Total Cost of Ownership (TCO) Calculator

Estimate the cost savings you can realize by migrating your workloads to Azure

My saved reports
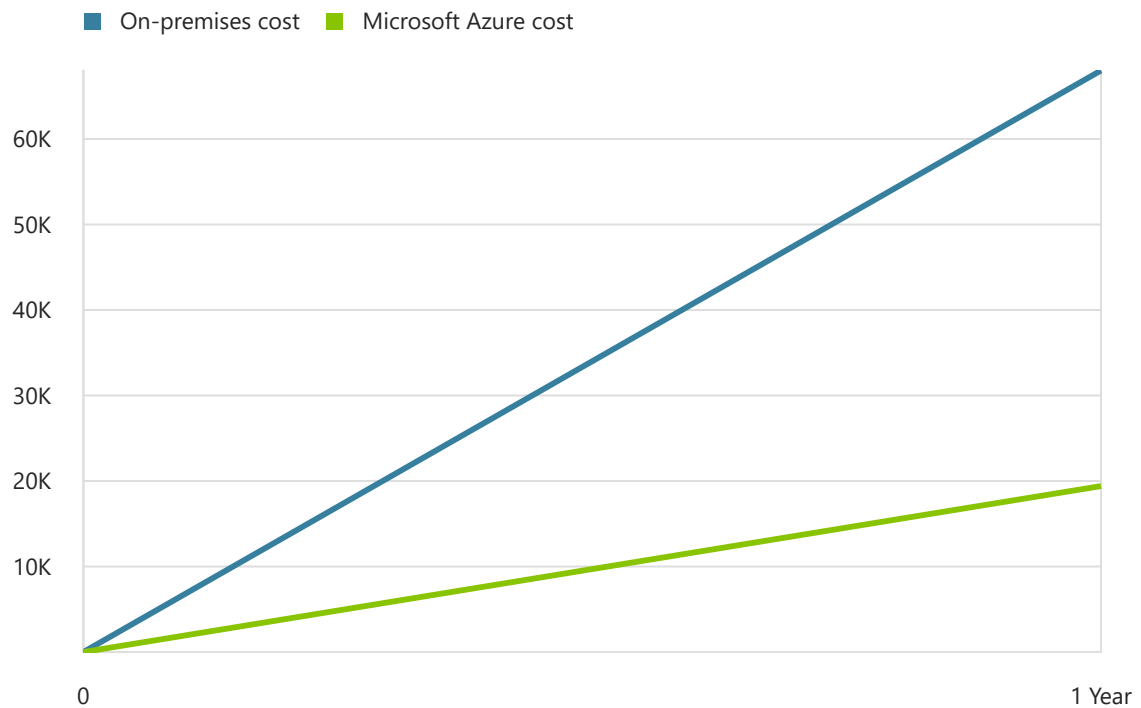
Δημητριος-Νεκταριος Βατουσης
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Over 1 year(s) with Microsoft Azure, your estimated cost savings could be as much as €48,609

Total on-premises vs. Azure cost over time

Savings from running workloads in Azure accrue over time. The following shows how those savings add up over years.

