

# 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.

Q	test	X	1 match	<	1	>	⊗			
<input checked="" type="checkbox"/>	User name <small>[?]</small>			▲	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**

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

Service  
Choose a service

+ Add more permissions

Visual JSON Actions ▾

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.  
**L1-support-policy**

Maximum 128 characters. Use alphanumeric and '+-=\_,@-\_.' characters.

**Description - optional**  
Add a short explanation for this policy.  
**L1-support-policy**

Maximum 1,000 characters. Use alphanumeric and '+-=\_,@-\_.' characters.

Next Step

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

**Access management**

- User groups **L1-support**
- Roles
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**Access reports**

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- External access

**L1-support** Info

**Summary**

User group name: L1-support

Creation time: April 29, 2025, 22:50 (UTC+05:30)

ARN: arnawsiam:27707115759:group/L1-support

**Permissions**

**Permissions policies (0) Info**  
You can attach up to 10 managed policies.

**Add permissions**

Filter by Type: All types

Attached entities: No resources to display

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

The screenshot shows a list of permission policies. Two policies are listed: 'L1-support' and 'L1-support-policy'. The 'L1-support-policy' row has a blue checkmark next to the 'Policy name' column. At the bottom right of the table, there are 'Cancel' and 'Attach policies' buttons. A yellow arrow points to the 'Attach policies' button.

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

The screenshot shows the 'Users' page in the IAM console. It displays a list of users with 3 items. At the bottom right, there is a 'Create user' button, which is highlighted with a yellow arrow.

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

The screenshot shows the 'Specify user details' step. It includes a 'User name' field with 'TestUser' entered, a checked checkbox for 'Provide user access to the AWS Management Console - optional', and a radio button for 'I want to create an IAM user'.

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 logins.

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**.

Step 1  
Specify user details  
Step 2  
**Set permissions**  
Step 3  
Review and create  
Step 4  
Retrieve password

**Set permissions**  
Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

**Permissions options**

- 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.

**User groups (2)**

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

Step 1  
Specify user details  
Step 2  
Set permissions  
Step 3  
Review and create  
Step 4  
**Retrieve password**

**User created successfully**  
You can view and download the user's password and email instructions for signing in to the AWS Management Console. [View user](#)

**Retrieve password**  
You can view and download the user's password below or email users instructions for signing in to the AWS Management Console. This is the only time you can view and download this password.

**Console sign-in details**

Console sign-in URL  
<https://27770711579.sigin.aws.amazon.com/console>

User name  
 TestUser1

Console password  
 ..... [Show](#)

[Email sign-in instructions](#)

[Cancel](#) [Download .csv file](#) [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

**EC2**

Instances (1/1) [Info](#)

Last updated less than a minute ago

[Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input checked="" type="checkbox"/>	i-0231f70b3f04fe16c	Pending	t3.micro	-	<a href="#">View alarms +</a>	ap-south-1c	-

