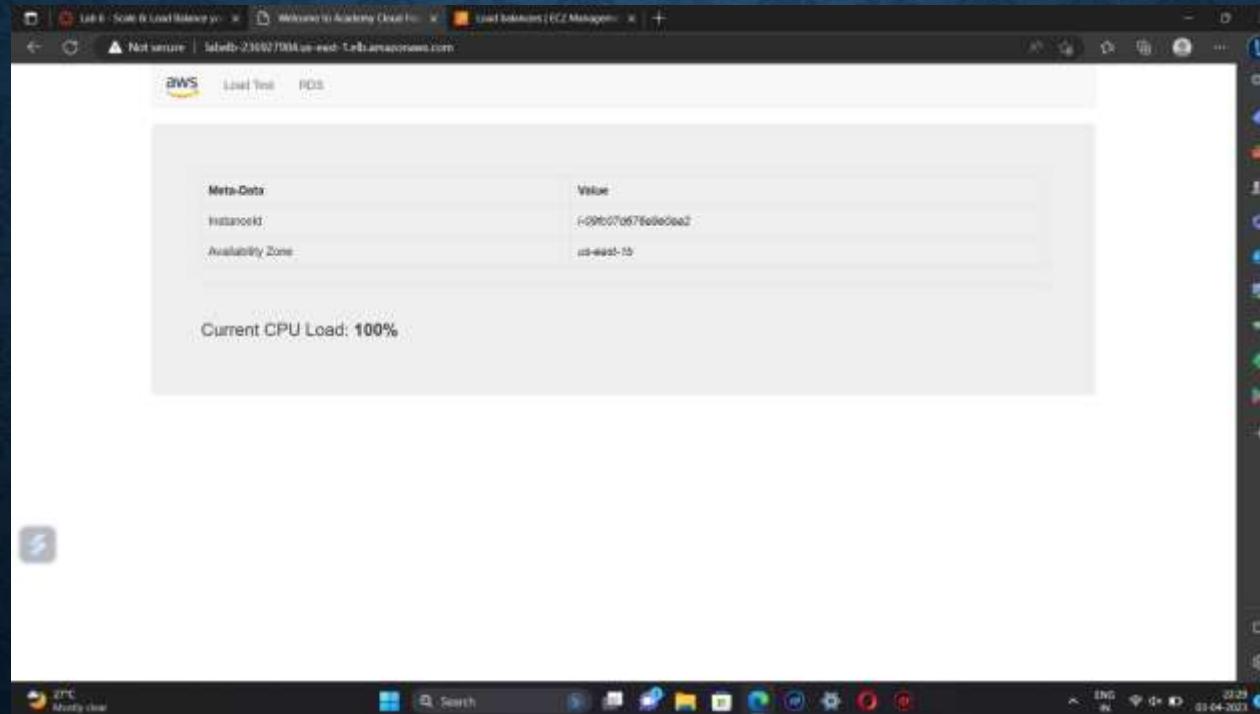


- ❖ Specify the values under Group size.
- ❖ Under **Scaling policies**, choose *Target tracking scaling policy* and name the policy. Specify metric type and target value. Then add a tag and click create auto scaling group.



