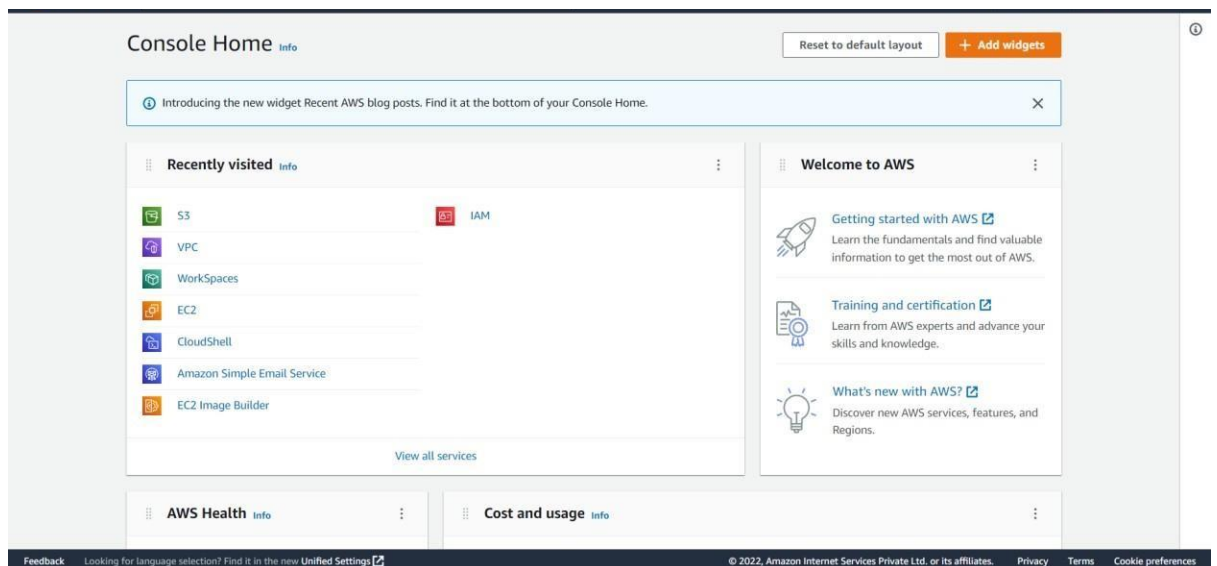


## Experiment 10 – Optimize AWS Resource Utilization

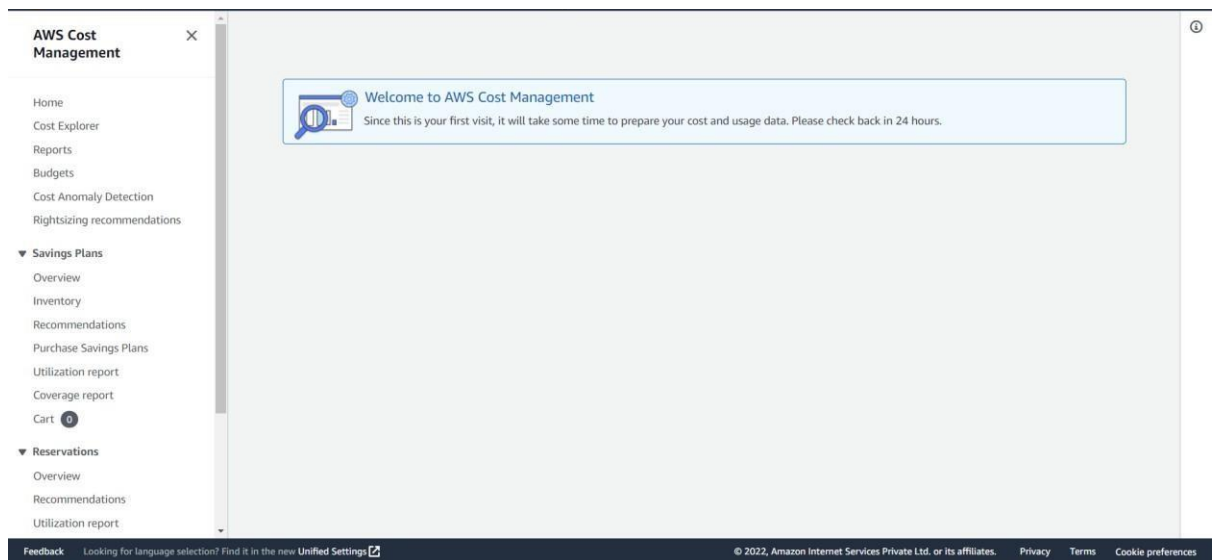
AIM: To optimize AWS resource utilization with the help of AWS

Cost Explorer.PROCEDURE:

