

CLOUD COMPUTING

(Task-2)

Budget and Alarm:

The screenshot shows the AWS Billing Management Console interface. On the left, a sidebar menu includes Home, Billing (with sub-options Bills, Payments, Credits, Purchase orders, Cost & usage reports, Cost categories, Cost allocation tags, Free tier, and Billing Conductor), Cost Management (with sub-options Cost explorer, Budgets, Budgets reports, and Savings Plans), and Preferences. The main content area displays the following sections:

- Introducing the new AWS account page experience**: A message stating "We've redesigned the AWS account page. Let us know what you think." It lists two regions: US West (Oregon) and US West (US California), both marked as "Enabled by default".
- IAM user and role access to Billing information**: A section showing "IAM user/role access to billing information" which is currently "Deactivated". There is an "Edit" button.
- Reserved instance marketplace settings**: A section describing the Reserved Instance Marketplace and its flexibility. It includes links for "Manage seller and bank account information" and "Manage tax settings".

At the bottom of the window, there is a toolbar with icons for CloudShell, Feedback, Language, and various system status indicators like battery level, signal strength, and date/time (11:33, 07-07-2023).

Screenshot of the AWS Billing Management Console showing account updates.

The screenshot shows three stacked windows of the AWS Billing Management Console:

- Top Window:** Shows a green success message: "Your IAM Access setting was updated successfully." It lists two regions: "US West (N. California)" and "US West (Oregon)", both marked as "Enabled by default".
- Middle Window:** Shows a green success message: "Your invoice delivery preferences were updated successfully." It also shows a green success message: "Your alert preferences were updated successfully."
- Bottom Window:** Shows a green success message: "Your alert preferences were updated successfully."

The sidebar on the left lists various AWS services and features under categories like Billing, Cost Management, Preferences, and Permissions.

Cloud Intern Task 2023 - Google Sheets | Billing Management Console

us-east-1.console.aws.amazon.com/billing/home?region=us-east-1#/preferences

Gmail YouTube Maps AWS Management Console GitHub

AWS Services Search [Alt+S]

Purchase orders Cost & usage reports Cost categories Cost allocation tags Free tier Billing Conductor

Cost Management Cost explorer Budgets Budgets reports Savings Plans

Preferences Billing preferences Payment preferences Consolidated billing Tax settings

Permissions Affected policies

Your invoice delivery preferences were updated successfully.

AWS Billing > Billing preferences

Billing preferences

Invoice delivery preferences

PDF invoices delivery by email Activated

Alert preferences

Receive AWS Free Tier alerts
Your AWS Free Tier usage alerts will be delivered to this account's root user email address if this is activated. You can add an additional recipient for these email alerts.
Additional email address to receive alerts - optional
Email address (optional)

Receive CloudWatch billing alerts
Once enabled, this preference cannot be disabled.

Update Cancel

Detailed billing reports (legacy)

CloudShell Feedback Language

31°C Mostly cloudy

Search

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ENG IN 11:39 07-07-2023

The screenshot shows the AWS Billing Management Console interface. A success message at the top indicates that invoice delivery preferences have been updated. The 'Billing preferences' section is open, showing options for invoice delivery by email (which is activated) and alert preferences. Under 'Alert preferences', there is a checked checkbox for 'Receive AWS Free Tier alerts'. Below it, there is an unchecked checkbox for 'Receive CloudWatch billing alerts'. At the bottom of the page, there is a 'Detailed billing reports (legacy)' section and a standard Windows taskbar at the bottom.

Cloud Intern Task 2023 - Google | Billing Management Console | create a budget and alarm in aw... | +

us-east-1.console.aws.amazon.com/billing/home?region=us-east-1#/budgets/overview

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Your budget My Zero-Spend Budget has been created successfully. After creating a budget, it can take up to 24 hours to populate all of your spend data. Submit feedback

AWS Billing > Budgets > Overview

Overview Info

Budgets (1) Info

Find a budget Actions Create budget

Name	Thresholds	Budget	Amount used	Forecasted ...	Current vs. budgeted
My Zero-Spend Budget	OK	\$1.00	\$0.00	-	0.00%

CloudShell Feedback Language 31°C Mostly cloudy Search © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences ENG IN 07-07-2023

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us-east-1.console.aws.amazon.com/billing/home?region=us-east-1#/budgets/create?budgetAmount=1&budgetPeriod=Monthly&budgetPlannerType=FIXED&budgetType=COST&budgetUnit=USD

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Budget name
Provide a descriptive name for this budget.

