

Total Cost of Ownership (TCO) Calculator

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



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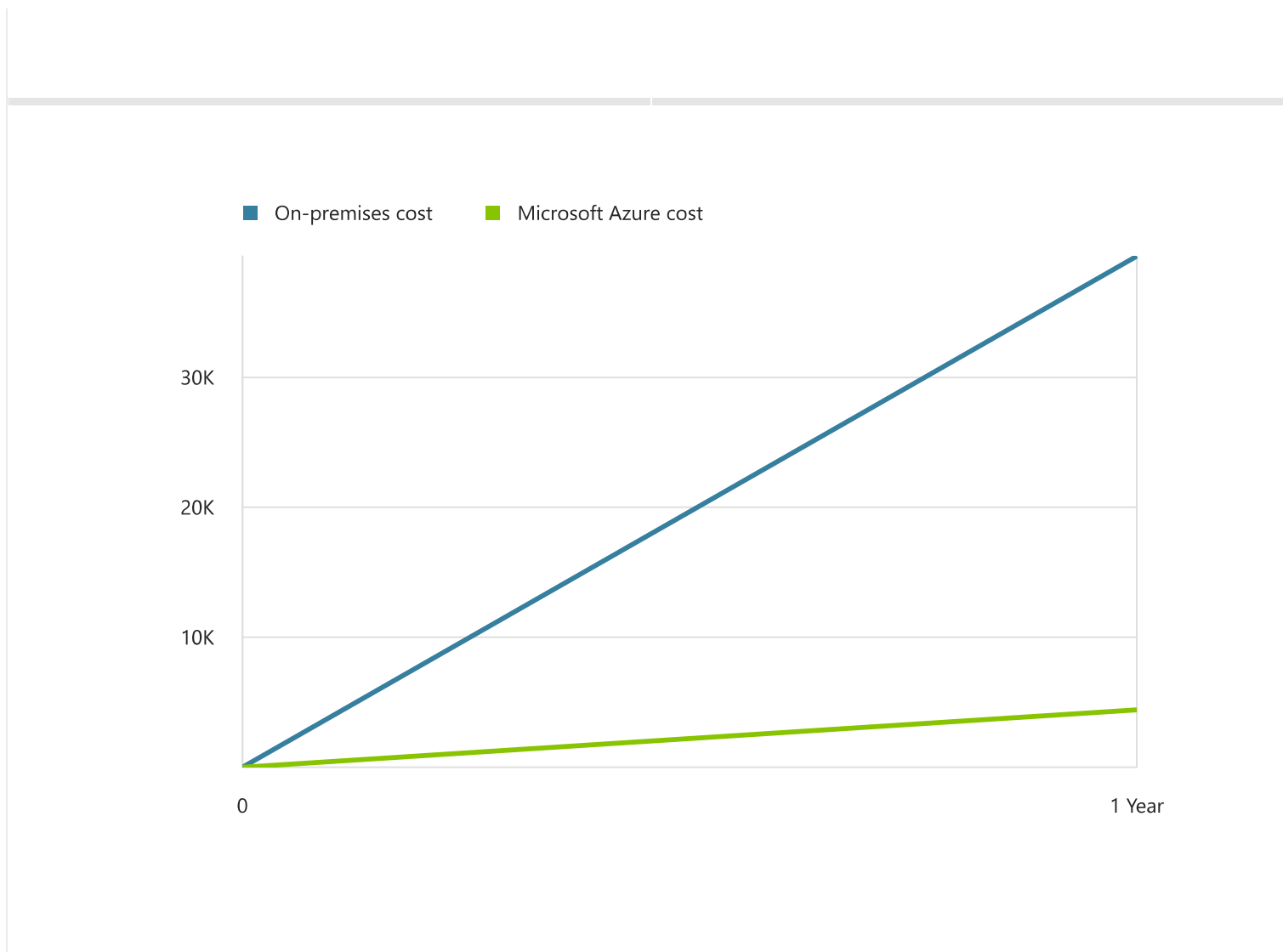
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Over 1 year(s) with Microsoft Azure, your estimated cost savings
could be as much as **\$34,923**

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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Total on-premises over 1 year(s)

