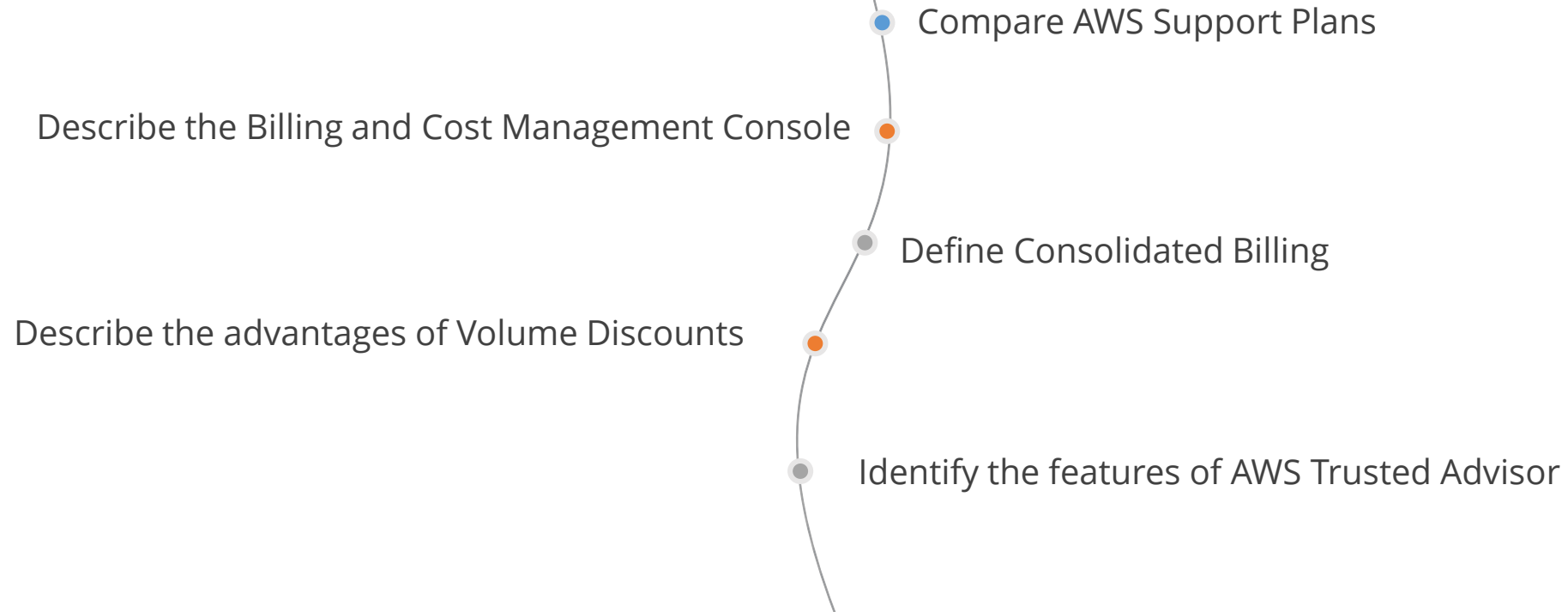


AWS Certified Developer Associate

Lesson 8: Cost Management



What You'll Learn



AWS Support Plans

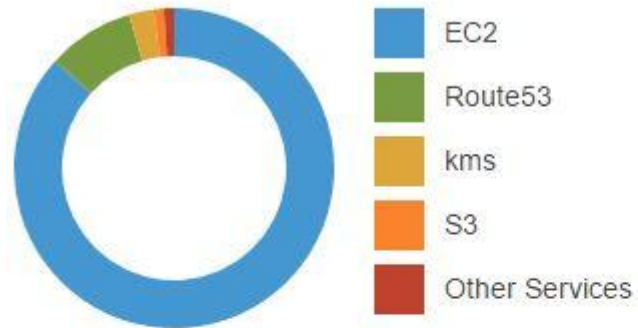
Plan/Features	Basic	Developer	Business	Enterprise
AWS Trusted Advisor	4 Checks	4 Checks	41 Checks	41 Checks
Access to Support	Support for Health Checks	Email (Local Business Hours)	Phone, Chat, Email, Live Screen sharing (24/7)	Phone, Chat, Email, Live Screen sharing (24/7)
