Total Cost of Ownership (TCO) Calculator

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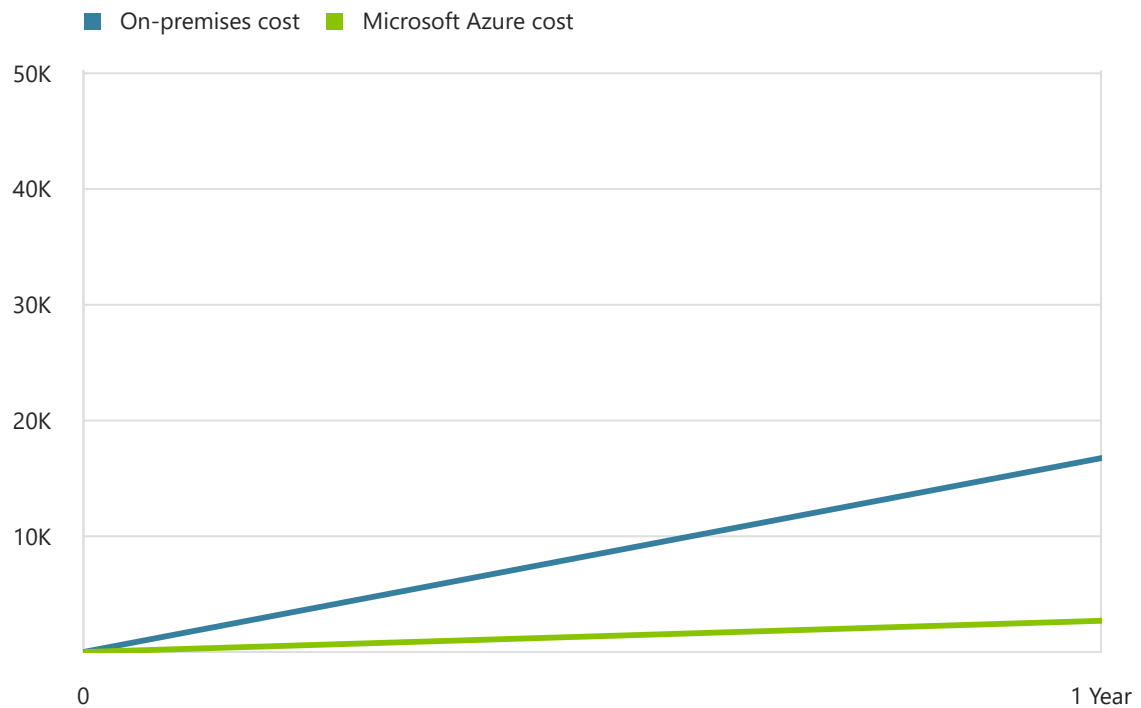
My saved reports

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Over 1 year(s) with Microsoft Azure, your estimated cost savings could be as much as $46,195

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.

Legend: On-premises cost ■ · Microsoft Azure cost ■
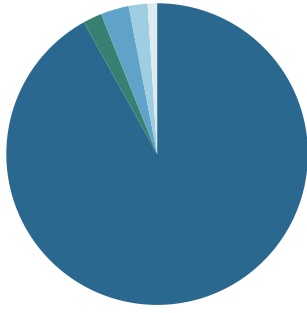
50K
40K
30K
20K
10K

0   1 Year

Total on-premises over 1 year(s)

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

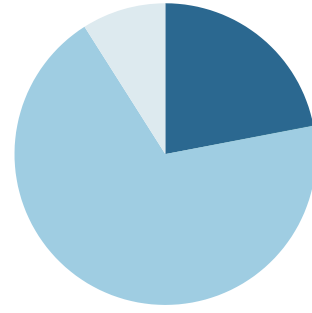## Total Azure cost over 1 year(s)

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

$50,245
Total cost

$4,050
Total cost

91%
Compute

2%
Data center

3%
Networking

2%
Storage

1%
IT Labor

22%
Compute

0%
Data center

0%
Networking

69%
Storage

9%
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.