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

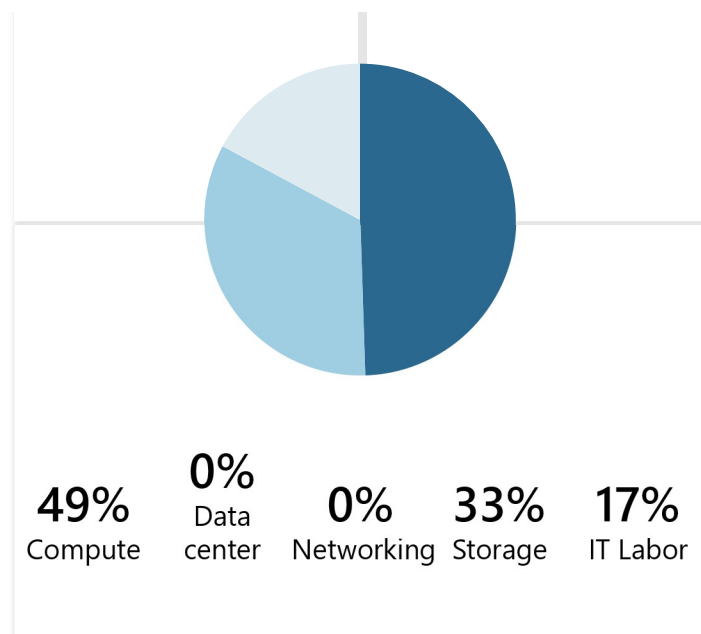
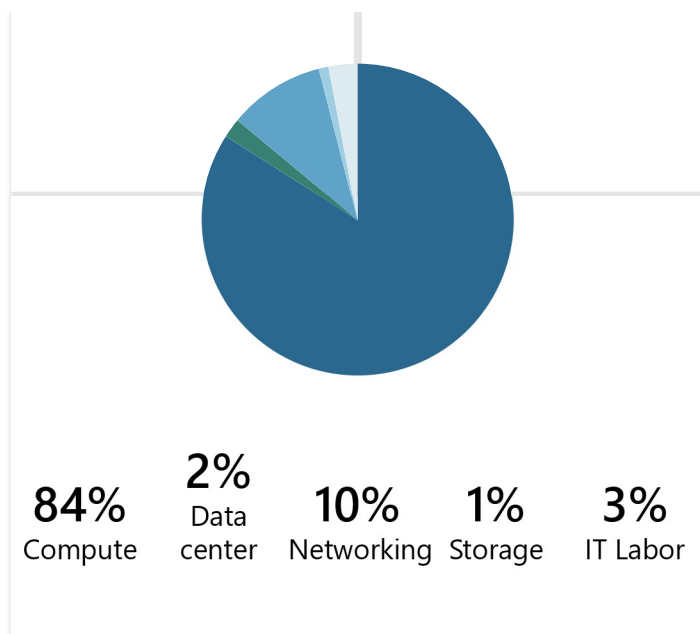
Total Azure cost over 1 year(s)

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

\$39,325
Total cost

\$4,402
Total cost⁺

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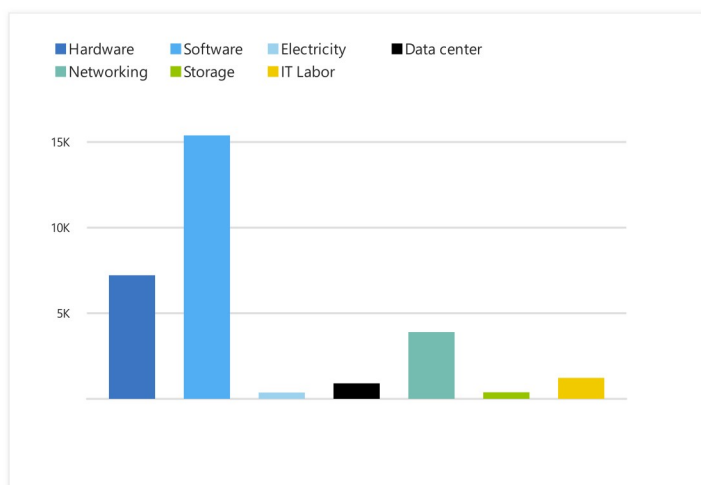
Total on-premises cost breakdown