Primary Case Handling	Technical Customer Service Associate	Cloud Support Associate	Cloud Support Engineer	Sr. Cloud Support Engineer
Users Who Can Create Support Requests		1	Unlimited (IAM Supported)	Unlimited (IAM Supported)
Response Time		<12 Hours	<1 Hour	<15 Minutes
Cost	Free	\$49/month	10% of monthly bill Rate goes down in higher spending tiers	\$15,000 Rate goes down in higher spending tiers

Billing and Cost Management

Month-to-Date Spend by Service

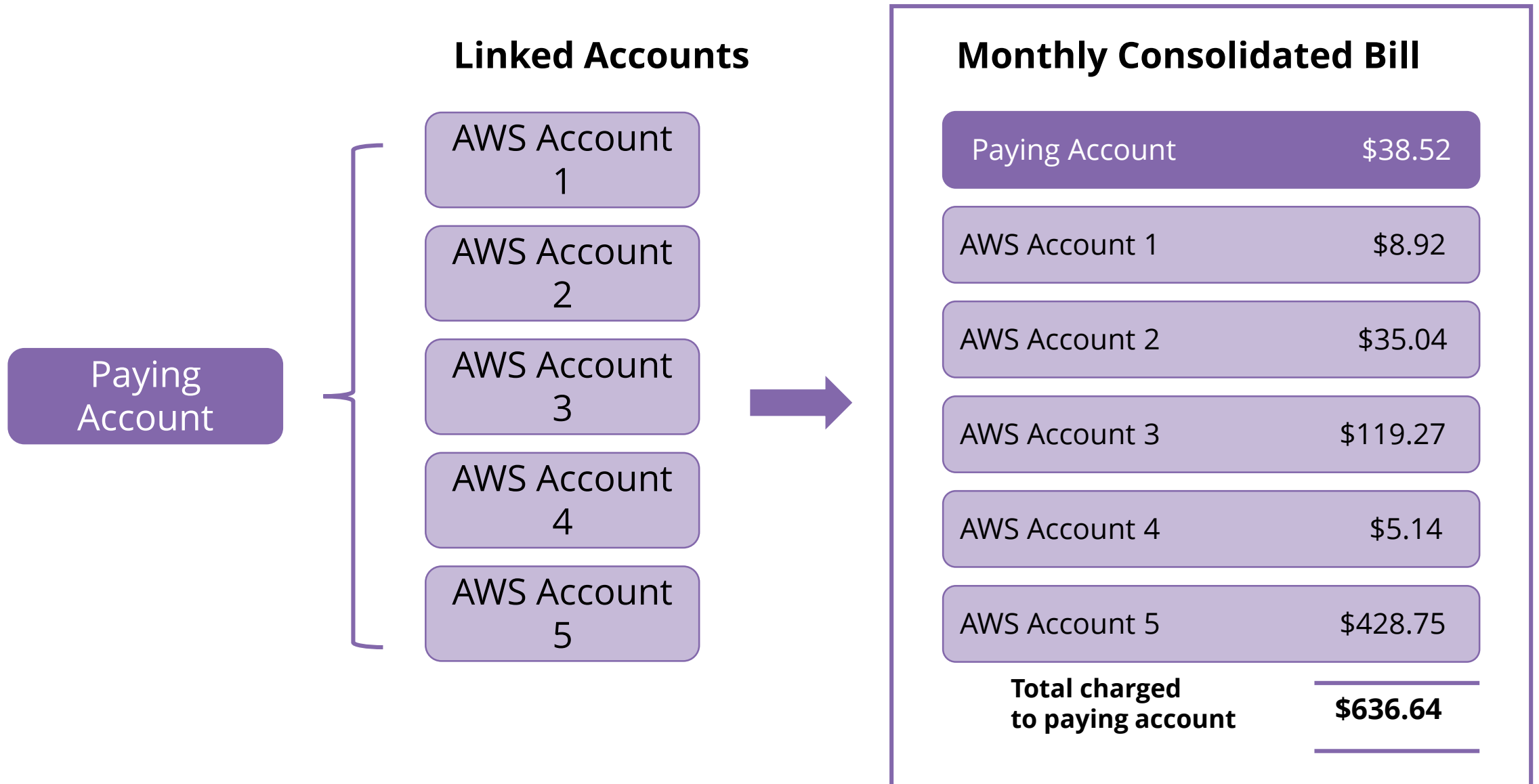
[Bill Details](#)

