

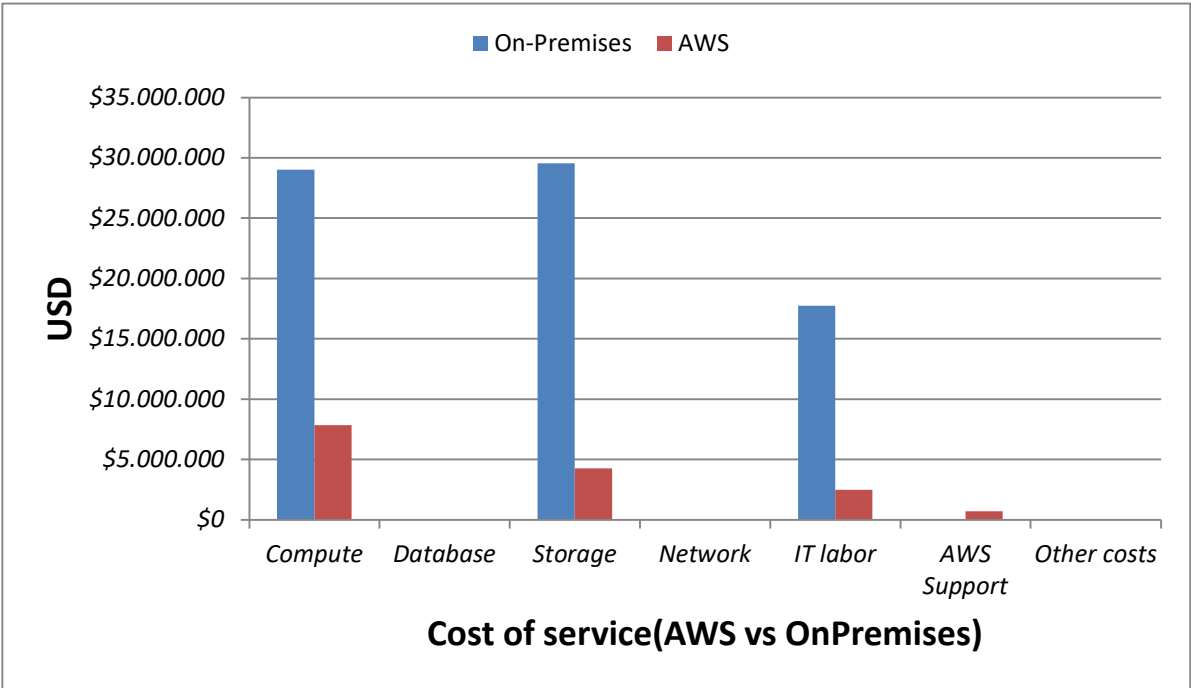
Total cost of ownership: On-Premises vs AWS

Customer	ACME_BB
Portfolio name	balck-belt-acme
Assessment name	Assessment 1
Date	12-12-2022
TCO duration(yrs)	5
AWS Region	us-east-1

Total Cost of Ownership Calculator provides an estimate of usage charges for On-Premises/Colocation compared to equivalent AWS services, including 'Amazon Relational Database Services (Amazon RDS)', based on the information you provide. AWS monthly charges, and any 'Amazon RDS' charges, will be based on your actual usage, discounts, and effective bill rates at the time of usage and may vary from the estimates the calculator has

Total cost of ownership: On-Premises vs AWS

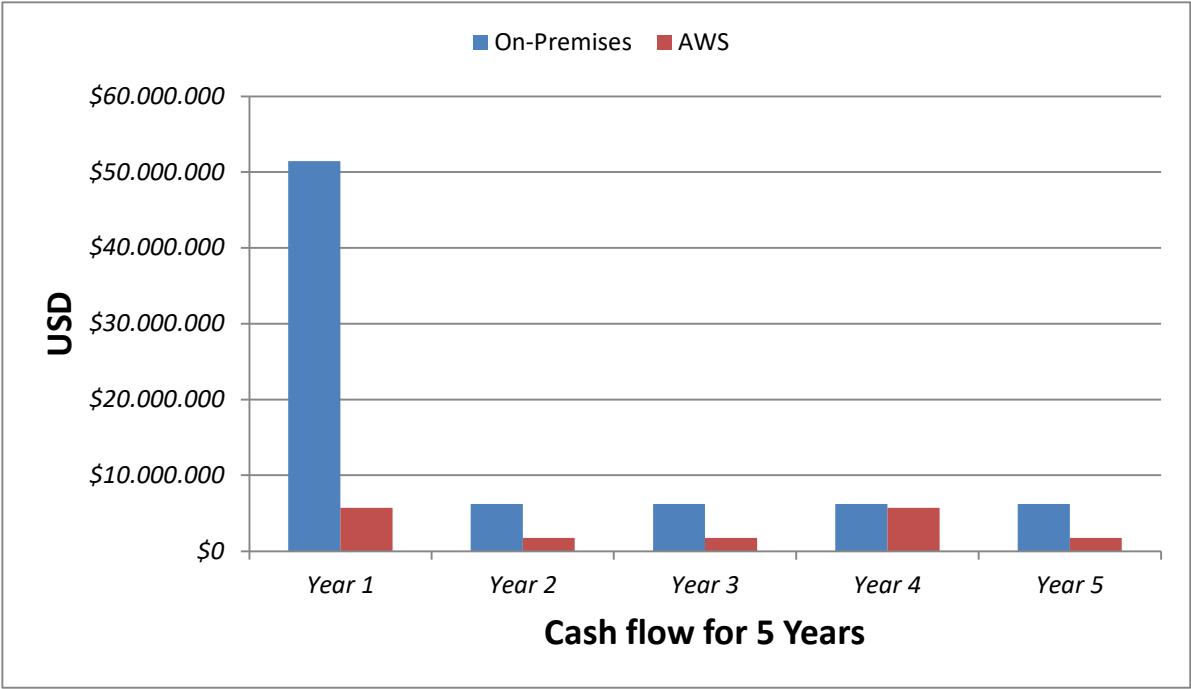
Total On-Premises cost	\$76.310.946	Total AWS cost	\$15.301.613
Annual savings	\$12.201.866	Annual savings %	80%



