

# Total Cost of Ownership (TCO) Calculator

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

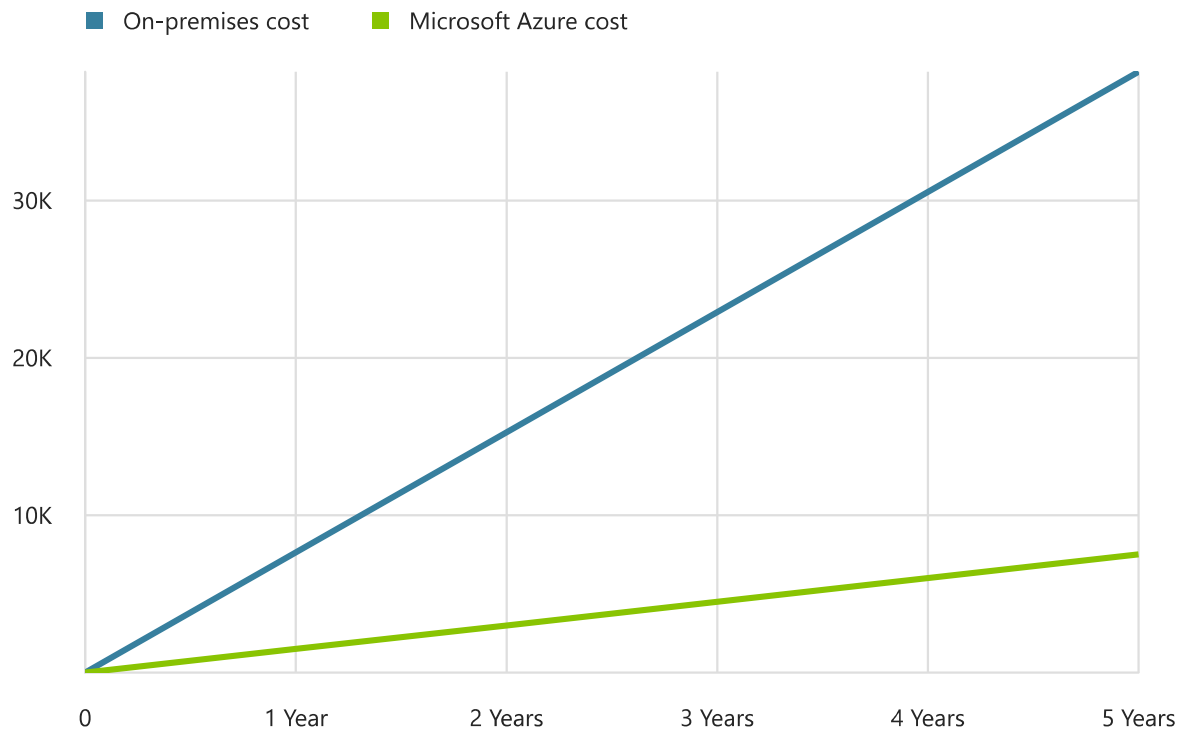
 My saved reports

Over 5 year(s) with Microsoft Azure, your estimated cost savings  
could be as much as **\$30,664**

## 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.

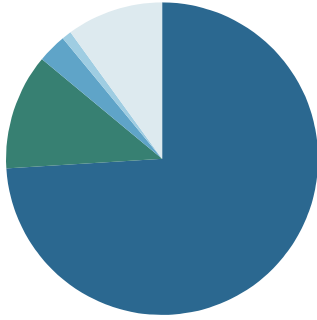
### Total Azure cost over 5 year(s)

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

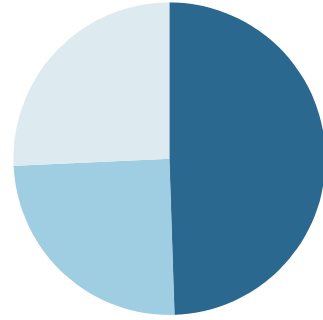
**\$38,170**  
Total cost

**\$7,506**  
Total cost

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<b>74%</b>	<b>12%</b>	<b>3%</b>	<b>1%</b>	<b>10%</b>
Compute	Data center	Networking	Storage	IT Labor