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

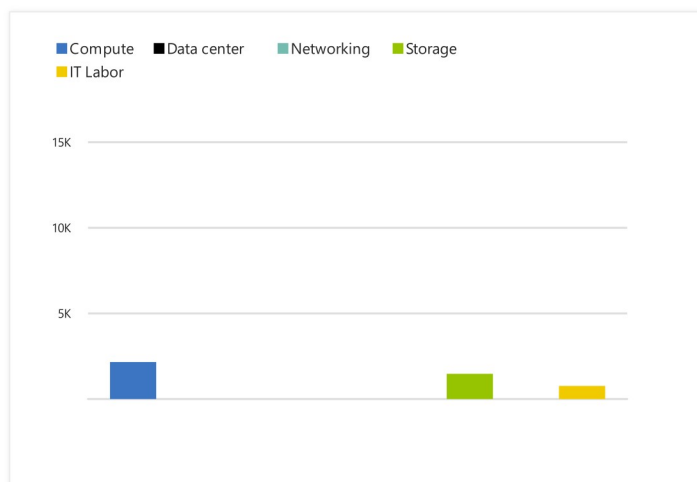
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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\$39,325

Cost over 1 year(s)



\$4,402

Cost over 1 year(s)

**On-premises cost breakdown
summary**

Azure cost breakdown summary

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Total	\$39,325.00
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Total	\$4,402.00
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Estimated on-premises cost (1 year(s))

Estimated Azure cost (1 year(s))

Compute cost

Azure compute cost

Hardware cost

Cost per 1 proc 2 core, 3.5 GB RAM physical server for Windows	\$1,684.00
Number of servers required	1
Total cost for physical server(s)	\$1,684.00
Cost of maintaining physical server(s) - 20% of cost of physical server(s)	\$336.80
Virtual machine density - Number of virtual cores that can be created per physical core	3
Cost per 2 proc 1 core, 4 GB RAM virtualization server for Windows	\$4,332.00
Number of servers needed for 2 virtual machine(s) - 2 core, 4 GB RAM	1
Total cost for virtualization server(s)	\$4,332.00
Cost of maintaining virtualization server(s) - 20% of cost of virtualization server(s)	\$866.40
Total cost of maintaining server(s) over one year(s)	\$1,203.20

Virtual Machines cost

Number of hours per month	730
B2S Standard (2 core, 4 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA-68666
Number of virtual machines	2
Total virtual machine cost per month	\$35.60

Total Azure Virtual Machines cost \$427.20

NOTE: For Azure compute costs, one 1 year Reserved VM in use.

SQL Database cost

General Purpose Single Gen5 2 vCores (Azure Hybrid Benefit)	\$0.19794 /hr
	SKU#
Instance Count	1
Cost Per Month	\$144.50

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Total hardware cost over one year(s)	\$7,219.20
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Total SQL Database cost over one year(s)	\$1,734.00
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Software cost

Cost of Windows datacenter license per 2 proc, 1 core, 4 GB RAM virtualization server	\$6,155.00
Number of servers needed for 2 virtual machine(s) - 2 core, 4 GB RAM	1

Cost of Windows datacenter license per 1 proc, 2 core, 3.5 GB RAM physical machine	\$6,155.00
Number of licenses needed	1

Total software license cost	\$12,310.00
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Total Software Assurance cost	\$3,077.50
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Total software cost over one year(s)	\$15,387.50
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Electricity cost

Price of electricity per kWh	\$0.1334
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Power rating of 1 core, 4 GB RAM server	160 Watts
Total electricity cost for 1 server(s) - 1 core, 4 GB RAM server per month	\$15.58

Power rating of 2 core, 3.5 GB RAM server	156 Watts
Total electricity cost consumed by 1 server(s) - 2 core, 3.5 GB RAM server per month	\$15.19

Total electricity cost over one year(s)	\$369.24
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Virtualization cost

Virtualization software license cost	\$0.00
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Per virtual machine, per month, cost to load balance, backup and patch virtual machines	\$26.52
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Number of virtual machines	2
Virtual machine management cost per month	\$53.04
Virtual machine management cost per year	\$636.48

Total virtualization cost over one year(s)	\$636.48
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SQL Database cost