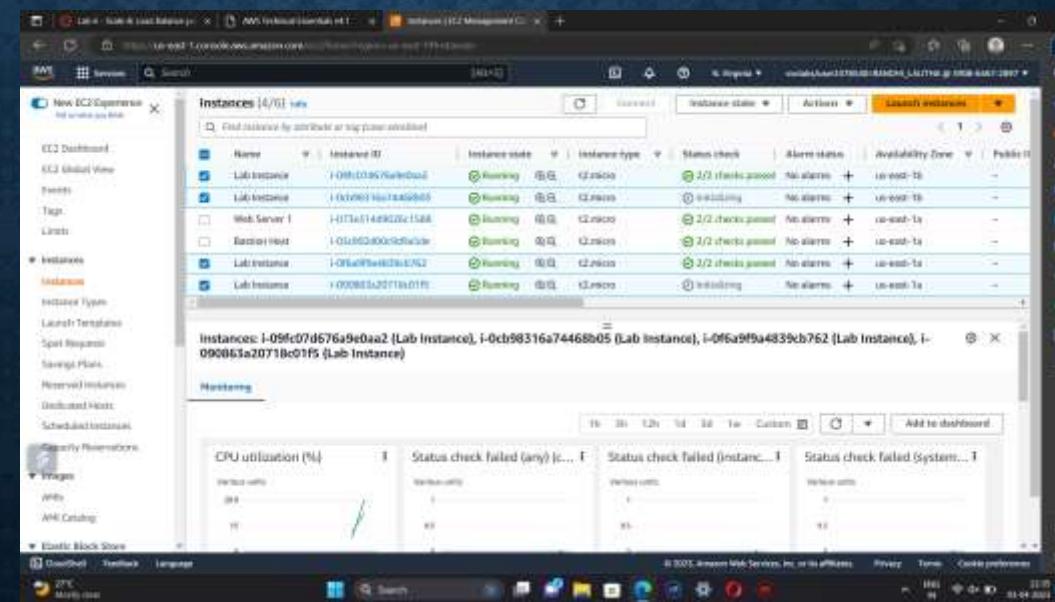
Task 4: Verify that Load Balancing is Working

- ❖ click **Instances**. You should see two new instances named **Lab Instance**. These were launched by Auto Scaling.
- ❖ In the labgroup target group, two **Lab Instance** targets should be listed for this target group. Wait until the **Status** of both instances transitions to *healthy*.
- ❖ Now copy the DNS name of the created load balancer making sure to omit "(A Record)". and paste it in a new browser
- ❖ The application should appear in your browser. This indicates that the Load Balancer received the request, sent it to one of the EC2 instances, then passed back the result.



Task 5: Test Auto Scaling

- ❖ On the **Services** menu, click **CloudWatch**. In the left navigation pane, choose **All alarms**. Two alarms will be displayed. These were created automatically by the Auto Scaling group.
- ❖ From services select EC2 and choose Auto Scaling Groups and select Lab Auto Scaling Group which you created.
- ❖ choose the **Automatic Scaling** tab. Select **LabScalingPolicy** and from actions change the target value to 50.click update.
- ❖ To go cloudwatch and click all alarms and verify.
- ❖ Click the **OK** alarm, which has *AlarmHigh* in its name.Return to the browser tab with the web application. Click **Load Test** beside the AWS logo.This will cause the application to generate high loads.
- ❖ You should see the **AlarmHigh** chart indicating an increasing CPU percentage. Once it crosses the 60% line for more than 3 minutes, it will trigger Auto Scaling to add additional instances.
- ❖ In EC2 instances , you notice that more than two instances labeled **Lab Instance** should now be running.
- ❖ Finally terminate the Web Server 1.



AWS S3 (SIMPLE STORAGE SERVICE)

Procedure:

TASKS FOR CONFIGURING S3:

- 1.Log into the AWS Management Console.
- 2.Create an S3 bucket.
- 3.Upload an object to S3 Bucket.
- 4.Access the object on the browser.
- 5.Change S3 object permissions.
- 6.Setup the bucket policy and permission and test the object accessibility.

STEPS :

Step 1: Click on **create group**.

Step 2: Set up the bucket name. S3 bucket name are globally unique, choose a name which is available. Leave other settings as default and click on **create group**.

Step 3: Click on your bucket name.

Step 4: Click Upload.

Step 5: Click on Add Files , and choose a file from your computer.

Step 6: After choosing your file, click on Next.

Step 7: Click on Upload.

Step 8:Now you have a private S3 bucket with a private object uploaded, which means you cannot visit it through Internet.

Step 9:Now you have a private S3 bucket with a private object uploaded, which means you cannot visit it through Internet.