	Compute	Database	Storage	Network	IT labor	AWS Supp	Other cos	Total
On-Premis	\$29.016.962	\$0	\$29.552.520	\$0	\$17.741.464	\$0	\$0	\$76.310.946
AWS	\$7.843.979	\$0	\$4.269.656	\$0	\$2.478.938	\$709.041	\$0	\$15.301.613

Total cost of ownership: On-Premises vs AWS

Cash flow comparison



	Year 1	Year 2	Year 3	Year 4	Year 5	Residual and unused value
On-Premises						
Compute	\$4.319.997	\$0	\$0	\$0	\$0	
Server mainter	\$648.000	\$648.000	\$648.000	\$648.000	\$648.000	
Server rack/hai	\$1.994.390	\$0	\$0	\$0	\$0	
Server facilities	\$2.020.386	\$2.020.386	\$2.020.386	\$2.020.386	\$2.020.386	
Server software	\$9.360.650	\$0	\$0	\$0	\$0	
Database	\$0	\$0	\$0	\$0	\$0	
Database licen:	\$0	\$0	\$0	\$0	\$0	
Storage	\$29.552.520	\$0	\$0	\$0	\$0	
Storage rack/h:	\$0	\$0	\$0	\$0	\$0	
Storage facilitie	\$0	\$0	\$0	\$0	\$0	
Storage softwa	\$0	\$0	\$0	\$0	\$0	
Network	\$0	\$0	\$0	\$0	\$0	
IT Labor	\$3.548.293	\$3.548.293	\$3.548.293	\$3.548.293	\$3.548.293	
Other costs	\$0	\$0	\$0	\$0	\$0	
On-Premise	#####	#####	#####	#####	#####	\$0
AWS						
Compute	\$4.113.375	\$326.087	\$326.087	\$4.113.375	\$326.087	-\$1.361.033
Dedicated Host	\$0	\$0	\$0	\$0	\$0	
OS licenses - 3r	\$0	\$0	\$0	\$0	\$0	
VMware Cloud	\$0	\$0	\$0	\$0	\$0	
Database	\$0	\$0	\$0	\$0	\$0	\$0

Total cost of ownership: On-Premises vs AWS

Database licen:	\$0	\$0	\$0	\$0	\$0
Storage	\$853.931	\$853.931	\$853.931	\$853.931	\$853.931
Network	\$0	\$0	\$0	\$0	\$0
IT Labor	\$495.788	\$495.788	\$495.788	\$495.788	\$495.788
Support	\$231.819	\$81.801	\$81.801	\$231.819	\$81.801
Other costs	\$0	\$0	\$0	\$0	\$0
AWS total	#####	#####	#####	#####	#####

Your AWS environment

Your c

EC2 cost breakdown

Server c

		Cost
Amazon EC2 Shared and Dedicated Instan	1469 instance(s)	\$9.796.631
Amazon EC2 Instance Volume Discount	Standard Reserved Instance Volume	-\$591.620
Amazon EC2 Instance Residual value	Value after TCO duration	-\$1.361.033

Total compute cost	\$7.843.979
Adjustment	\$0
Total adjusted cost	\$7.843.979

Your AWS environment

Storage cost breakdown

Storage type	Storage size (GB)			Total/Max IOPS	Cost
	Shared	Virtual Server	Physical Server		
EBS - General Purpose	0	0	547167	0	\$4.269.656
EBS - Provisioned IOPS	0	0	0	0	\$0
Throughput Optimized HDD	0	0	0	0	\$0
EBS - Cold HDD	0	0	0	0	\$0
RDS - General Purpose	0 -	-	-		\$0
RDS - General Purpose-Aurora	0 -	-	-		\$0
RDS - Provisioned IOPS	0 -	-		0	\$0
EFS	0	0 -	-		\$0
S3Glacier	0	0 -	-		\$0
S3Standard	0	0 -	-		\$0
S3 IA	0	0 -	-		\$0
Total storage cost					\$4.269.656
Adjustment					\$0
Total adjusted cost					\$4.269.656