Names must be between 1-100 characters.

Email recipients
Specify the email recipients you want to notify when the threshold has exceeded.

Maximum number of email recipients is 10.

Scope
All AWS services are in scope in this budget.
You will be notified via email when any spend above \$0.01 is incurred.

Template settings
This template has default configurations that can be changed later. To change any of these settings, see [Custom](#). You can also download this template in [JSON](#).

Create budget

CloudShell Feedback Language 31°C Mostly cloudy Search © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences ENG IN 11:47 07-07-2023

The screenshot shows the AWS Billing Management Console with the URL <https://us-east-1.console.aws.amazon.com/billing/home?region=us-east-1#/budgets/create?budgetAmount=1&budgetPeriod=Monthly&budgetPlannerType=FIXED&budgetType=COST&budgetUnit=USD>. The main content is titled "Choose budget type". It includes sections for "Budget setup" (with options for "Use a template (simplified)" or "Customize (advanced)"), "Templates - new" (listing "Zero spend budget", "Monthly cost budget", "Daily Savings Plans coverage budget", and "Daily reservation utilization budget"), and a sidebar with navigation links for Home, Billing, Cost Management, Preferences, and more.

IAM user:

The screenshot shows the AWS IAM Management Console with the URL <https://us-east-1.console.aws.amazon.com/iamv2/home?region=ap-southeast-2#/home>. The main content is titled "IAM dashboard". It includes sections for "Security recommendations" (with items like "Add MFA for root user" and "Root user has no active access keys"), "AWS Account" (with account ID 238443730399 and alias 238443730399), "IAM resources" (showing 0 User groups, 0 Users, 2 Roles, 0 Policies, and 0 Identity providers), "What's new" (listing recent updates), and "Quick Links" (links to My security credentials, Tools, and Policy simulator). The sidebar on the left provides navigation for Identity and Access Management (IAM).

Screenshot of the AWS IAM console showing the creation of a new user group named "Admin".

Identity and Access Management (IAM) - Admin

Summary

User group name: Admin
Creation time: July 07, 2023, 11:55 (UTC+05:30)
ARN: arn:aws:iam::238443730399:group/Admin

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.

Create user group

Step 2: Set permissions

Step 3: Review and create

Create user group

Create a user group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. [Learn more](#)

User group name
Enter a meaningful name to identify this group.

Permissions policies (861)

Filter by Type: All type

Policy name	Type	Use...	Description
AdministratorAccess	AWS managed	None	Provides full access to AWS services
AdministratorAccess	AWS managed	None	Grants account administrative permission
AdministratorAccess	AWS managed	None	Grants account administrative permission
AlexaForBusinessDeviceSetup	AWS managed	None	Provides device setup access to Alexa
AlexaForBusinessFullAccess	AWS managed	None	Grants full access to AlexaForBusiness

Create user group

Screenshot of the AWS IAM 'Create user' wizard Step 2: Set permissions.

The 'Permissions options' section shows three choices:

- Add user to group: Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.
- Copy permissions: Copy all group memberships, attached managed policies, and inline policies from an existing user.
- Attach policies directly: Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

The 'User groups (1)' table lists the Admin group with 0 attached policies, created on 2023-07-07 (6 minutes ago). A 'Create group' button is available.

Screenshot of the AWS IAM 'Create user' wizard Step 3: Review and create.

The 'Specify user details' section shows the user name 'Deepthed' entered. Other fields include:

- Provide user access to the AWS Management Console - optional
- If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keypairs, you can generate them after you create this IAM user. [Learn more](#)

Buttons at the bottom are 'Cancel' and 'Next'.



The image consists of three vertically stacked screenshots of the AWS IAM (Identity and Access Management) console.