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On-premises cost ■ Microsoft Azure cost
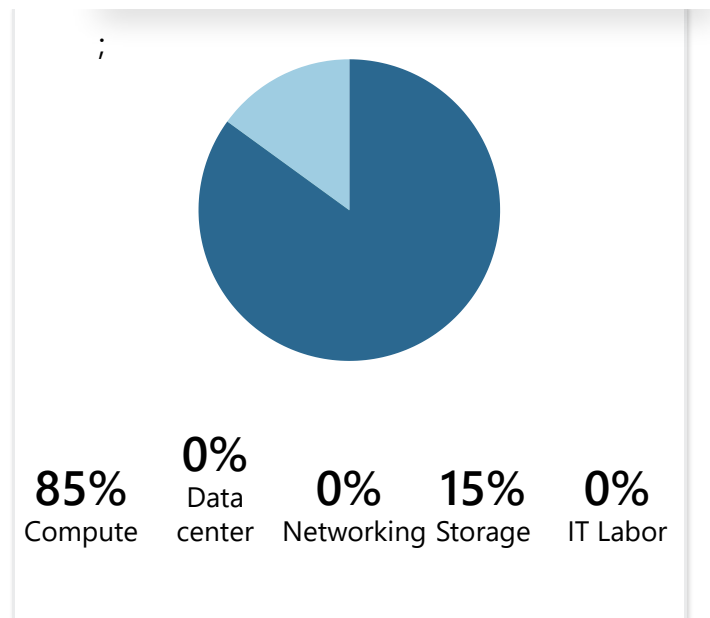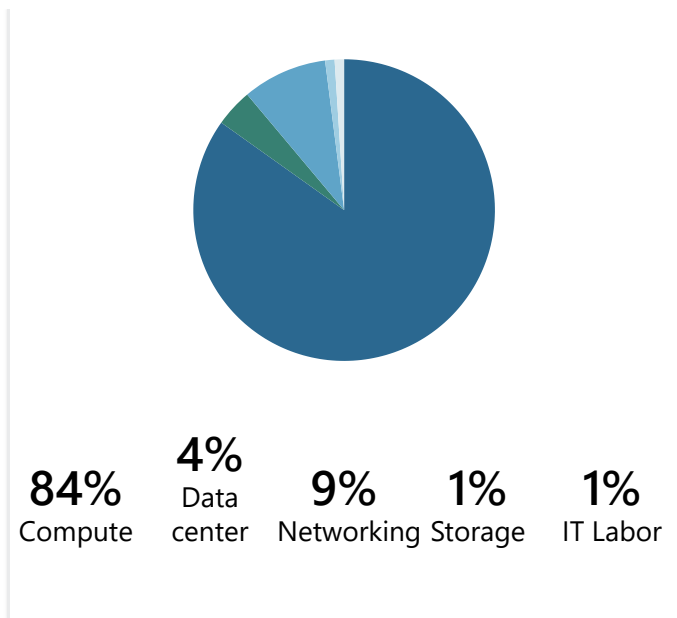
Total on-premises over 1 year(s)

TCO of on-premises environments tends to be driven by compute and data center costs.

Total Azure cost over 1 year(s)

In Azure, certain cost categories decrease or go away completely.

€68,016
Total cost

€19,407
Total cost

84% Compute	**4%** Data center	**9%** Networking	**1%** Storage	**1%** IT Labor

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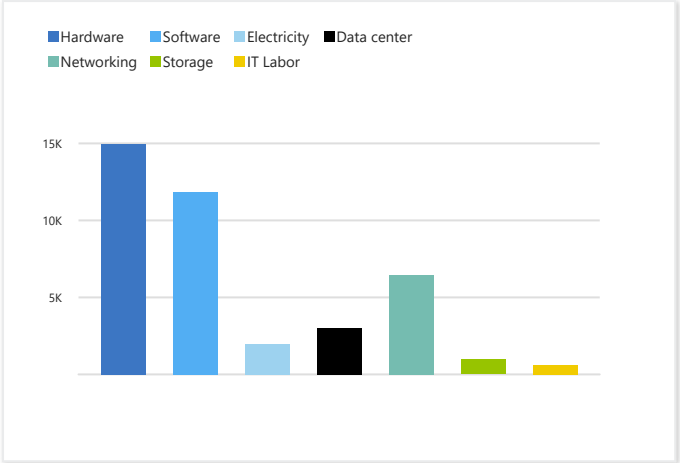| **85%** Compute	**0%** Data center	**0%** Networking	**15%** Storage	**0%** IT Labor

