


Total Cost of Ownership (TCO) Calculator

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

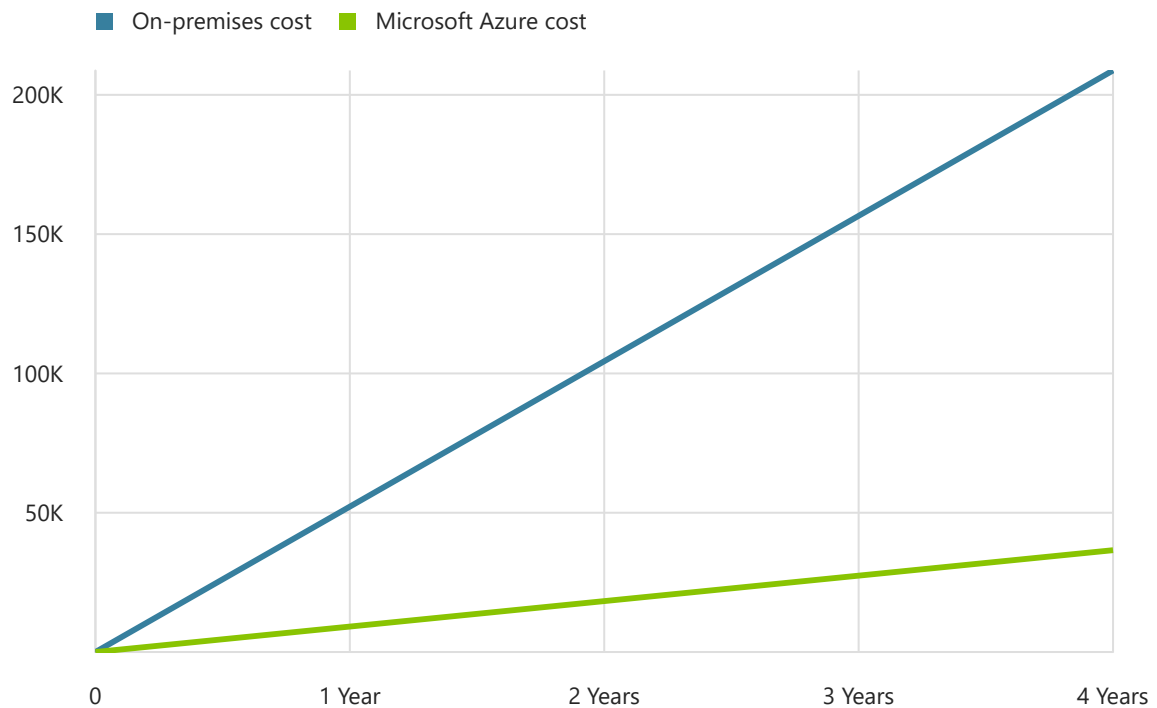
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Over 4 year(s) with Microsoft Azure, your estimated cost savings
could be as much as **€172,198**

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.



Total on-premises over 4 year(s)

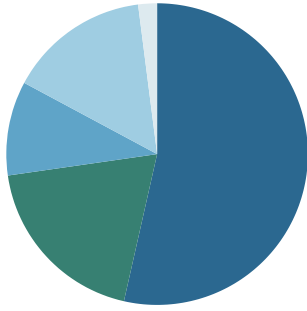
TCO of on-premises environments tends to be driven by compute and data center costs.

€208,752
Total cost

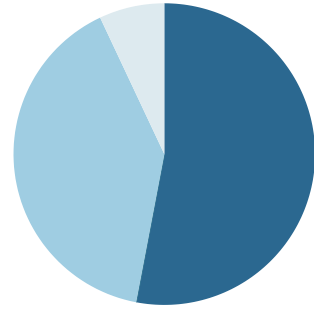
Total Azure cost over 4 year(s)

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

€36,554
Total cost



53%	19%	10%	15%	2%
Compute	Data center	Networking	Storage	IT Labor



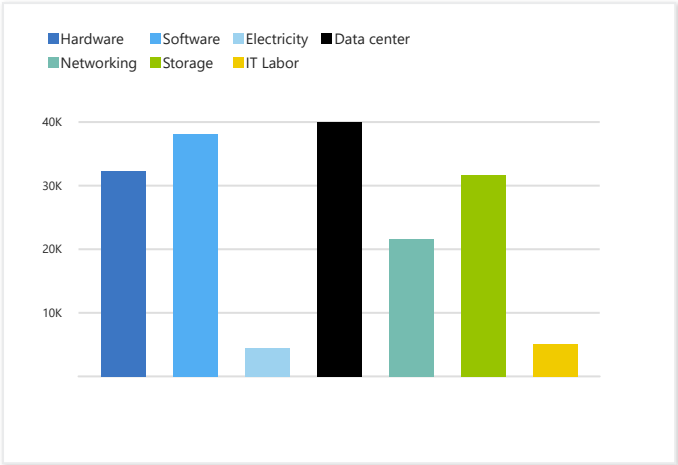
53%	0%	0%	40%	7%
Compute	Data center	Networking	Storage	IT Labor