The chart below shows the proportion of costs spent for each service you use.

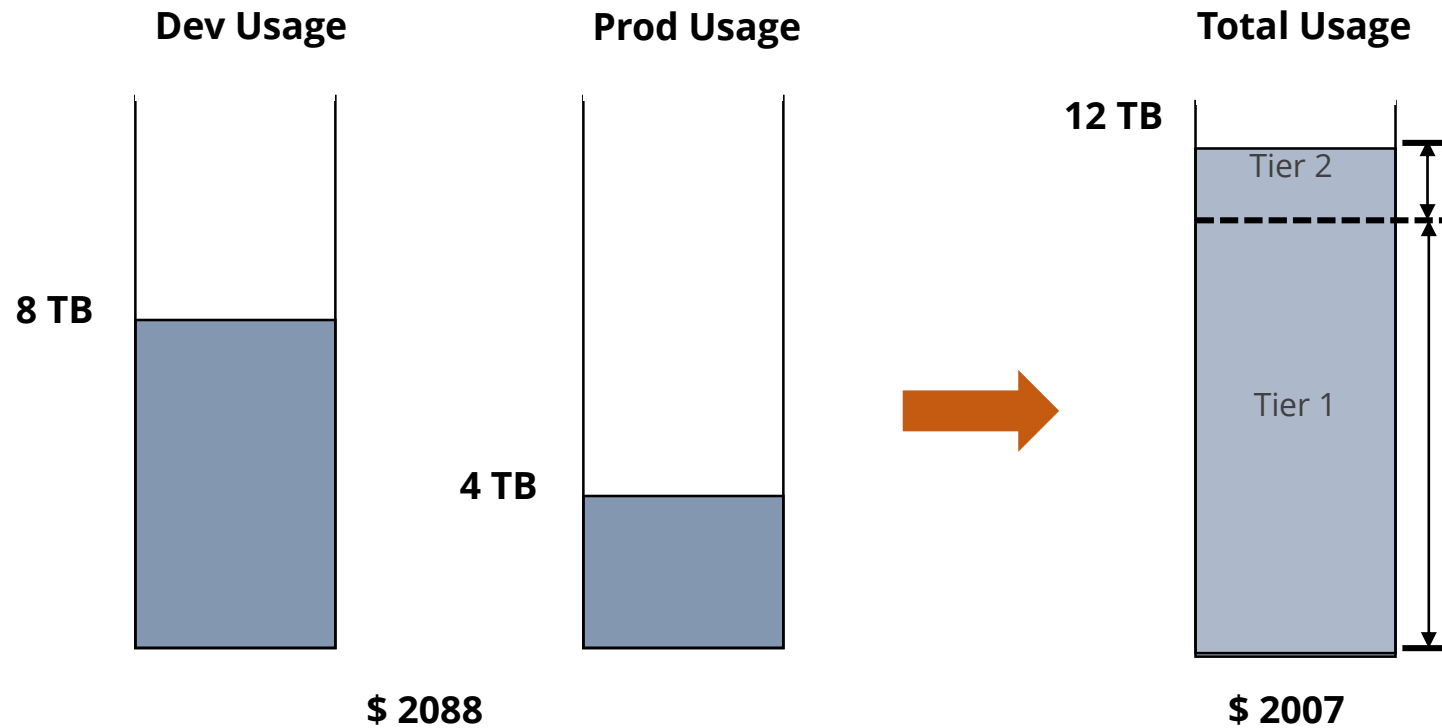


Month-to-Date Top Services by Spend	Amount
EC2	\$13.45
Route53	\$1.36
kms	\$0.39
S3	\$0.05
Other Services	\$0.01
Tax	\$0.52
Total	\$15.78

Consolidated Billing

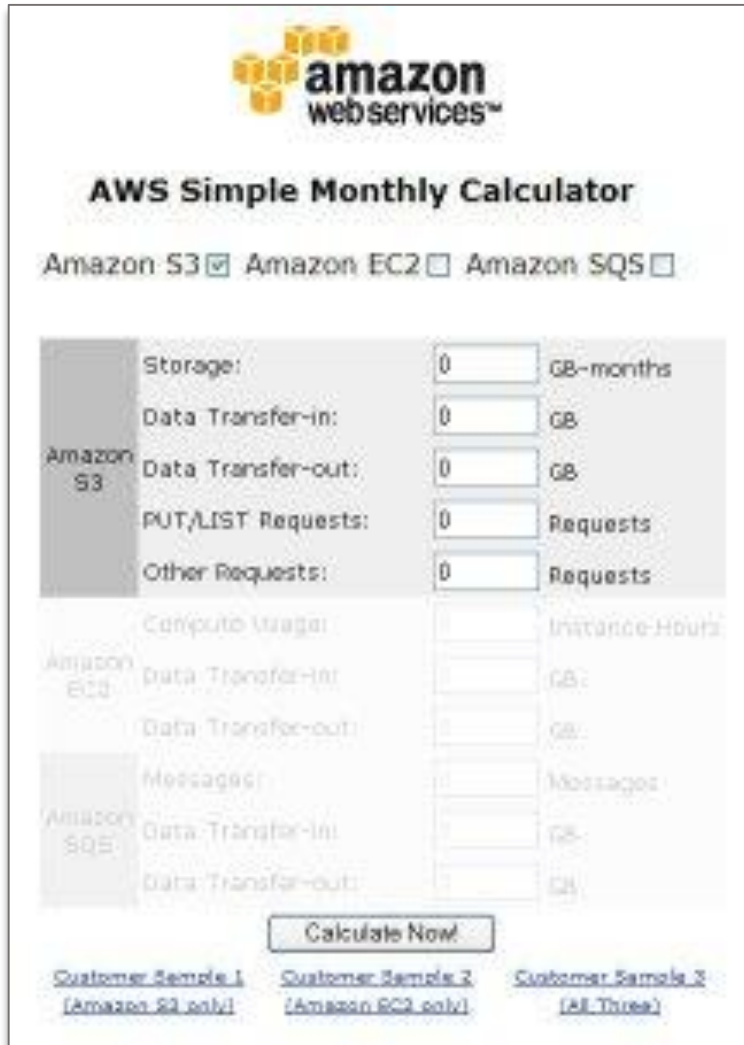


Volume Discounts



More Usage – Less Cost

AWS Monthly Calculator



The screenshot shows the AWS Simple Monthly Calculator interface. At the top, the Amazon Web Services logo is displayed. Below it, the title "AWS Simple Monthly Calculator" is shown. There are three checkboxes for selecting services: "Amazon S3" (checked), "Amazon EC2" (unchecked), and "Amazon SQS" (unchecked). The interface is divided into sections for each service. The Amazon S3 section includes input fields for Storage (0 GB-months), Data Transfer-in (0 GB), Data Transfer-out (0 GB), PUT/LIST Requests (0 Requests), and Other Requests (0 Requests). The Amazon EC2 section includes input fields for Compute Usage (0 Instance-Hours), Data Transfer-In (0 GB), and Data Transfer-out (0 GB). The Amazon SQS section includes input fields for Messages (0 Messages), Data Transfer-In (0 GB), and Data Transfer-out (0 GB). At the bottom, there is a "Calculate Now" button and three links for customer samples: "Customer Sample 1 (Amazon S3 only)", "Customer Sample 2 (Amazon EC2 only)", and "Customer Sample 3 (All Three)".

