

# IAM – Identity Access Management

## Scenario 1: IAM users, Groups, Policy and permissions.

Need to create one UserGroup – L1 support (they should have primary support to ec2)

L1 support policy should be like allow only the below and disable everything

Can reboot instance

Can start instance

Can take snapshot

Can delete the snapshot.

Can view the ec2 instances – add ec2:DescribeInstances policy

( we shouldn't have ability to launch the instance, delete the instance, modify the instance etc etc)

Need one user account to be created with the name testuser

He should be part of L1 UserGroup.

He should be able to reboot , start the instance and take the snapshot, delete the snapshot based on the tickets/request)

## Steps

### To create an group and add policy

**Step 1:** Go to aws console > IAM > under user group> create group

Name it – L1-support and select the user we need to.

If needed can select the policy here but to customize the policy leave it don't select anything and click on create a group.

#### Create user group

**Name the group**  
**User group name**  
Enter a meaningful name to identify this group.  
  
Maximum 128 characters. Use alphanumeric and '+', '@', '-', '\_' characters.

**Add users to the group - *Optional* (1/3)** Info  
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.  
 1 match  

<input checked="" type="checkbox"/>	User name	Groups	Last activity	Creation time
<input checked="" type="checkbox"/>	testuser	1	6 hours ago	6 hours ago

**Step 2:** Go to aws console > IAM > under polices> create policy

Step 1: Specify permissions

Step 2: Review and create

### Specify permissions Info

Add permissions by selecting services, actions, resources, and conditions. Build permission statements using the JSON editor.

**Policy editor** Visual JSON Actions +

**▼ Select a service**  
Specify what actions can be performed on specific resources in a service.

Service

[+ Add more permissions](#)

[Cancel](#) [Next](#)

Select visual , **select a service** as – ec2

Select the action needed

And click next .

Step 3: Review and create.

Provide the name of the policy. – L1-supportpolicy

Step 1: Specify permissions

Step 2: Review and create

### Review and create Info

Review the permissions, specify details, and tags.

**Policy details**

**Policy name**  
Enter a meaningful name to identify this policy.  
  
Maximum 128 characters. Use alphanumeric and '+,=,@,-' characters.

**Description - optional**  
Add a short explanation for this policy.  
  
Maximum 1,000 characters. Use alphanumeric and '+,=,@,-' characters.

Create a policy.

Step 4: attach the policy to L1-support group

Go to groups > select l1-support group, under Add permissions > attach policies

**Identity and Access Management (IAM)**

Search IAM

Dashboard

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Users

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Identity providers

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Root access management New

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External access

**L1-support Info** [Delete](#)

**Summary** [Edit](#)

User group name: L1-support | Creation time: April 29, 2025, 22:50 (UTC+05:30) | ARN: arn:aws:iam::277707115759:group/L1-support

Users | **Permissions** | Access Advisor

**Permissions policies (0) Info** [Simulate](#) [Remove](#) [Add permissions](#)

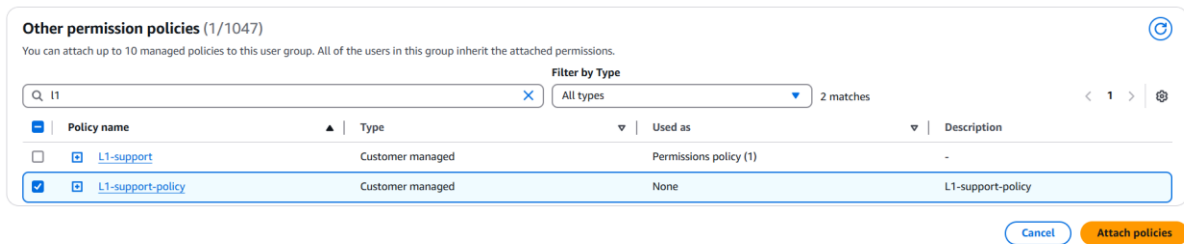
You can attach up to 10 managed policies.

