Billing and Cost Management

1. **AWS Cost Explorer**

2. **AWS Budgets**

3. **AWS Cost and Usage Report**

4. **AWS Billing Dashboard**

5. **AWS Marketplace Subscriptions**

Pricing Tools

6. **AWS Pricing Calculator**

7. **AWS Free Tier**

8. **AWS Savings Plans**

9. **AWS Reserved Instances**

10. **AWS Compute Savings Plans**

11. **AWS Service Quotas**

Billing and Cost Optimization Services

12. **AWS Trusted Advisor (Cost Optimization)**

13. **AWS Cost Anomaly Detection**

Billing and Cost Management

1. **AWS Cost Explorer**

   - **Description**: Tool for visualizing and managing your AWS costs and usage.
   - **Uses**: View and analyze cost and usage data over time.
   - **Integrated with**: AWS Budgets, AWS Billing Dashboard.

2. **AWS Budgets**

   - **Description**: Service to set custom cost and usage budgets.
   - **Uses**: Track progress against budgets and receive alerts.
   - **Integrated with**: Cost Explorer, AWS SNS.

3. **AWS Cost and Usage Report**

   - **Description**: Comprehensive cost and usage data for AWS services.
   - **Uses**: Analyze cost and usage at a detailed level.
   - **Integrated with**: S3, Athena, Redshift.

4. **AWS Billing Dashboard**

   - **Description**: Central location to view and manage AWS billing and payments.
   - **Uses**: Monitor current charges, pay bills, and manage payment methods.
   - **Integrated with**: Cost Explorer, AWS Budgets.

5. **AWS Marketplace Subscriptions**

   - **Description**: Manage subscriptions to software products on AWS Marketplace.
   - **Uses**: Track and manage third-party software usage and costs.
   - **Integrated with**: AWS Billing Dashboard, Cost Explorer.

Pricing Tools

6. **AWS Pricing Calculator**

   - **Description**: Tool to estimate the cost of AWS services based on your configurations.
   - **Uses**: Create cost estimates for planning and comparison.
   - **Integrated with**: N/A (standalone tool).

7. **AWS Free Tier**

   - **Description**: Offers free usage for certain AWS services within specified limits.
   - **Uses**: Experiment with AWS services without incurring costs.
   - **Integrated with**: All AWS services eligible for Free Tier.

8. **AWS Savings Plans**

   - **Description**: Flexible pricing model offering savings on AWS usage.
   - **Uses**: Reduce costs by committing to a consistent amount of usage over a 1- or 3-year term.
   - **Integrated with**: EC2, Lambda, Fargate.

9. **AWS Reserved Instances**

   - **Description**: Pricing model offering significant discounts for committing to use EC2 instances over a 1- or 3-year term.

   - **Uses**: Save on EC2 costs with long-term commitments.

   - **Integrated with**: EC2, RDS, ElastiCache.

10. **AWS Compute Savings Plans**

   - **Description**: Pricing plan offering savings on a variety of compute services.

   - **Uses**: Save on costs for EC2, Fargate, and Lambda with flexible usage.

   - **Integrated with**: EC2, Fargate, Lambda.

11. **AWS Service Quotas**

   - **Description**: Manage and request increases for AWS service limits.

   - **Uses**: Monitor and manage service limits to avoid disruptions.

   - **Integrated with**: AWS Management Console, AWS CLI.

   -

Billing and Cost Optimization Services

12. **AWS Trusted Advisor (Cost Optimization)**

   - **Description**: Provides recommendations to optimize AWS costs and performance.

   - **Uses**: Identify opportunities to reduce costs and improve efficiency.

   - **Integrated with**: AWS Management Console, IAM.

13. **AWS Cost Anomaly Detection**

   - **Description**: Uses machine learning to detect unusual spending patterns.

   - **Uses**: Receive alerts on unexpected cost increases.

   - **Integrated with**: AWS Budgets, AWS SNS.

Compute Pricing

1. **Amazon EC2 Pricing**

   - **Description**: Various pricing options for Amazon EC2 instances.
   - **Types**:
     - **On-Demand Instances**: Pay for compute capacity by the hour or second with no long-term commitments.
     - **Reserved Instances**: Significant discount over On-Demand pricing for a one-year or three-year commitment.
     - **Spot Instances**: Bid for unused EC2 capacity at potentially lower prices.
     - **Savings Plans**: Flexible pricing model offering savings on AWS compute usage.

