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IAM



Essentially, IAM allows you to manage users and their level of access to the AWS Console. It is important to understand IAM and how it works, both for the exam and for administering a company's AWS account in real life.

IAM

- Centralised control of your AWS account
- Shared Access to your AWS account
- Granular Permissions
- Identity Federation (including Active Directory, Facebook, LinkedIn etc)
- Multifactor Authentication
- Provide temporary access for users/devices and services where necessary
- Allows you to set up your own password rotation policy
- Integrates with many different AWS services
- Supports PCI DSS Compliance

Users, Groups, Roles, Policy

- Users - End Users (think people)
- Groups – A collection of users under one set of permissions.
- Roles – You create roles and can then assign them to AWS resources
- Policies - A document that defines one (or more permissions)

IAM Lab

1. Create User, Roles and attach Policy
2. Configure AWS CLI with credentials – Access Key and Secret Access Key

Create a Billing Alarm

The screenshot shows the AWS Management Console interface. On the left, the 'My Billing Dashboard' link is highlighted with a red circle. The main content area is titled 'Alerts & Notifications' and contains several informational messages. Below these, the 'Receive Free Tier Usage Alerts' checkbox is checked and circled in red. Below this, the 'Email Address' field is visible. Further down, the 'Receive Billing Alerts' checkbox is also checked and circled in red. The text below this checkbox mentions 'new budgets feature!'.

My Account
My Organization
My Billing Dashboard
My Security Credentials
Sign Out

Alerts & Notifications

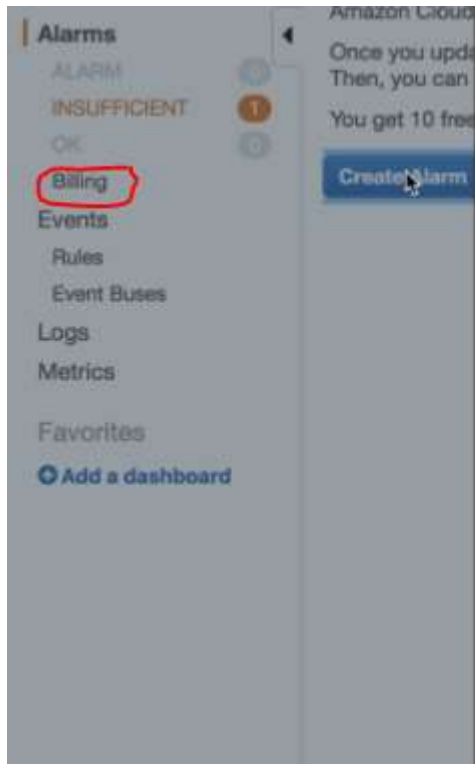
- You are eligible for the [AWS Free Usage Tier](#). See the [Getting Started Guide AWS Free Usage Tier](#) to learn how to get started with the free usage tier.
- Monitor your estimated charges. **Enable Now** to begin setting billing alerts that automatically e-mail you when charges reach a threshold you define.
- IAM access to your account's billing information is not enabled. You can enable it on the [Account Information](#) page.
- To ensure that we calculate your taxes correctly or apply the correct exemptions, please enter or update your tax settings [here](#).

☒ **Receive Free Tier Usage Alerts**
Turn on this feature to receive email alerts when your AWS service alerts at an email address that is not the primary email address associated with your account.

Email Address:

☒ **Receive Billing Alerts**
Turn on this feature to monitor your AWS usage charges and recurring billing alerts to receive email notifications when your charges reach new budgets feature!

IAM Lab



Billing Alarm

You can create a billing alarm to receive e-mail alerts when your AWS charges exceed a threshold you choose. Simply:

1. Enter a spending threshold
2. Provide an email address
3. Check your inbox for a confirmation email and click the link provided

When my total AWS charges for the month

exceed: \$ USD

send a notification to: [New list](#)

Reminder: for each address you add, you will receive an email from AWS with the subject "AWS Notification - Subscription Confirmation". Click the link provided in the message to confirm that AWS may deliver alerts to that address.

Additional settings

Provide additional configuration for your alarm.

Treat missing data as: [?](#)

showing simple options | [show advanced](#)

Alarm Preview

This alarm will trigger when the blue line goes above the red line

EstimatedCharges > 0 for 1 datapoints within 6 hours



More resources

[AWS Billing console](#)

[Getting started with billing alarms](#)

[More help with billing alarms](#)

[AWS Billing FAQs](#)