Pricing Strategies



Pricing Strategies in AWS

- ✓ There are three fundamental drivers of cost with AWS: compute, storage, and outbound data transfer.
- ✓ In most cases, there is no charge for inbound data transfer or for data transfer between other AWS services within the same region.
- ✓ Outbound data transfer is aggregated across services and then charged at the outbound data transfer rate. This charge appears on the monthly statement as AWS Data Transfer Out.

Use the right pricing model for the job

- ✓ On Demand means you pay for compute or database capacity with no longterm commitments or upfront payments.
- Dedicated Instances (available with Amazon Elastic Compute Cloud (Amazon EC2)) run in a virtual private cloud (VPC) on hardware that's dedicated to a single customer.
- ◆ Spot Instances are an Amazon EC2 pricing mechanism that lets you purchase spare computing capacity with no upfront commitment at discounted hourly rates.
- Reservations provide you with the ability to receive a greater discount, up to
 75 percent, by paying for capacity ahead of time.

AWS Free Tier

The following free-tier offers are only available to new AWS customers, and are available for 12 months following your AWS sign-up date:

- ✓ Amazon Elastic Compute Cloud (Amazon EC2): 750 hours per month of Linux, RHEL, or SLES t2.micro instance usage or 750 hours per month of Windows t2.micro instance usage
- ✓ Amazon Simple Storage Service (Amazon S3): 5 GB of Amazon S3 standard storage,
 20,000 Get Requests, and 2,000 Put Requests
- ✓ Amazon Relational Database Service (Amazon RDS): 750 hours of Amazon RDS Single-AZ db.t2.micro Instances for running MySQL, PostgreSQL, MariaDB, Oracle BYOL, or SQL Server (running SQL Server Express Edition); 20 GB of database storage; 10 million I/Os; and 20 GB of backup storage
- ✓ Amazon CloudFront: 50 GB Data Transfer Out and 2,000,000 HTTP and HTTPS
 Requests each month

On-Demand Instances

With On-Demand Instances, you pay for compute capacity per hour or per second, depending on which instances you run. No longer-term commitments or upfront payments are needed. You can increase or decrease your compute capacity to meet the demands of your application and only pay the specified hourly rates for the instance you use. On-Demand Instances are recommended for:

- Users who prefer the low cost and flexibility of Amazon EC2 without upfront payment or longterm commitments
- Applications with short-term, spiky, or unpredictable workloads that cannot be interrupted
- Applications being developed or tested on Amazon EC2 for the first time

Spot Instances

Spot Instances allow you to request spare Amazon EC2 computing capacity for up to 90 percent off the On-Demand price. Spot Instances are recommended for:

- Applications that have flexible start and end times
- Applications that are only feasible at very low compute prices
- Users with urgent computing needs for a lot of additional capacity.

The Spot price is set by Amazon EC2 and fluctuates periodically depending on the supply of, and demand for, Spot Instance capacity. If your maximum bid exceeds the current Spot price, your bid request is fulfilled, and your instances will run until either you choose to terminate them or the Spot price exceeds your maximum bid, whichever comes first.

Estimating Amazon EC2 costs

To estimate the cost of using Amazon EC2, consider the following: Clock hours of server time:

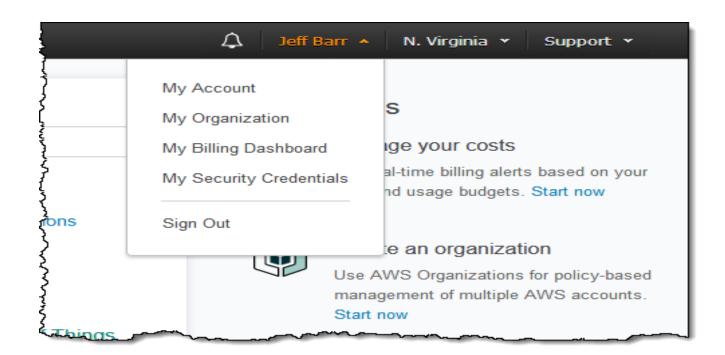
- ✓ Instance type
- ✓ Pricing model
- ✓ Number of instances
- ✓ Load balancing
- ✓ Detailed monitoring
- ✓ Auto Scaling
- ✓ Elastic IP addresses
- ✓ Operating systems and software packages

What is AWS Billing and Cost Management

- AWS Billing and Cost Management is the service that you use to pay your AWS bill, monitor your usage, and budget your costs.
- AWS automatically charges the credit card you provided when you signed up for a new account with AWS. Charges appear on your credit card bill monthly. You can view or update credit card information, and designate a different credit card for AWS to charge, on the Payment Methods page in the Billing and Cost Management console.
- The Billing and Cost Management service provides features that you can use to estimate and plan your AWS costs, receive alerts if your costs exceed a threshold that you set, assess your biggest investments in AWS resources, and, if you work with multiple AWS accounts, simplify your accounting.

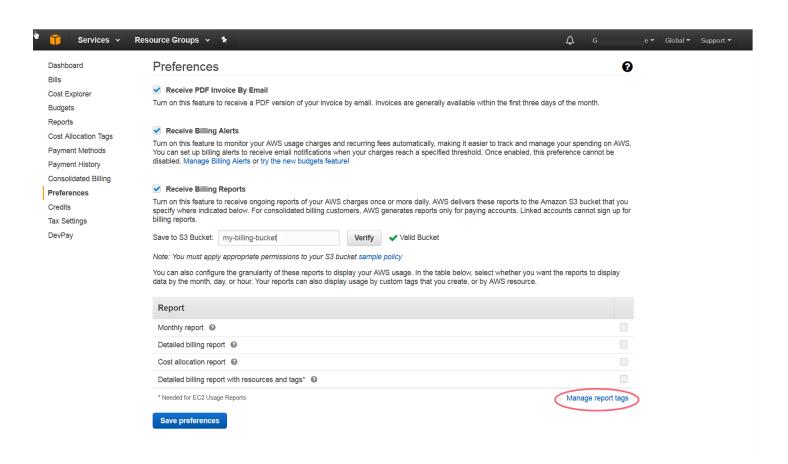
Configure Billing dashboard in AWS Console

- Before you can create an alarm for your estimated charges, you must enable billing alerts, so that you can monitor your estimated AWS charges and create an alarm using billing metric data. After you enable billing alerts, you cannot disable data collection, but you can delete any billing alarms that you created.
- After you enable billing alerts for the first time, it takes about 15 minutes before you can view billing data and set billing alarms.



Configure Billing dashboard in AWS Console

- Log on with Account Go to my billing dashboard
- Preferences-- click on receive notification-- Save preferences



Configure Billing dashboard in AWS Console

you create an alarm/budget that sends an email message when your estimated charges for AWS exceed a specified threshold.

- Under Alarm Threshold, replace the default name for the alarm (for example, My Estimated Charges) and a description for the alarm (for example, Estimated Monthly Charges)
- Under Whenever charges for, for is, choose >= and then type the monetary amount (for example, 200) that must be exceeded to trigger the alarm and send an email.

Spend Summary

Cost Explorer

Welcome to the AWS Account Billing console. Your last month, month-to-date, and month-end forecasted costs appear below.

Current month-to-date balance for April 2017

\$7,453.41



Month-to-Date Spend by Service

Bill Details

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



	EC2	\$3,700.71
	RDS	\$1,876.35
	ElastiCache	\$938.18
	DynamoDB	\$625.44
	Other Services	\$312.57
Tax		\$0.16
Total		\$7,453.41