**Filter by Type** All types

<input type="checkbox"/>	Policy name	Type	Attached entities
No resources to display			

[Attach policies](#)  
[Create inline policy](#)

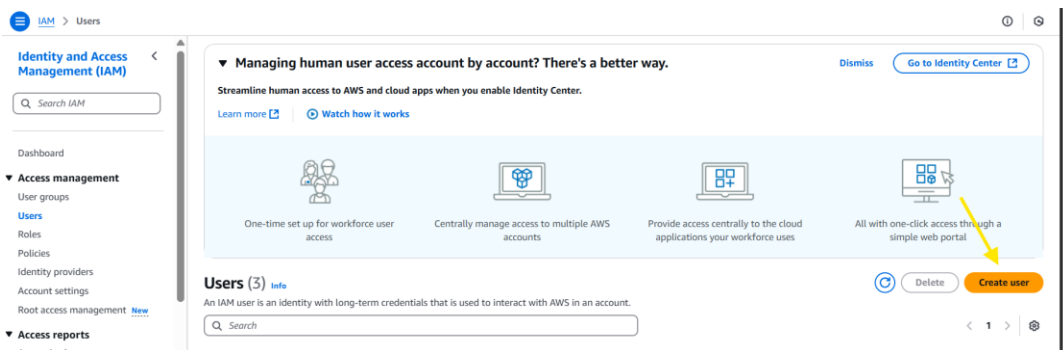
Select the policy which we created and select **attach policies**.



And also add **ec2readonlyaccess** permissions policy to the L1-support group

**To Create a user account and add that user to user groups.**

Step 1. Go to aws console > IAM > under user group > create user



Step 2: Provide the username, select **Provide user access to the AWS Management Console**

**Note: make sure it should be an unique name.**

**Specify user details**

User details

User name

TestUser

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ \_ - (hyphen)

☒ Provide user access to the AWS Management Console - optional

If you're providing console access to a person, it's a best practice to manage their access in IAM Identity Center.

Are you providing console access to a person?

User type

☐ Specify a user in Identity Center - Recommended

We recommend that you use Identity Center to provide console access to a person. With Identity Center, you can centrally manage user access to their AWS accounts and cloud applications.

☒ I want to create an IAM user

We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.

Step 3: auto generate or custom password your wish.

Better you select auto generate, the aws will create password for you then you can share those passwords to user.

Also select the box **“Users must create a new password at next sign-in – Recommended”** – so that user can change is password once he logs in.

If you prefer that user shouldn't change the password which you gave and he should you the same password, then **uncheck the box**

#### Step 4: set permissions

Select “add user to group” and select the **L1-support group**.

The screenshot shows the 'Set permissions' step of the AWS IAM 'Create user' wizard. On the left, a progress bar indicates four steps: 1. Specify user details, 2. Set permissions (current), 3. Review and create, and 4. Retrieve password. The main area is titled 'Set permissions' with a sub-header 'Permissions options'. There are three radio buttons: 'Add user to group' (selected), 'Copy permissions', and 'Attach policies directly'. Below this is a section 'User groups (2)' with a search bar and a table. The table has columns for 'Group name', 'Users', 'Attached policies', and 'Created'. Two groups are listed: 'EC2-ReadOnly' with 1 user and 'AmazonEC2ReadOnlyAccess' policy, and 'L1-support' with 0 users and 'L1-support-policy' policy. A 'Create group' button is in the top right of the table area.

Group name	Users	Attached policies	Created
EC2-ReadOnly	1	AmazonEC2ReadOnlyAccess	2025-04-29 (7 hours ago)
L1-support	0	L1-support-policy	2025-04-29 (43 minutes ago)

#### Step 5: next and create

The screenshot shows the 'Retrieve password' step of the AWS IAM 'Create user' wizard. A green banner at the top says 'User created successfully' with a 'View user' button. The main area is titled 'Retrieve password' with a sub-header 'Console sign-in details'. It provides a 'Console sign-in URL' (https://277707115759.signin.aws.amazon.com/console), 'User name' (TestUser1), and 'Console password' (masked with dots and a 'Show' button). At the bottom, there are three buttons: 'Cancel', 'Download .csv file', and 'Return to users list'.

Note: gather than giving user an account id, username and password.

Provide him with the console sign-in URL (alias)

So that user needs not to enter account id manually he can just enter username and password.

#### Validation; user can start the stopped instance

The screenshot shows the AWS Management Console 'Instances' page. A green banner at the top says 'Successfully initiated starting of i-0231f70b3f04fe16c'. The main area shows a table of instances. The first instance is 'i-0231f70b3f04fe16c', which is in the 'Pending' state, using the 't3.micro' instance type. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. A 'Launch instances' button is in the top right.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
	i-0231f70b3f04fe16c	Pending	t3.micro	-		ap-south-1c	-