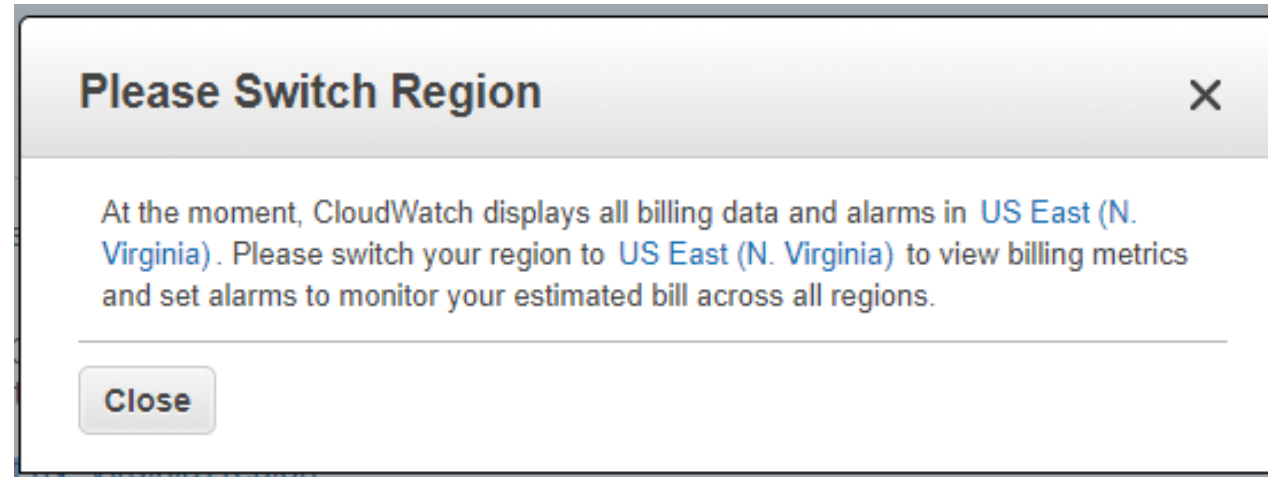
A simple calculator to estimate the monthly bill

Add maximum resources that you forecast to run for specific hours in a month

Provide details such as Instance types

Calculate monthly estimates

Billing Alerts



Billing alerts can be set up to watch out for unexpected expenditure



One can use CloudWatch to monitor bills



All billing details for all accounts are stored in North Virginia region, so make sure to change the region to North Virginia to set up alerts

AWS Trusted Advisor

Trusted Advisor Beta

Feedback

Contact Support

AWS Trusted Advisor checks your configuration and usage of Amazon Web Services, compares the results to best practices, and alerts you to opportunities to save money, close security gaps, and improve system reliability and performance.

Cost Optimizing

Suppressed resources: 0

\$1,892

In potential monthly savings

Security

Suppressed resources: 0

Fault Tolerance

Suppressed resources: 0

Performance

Suppressed resources: 0

What's New

Cost Optimizing

Security

Fault Tolerance

Performance

No problems detected

Investigation recommended

Action recommended

Not available

Cost Optimization

0

1

0

¥0.00

Potential monthly savings

Performance

3

1

0

Security

0

1

2

Fault Tolerance

0

1

3

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Knowledge Check

KNOWLEDGE
CHECK

Which of the following features are supported by the cost explorer?
(Choose 2)

- a. Provides consolidate bill
- b. Manages budget
- c. Displays graphs
- d. Provides savings



KNOWLEDGE
CHECK

Which of the following features are supported by the cost explorer?
(Choose 2)

- a. Provides consolidate bill
- b. Manages budget
- c. Displays graphs
- d. Provides savings



The correct answer is **Manages Budgets & Displays Graphs**

Explanation: The AWS billing and cost management console provides a free-tool cost explorer to view your cost data in graphs. Using the cost explorer you can create and manage budgets to track your AWS costs.