Screenshot 1: IAM > Users

This screenshot shows the "Users" page. The sidebar on the left 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 "Users (0) Info" and contains a search bar and a table header with columns: User name, Groups, Last activity, MFA, Password age, and Active key age. A message at the bottom states "No resources to display".

Screenshot 2: IAM > Policies > AdministratorAccess

This screenshot shows the "AdministratorAccess" policy details. The sidebar is identical to the first screenshot. The main content area is titled "AdministratorAccess" and describes it as "Provides full access to AWS services and resources". It includes a "Policy details" section with a table showing Type (AWS managed - job function), Creation time (February 07, 2015, 00:09 (UTC+05:30)), Edited time (February 07, 2015, 00:09 (UTC+05:30)), and ARN (arn:aws:iam::aws:policy/AdministratorAccess). Below this are tabs for Permissions, Entities attached, Policy versions, and Access Advisor. The "Permissions defined in this policy" section lists "Allow (380 of 380 services)" and includes a search bar and summary/json buttons.

Screenshot 3: IAM > Policies > New policy

This screenshot shows a new policy creation page. The sidebar is identical to the previous screenshots. The main content area has a title "New policy" and a sub-section "Create a new policy from scratch". It includes a "Policy document" input field containing the following JSON:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Allow",
            "Action": "*",
            "Resource": "*"
        }
    ]
