


# Total Cost of Ownership (TCO) Calculator

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

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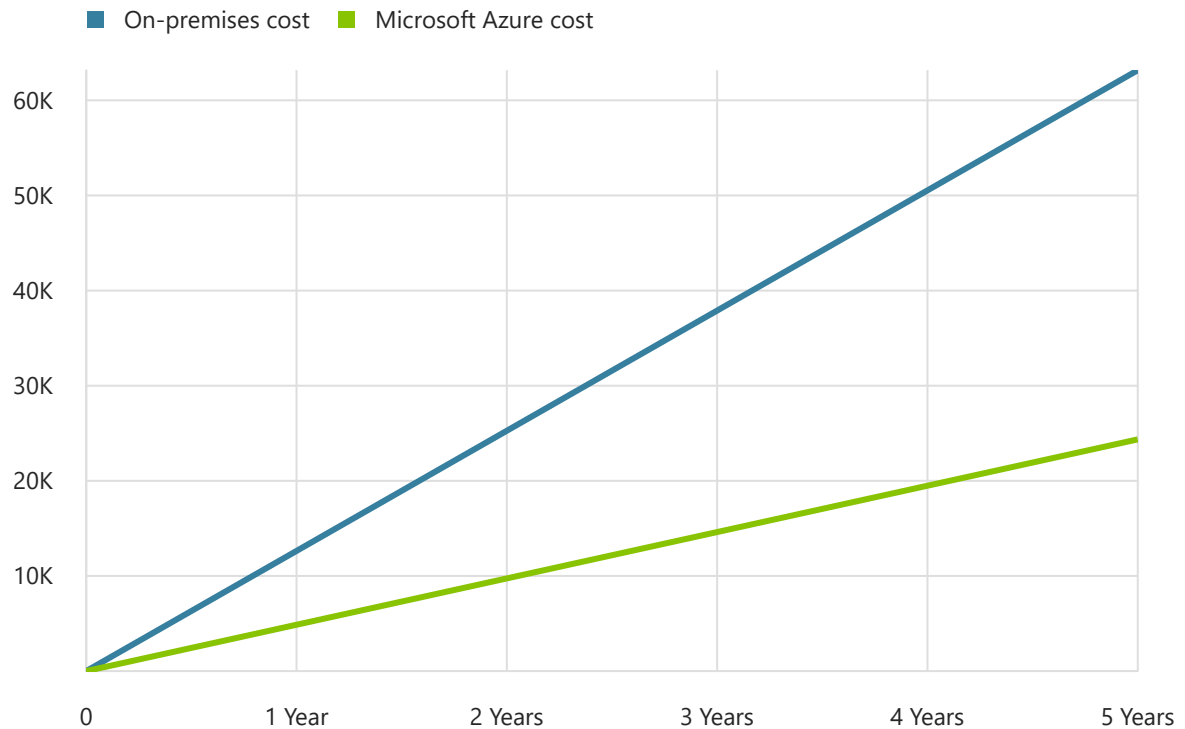
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Over 5 year(s) with Microsoft Azure, your estimated cost savings  
could be as much as **\$38,807**

## 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 5 year(s)

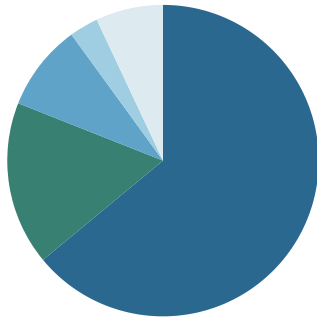
TCO of on-premises environments tends to be driven by compute and data center costs.

### Total Azure cost over 5 year(s)

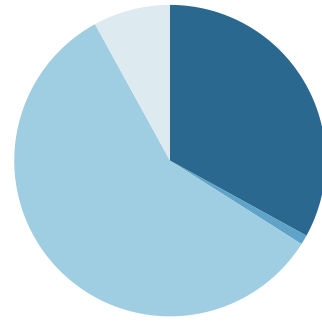
In Azure, certain cost categories decrease or go away completely.