CHANGE BUCKET PERMISSIONS:

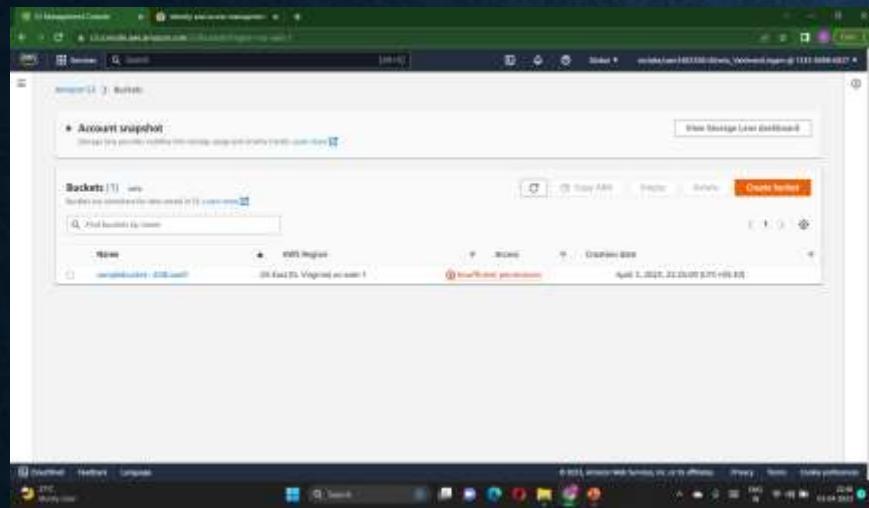
Step 10:Go back to your bcket and click on Permissions.

Step 11:Click on Everyone under the Public access, and click on Read object on the right of pop-up window. Then click on Save.

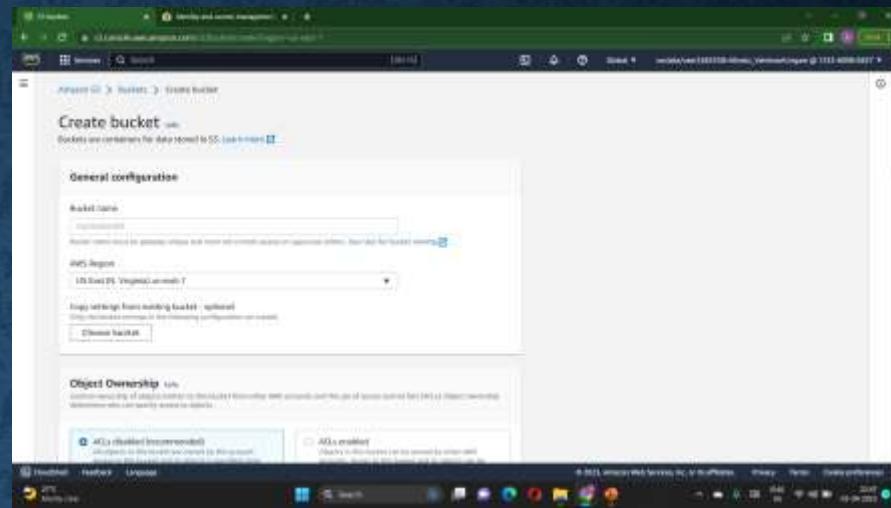
Step 12 :Now its state switches to Read Object - Yes

Step 13:Click on Overview, and click on your Object URL again .

