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📌 “From Zero to Cloud Hero: Day 4 of the 100-Day Journey to Mastering Cloud Computing” 📌

AWS Budget Setup

“AWS Budget Setup Lab From Setup to Monitoring for Effective Cost Optimization”

The graphic features the AWS logo on the left. Next to it is a green circle containing a document icon with the word 'BUDGET' and a calculator. To the right is a green banner with the word 'BUDGET' and two gold coins, one labeled 'FOR' and the other 'SUCCESS'. Further right is a circular diagram with a person thinking, surrounded by icons for various services like a house, car, and shopping bag. A small profile picture of Manikanta Suru is in the top right corner of the graphic.

Optimizing AWS Costs with Budgets: DAY 4

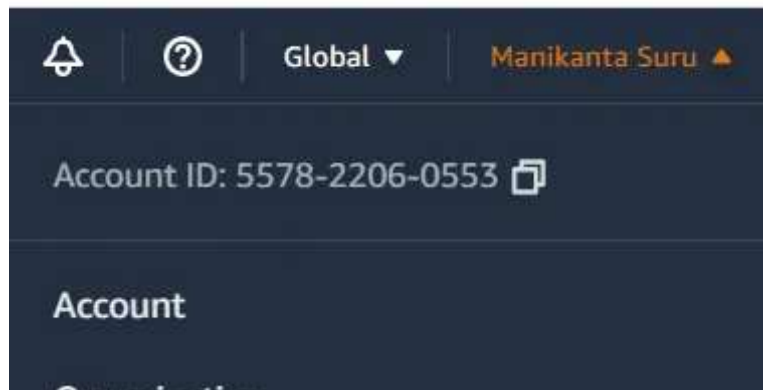
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Set cost and usage thresholds for your AWS account, services, and resources. With AWS Budgets, you can set custom cost and usage alerts that notify you when your actual costs or usage exceed or fall below your expected levels.



www.linkedin.com/in/manitechy

Login with the root user select account right and click account scroll down and IAM User and Role Access to Billing Information click **Activate IAM Access**



▼ IAM User and Role Access to Billing Information

Use the **Activate IAM Access** setting to allow IAM users and roles access to pages of the Billing and Cost Management console. This setting alone doesn't grant IAM users and roles the necessary permissions for these console pages. In addition to activating IAM access, you must also attach the required IAM policies to those users or roles. For more information, see [Granting access to your billing information and tools](#).

If this setting is deactivated, then IAM users and roles in this account can't access the Billing and Cost Management console pages, even if they have administrator access or the required IAM policies.

The **Activate IAM Access** setting does not control access to:

- The console pages for AWS Cost Anomaly Detection, Savings Plans overview, Savings Plans inventory, Purchase Savings Plans, and Savings Plan cart
- The Cost Management view in the AWS Console Mobile Application
- The Billing and Cost Management SDK APIs (AWS Cost Explorer, AWS Budgets, and AWS Cost and Usage Report APIs)
- The Customer Carbon Footprint Tool on the Cost & Usage Reports console page

✓ **Activate IAM Access**

Update

Cancel

Goto AWS Billing > click Bills

Amazon Web Services India Private Limited charges by service		
Total active services		Total pre-tax service charges in USD
5		USD 0.88
Filter by service name or region name		
Description	Usage Quantity	Amount in USD
Elastic Compute Cloud		USD 0.88
Data Transfer		USD 0.00
Key Management Service		USD 0.00
Simple Notification Service		USD 0.00
Simple Storage Service		USD 0.00
Total tax		USD 0.16

[AWS Billing](#) > [AWS Free Tier](#)

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AWS Billing > AWS Free Tier

AWS Free Tier

Summary (9)