Total on-premises cost breakdown

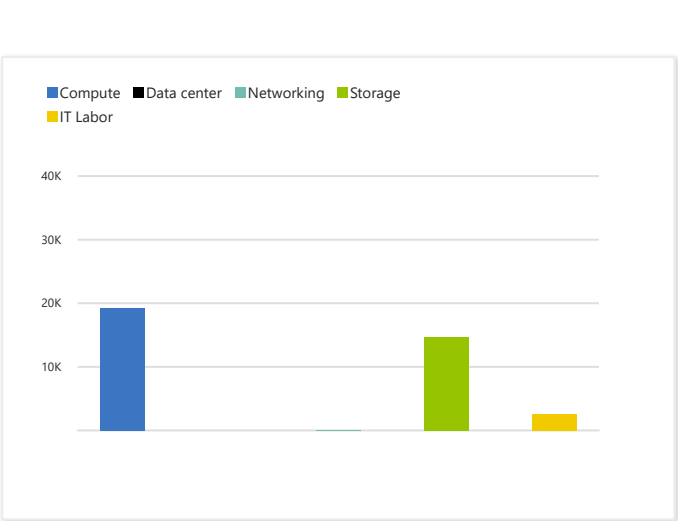
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

Total Azure cost breakdown

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



€208,752
Cost over 4 year(s)



€36,554
Cost over 4 year(s)

On-premises cost breakdown
summary

Azure cost breakdown summary

Category	Cost
Compute	€110,430.70

Category	Cost

Hardware	€32,274.58	Compute	€19,209.28
Software	€38,087.00		
Electricity	€4,444.40	Data Center	€0.00
Database	€35,624.73	Networking	€38.81
Data Center	€39,954.93	Storage	€14,748.89
Networking	€21,560.25	IT Labor	€2,557.589
Storage	€31,689.29		
IT Labor	€5,116.83		

Total	€208,752.09	Total	€36,554.18
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Estimated on-premises cost (4 year(s))

Estimated Azure cost (4 year(s))

Compute cost

Azure compute cost

Hardware cost

Cost per 1 proc 4 core, 7 GB RAM physical server for Windows	€1,609.70
Number of servers required	2
Cost per 1 proc 4 core, 7 GB RAM physical server for Windows	€1,609.70
Number of servers required	2
Cost per 2 proc 4 core, 14 GB RAM physical server for Windows	€5,745.76
Number of servers required	2
Total cost for physical server(s)	€17,930.33
Cost of maintaining physical server(s) - 20% of cost of physical server(s)	€3,586.06
Total cost of maintaining server(s) over four year(s)	€14,344.25

Total hardware cost over four year(s)	€32,274.58
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Software cost

Cost of Windows datacenter license per 1 proc, 4 core, 7 GB RAM physical machine	€5,078.27
Number of licenses needed	2
Cost of Windows datacenter license per 1 proc, 4 core, 7 GB RAM physical machine	€5,078.27
Number of licenses needed	2
Cost of Windows datacenter license per 2 proc, 4 core, 14 GB RAM physical machine	€5,078.27
Number of licenses needed	2
Total software license cost	€30,469.60
Total Software Assurance cost	€7,617.40

Virtual Machines cost

Number of hours per month	730
B4MS Standard (4 core, 16 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA-88012
Number of virtual machines	2
Total virtual machine cost per month	€100.50
	Licensing program: Dev/Test
B4MS Standard (4 core, 16 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA-88012
Number of virtual machines	2
Total virtual machine cost per month	€100.50
	Licensing program: Dev/Test

Total Azure Virtual Machines cost	€9,648.09
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NOTE: For Azure compute costs, 3 year Reserved VM and one 1 year Reserved VM in use.