Total on-premises cost breakdown

In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

Total Azure cost breakdown
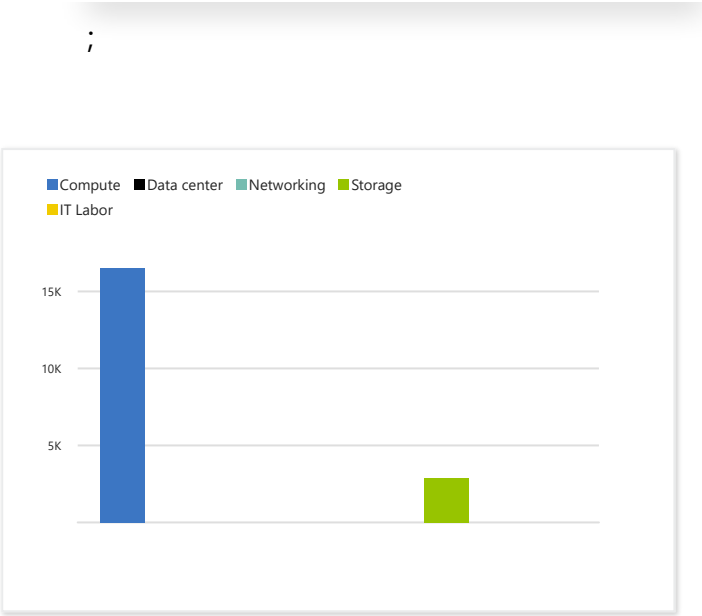
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€68,016
Cost over 1 year(s)

€19,407
Cost over 1 year(s)

On-premises cost breakdown summary

Azure cost breakdown summary

Category	Cost
Compute	€57,013.74

Category	Cost

Hardware	€14,945.33	Compute	€16,497.51
Software	€11,858.91	Data Center	€0.00
Electricity	€2,002.28	Networking	€0.00
Database	€28,207.23	Storage	€2,909.36
Data Center	€2,990.40	IT Labor	€0.00
Networking	€6,444.42		
Storage	€973.74		
IT Labor	€593.42		

Total	**€68,015.93**

Total	**€19,407.33**

Estimated on-premises cost (1 year(s))

Estimated Azure cost (1 year(s))

Compute cost

Hardware cost

Cost per 1 proc 2 core, 3.5 GB RAM physical server for Windows	€1,666.00
Number of servers required	4
Cost per 1 proc 4 core, 7 GB RAM physical server for Windows	€1,930.15
Number of servers required	2
Cost per 1 proc 4 core, 7 GB RAM physical server for Windows	€1,930.15
Number of servers required	1
Total cost for physical server(s)	€12,454.44
Cost of maintaining physical server(s) - 20% of cost of physical server(s)	€2,490.88
Total cost of maintaining server(s) over one year(s)	€2,490.88
Total hardware cost over one year(s)	**€14,945.33**

Software cost

Cost of Windows standard license per 1 proc, 2 core, 3.5 GB RAM physical machine	€961.62
Number of licenses needed	4
Cost of Windows standard license per 1 proc, 4 core, 7 GB RAM physical machine	€961.62
Number of licenses needed	2
Cost of Windows datacenter license per 1 proc, 4 core, 7 GB RAM physical machine	€6,089.22
Number of licenses needed	1
Total software license cost	€11,858.91

Azure compute cost

App Service cost

S2 Standard App Service (2 core, 3.5 GB RAM)	€0.185 /hr
	SKU# T2X-00011
Full time App Service instances	1
Average utilization	80 %
Auto scaling	Yes
Peak Load % per month	40 %
Auto scaled instances	3
Total App Service cost per month	€270.41
S3 Standard App Service (4 core, 7 GB RAM)	€0.370 /hr
	SKU# T2X-00013
Full time App Service instances	1
Average utilization	80 %
Auto scaling	Yes
Peak Load % per month	40 %
Auto scaled instances	1
Total App Service cost per month	€324.49
Total App Service cost over one year(s)	**€7,138.80**

SQL Database cost

Business Critical Single Gen5 2 vCores	€1.06835 /hr
	SKU#
Instance Count	1
Cost Per Month	€779.90
Total SQL Database cost over one year(s)	**€9,358.74**

Total software cost over one year(s)	€11,858.91

Electricity cost

Price of electricity per kWh	€0.20
Power rating of 2 core, 3.5 GB RAM server	156 Watts
Total electricity cost consumed by 4 server(s) - 2 core, 3.5 GB RAM server per month	€92.79
Power rating of 4 core, 7 GB RAM server	166 Watts
Total electricity cost consumed by 2 server(s) - 4 core, 7 GB RAM server per month	€49.38
Power rating of 4 core, 7 GB RAM server	166 Watts
Total electricity cost consumed by 1 server(s) - 4 core, 7 GB RAM server per month	€24.69

Total electricity cost over one year(s)	€2,002.28

SQL Database cost

Total CPU cores	4
SQL Server Enterprise License cost per 2 cores	€14,103.62
Enterprise cores	4
Total license cost	€28,207.23

