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AWS Total Cost of Ownership (TCO) Calculator

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Are you satisfied with the AWS TCO Calculator? (1)

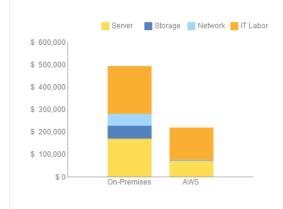


Would you like to take a survey about the TCO calculator? Click here

On-Premises vs. AWS Summary

You could save **56%** a year by moving your infrastructure to AWS. Your three year total savings would be \$ 274,200.

3 Years Cost Breakdown





AWS cost includes business level support

Environment Details

Your On-Premises environment

Your AWS environment : EU (Ireland)

		Enviro	onment	: Virtual	
# of VMs	vCPU	RAM (GB)	os	Avg. Utilization	Optimize by
10	2	40	Linux	80%	RAM

# Instances	Instance	vCPU	RAM (GiB)	Optimize by	Instance type
10	m4.2xlarge	8	32	RAM	3 Yr. Partial Upfront RI

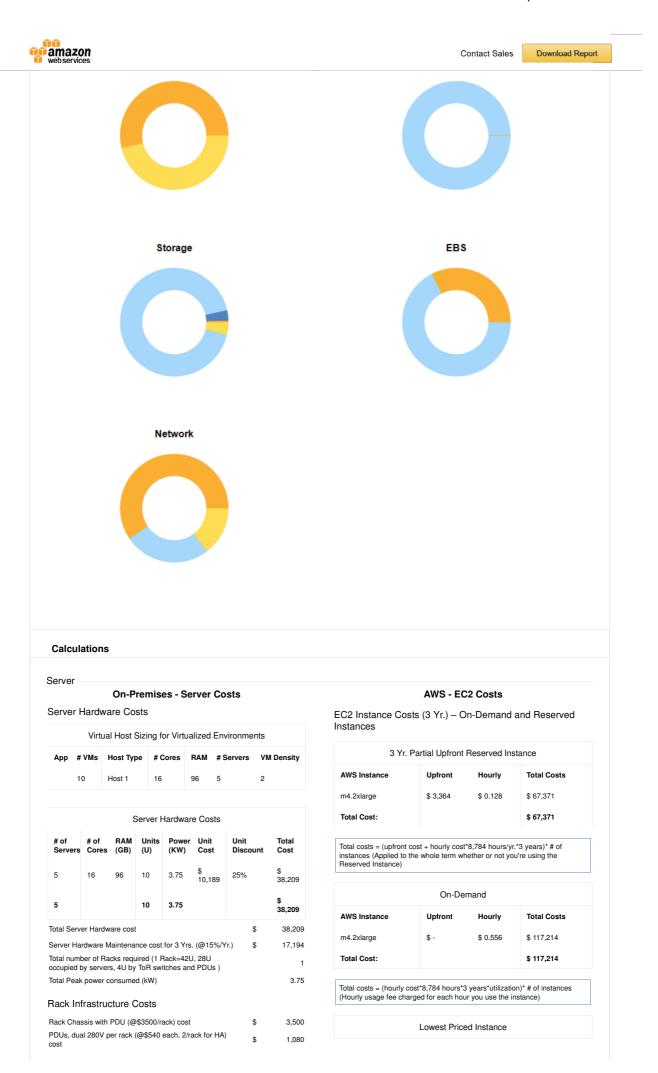
Closest AWS Instances

	Storage	(TB)	Band	andwidth (Mbps)			
SAN	NAS	Object	Pipe Size	Peak/Avg. Ratio			
1	0	0	100	3			

EC2 Instance Mapping Criteria							
Optimize by	Description						
CPU	Option matches by VCPU count and then finds the lowest priced EC2 instance from the available choices						
RAM	Option matches by RAM size and then finds the lowest priced EC2 instance from the available choices						
Storage IO	Option matches by I/O requirements and then finds the lowest priced EC2 instance from the available choices						