}
```

The status bar at the bottom indicates "11:57 07-07-2023".

Screenshot of the AWS IAM Policies page showing a list of 1104 policies.

Policies (1104) Info

A policy is an object in AWS that defines permissions.

Actions | **Create policy**

Policy name	Type	Used ...	Description
AdministratorAccess	AWS managed - job function	None	Provides full access to AWS services and reso...
PowerUserAccess	AWS managed - job function	None	Provides full access to AWS services and reso...
ReadOnlyAccess	AWS managed - job function	None	Provides read-only access to AWS services an...
AWSCloudFormationReadOnlyAccess	AWS managed	None	Provides access to AWS CloudFormation via th...
CloudFrontFullAccess	AWS managed	None	Provides full access to the CloudFront console ...
AWSCloudHSMFullAccess	AWS managed	None	Provides full access to all CloudHSM resources.
AWSCloudHSMReadOnlyAccess	AWS managed	None	Provides read only access to all CloudHSM res...
ResourceGroupsandTagEditorFullAccess	AWS managed	None	Provides full access to Resource Groups and T...

User groups (1) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Create group

Group name	Users	Permissions	Creation time
Admin	0	Not defined	Now

Screenshot of the AWS IAM User Groups page showing 0 user groups.

The screenshot shows the AWS IAM User Groups page. 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 displays a table with columns for Group name, Users, Permissions, and Creation time. A message at the top states: "User groups (0) Info: A user group is a collection of IAM users. Use groups to specify permissions for a collection of users." A "Create group" button is located in the top right corner of the table header.