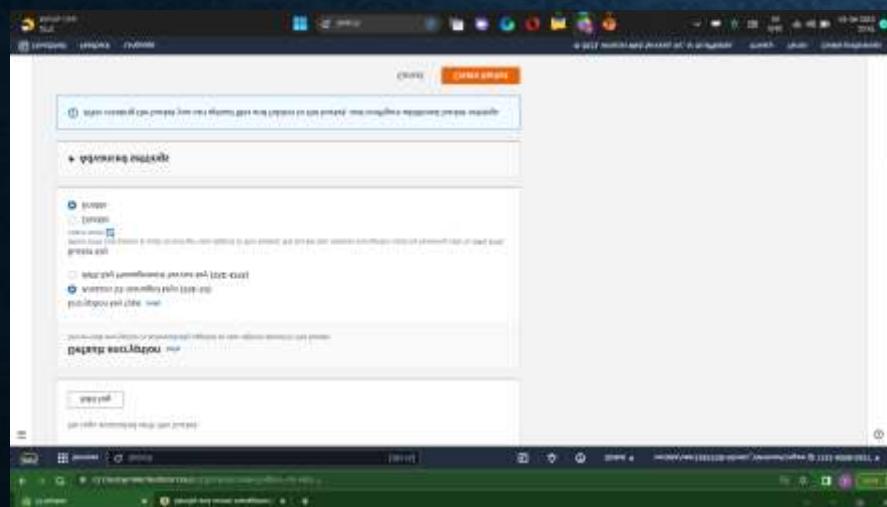
Step 14:Notice the URL on your browser



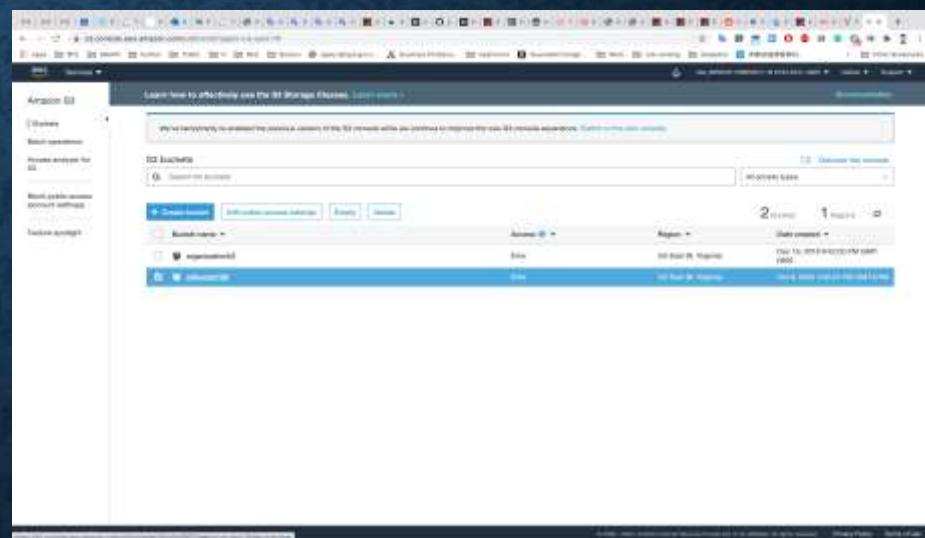
Step 1



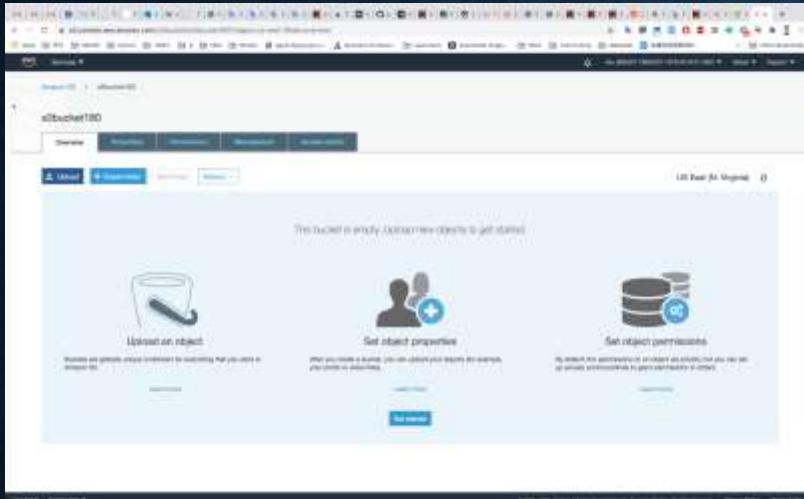