Cost Breakdown

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Total Cost

\$ 67,371

67,371

0%

6,028 73,399

Provision for spare servers for capacity/Yr.)	Provision for spare servers for 3 Yrs. (@5% spare capacity/Yr.)			Instance	Cost	Туре	•	
Total Rack costs (rack infra hardware)	\$	79,543	m4.2xlarge	\$ 67,371	3 Yr.	3 Yr. Partial Upfront RI		
Virtualization Software	e Costs			Total Cost:	\$ 67,371			
Total virtualization license Yrs.)	and maintenance cost (3	3 \$	-		EC2 R	eserved Ins	stances	
Total Server Cost (Hardwar	re and Software) - 3 Yr.	\$	79,543	AWS Instance	Instance type	# Instances	Upfront fee	Hourly
Facilities Costs (data On-Premises	center space, powe	er and cool	ing)) -	m4.2xlarge	3 Yr. Partial Upfront RI	10	\$ 3,364	\$ 0.128
Total Power consumed by se	ervers (kW)		3.75		орионети			020
Metered cost per kWH		\$	0.28	Total fee				\$
Estimated power cost/month	I	\$	756.00					
Monthly cost to operate a rac	ck	\$	1,800.00	Discount Tier Applicable				
Total rack costs/month		\$	1,800.00					\$
Total monthly Facilities costs	3	\$	2,556.00	AWS Business Support (EC2)				
Facilities costs - On-Premis	Facilities costs - On-Premises (3 Yr.)			EC2 Costs (3 Yr.) after discount and support				
Server cost break-dov	wn			,	,			\$
Se	erver cost break-down							
Category	Cost	% of Total (Cost					

Total server costs, including operational cost (3 \$ 171,559 Yr.)

\$ 79,543

\$ 92,016

\$ 171,559

46%

54%

100%

Storage On-Premises - Storage Costs

TBs processed/drive for backup window

Number of Tape drives required

Tape Library price/drive

Backup cost (3 Yr.)

Operating Costs (3 Yrs.)

Hardware Software

Total

•			
Only raw capacity specified, no IO requirement HDD by default SAN Cost	s; use		
Starting capacity/raw capacity (TB) - user provided		1	
Starting capacity/raw capacity (GB)		1,024	
Capacity after OS Penalty (~7%, capacity OS recognizes) (GB)		952	
Usable capacity based on RAID (RAID 10 assumed) configuration (GB)		476	
\$/raw GB purchase price	\$	4.40	
Discounted \$/raw purchase price (50% storage hardware discount applied)	\$	2.20	
Acquisition Cost of SAN storage	\$	2,253	
Storage backup cost			
Total amount of storage to be backed up (TB)		1.25	
Total amount of storage to be backed up (GB)		1,280	
Type of Tape Library used		LTO-5	
Max uncompressed speed (MB/s) for Tape Library		140	
Max uncompressed speed - TB/day		11.54	
Backup Window Time(hr.)		8	

Storage Overhead cost (data center space, power, cooling, storage administrator)

Typical TB managed by a storage admin/Yr. 1000

Storage Admin Costs (3 Yr.) \$ 210

Amount of TBs hosted by a single rack (TB) 1500

AWS - Storage Costs

EBS Storage - Only Standard EBS used with no IOPS requirements

EBS Costs - Equivalent to On-Premises SAN environment

Starting capacity (GB)	476.16				
Equivalent EBS storage volume	Gen	General Purpose (Magnetic)			
Number of EBS volumes required		1			
EBS volumes cost/month	\$	26.19			
Initial snapshot cost(one-time)	\$	45.24			
EBS incremental snapshots cost/month	\$	11.31			
Total EBS cost /month	\$	37			
EBS Costs (3 Yr) - no IOPS	\$	1,395			
EBS Costs (3 Yr.)	\$	1,535			
AWS Business Support (EBS)	\$	140			
Total AWS Storage Costs (3 Yr.) including support	\$	1,534.66			