Practice Assignment: Cost Management

Set a budget to track the usage and cost of your account

To create a budget and set a tracking on it



Set a budget for \$100 using AWS billing and cost-management service to track your usage and/or cost providing the start date and end date for the period the budget is set for. At any given time you exceed the stated budget AWS will provide an alert notification to the provided email contacts.

Prerequisites:

- AWS account
- Emails provided to receive notifications
- Recipient has chosen confirm subscription in the confirmation email to receive notifications

Task:

Set a budget to track the usage and cost of your account and provision to receive email notification in case you exceed the specified budget.



QUIZ

1

Which is not a valid AWS support plan?

- a. Basic
- b. Free
- c. Business
- d. Developer



QUIZ

1

Which is not a valid AWS support plan?

- a. Basic
- b. Free
- c. Business
- d. Developer



The correct answer is **Free**

Explanation: AWS offers four different support plans: Basic, Developer, Business, and Enterprise.

QUIZ

2

How long does AWS billing and cost management keep the billing data?

- a. 3 months
- b. 13 months
- c. 12 months
- d. 1 month



QUIZ

2

How long does AWS billing and cost management keep the billing data?

- a. 3 months
- b. 13 months
- c. 12 months
- d. 1 month



The correct answer is **13 months**

Explanation: The AWS billing and cost-management console provides a free-tool cost explorer to view your cost data in graphs. You can view the data up to the last 13 months, and forecast for the next three months.

QUIZ

3

When you are using consolidated billing, can the payer account get access to the linked account's data?

- a. Yes
- b. No



QUIZ

3

When you are using consolidated billing, can the payer account get access to the linked account's data?

- a. Yes
- b. No



The correct answer is **No**

Explanation: The payer account is responsible and pays for all linked accounts, but each linked account operates independently. The payer account can't access the resources or data of the linked accounts, and doesn't have any control on any of the operations.

QUIZ

4

In which of the following areas does the trusted advisor provide improvement ideas?

- a. Cost
- b. Security
- c. Auto scale
- d. Error logs



QUIZ

4

In which of the following areas does the trusted advisor provide improvement ideas?

- a. Cost
- b. Security
- c. Auto scale
- d. Error logs



The correct answer is **Cost & Security**

Explanation: The trusted advisor inspects your AWS environment and makes recommendations in four different areas: cost optimization, security, fault tolerance, and performance improvement.

QUIZ

5

Which two tools help you to manage the AWS cost better?

- a. Volume discount
- b. Cost explorer
- c. Trusted advisor
- d. Consolidated billing



QUIZ

5

Which two tools help you to manage the AWS cost better?

- a. Volume discount
- b. Cost explorer
- c. Trusted advisor
- d. Consolidated billing



The correct answer is **Cost explorer & Trusted advisor**

Explanation: Using the cost explorer, you can create and manage budgets to track your AWS costs. The cost optimization feature of the trusted advisor shows where you can save your cost.

Key Takeaways

- AWS offers four different support plans for billing Basic, Developer, Business, and Enterprise
- AWS billing and cost management console is a free cost explorer used to view cost data in the form of charts
- The AWS consolidated-billing feature helps to consolidate multiple AWS account payments to one single designated account
- Volume discounts play a major role in AWS account management
- AWS trusted advisor provides best practices or checks based on the experience and trend of serving AWS customers



This concludes “Cost Management”.

The next lesson is “Other AWS Services”