Step 2



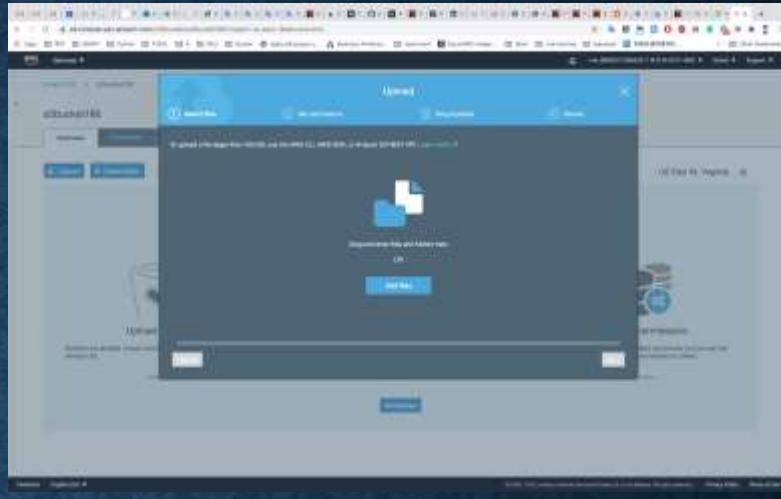
Step 2



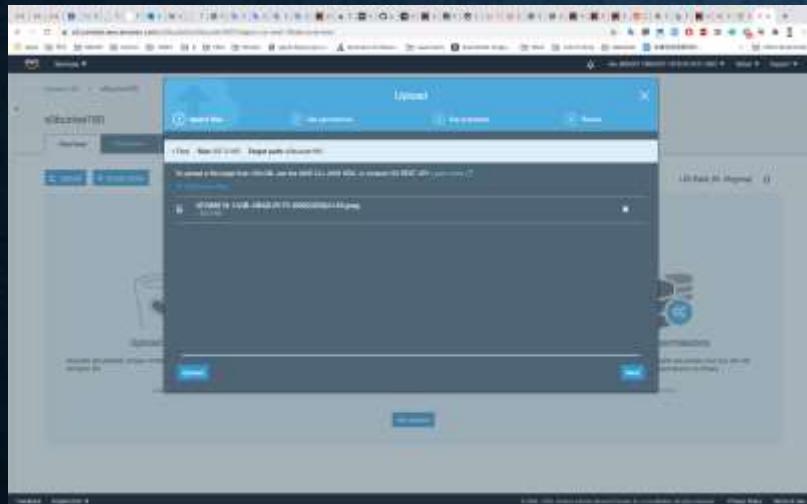
Step 3



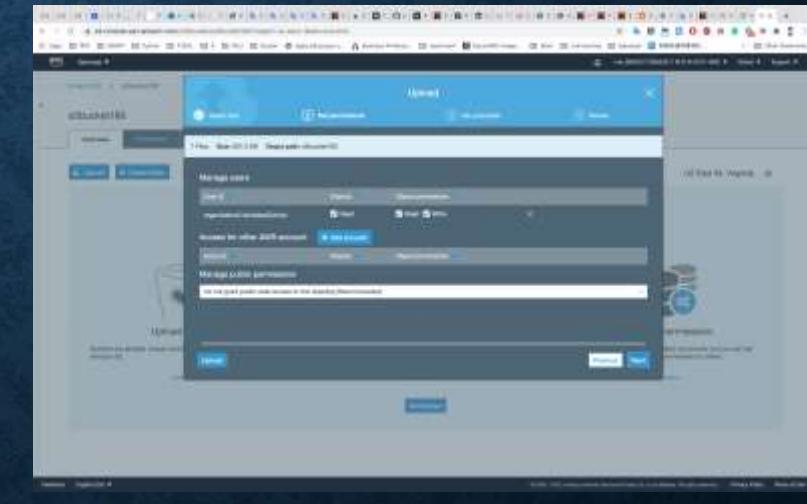
Step 4



