Amazon EMR and EKS Cloud Migration and Modernization Assessment



Understand the true cost of an AWS migration, including your most expensive queues and users. Reduce and realize those post-migration savings up to 38% with no manual intervention.

FREE for up to 2 weeks | Includes Pepperdata software and up to 20 hours of professional services

Assessment Objectives

Install Pepperdata on your on-premises or cloud cluster(s).

- Realize the true the cost of migrating and modernizing your environment to AWS.
- Receive an assessment of your costliest users and queues.
- Understand the optimal instance types for your unique workloads, selected from the 500+ offered by AWS.
- See how your clusters stack up in terms of waste and potential savings with comparable clusters optimized by Pepperdata.

The assessment is compatible with all YARN-based workloads as well as Spark, PyTorch, and batch workloads on Kubernetes.

Three Easy Steps to a Successful Assessment

Step 1: Install Pepperdata to profile your workloads: ~60 minutes Pepperdata will assist you in tailoring the install to your environment.

Step 2: Run Pepperdata: ~2 weeks

Pepperdata will analyze the unique CPU and memory requirements of your workloads to determine baseline and burst characteristics. Pepperdata will then calculate the storage requirements for your new cloud environment based on the capacity of your existing clusters.

Step 3: Review your customized assessment: ~60 minutes Your customized assessment will contain:

- Rightsized AWS instance type recommendations based on the unique performance profiles of your workloads.
- Optimized Amazon EMR autoscaling parameters.
- Forecasted instance hours for your new cloud environment and the corresponding hourly, monthly, and annual costs.
- A waste and savings view of how your environment compares to others optimized by Pepperdata.
- Estimated savings from running Pepperdata Capacity Optimizer in your new cloud environment.

"Pepperdata is super easy and self managed. Highly recommended for anyone one would like to explore infrastructure and operations cost savings and optimization."

—Director of Technology at a Fortune 1000 Enterprise

Special offer

For a limited time, you can install Pepperdata for free up to two weeks. This offer includes the software's full suite of solutions. including Capacity Optimizer, Application Spotlight, and Platform Spotlight. Also, you'll be eligible to receive up to 20 hours of professional services from Pepperdata representatives.

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Driving Productivity and Business Growth for the World's Largest **Brands**













Estimate the Projected Cost of Your New Cloud Environment

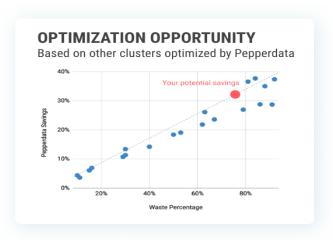
CLUSTER DETAILS FOR CLUSTER Prod_Cluster

November 29, 2022 - December 13, 2022

Queue Name	Recommended Instance Type	Minimum Instances	Maximum Instances	Projected Instance Hours	Estimated Daily Cost	Estimated Annual Cost	Current Memory Utilization	Current CPU Utilization
root.users	r5a.16xlarge cost: \$3.62 Memory: 512 GB 64 cores	18	617	23,766.38	\$6,139	\$2,240,559	38%	37%
root.scale1	r5a.16xlarge cost: \$3.62 Memory: 512 GB 64 cores	1	318	10,119.38	\$2,614	\$953,998	43%	8%
root.queue3	r5a.16xlarge cost: \$3.62 Memory: 512 GB 64 cores	1	318	8,514.53	\$2,199	\$802,702	28%	24%
root.user8	m5a.24xlarge cost: \$4.13 Memory: 394 GB 96 cores	1	81	1,553.37	\$458	\$167,178	13%	5%
TOTAL / AVERAGE		21	1,334	43,953.67	\$11,409	\$4,164,436	31%	18%

Post Migration, Reduce Costs up to 38% Without Manual Intervention

Once you've migrated your workloads to your new cloud environment, Pepperdata's Capacity Optimizer allows you to reduce costs further. Cloud-native autoscalers tend to scale aggressively, which can lead to overprovisioning. Capacity Optimizer reclaims unused resources and bases its autoscaling on actual utilization instead of allocated resources. The net effect is that scaling is autonomously optimized, and both waste and cost are minimized.



Pepperdata: Your Trusted Migration Partner

Pepperdata has experience working with numerous Fortune 500 enterprises in migrating and modernizing their Big Data environments.

Pepperdata operates natively in both Hadoop on premises as well as in all the different flavors of AWS environments shown here.

to →	Spark on EKS	EMR on EC2	EMR on EKS	EMR Serverless
On-Premises Hadoop	/	/	V	~
EMR on EC2	~		~	v

Sign up for the free migration assessment to see how much you can save by migrating and modernizing to AWS.

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