

CLOUD MIGRATION ASSESSMENT FOR SPARK WORKLOADS

AMAZON EMR on EC2 ⇒ AMAZON EMR on EKS

Sample Report for **Prod_Cluster** | Prepared for **Company_Name** | August 31, 2023 - September 5, 2023

YOUR EXISTING ENVIRONMENT AMAZON EMR ON EC2

estimated daily cost	\$XX
estimated monthly cost	\$XX
estimated annual cost	\$XX
	100% Spark workloads

YOUR POST-MIGRATION ENVIRONMENT AMAZON EMR ON EKS

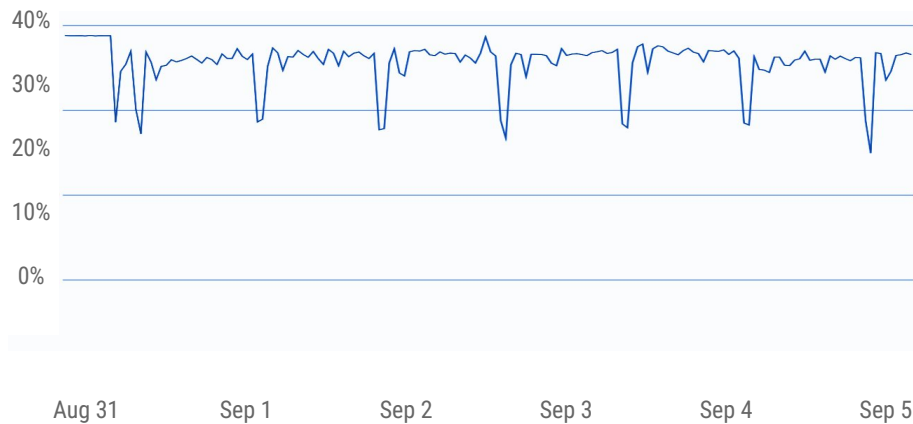
\$XX
\$XX
\$XX
XX% estimated cost reduction



YOUR PEPPERDATA OPTIMIZED ENVIRONMENT AMAZON EMR ON EKS

\$XX
\$XX
\$XX
XX% estimated cost reduction from Pepperdata
XX% total estimated cost reduction overall

INSTANCE HOURS WASTED (%) for Prod_Cluster



ESTIMATED ANNUAL SAVINGS ON AMAZON EKS WITH PEPPERDATA

\$XX,XXX
total estimated annual savings

XX%
estimated cost reduction over your current environment

\$XX
XX% **additional** estimated savings with Pepperdata installed

\$XX
XX% estimated savings from migrating to Amazon EKS

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PEPPERDATA RECOMMENDED AMAZON EMR ON EKS INSTANCE TYPES

Instance Type	Category	Daily Instance Hours (estimated)	Daily Instance Hours Wasted (estimated)	Daily Cost (estimated)	Monthly Cost (estimated)	Annual Cost (estimated)
r5a.4xlarge (cost \$0.904 128.0 GiB 16 cores)	Memory optimized	XX	XX	\$XX	\$XX	\$XX
r6a.4xlarge (cost \$0.9072 128.0 GiB 16 cores)	Memory optimized	XX	XX	\$XX	\$XX	\$XX
r5a.8xlarge (cost \$1.808 256.0 GiB 32 cores)	Memory optimized	XX	XX	\$XX	\$XX	\$XX
r6a.8xlarge (cost \$1.8144 256.0 GiB 32 cores)	Memory optimized	XX	XX	\$XX	\$XX	\$XX
r5a.12xlarge (cost \$2.712 384.0 GiB 48 cores)	Memory optimized	XX	XX	\$XX	\$XX	\$XX
r6a.12xlarge (cost \$2.7216 384.0 GiB 48 cores)	Memory optimized	XX	XX	\$XX	\$XX	\$XX
r5a.16xlarge (cost \$3.616 512.0 GiB 64 cores)	Memory optimized	XX	XX	\$XX	\$XX	\$XX
r6a.16xlarge (cost \$3.6288 512.0 GiB 64 cores)	Memory optimized	XX	XX	\$XX	\$XX	\$XX
r5.4xlarge (cost \$1.008 128.0 GiB 16 cores)	Memory optimized	XX	XX	\$XX	\$XX	\$XX
r6i.4xlarge (cost \$1.008 128.0 GiB 16 cores)	Memory optimized	XX	XX	\$XX	\$XX	\$XX

Notes:

- "Waste" refers to unused resources, i.e. the difference between allocated and used resources.
- Pepperdata assumes that Kubernetes infrastructure and system services require <5% of total resources.
- You may choose to implement a single instance type, or you might choose to implement multiple instance types via Karpenter.

NEXT STEPS: GET STARTED WITH YOUR OWN **FREE** CLOUD MIGRATION ASSESSMENT

This sample report shows you the type of data you can expect to receive in your free Amazon EMR ⇒ Amazon EKS cloud migration assessment, developed specifically for your environment. Post-migration, Pepperdata Capacity Optimizer can further reduce waste in your Amazon EKS environment, automatically and without any application code changes. Capacity Optimizer installs in an hour or less in most enterprise environments and goes to work immediately and safely eliminating waste autonomously.

To get started, email us at info@pepperdata.com or [book a time with us at your convenience.](#)