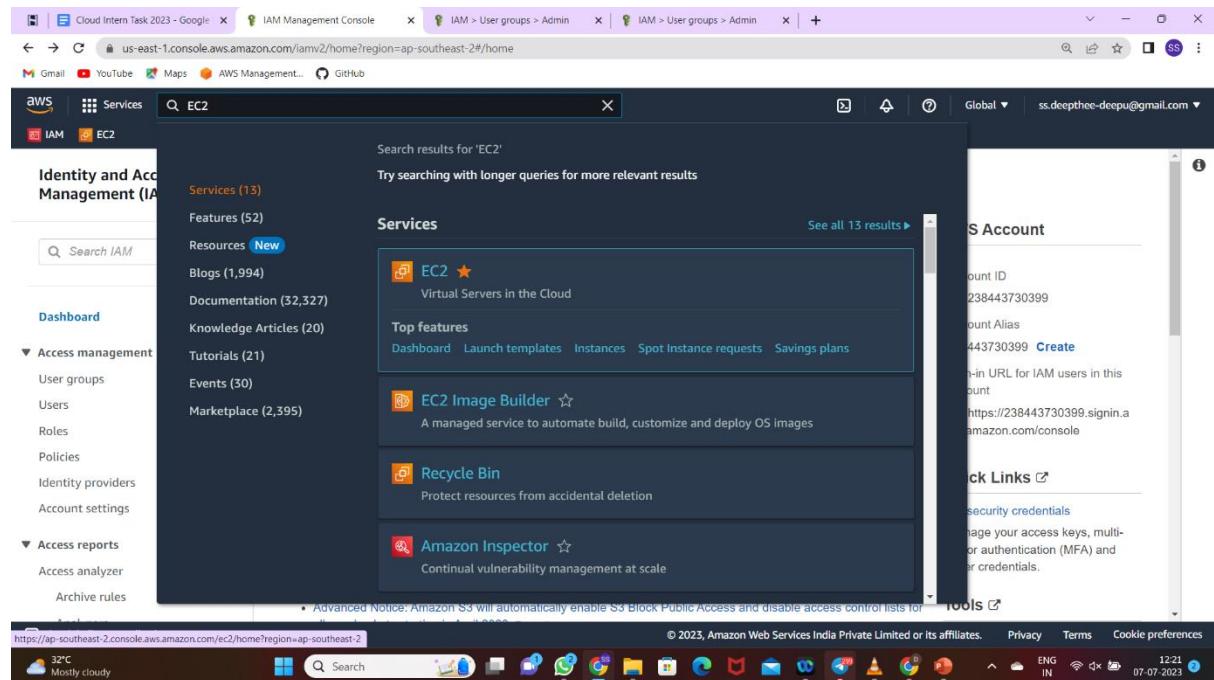
Screenshot of the AWS IAM Users page showing 1 user created successfully.

The screenshot shows the AWS IAM Users page. 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). A green success message at the top says: "User created successfully. You can view and download the user's password and email instructions for signing in to the AWS Management Console." A "View user" button is present. The main content area displays a table with columns for User name, Groups, Last activity, MFA, Password age, and Active key age. One user named "Deepthee" is listed.

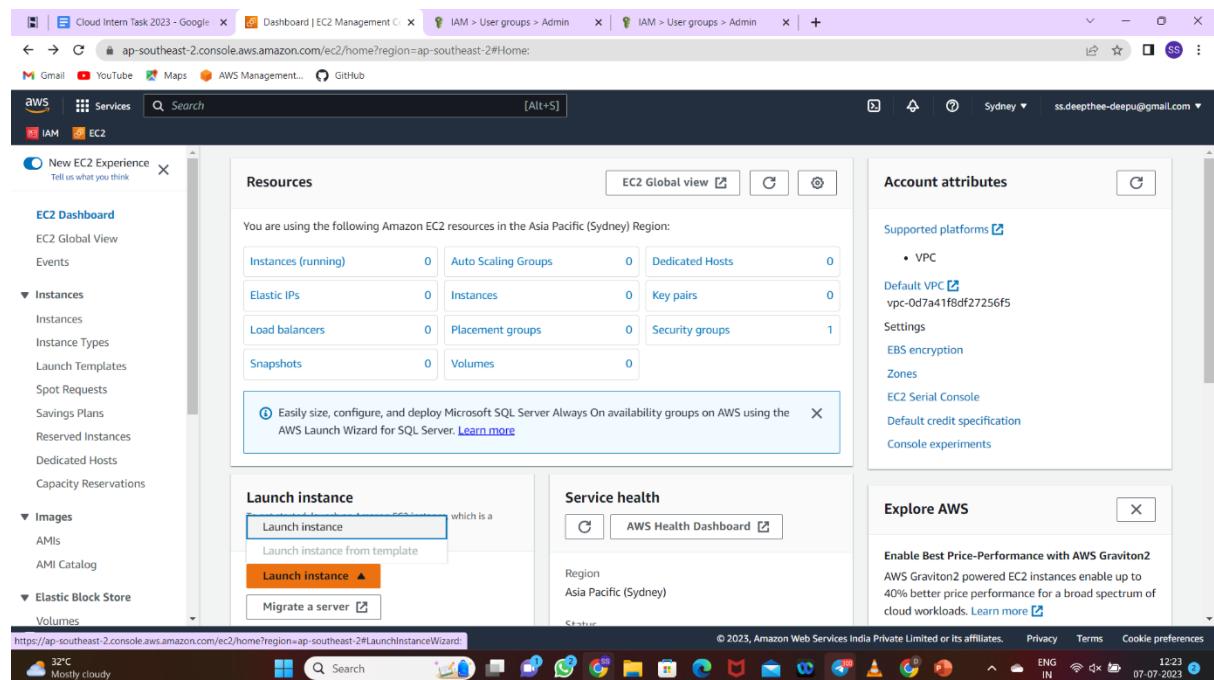
Steps & configuration for EC2 instance :

STEPS:

1.Type EC2 in search Bar and add it into Bookmark.



2.Click on Launch Instance and name the Instance.



3.Select the image for your Instance.

The screenshot shows the 'Launch an instance' wizard in the AWS Management Console. The current step is 'Summary'. In the 'Number of instances' field, '1' is entered. Under 'Software Image (AMI)', 'Microsoft Windows Server 2022 Base' is selected. The 'Virtual server type (instance type)' is set to 't2.micro'. The 'Firewall (security group)' is 'New security group'. Under 'Storage (volumes)', '1 volume(s) - 30 GiB' is selected. At the bottom right are 'Cancel', 'Launch instance' (in orange), and 'Review commands'.

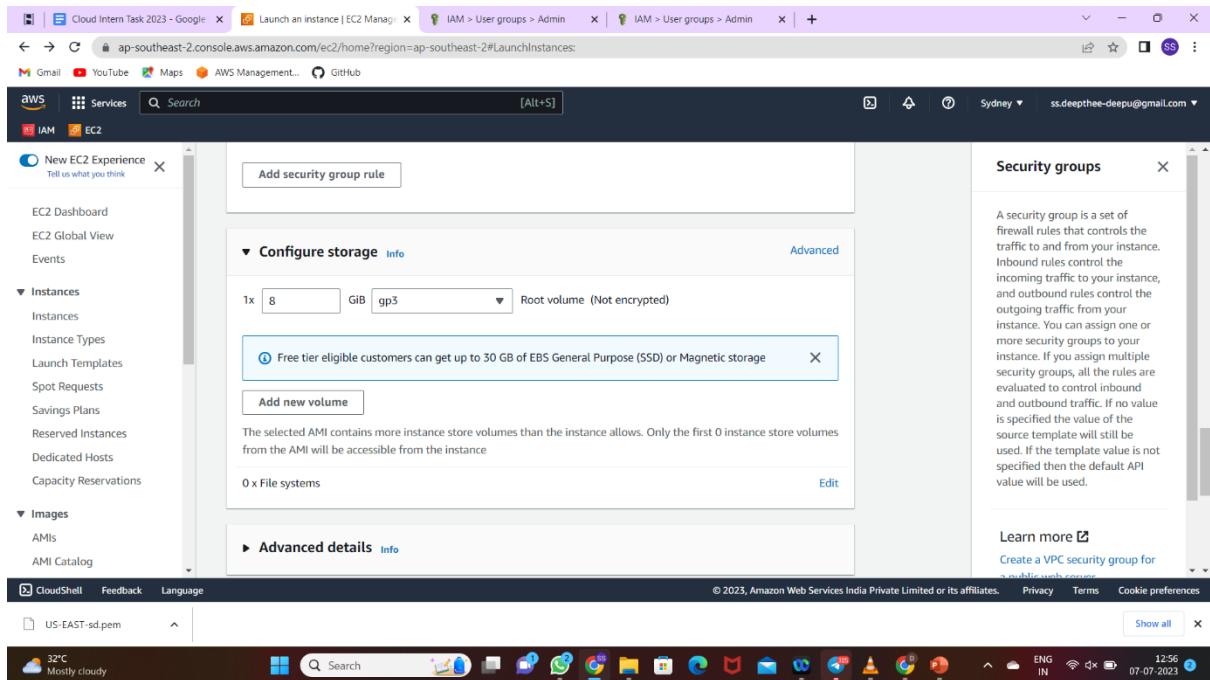
4. Now in AMI (Amazon Machine Image) click Free Tier and give Architecture size as 64.