Total SQL Database cost over one year(s)	€28,207.23

NOTE: A minimum of four core licenses are required for each physical processor on the server or VM

Total cost over one year(s)	€57,013.74

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Total Azure compute cost over one year(s)	€16,497.51

Data center cost

Compute cost

Number of rack units per rack	42
Rack units required per 2 core, 3.5 GB RAM server	1
Number of 2 core, 3.5 GB RAM server	4
Total number of rack units required	€3.70
Rack units required per 4 core, 7 GB RAM server	1
Number of 4 core, 7 GB RAM server	2
Total number of rack units required	€1.85
Rack units required per 4 core, 7 GB RAM server	1
Number of 4 core, 7 GB RAM server	1
Total number of rack units required	€0.93
Total number of rack units required for all server(s)	€6.48
Data center construction cost per rack unit amortized over 20 years	€299.04
Data center compute cost	€2,093.29
Total Data center compute cost over one year(s)	**€2,093.29**

Storage cost

Total number of rack units required for all storage	3
Number of rack units for Blob	3
Rack mounting/installation cost	€897.12
Total Data center storage cost over one year(s)	**€897.12**

Azure data center cost

Total Azure data center cost over one year(s)	€0.00

year(s) €2,990.40

Networking cost

Azure networking cost

Total hardware + software cost over one year(s)	€26,804.23
Network hardware and software cost assumed to be 15% of hardware and software cost over one year(s)	€4,020.63
Network maintenance cost assumed to be 15% of network hardware and software cost over one year(s)	€603.09
Service provider cost/GB per month	€0.15
Amount of bandwidth needed (GB) per month	1,024
Total service provider cost per month	€151.72

Total outgoing bandwidth needed per month	1 TB
Total outgoing bandwidth cost per month	€0.00

Total networking cost over one year(s)	**€6,444.42**

Total Azure networking cost over one year(s)	**€0.00**

Storage cost

Azure storage cost

Hardware

Block Blob storage Hot tier

Blob	
Cost per GB	€0.19
Storage (RAID 10 configuration) volume in GB (GRS enabled Storage volume doubled to provide geo-redundant capability)	3,072

Usable storage volume in GB	1,024
Average storage cost per GB/month	€0.06
% of data being accessed frequently	100
SKU# N9H-01011	

Total storage procurement cost	**€597.42**

Backup

Total backup and archive volume in GB	4,096
	HP LTO-7 BB873A
Backup volume per tape in TB	6
Number of Tape drives required	2
Cost per Tape Drive	€158.29

Backup and Archive cost over one year(s)	**€316.58**

Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over one year(s)	€59.74

Total storage maintenance cost over one year(s)	**€59.74**

Annual storage cost per usable volume	€640.98

Total Blob storage - Hot Tier - GRS maintenance cost over one year(s)	**€640.98**

Backup

Total backup and archive volume in GB	4,096
Storage cost per GB	€0.0415
	SKU# AAL-32039

Backup and Archive maintenance cost over one year(s)	**€2,039.18**

SQL Database Server storage

Usable storage volume in GB	75
Price per GB/Month	€0.004
Active DB Storage Cost/Month	€0.255
Annual storage cost per usable volume	€229.20

Total SQL Database Server Storage cost over one year(s)	**€229.20**

SQL Database Backup storage

Billable backup storage volume in GB	0
Price per GB/Month	€0.00
Backup Storage Cost/Month	€0.204
Annual storage cost per usable volume	€0.00

Total SQL Database Backup Storage Cost over one year(s)	**€0.00**

year(s) €973.74

Total Azure storage cost over one year(s) €2,909.36

IT labor cost

Azure IT labor cost

| Number of IT admin hour(s) needed per year | 60 |
| Hourly rate for IT administrator | €9.89 |

| Number of IT admin hour(s) needed per year | 0 |
| Hourly rate for IT administrator | €9.89 |

Total IT labor cost over one year(s) €593.40

Total Azure IT labor cost over one year(s) €0.00

Total on-premises cost over one year(s) €68,015.93

Total Azure cost over one year(s) €19,407.33

A total **savings** of **€48,608.60** with **Microsoft Azure**