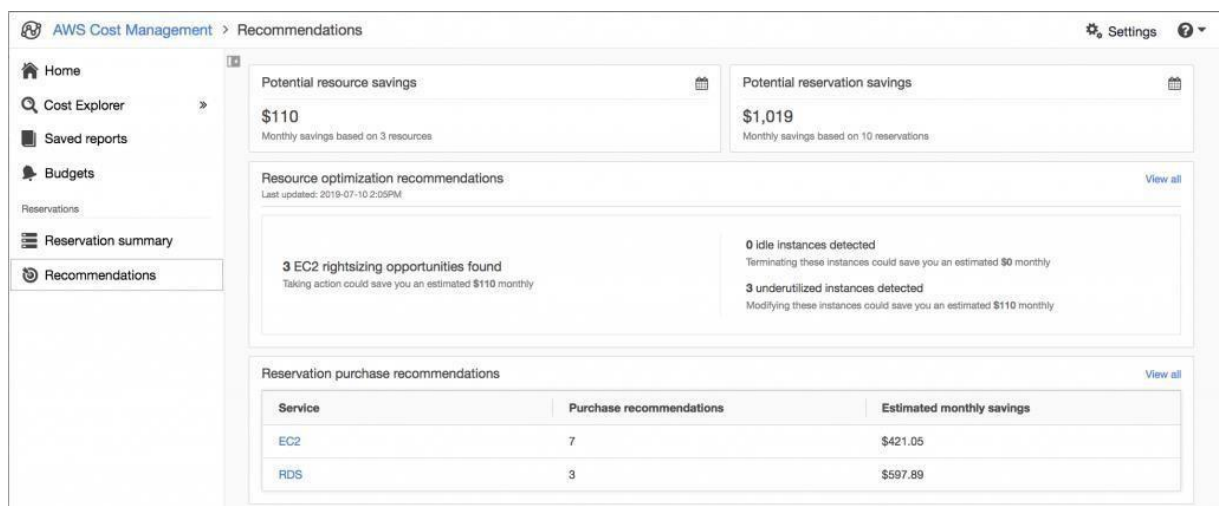
1. Firstly, open the AWS console homepage on browser (<https://aws.amazon.com/console/>).



2. Go to AWS Cost Management Console.



3. In the navigation pane, choose Rightsizing Recommendations.



4. Click on "View" to view each recommendation.

3

Optimization opportunities

\$110

Estimated monthly savings

50.00%

Estimated savings (%)

Based on the last 14 days, we have identified **3 instances** that have been idle and underutilized. Taking action on these instances could help you save an estimated \$110 monthly (50.00% of the EC2 On-Demand instance costs associated with these instances).

[Download CSV](#)

Recommendation	Instance ID	Account ID	Tag(s)	CPU (%)	Monthly estimated savings	
Modify instance	i-0b18d304a1...	AWS Insights Demo...	3	6.6%	\$72	<a href="#">View</a>
Modify instance	i-0196e32825...	AWS Insights Demo...	2	4.0%	\$33	<a href="#">View</a>
Modify instance	i-0a9909f442...	AWS Insights Demo...	2	7.5%	\$4	<a href="#">View</a>

< Viewing 1 to 3 of 3 recommendations >

\*Estimated Annual Savings and Purchase Recommendations are based on your past usage history and the relevant EC2, RDS, ElastiCache, Redshift, or Elasticsearch pricing. If your usage patterns change, it may affect the accuracy of the estimates and the purchase recommendations.  
 \*\*To maximize savings, On-Demand usage associated with instance families eligible for size flexible RIs is auto-detected, analyzed, and shown as a purchase recommendation for the smallest instance size available in that instance family. [Learn More](#)  
 \*\*\*Please note that for RDS recommendations with SQL and/or Oracle Database Engines, Cost Explorer will display the associated cost and usage inclusive of all database editions and/or license models for that Database Engine.

Show recommendations for

☒ Idle instances
 ☒ Underutilized instances

Additional Filters

Linked Account

Include all

Region

Include all

Tag

Include all

5. At the top of “Rightsizing Recommendations” page, you can filter your recommendations such as Idle instances, underutilized instances etc.

Underutilized Amazon EC2 instance details

Details

Account name	Account ID	Instance ID	Instance type	Region	Tag(s)
AWS Insights Demo		i-0b18d304	m4.xlarge	US East (N. Virginia)	3

Utilization

CPU	Disk	Memory	Network capacity	RI hours	On-Demand hours	Total running hours
7%	-	-	High	0	332	332

Recommended action

We recommend that you **modify** your underutilized **m4.xlarge** instance to a **m4.large** instance in order to save an estimated \$864 annually. You can improve these recommendations by installing the CloudWatch Agent. [Learn more](#)

AWS recommendation

m4.large

Network capacity: Moderate

Projected utilization: CPU: 13% | Disk: - | Memory: -

\$72

estimated savings per month

\*Resource recommendations identify all available savings opportunities, even if the action will result in zero dollar savings. In case of zero dollar savings, right-sizing opportunities will improve your overall Reserved Instance coverage, allowing you to access a discounted hourly rate.

Cancel

Go to the Amazon EC2 console

**RESULT:**

Different AWS resource utilization was viewed and optimized with the help of AWS CostExplorer.

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