Find service name

Service	AWS Free Tier usage limit	Current usage	Forecasted usage	MTD actual usage %	MTD forecasted usage %
Amazon Elastic Compute Cloud	30.0 GB-Mo for free for 12 months as part of AWS Free Usage Tier (Global-EBS:VolumeUsage)	22 GB-Mo	27 GB-Mo	72.49%	89.89%
AWS Key Management Service	20000.0 Requests for free per month as part of AWS Free Usage Tier (Global-KMS-Requests)	3,484 Requests	4,320 Requests	17.42%	21.60%
Amazon Elastic Compute Cloud	750.0 Hrs for free for 12 months as part of AWS Free Usage Tier (Global-BoxUsage:freetier:micro)	4 Hrs	5 Hrs	0.55%	0.68%
Amazon Simple Storage Service	2000.0 Requests for free for 12 months as part of AWS Free Usage Tier (Global-Requests-Tier1)	7 Requests	9 Requests	0.35%	0.45%
Amazon Simple Storage Service	20000.0 Requests for free for 12 months as part of AWS Free Usage Tier (Global-Requests-Tier2)	37 Requests	46 Requests	0.18%	0.25%
AWS Data Transfer	1.0 GB for free per month as part of AWS Free Usage Tier (Global-DataTransfer-Regional-Bytes)	0 GB	0 GB	0.02%	0.02%
AWS Data Transfer	100.0 GB for free per month as part of AWS Free Usage Tier (Global-DataTransfer-Out-Bytes)	0 GB	0 GB	0.01%	0.01%
AmazonCloudWatch	1000000.0 Requests are always free per month as part of AWS Free Usage Tier (Global-CW-Requests)	4 Requests	5 Requests	0.00%	0.00%
Amazon Simple Storage Service	5.0 GB-Mo for free for 12 months as part of AWS Free Usage Tier (Global-TimedStorage-ByteHrs)	0 GB-Mo	0 GB-Mo	0.00%	0.00%

AWS Billing>Budgets >Create a budget with Zero spend budget — Template adding alerts with your email id.

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AWS Billing

AWS Budgets

Set custom budgets that alert you when you exceed your budgeted thresholds

AWS Budgets is your hub for creating, tracking, and inspecting your budgets.

How it works

AWS Budgets

Improve planning and cost control with flexible budget + org cost forecasting

Create a budget

Customize how you want to budget your spend

Get alerted

Receive alerts when you exceed your budget

Respond with alerts

Define and trigger cost-saving measures to stay within budget

Benefits and features

Start tracking your AWS costs and usage

Once you have a budget created, AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.

Create a budget

Pricing (US)

There is no additional charge for using AWS Budgets. You only pay for configured actions that go beyond the free tier offer of 62 action-enabled budget days.

View pricing details

Getting started

What is AWS Budgets?

Getting started

I am selecting Zero to spend budget — Template

Zero spend budget - Template

Budget name

Provide a descriptive name for this budget.

My Zero-Spend Budget

Names must be between 1-100 characters.

Email recipients

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

manikanta.suru1@gmail.com

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](#).

Cancel

Create budget

AWS Billing > Budgets > Create budget

Choose budget type [Info](#)

Budget setup

☒ Use a template (simplified)

Use the recommended configurations. You can change some configuration options after the budget is created.

☐ Customize (advanced)

Customize a budget to set parameters specific to your use case. You can customize the time period, the start month, and specific accounts.

Templates - new

Choose a template that best matches your use case.

☒ Zero spend budget

Create a budget that notifies you once your spending exceeds \$0.01 which is above the AWS Free Tier limits.

☐ Monthly cost budget

Create a monthly budget that notifies you if you exceed, or are forecasted to exceed, the budget amount.

☐ Daily Savings Plans coverage budget

Create a coverage budget for your Savings Plans that notifies you when you fall below the defined target.

☐ Daily reservation utilization budget

Create a utilization budget for your reservations that notifies you when you fall below the defined target.

Zero spend budget - Template

✔ "My Zero-Spend Budget" has been deleted successfully.

✔ Your budget Mani_AWS_Bill_My Zero-Spend Budget has been created successfully.

Submit feedback

AWS Billing > Budgets > Budget details

Mani_AWS_Bill_My Zero-Spend Budget [Info](#)

Delete

Edit

Budget health [Info](#)

Current vs. budgeted

0.00%

Forecasted vs budgeted (MTD)

0.70%

Amount spent: \$0.00 of \$1.00

Amount spent: \$0.01 of \$1.00

Alerts [Info](#)

Thresholds

✔ OK

Actions

View all alerts

I have a Monthly cost budget Enter your budgeted amount (\$) 5 and create a budget.