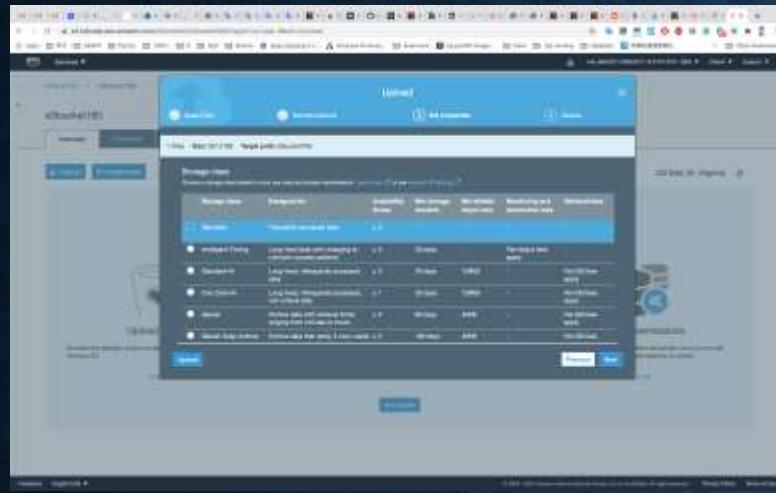
Step 5



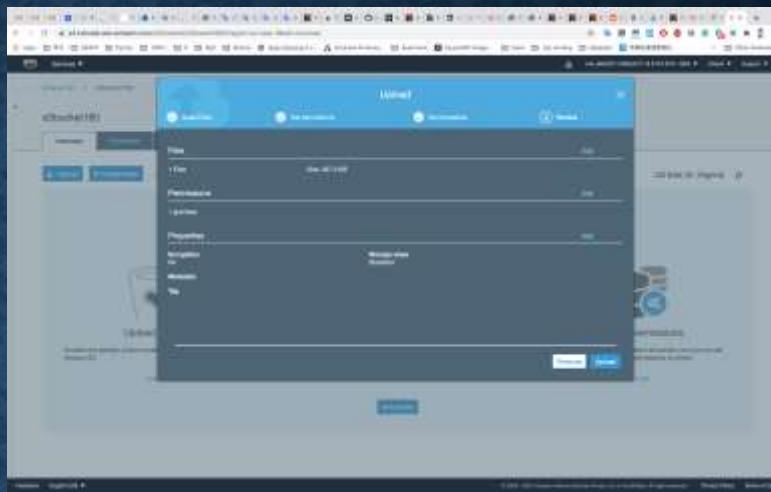
Step 6



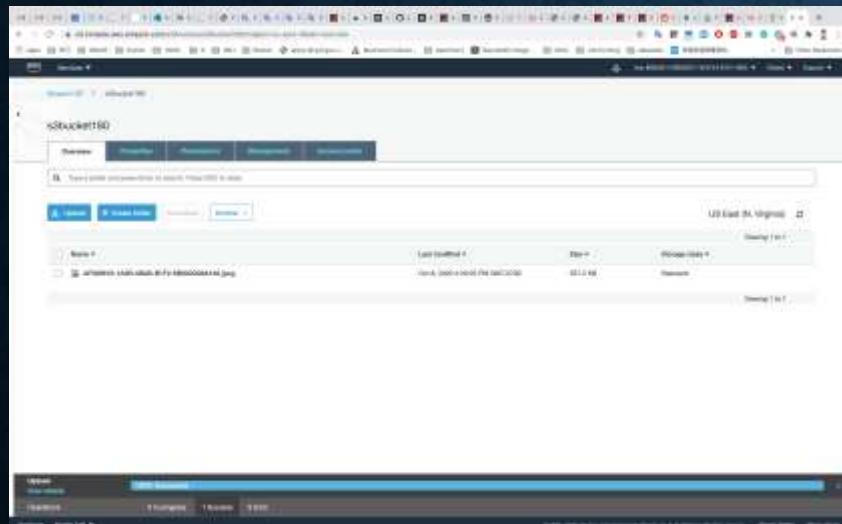
Step 7



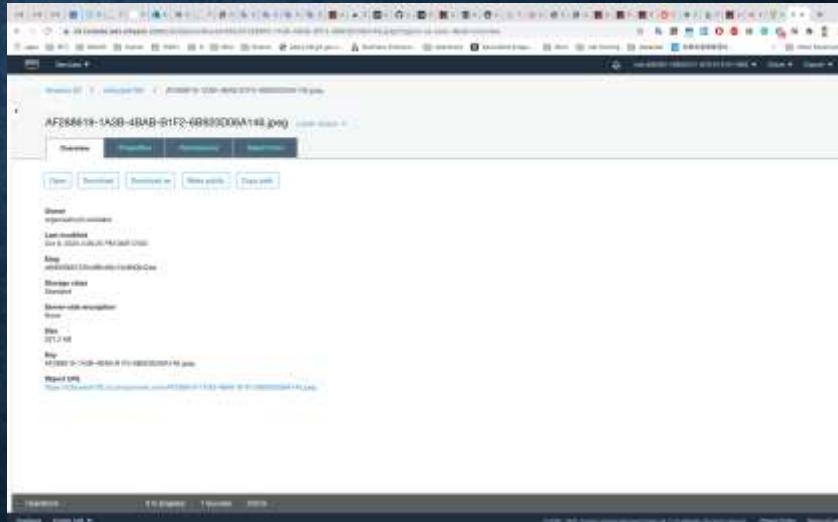