Total CPU cores	4
SQL Server Standard License cost per 2 cores	\$3,717.00
Standard cores	4
Total license cost	\$7,434.00
Standard Software Assurance cost per 2 cores	\$929.25
Standard cores	4
Total Software Assurance cost	\$1,858.50

Total SQL Database cost over one year(s)	\$9,292.50
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NOTE: A minimum of four core licenses are required for each physical processor on the server or VM

Total cost over one year(s)	\$32,904.92
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Total Azure compute cost over one year(s)	\$2,161.20
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Data center cost

Azure data center cost

Compute cost

Number of rack units per rack	42
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Rack units required per 1 core, 4 GB RAM server	1
Number of 1 core, 4 GB RAM server	1
Total number of rack units required	\$1.00
Rack units required per 2 core, 3.5 GB RAM server	1
Number of 2 core, 3.5 GB RAM server	1
Total number of rack units required	\$1.00
Total number of rack units required for all server(s)	\$2.00
Data center construction cost per rack unit amortized over 20 years	\$302.27
Data center compute cost	\$604.54
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Total Data center compute cost over one year(s)	\$604.54

Storage cost

Total number of rack units required for all storage	1
Number of rack units for DAS or SAN	1
Rack mounting/installation cost	\$302.27
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Total Data center storage cost over one year(s)	\$302.27

Total Data center cost over one year(s)	\$906.81
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Total Azure data center cost over one year(s)	\$0.00
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Total Azure data center cost over one year(s)	\$0.00
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Networking cost

Azure networking cost

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Total hardware + software cost over one year(s)	\$22,606.70
Network hardware and software cost assumed to be 15% of hardware and software cost over one year(s)	\$3,391.00
Network maintenance cost assumed to be 15% of network hardware and software cost over one year(s)	\$508.65
Service provider cost/GB per month	\$0.15
Amount of bandwidth needed (GB) per month	1
Total service provider cost per month	\$0.15

Total networking cost over one year(s)	\$3,901.45
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Total outgoing bandwidth needed per month	1 GB
Total outgoing bandwidth cost per month	\$0.00

Total Azure networking cost over one year(s)	\$0.00
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Storage cost

Azure storage cost

Hardware

Local Disk/SAN-HDD	
Cost per GB	\$0.20
Storage (RAID 10 configuration) volume in GB (GRS enabled Storage volume doubled to provide geo-redundant capability)	1,024
Total storage procurement cost	\$204.80

Backup

Total backup and archive volume in GB	2,048
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Page Blob storage

Usable storage volume in GB	512
Storage cost per GB/month	\$0.06
Annual storage cost per usable volume	\$368.64
Total Page Blob GRS storage maintenance cost over one year(s)	\$368.64

Backup

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	HP LTO-7 BB873A
Backup volume per tape in TB	6
Number of Tape drives required	1
Cost per Tape Drive	\$160.00

Backup and Archive cost over one year(s)	\$160.00
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Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over one year(s)	\$20.48
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Total storage maintenance cost over one year(s)	\$20.48
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Total storage cost over one year(s)	\$385.28
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Total backup and archive volume in GB	2,048
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Storage cost per GB	\$0.0448
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SKU#
AAL-31896

Backup and Archive maintenance cost over one year(s)	\$1,101.00
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SQL Database Server storage

Usable storage volume in GB	3
Price per GB/Month	\$0.038
Active DB Storage Cost/Month	\$0.115

Annual storage cost per usable volume	\$4.14
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Total SQL Database Server Storage cost over one year(s)	\$4.14
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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	\$0.20

Annual storage cost per usable volume	\$0.00
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Total SQL Database Backup Storage Cost over one year(s)	\$0.00
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Total Azure storage cost over one year(s)	\$1,473.78
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IT labor cost

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Azure IT labor cost

Number of IT admin hour(s) needed per year	53.33
Hourly rate for IT administrator	\$23.00

Number of IT admin hour(s) needed per year	33.33
Hourly rate for IT administrator	\$23.00

Total IT labor cost over one year(s)	\$1,226.59
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Total Azure IT labor cost over one year(s)	\$766.59
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Total on-premises cost over one year(s)	\$39,325.00
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Total Azure cost over one year(s)	\$4,402.00
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A total **savings** of **\$34,923.00** with **Microsoft Azure**