<b>50%</b>	<b>0%</b>	<b>0%</b>	<b>25%</b>	<b>26%</b>
Compute	Data center	Networking	Storage	IT Labor

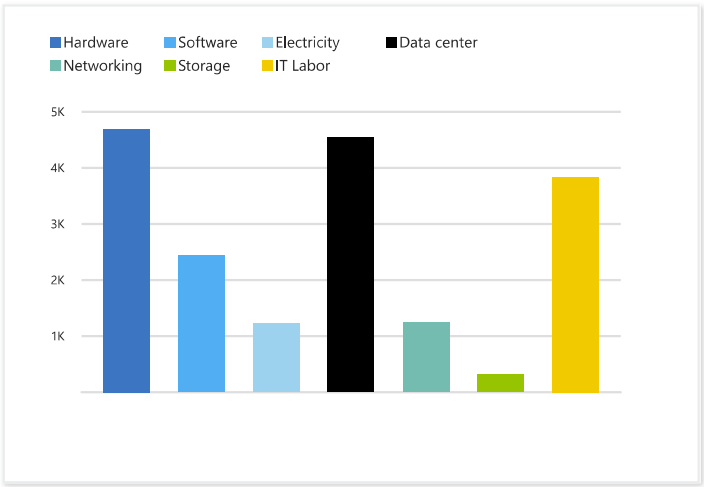
## Total on-premises cost breakdown

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

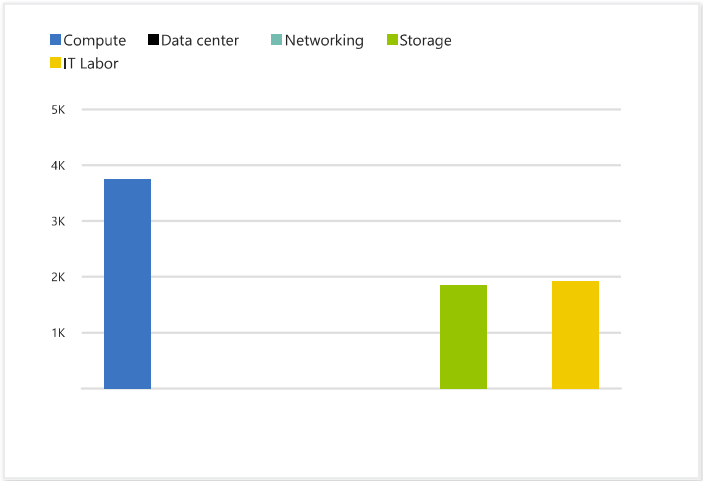
## Total Azure cost breakdown

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

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**\$38,170**  
Cost over 5 year(s)



**\$7,506**  
Cost over 5 year(s)

On-premises cost breakdown  
summary

Azure cost breakdown summary

Category	Cost
Compute	\$28,258.50
Hardware	\$4,692.00
Software	\$2,430.00
Electricity	\$1,227.60
Virtualization	\$3,182.40
Database	\$16,726.50
Data Center	\$4,534.05
Networking	\$1,237.54
Storage	\$307.20
IT Labor	\$3,832.95

Total	\$38,170.00
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Estimated on-premises cost (5 year(s))

Category	Cost
Compute	\$3,745.44
Data Center	\$0.00
Networking	\$0.60
Storage	\$1,843.20
IT Labor	\$1,917.05

Total	\$7,506.00
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Estimated Azure cost (5 year(s))

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## Compute cost

## Azure compute cost

### Hardware cost

Virtual machine density - Number of virtual cores that can be created per physical core	3
Cost per 1 proc 1 core, 0.75 GB RAM virtualization server for Windows	\$1,173.00
Number of servers needed for 1 virtual machine(s) - 1 core, 8 GB RAM	1
Cost per 1 proc 1 core, 0.75 GB RAM virtualization server for Windows	\$1,173.00
Number of servers needed for 1 virtual machine(s) - 4 core, 8 GB RAM	1
Total cost for virtualization server(s)	\$2,346.00
Cost of maintaining virtualization server(s) - 20% of cost of virtualization server(s)	\$469.20
Total cost of maintaining server(s) over five year(s)	\$2,346.00
<b>Total hardware cost over five year(s)</b>	<b>\$4,692.00</b>