Step 8



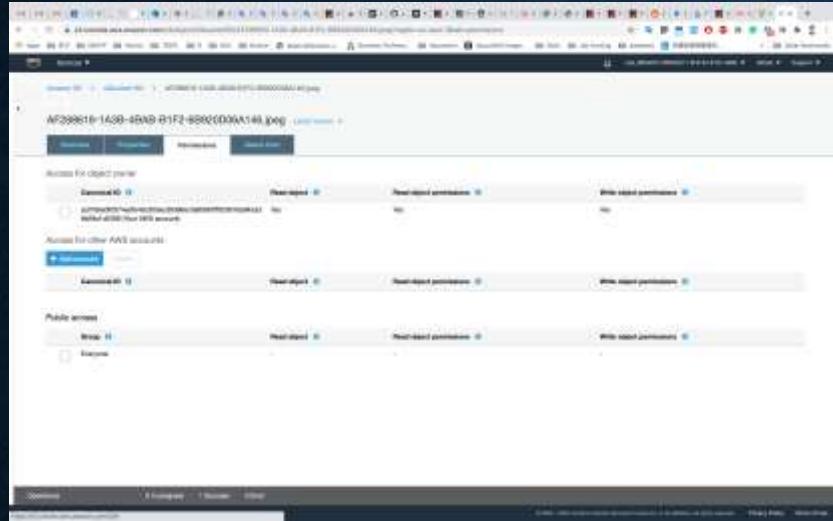
Step 9



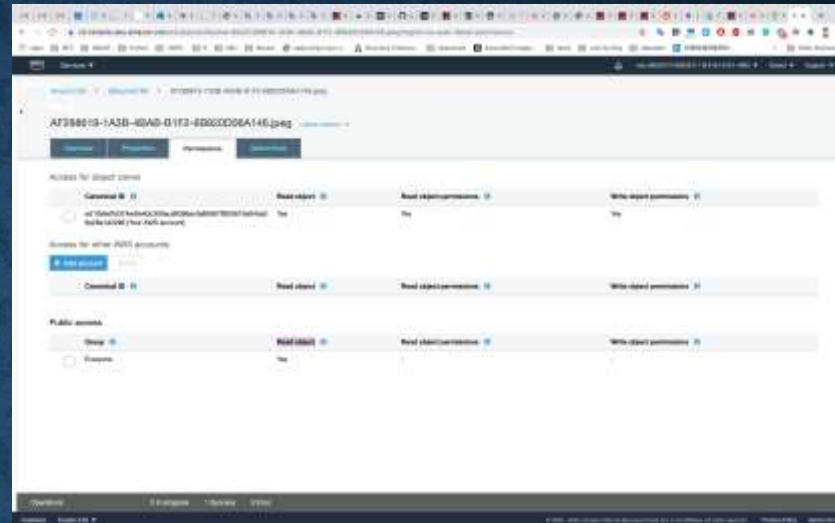
Step 10



Step 11



Step 12



Step 13



Step 14