SQL Database cost

General Purpose Single Gen5 2 vCores (Azure Hybrid Benefit)	€0.12279 /hr
	SKU#
Instance Count	2
Cost Per Month	€99.60
Total SQL Database cost over four year(s)	€9,561.19

Total software cost over four year(s)	€38,087.00
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Electricity cost

Price of electricity per kWh	€0.10
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Power rating of 4 core, 7 GB RAM server	166 Watts
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Total electricity cost consumed by 2 server(s) - 4 core, 7 GB RAM server per month	€23.43
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Power rating of 4 core, 7 GB RAM server	166 Watts
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Total electricity cost consumed by 2 server(s) - 4 core, 7 GB RAM server per month	€23.43
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Power rating of 4 core, 14 GB RAM server	324 Watts
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Total electricity cost consumed by 2 server(s) - 4 core, 14 GB RAM server per month	€45.73
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Total electricity cost over four year(s)	€4,444.40
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SQL Database cost

Total CPU cores	12
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SQL Server Standard License cost per 2 cores	€3,066.76
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Standard cores	12
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Total license cost	€18,400.58
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Standard Software Assurance cost per 2 cores	€717.67
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Standard cores	12
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Total Software Assurance cost	€17,224.15
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Total SQL Database cost over four year(s)	€35,624.73
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NOTE: A minimum of four core licenses are required for each physical processor on the server or VM

		Total Azure compute cost over four year(s)	€19,209.28
Data center cost		Azure data center cost	
Compute cost			
Number of rack units per rack	42	Total Azure data center cost over four year(s)	€0.00
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	€1.76		
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	€1.76		
Rack units required per 4 core, 14 GB RAM server	2		
Number of 4 core, 14 GB RAM server	2		
Total number of rack units required	€3.52		
Total number of rack units required for all server(s)	€7.03		
Data center construction cost per rack unit amortized over 20 years	€525.72		
Data center compute cost	€4,205.78		
Total Data center compute cost over four year(s)	€16,823.13		
Storage cost			
Total number of rack units required for all storage	11		
Number of rack units for DAS or SAN	11		
Rack mounting/installation cost	€5,782.95		

Total Data center storage cost over four year(s)	€23,131.80
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Total Data center cost over four year(s)	€39,954.93
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Total Azure data center cost over four year(s)	€0.00
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Networking cost

Azure networking cost

Total hardware + software cost over four year(s)	€70,361.58
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Network hardware and software cost assumed to be 25% of hardware and software cost over four year(s)	€17,590.39
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Network maintenance cost assumed to be 20% of network hardware and software cost over four year(s)	€3,518.08
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Service provider cost/GB per month	€0.18
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Amount of bandwidth needed (GB) per month	51
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Total service provider cost per month	€9.41
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Total outgoing bandwidth needed per month	51 GB
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Total outgoing bandwidth cost per month	€0.81
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Total networking cost over four year(s)	€21,560.25
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Total Azure networking cost over four year(s)	€38.81
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Storage cost

Azure storage cost

Hardware

Local Disk/SAN-HDD Cost per GB	€1.65
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Storage (RAID 10 configuration) volume in GB (GRS enabled Storage volume doubled to provide geo-redundant capability)	10,490
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Total storage procurement cost	€17,331.20
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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	€3,712.79

Backup and Archive cost over four year(s)	€7,425.57
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Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over four year(s)	€6,932.49
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Total storage maintenance cost over four year(s)	€6,932.49
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Page Blob storage

Usable storage volume in GB	2,685
Storage cost per GB/month	€0.05

Annual storage cost per usable volume	€1,698.92
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Total Page Blob GRS storage maintenance cost over four year(s)	€6,795.70
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Backup

Total backup and archive volume in GB	4,096
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Storage cost per GB	€0.0394
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SKU# AAL-32039

Backup and Archive maintenance cost over four year(s)	€7,740.61
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SQL Database Server storage

Usable storage volume in GB	40
Price per GB/Month	€0.003
Active DB Storage Cost/Month	€0.111

Annual storage cost per usable volume	€53.15
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Total SQL Database Server Storage cost over four year(s)	€212.60
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SQL Database Backup storage

Billable backup storage volume in GB	0
Price per GB/Month	€0.00
Backup Storage Cost/Month	€0.193

Annual storage cost per usable volume	€0.00
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Total SQL Database Backup Storage Cost over four year(s)	€0.00
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Total storage cost over four year(s)	€31,689.29
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Total Azure storage cost over four year(s)	€14,748.89
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IT labor cost

Azure IT labor cost

Number of IT admin hour(s) needed per year	31.01
Hourly rate for IT administrator	€41.25

Number of IT admin hour(s) needed per year	15.5
Hourly rate for IT administrator	€41.25

Total IT labor cost over four year(s)	€5,116.83
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Total Azure IT labor cost over four year(s)	€2,557.59
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Total on-premises cost over four year(s)	€208,752.09
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Total Azure cost over four year(s)	€36,554.18
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A total **savings** of **€172,197.91** with **Microsoft Azure**