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3.85

1.800

1,800

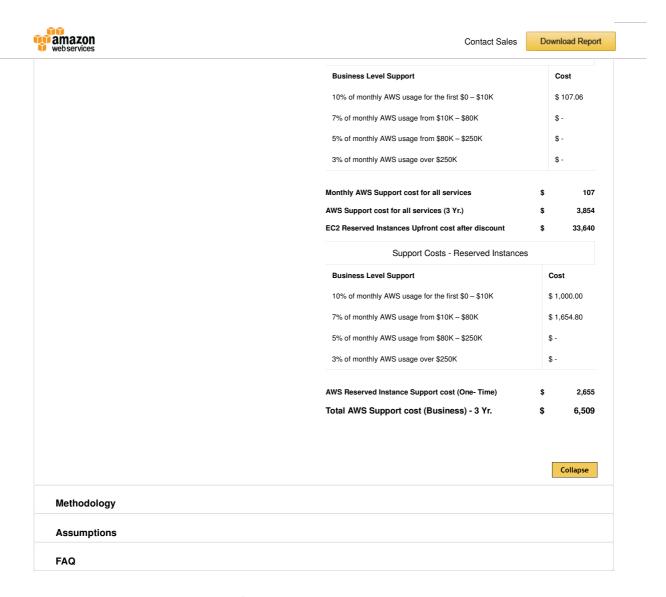


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WEDSELVICES								
Total data center space, power, cooling costs	s (3 Yr.)	\$	54,000					
Storage cost break-down								
Storage cost break	-down							
Category	ost	% of Tota	al Cost					
		4%						
Backup \$1	1,800	3%						
Overhead (excl. storage admin) \$5	54,000	93%						
Storage Admin \$2	210	0%						
Total \$5	8,263	100%						
Total Storage Costs (3 Yr.)		\$	58,263					
Network								
On-Premises - Networ	_	sts			S - Data Transf	er Costs		
Networking Hardware and Software			0001	Monthly Data Transfer Out (Ti	D)			1.0
Network overhead cost as a % of server hardwa acquisition cost	are		20%		Data Transfer Co	osts		
Network hardware and software cost		\$	15,908.62		EU (Ireland)	Tier(GB)	Month	ly Cost
Network hardware and software maintenance/Y	r.		15%	First 1 GB per month	\$ -	1	\$ -	
Maintenance cost (3 Yr.)		\$	7,158.88	·				
Total Network Hardware and Software costs	(3 Yr.)	\$	23,067	Up to 10 TB per Month	\$ 0.09	1054	\$ 94.8	5
Bandwidth Costs (On-Premises)				Next 40 TB per Month	\$ 0.09	0	\$ -	
Size of Network Pipe (Mbps)			100	Next 100 TB per Month	\$ 0.07	0	\$ -	
Peak/Avg. Ratio			3	Over 350 TB per Month	\$ 0.05	0	\$ -	
Average Bandwidth On-premises Bandwith costs/Mbps		\$	33.33 11.00					
On-premises Bandwith costs/Mbps Bandwith costs/month		\$	366.67	Total monthly data transfer co	ests		\$	94.8
Avg. data transferred per month (TB)- Inbound	+ Outbound		10.3	AWS Business Support (da	ta transfer\		\$	34 ⁻
Avg. data transferred per month (TB)- North/Sou			2.06	Awa business aupport (da	ia ii alister)		Þ	34
Avg. data transferred per month (TB) - Outbound	d		1.03	Data Transfer Costs (3 \	Yr.) including su	pport	\$	3,75
Bandwith costs - On-Premises (3 Yr.)		\$	13,200					
Network Admin Costs								
Network admin effort as % of total IT admin effort	ort		8%					
Avg. burdened salary for your Network Admin		\$	70,000					
IT labor cost (1 Yr.)		\$	70,000					
Network admin costs (1 Yr.)		\$	5,600					
Network admin costs (3 Yr.)		\$	16,800					
Total Networking Costs (3 Yr.)		\$	53,067					
IT Labor On-Premises - IT Lal	bor Cos	ts		A	WS - IT Labor	Costs		
Number of VMs managed by an Admin			10	# of EC2 instances managed	by an admin			1
Avg. burdened salary for your IT Admin		\$	70,000	Avg. burdened salary for your	-		\$	70,000
Number of VMs in your current environment			10	# of EC2 instances in your en	nvironment			10
Admin effort required for your current environme	ent		100%	Admin effort Required for you	ur current environme	nt		67%
IT labor costs (1 Yr.)		\$	70,000	IT labor costs (1 Yr.)			\$	46,667
Total IT Admin Costs -based on number / Servers (3 Yr.)	er of VMs	\$	210,000	Total IT Admin Costs -ba Servers (3 Yr.)	ased on number	of VMs /	\$	140,00
AWS Support					WO 0	0004-		
				Monthly EC2 Spend	WS - Support (COSTS	\$	936.97
				Monthly EBS Spend			\$	38.75
				Monthly S3 Spend			\$	30.70
				Monthly S3IA Spend			\$	

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This Calculator provides an estimate of usage charges for On-Premises/Colocation and equivalent AWS services based on the information you provide.

AWS monthly charges will be based on your actual usage of AWS services, and may vary from the estimates the Calculator has provided.

Give us your feedback

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