Monthly cost budget - Template

Budget name

Provide a descriptive name for this budget.

Mani My Monthly Cost Budget

Names must be between 3-100 characters.

Enter your budgeted amount (\$)

Last month's cost: \$0.00

5.00

Email recipients

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

manikanta.suru1@gmail.com,manikanta.suru@outlook.com

Maximum number of email recipients is 10.

Scope

All AWS services are in scope in this budget.

You will be notified when 1) your actual spend reaches 85% 2) your actual spend reaches 100% 3) if your forecasted spend is expected to reach 100%.

▼ 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](#).

Cancel

Create budget

AWS Billing > Budgets > Create budget

Choose budget type [Info](#)

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☒ Monthly cost budget

Create a monthly budget that notifies you if you exceed, or are forecasted to exceed, the budget amount.

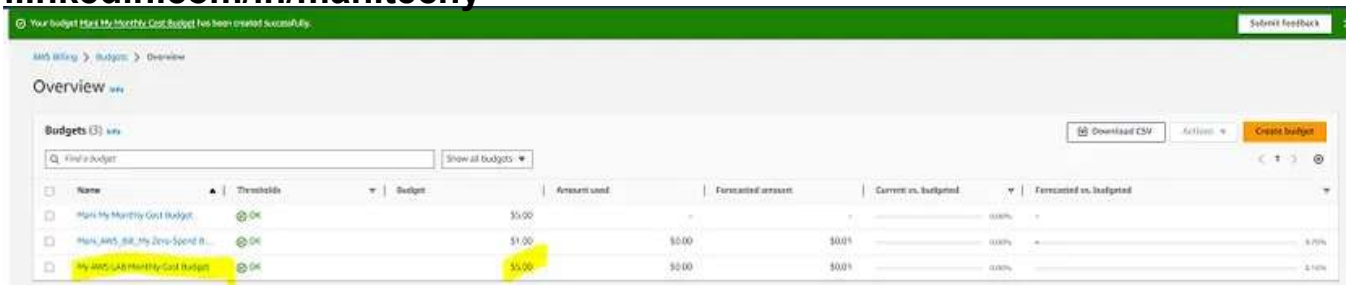
☐ Daily Savings Plans coverage budget

Create a coverage budget for your Savings Plans that notifies you when you fall below the defined target.

☐ Daily reservation utilization budget

Create a utilization budget for your reservations that notifies you when you fall below the defined target.

Monthly cost budget - Template



The screenshot shows the AWS Budgets console 'Overview' page. At the top, a green banner states 'Your budget **Max My Monthly Cost Budget** has been created successfully.' Below this, there's a search bar for 'Find a budget' and a 'Show all budgets' dropdown. A table lists three budgets:

Name	Thresholds	Budget	Amount used	Forecasted amount	Current vs. budgeted	Forecasted vs. budgeted
Max My Monthly Cost Budget	OK	\$5.00	-	-	0.00%	-
Max AWS_Bill My Zero-Spend B...	OK	\$1.00	\$0.00	\$0.00	0.00%	0.00%
My AWS_LAB Monthly Cost Budget	OK	\$5.00	\$0.00	\$0.00	0.00%	0.00%

Buttons for 'Download CSV', 'Actions', and 'Create budget' are visible in the top right of the table area.

Sources: [AWS](#).

That's it, thank you for reading.

<https://github.com/gefkkd/-From-Zero-to-Cloud-Hero-A-100-Day-Journey-to-Mastering-Cloud-Computing-.git>

👉 In case you would like to continue the discussion, you can always reach out to me on [Twitter](#) or on LinkedIn for professional networking, if you feel like following me on [GitHub](#) you can also do that.

👉 Follow [Cloudnloud Tech Community](#) for more insightful knowledge & resources & [CloudnLoud YouTube channel](#).

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