### Software cost

Cost of Windows standard license per 1 proc, 1 core, 0.75 GB RAM virtualization server	\$972.00
Number of servers needed for 1 virtual machine(s) - 1 core, 8 GB RAM	1
Cost of Windows standard license per 1 proc, 1 core, 0.75 GB RAM virtualization server	\$972.00

### Virtual Machines cost

Number of hours per month	730
B1S Standard (1 core, 1 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA- 68673
Number of virtual machines	1
Total virtual machine cost per month	\$3.534

<b>Total Azure Virtual Machines cost</b>	<b>\$212.04</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

Single Standard S2 (Azure Hybrid Benefit)	\$0.10083 /hr
	SKU# 4WP- 00006
Instance Count	1
Cost Per Month	\$58.89

<b>Total SQL Database cost over five year(s)</b>	<b>\$3,533.40</b>
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Number of servers needed for 1 virtual machine(s) - 4 core, 8 GB RAM	1
Total software license cost	\$1,944.00
Total Software Assurance cost	\$486.00

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<b>Total software cost over five year(s)</b>	<b>\$2,430.00</b>
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## Electricity cost

Price of electricity per kWh	\$0.1334
Power rating of 1 core, 0.75 GB RAM server	105 Watts
Total electricity cost for 1 server(s) - 1 core, 0.75 GB RAM server per month	\$10.23
Power rating of 1 core, 0.75 GB RAM server	105 Watts
Total electricity cost for 1 server(s) - 1 core, 0.75 GB RAM server per month	\$10.23

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<b>Total electricity cost over five year(s)</b>	<b>\$1,227.60</b>
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## Virtualization cost

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

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<b>Total virtualization cost over five year(s)</b>	<b>\$3,182.40</b>
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## SQL Database cost

Total CPU cores	4
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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 server or VM

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<b>Total cost over five year(s)</b>	<b>\$28,258.50</b>
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<b>Total Azure compute cost over five year(s)</b>	<b>\$3,745.44</b>
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## Data center cost

## Azure data center cost

### Compute cost

Number of rack units per rack	42
Rack units required per 1 core, 0.75 GB RAM server	1
Number of 1 core, 0.75 GB RAM server	1
Total number of rack units required	1
Rack units required per 1 core, 0.75 GB RAM server	1
Number of 1 core, 0.75 GB RAM server	1
Total number of rack units required	1
Total number of rack units required for all server(s)	2

Total Azure data center cost over five year(s)	\$0.00
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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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<b>Total Data center compute cost over five year(s)</b>	<b>\$3,022.70</b>
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### 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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<b>Total Data center storage cost over five year(s)</b>	<b>\$1,511.35</b>
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<b>Total Data center cost over five year(s)</b>	<b>\$4,534.05</b>
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<b>Total Azure data center cost over five year(s)</b>	<b>\$0.00</b>
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### Networking cost

### Azure networking cost

Total hardware + software cost over five year(s)	\$7,122.00
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Network hardware and software cost assumed to be 15% of hardware and software cost over five year(s)	\$1,068.30
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Network maintenance cost assumed to be 15% of network hardware and software cost over five year(s)	\$160.24
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Service provider cost/GB per month	\$0.15
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Amount of bandwidth needed (GB) per month	1
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Total outgoing bandwidth needed per month	1 GB
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Total outgoing bandwidth cost per month	\$0.01
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Total service provider cost per month	\$0.15
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Total networking cost over five year(s)	\$1,237.54
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Total Azure networking cost over five year(s)	\$0.60
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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
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### Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over five year(s)	\$102.40
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Total storage maintenance cost over five year(s)	\$102.40
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Total storage cost over five year(s)	\$307.20
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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 five year(s)	\$1,843.20
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Total Azure storage cost over five year(s)	\$1,843.20
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## IT labor cost

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

Total IT labor cost over five year(s)	\$3,832.95
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## Azure IT labor cost

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

Total Azure IT labor cost over five year(s)	\$1,917.05
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Total on-premises cost over five year(s)	\$38,170.00
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Total Azure cost over five year(s)	\$7,506.00
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A total **savings** of **\$30,664.00** with **Microsoft Azure**

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