**\$63,165**  
Total cost

**\$24,358**  
Total cost



<b>64%</b>	<b>17%</b>	<b>9%</b>	<b>3%</b>	<b>7%</b>
Compute	Data center	Networking	Storage	IT Labor



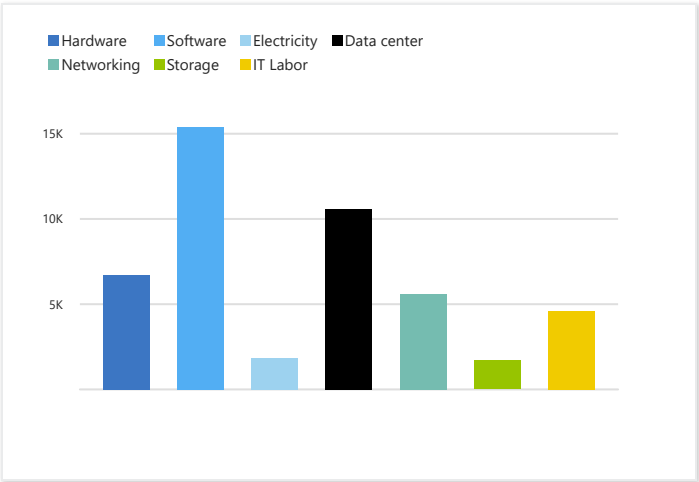
<b>33%</b>	<b>0%</b>	<b>1%</b>	<b>58%</b>	<b>8%</b>
Compute	Data center	Networking	Storage	IT Labor

## Total on-premises cost breakdown

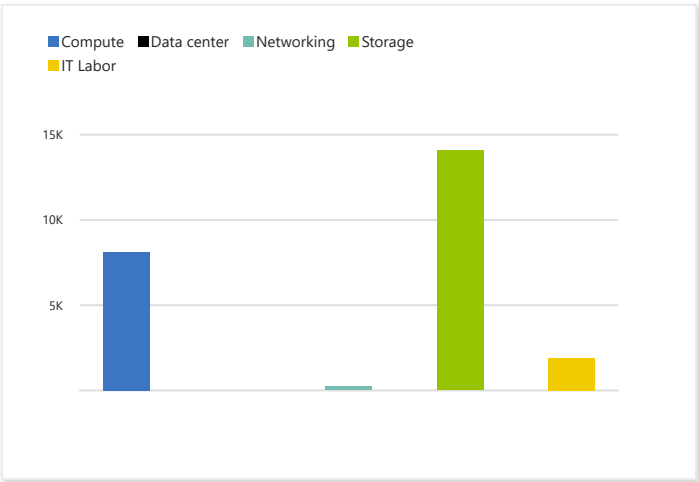
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

## 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.



\$63,165  
Cost over 5 year(s)



\$24,358  
Cost over 5 year(s)

On-premises cost breakdown  
summary

Azure cost breakdown summary

Category	Cost
Compute	\$40,672.80
Hardware	\$6,736.00
Software	\$15,387.50
Electricity	\$1,822.80
Database	\$16,726.50
Data Center	\$10,579.45
Networking	\$5,616.30
Storage	\$1,696.00
IT Labor	\$4,600.00

Total	\$63,165.00
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Category	Cost
Compute	\$8,132.04
Data Center	\$0.00
Networking	\$234.00
Storage	\$14,074.57
IT Labor	\$1,917.05

Total	\$24,358.00
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Estimated on-premises cost (5 year(s))

Estimated Azure cost (5 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
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)	\$3,368.00
Cost of maintaining physical server(s) - 20% of cost of physical server(s)	\$673.60
Total cost of maintaining server(s) over five year(s)	\$3,368.00
<b>Total hardware cost over five year(s)</b>	<b>\$6,736.00</b>

#### Software cost

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

#### Virtual Machines cost

Number of hours per month	730
B2S Standard (2 core, 4 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA-88007
Number of virtual machines	1
Total virtual machine cost per month	\$15.404

<b>Total Azure Virtual Machines cost</b>	<b>\$924.24</b>
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NOTE: For Azure compute costs, 3 year Reserved VM and two 1 year Reserved VM in use.

#### SQL Database cost

General Purpose Single Gen5 2 vCores (Azure Hybrid Benefit)	\$0.13972 /hr
	SKU#
Instance Count	1
Cost Per Month	\$120.13

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
Total Software Assurance cost	\$3,077.50
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<b>Total software cost over five year(s)</b>	<b>\$15,387.50</b>
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### Electricity cost

Price of electricity per kWh	\$0.1334
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
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
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<b>Total electricity cost over five year(s)</b>	<b>\$1,822.80</b>
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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	\$9,292.50
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<b>Total SQL Database cost over five year(s)</b>	<b>\$16,726.50</b>
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NOTE: A minimum of four core licenses are required for each physical processor on the

<b>Total SQL Database cost over five year(s)</b>	<b>\$7,207.80</b>
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server or VM

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Total cost over five year(s)	\$40,672.80
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Total Azure compute cost over five year(s)	\$8,132.04
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## Data center cost