Network(Data Transfer from AWS to Outside)

Network(Data Transfer from AWS to Outside)			Network
Bandwidth(MB/Sec) Peak/Avg. ratio	Data Transfer per month (GB)	Cost	

Your c

Storage c

Network

Total cost of ownership: On-Premises vs AWS

Your AWS environment

Database cost breakdown

		Cost
Amazon database	AWS database cost	\$0
Database licenses - 3rd party	Database license cost	\$0
Amazon database residual value	Value after TCO duration	\$0

Your c

Database

Total database cost	\$0
Adjustment	\$0
Total adjusted cost	\$0

IT labor and support cost

	Cost
IT labor	\$2,478,938
AWS support cost	\$709,041
Total IT labor and cost	\$3,187,979
Adjustment	\$0
Total adjusted cost	\$3,187,979

IT labor

Total cost of ownership: On-Premises vs AWS

Total AWS cost	\$15.301.613	
Adjustment	\$0	Total On-
Total adjusted AWS cost	\$15.301.613	Adjustmer
		Total adji

Total cost of ownership: On-Premises vs AWS

Current environment

Cost breakdown

	Count	Unit(Space)	Power(KW)	Cost
Physical server	1551			\$4.319.997
Residual value				\$0
Maintenance contract				\$3.239.998
Total server cost				\$7.559.995
Rack chassis				\$103.600
PDU's, dual 280V per rack (2 for HA)cost				\$51.520
ToR 24x10GbE 48 port, 5-year support				\$1.073.520
Rack and Stack 1-time deployment, per-server				\$387.750
Provision for spare servers				\$378.000
Total rack infrastructure cost				\$1.994.390
Windows license for physical servers (2-core pack, one-time)				\$4.051.092
Windows Software Assurance cost (yearly)				\$5.063.865
RHEL license for physical servers (per 2 CPUs, yearly)				\$245.693
RHEL license for virtual servers (per 2 host CPUs, yearly)				\$0
SUSE license for physical servers (per 2 CPUs, yearly)				\$0
SUSE license for virtual servers (per 2 host CPUs, yearly)				\$0
VMware vSphere license (per CPU, one-time)				\$0
VMware vSphere support and subscription (yearly)				\$0
Microsoft Hyper-V licenses (2-core pack, one-time)				\$0
Microsoft Hyper-V Software Assurance (yearly)				\$0
Windows guest OS license (2-core pack, one-time)				\$0
Windows guest OS Software Assurance (yearly)				\$0
Total software cost				\$9.360.650
Rack operation				\$4.704.000
Power				\$5.397.928
Total facilities cost				\$10.101.928
Total compute cost				\$29.016.962
Adjustment				\$0
Total adjusted cost				\$29.016.962

Total cost of ownership: On-Premises vs AWS

Current environment

Storage cost breakdown

Storage type	Raw Size(GB)	Usable Size(GB)	Max IOPS	Backup %	Growth %	Cost
Physical server storage	2,3E+07	1,1E+07				\$23.048.313
Physical database storage	0	0				\$0

Rack cost						\$0
Storage software						\$0
Backup cost						\$6.504.207

Total storage cost						\$29.552.520
Adjustment						\$0
Total adjusted storage cost						\$29.552.520

						Cost
Network HW and SW cost						\$0
Maintenance cost						\$0
Bandwidth						\$0

Total network cost						\$0
Adjustment						\$0
Total adjusted network cost						\$0

Current environment

Cost breakdown

	Count	Unit(Space	Power(KW	Cost
Physical server	0			\$0
Residual value				\$0
Maintenance contract				\$0
Total server cost				\$0
Rack chassis				\$0
PDUs, dual 280V per rack (2 for HA)cost				\$0
ToR 24x10GbE 48 port, 5-year support				\$0
Rack and Stack 1-time deployment, per-server				\$0
Provision for spare servers				\$0
Total rack infrastructure cost				\$0
OS software and license cost				\$0
Total license cost				\$0
Rack operation				\$0
Power				\$0
Total facilities Cost				\$0
Total database cost				\$0
Adjustment				\$0
Total adjusted cost				\$0

	Cost
Server administrator cost	\$10.469.250
Storage administrator cost	\$5.958.031
Network administrator cost	\$1.314.182
Database administrator cost	\$0
Total IT labor cost	\$17.741.464
Adjustment	\$0

Total cost of ownership: On-Premises vs AWS

Total adjusted cost	\$17.741.464
On-Premises cost	\$76.310.946
Net	\$0
Adjusted On-Premises cost	\$76.310.946