2. **AWS Lambda Pricing**

   - **Description**: Pricing based on the number of requests and duration of compute time.
   - **Types**:
     - **Request Pricing**: Number of requests your functions receive.
     - **Duration Pricing**: Time your code executes, rounded up to the nearest millisecond.

3. **Amazon ECS and EKS Pricing**

   - **Description**: Pricing for running containerized applications.
   - **Types**:
     - **ECS on EC2**: Pay for the EC2 instances.
     - **ECS with Fargate**: Pay for the vCPU and memory resources.
     - **EKS**: Pay for the EKS cluster and the resources used by applications.

Storage Pricing

4. **Amazon S3 Pricing**

   - **Description**: Pricing based on storage class, data transfer, and requests.
   - **Types**:
     - **Standard Storage**: Regular storage for frequently accessed data.
     - **Infrequent Access (IA)**: Lower-cost storage for data that is accessed less frequently.
     - **Glacier and Glacier Deep Archive**: Long-term archival storage with retrieval times ranging from minutes to hours.

5. **Amazon EBS Pricing**

   - **Description**: Pricing for block storage used with EC2 instances.
   - **Types**:
     - **General Purpose SSD (gp2/gp3)**: Balance of price and performance.
     - **Provisioned IOPS SSD (io1/io2)**: Designed for I/O-intensive applications.
     - **Magnetic Volumes**: Low-cost storage option.

6. **Amazon EFS Pricing**

   - **Description**: Pricing for scalable file storage.

   - **Types**:

     - **Standard Storage**: Frequently accessed file storage.

     - **Infrequent Access (IA)**: Lower-cost option for files not accessed frequently.

Network Pricing

7. **AWS Data Transfer Pricing**

   - **Description**: Costs associated with transferring data in and out of AWS.

   - **Types**:

     - **Data Transfer In**: Typically free for most services.

     - **Data Transfer Out**: Charged based on the amount of data transferred out of AWS regions.

8. **Amazon CloudFront Pricing**

   - **Description**: Pricing for content delivery network (CDN) services.

   - **Types**:

     - **Data Transfer Out**: Charges based on the volume of data delivered.

     - **HTTP/HTTPS Requests**: Charges based on the number of requests made.

Database Pricing

9. **Amazon RDS Pricing**

   - **Description**: Pricing for managed relational database services.

   - **Types**:

     - **On-Demand Instances**: Pay per hour with no commitments.

     - **Reserved Instances**: Discounted rates for one-year or three-year commitments.

     - **Storage**: Pay for the storage capacity used by the database.

10. **Amazon DynamoDB Pricing**

    - **Description**: Pricing for NoSQL database services.

    - **Types**:

      - **Provisioned Capacity**: Pay for read and write capacity units.

      - **On-Demand Capacity**: Pay per request.

      - **Data Storage**: Pay for the amount of data stored.

Savings Plans and Reserved Instances

11. **AWS Savings Plans**

   - **Description**: Flexible pricing model offering significant savings on AWS usage.

   - **Types**:

      - **Compute Savings Plans**: Apply to EC2, Fargate, and Lambda usage.

      - **EC2 Instance Savings Plans**: Specific to EC2 instance usage.

12. **AWS Reserved Instances**

   - **Description**: Significant discounts for long-term commitments to specific instance types.

   - **Types**:

      - **Standard Reserved Instances**: One-year or three-year terms.

      - **Convertible Reserved Instances**: Flexibility to change instance families, OS types, and tenancies.

Other Pricing Models

13. **Amazon Elastic Beanstalk Pricing**

   - **Description**: Pay for the underlying AWS resources consumed by your application.

   - **Types**: EC2 instances, S3 storage, RDS databases, etc.

14. **Amazon CloudWatch Pricing**

   - **Description**: Monitoring and management service for AWS resources and applications.

   - **Types**:

      - **Metrics**: Pay per metric monitored.

      - **Alarms**: Pay for each alarm created.

      - **Logs**: Pay for data ingested and stored.

15. **AWS Glue Pricing**

   - **Description**: Pay for data processing units (DPUs) used to run your ETL jobs.

   - **Types**: Jobs, development endpoints, crawlers.

Specialized Pricing

16. **Amazon Lightsail Pricing**

   - **Description**: Simple cloud servers, storage, and networking for a fixed monthly price.

   - **Types**: Bundles include compute, memory, storage, and data transfer.

17. **AWS Outposts Pricing**

   - **Description**: Pay for the physical hardware and additional capacity or services consumed.

   - **Types**: Monthly and upfront payment options for hardware.