## Azure data center cost

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### Compute cost

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Number of rack units per rack	42
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Rack units required per 2 core, 3.5 GB RAM server	1
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Number of 2 core, 3.5 GB RAM server	1
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Total number of rack units required	\$1.00
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Rack units required per 2 core, 3.5 GB RAM server	1
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Number of 2 core, 3.5 GB RAM server	1
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Total number of rack units required	\$1.00
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Total number of rack units required for all server(s)	\$2.00
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Data center construction cost per rack unit amortized over 20 years	\$302.27
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Data center compute cost	\$604.54
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Total Data center compute cost over five year(s)	\$3,022.70
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### Storage cost

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Total number of rack units required for all storage	5
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Number of rack units for Blob	5
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Total Azure data center cost over five year(s)	\$0.00
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Rack mounting/installation cost	\$1,511.35
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Total Data center storage cost over five year(s)	\$7,556.75
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Total Data center cost over five year(s)	\$10,579.45
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Total Azure data center cost over five year(s)	\$0.00
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## Networking cost

## Azure networking cost

Total hardware + software cost over five year(s)	\$22,123.50
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Network hardware and software cost assumed to be 15% of hardware and software cost over five year(s)	\$3,318.52
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Network maintenance cost assumed to be 15% of network hardware and software cost over five year(s)	\$497.78
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Service provider cost/GB per month	\$0.15
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Amount of bandwidth needed (GB) per month	200
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Total service provider cost per month	\$30.00
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Total networking cost over five year(s)	\$5,616.30
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Total outgoing bandwidth needed per month	200 GB
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Total outgoing bandwidth cost per month	\$3.90
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Total Azure networking cost over five year(s)	\$234.00
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## Storage cost

## Azure storage cost

### Hardware

#### Blob

Cost per GB	\$0.20
Storage (RAID 10 configuration) volume in GB (GRS enabled Storage volume doubled to provide geo-redundant capability)	5,120

<b>Total storage procurement cost</b>	<b>\$1,024.00</b>
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### Backup

Total backup and archive volume in GB	2,048
	HP LTO-7 BB873A
Backup volume per tape in TB	6
Number of Tape drives required	1
Cost per Tape Drive	\$160.00

<b>Backup and Archive cost over five year(s)</b>	<b>\$160.00</b>
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### Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over five year(s)	\$512.00
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<b>Total storage maintenance cost over five year(s)</b>	<b>\$512.00</b>
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### Block Blob storage Hot tier

Usable storage volume in GB	2,534
Average storage cost per GB/month	\$0.04
% of data being accessed frequently	99

SKU# N9H-01011

Annual storage cost per usable volume	\$1,359.00
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<b>Total Blob storage - Hot Tier - GRS maintenance cost over five year(s)</b>	<b>\$6,795.00</b>
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### Block Blob storage Cool tier

Usable storage volume in GB	26
Average storage cost per GB/month	\$0.79
% of data being accessed infrequently	1

SKU# N9H-00991

Annual storage cost per usable volume	\$246.24
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<b>Total Blob storage - Cool Tier - GRS maintenance cost over five year(s)</b>	<b>\$1,231.20</b>
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### Backup

Total backup and archive volume in GB	2,048
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Storage cost per GB	\$0.0448
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Backup and Archive maintenance cost over five year(s)	\$5,505.02
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SQL Database Server storage

Usable storage volume in GB	16
Price per GB/Month	\$0.008
Active DB Storage Cost/Month	\$0.126
Annual storage cost per usable volume	\$24.19

Total SQL Database Server Storage cost over five year(s)	\$120.95
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SQL Database Backup storage

Billable backup storage volume in GB	32
Price per GB/Month	\$0.007
Backup Storage Cost/Month	\$0.220
Annual storage cost per usable volume	\$84.48

Total SQL Database Backup Storage Cost over five year(s)	\$422.40
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Total storage cost over five year(s)	\$1,696.00
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Total Azure storage cost over five year(s)	\$14,074.57
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IT labor cost

Azure IT labor cost

Number of IT admin hour(s) needed per year	40
Hourly rate for IT administrator	\$23.00

Number of IT admin hour(s) needed per year	16.67
Hourly rate for IT administrator	\$23.00

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Total IT labor cost over five year(s)	\$4,600.00
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Total Azure IT labor cost over five year(s)	\$1,917.05
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Total on-premises cost over five year(s)	\$63,165.00
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Total Azure cost over five year(s)	\$24,358.00
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A total **savings** of **\$38,807.00** with **Microsoft Azure**