5. After Scroll Down -> Key Pair Login -> Create a new Pair.

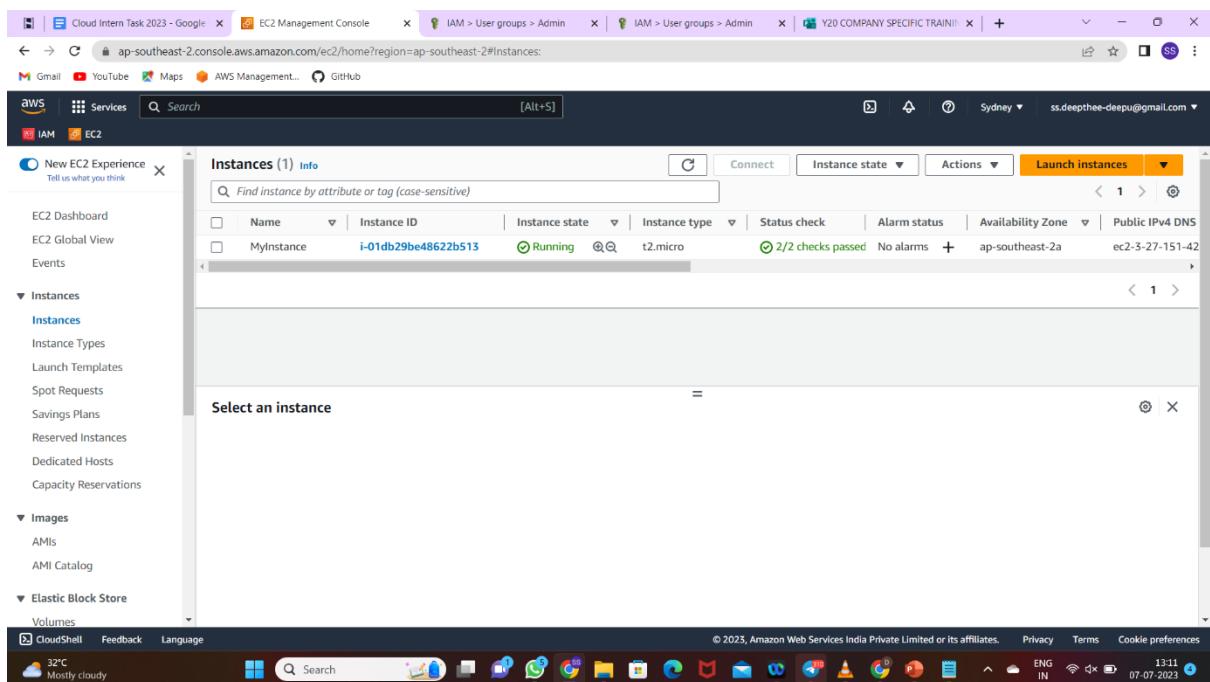
The screenshot shows the 'Create key pair' dialog box overlaid on the EC2 wizard. In the 'Key pair name' field, 'US-EAST-sd' is entered. The 'Key pair type' section has 'RSA' selected. The 'Private key file format' section has '.pem' selected. A warning message at the bottom states: 'When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance.' Below the dialog are 'Cancel' and 'Create key pair' buttons.

6. Now insert the key pair name then it will be created.

7. In configure storage the valued can be 1*30 GIB gp3.



8.In the summary we can observe the changes and click on launch instance.



The screenshot shows the AWS Cloud9 interface with the EC2 Instances page open. The instance summary for 'i-01db29be48622b513 (MyInstance)' is displayed, showing details such as Public IPv4 address (3.27.151.42), Instance state (Running), and VPC ID (vpc-0d7a41f8df27256f5). The left sidebar shows navigation options for EC2 Dashboard, Instances, Images, and Elastic Block Store.

9. Now the left side clicking on instance you can visible your created instance.

10. Connect to Instance (Don't make any changes).

The screenshot shows the AWS Cloud9 interface with the 'Connect to instance' page open. It displays connection options for the instance i-01db29be48622b513, including 'EC2 Instance Connect' (selected), 'Session Manager', 'SSH client', and 'EC2 serial console'. A note at the bottom states: 'Note: In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.'