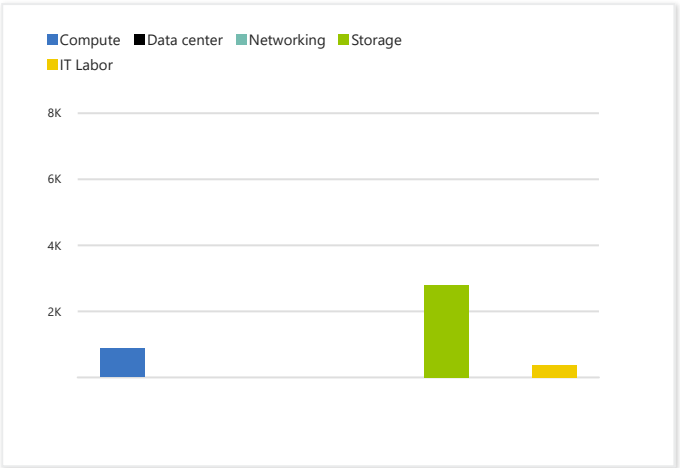## Total Azure cost breakdown

In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.
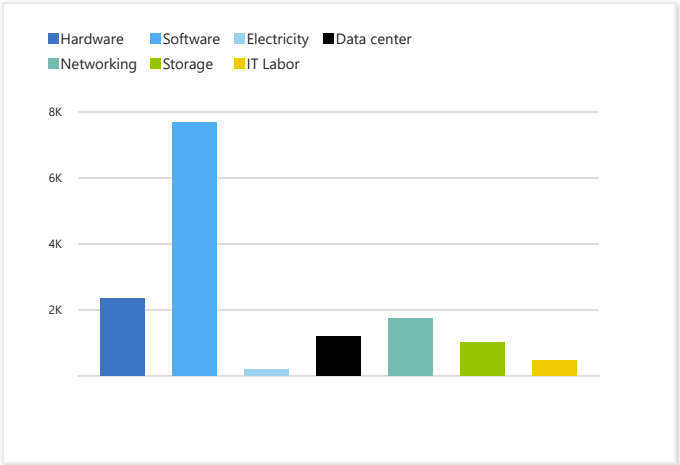
$50,245
Cost over 1 year(s)

$4,050
Cost over 1 year(s)

On-premises cost breakdown summary

Azure cost breakdown summary

Category	Cost
Compute	$45,832.99

Category	Cost

Hardware	$2,341.20	Compute		$876.60
Software	$7,693.75	Data Center		$0.00
Electricity	$194.04			
Database	$35,604.00	Networking		$0.00
Data Center	$1,209.08	Storage		$2,790.09
Networking	$1,732.83	IT Labor		$383.41
Storage	$1,009.92			
IT Labor	$460.00			

Total	**$50,245.00**

Total	**$4,050.00**

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

Estimated Azure cost (1 year(s))

Compute cost

Hardware cost

Cost per 1 proc 4 core, 7 GB RAM physical server for Windows	$1,951.00
Number of servers required	1
Total cost for physical server(s)	$1,951.00
Cost of maintaining physical server(s) - 20% of cost of physical server(s)	$390.20
Total cost of maintaining server(s) over one year(s)	$390.20
Total hardware cost over one year(s)	**$2,341.20**

SQL Server VM Cost

Number of hours per month	730
F4sv2 Standard (4 core, 8 GB RAM) Windows, SQL Server Enterprise (Azure Hybrid Benefit)	SKU# N7H-06283
Number of virtual machines	1
Total virtual machine cost per month	$73.05
Total SQL Server VM cost over one year(s)	**$876.60**

Software cost

Cost of Windows datacenter license per 1 proc, 4 core, 7 GB RAM physical machine	$6,155.00
Number of licenses needed	1
Total software license cost	$6,155.00
Total Software Assurance cost	$1,538.75
Total software cost over one year(s)	**$7,693.75**

Electricity cost

Price of electricity per kWh	$0.1334
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	$16.17

Total electricity cost over one year(s)	**$194.04**

SQL Database cost

Total CPU cores	4
SQL Server Enterprise License cost per 2 cores	$14,256.00
Enterprise cores	4
Total license cost	$28,512.00
Enterprise Software Assurance cost per 2 cores	$3,546.00
Enterprise cores	4
Total Software Assurance cost	$7,092.00
Total SQL Server VM cost over one year(s)	**$35,604.00**

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

Total cost over one year(s)	**$45,832.99**

Total Azure compute cost over one year(s)	**$876.60**

Data center cost

Azure data center cost

Compute cost

Number of rack units per rack	42
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	$1.00
Total number of rack units required for all server(s)	$1.00
Data center construction cost per rack unit amortized over 20 years	$302.27

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

Data center compute cost	$302.27
Total Data center compute cost over one year(s)	**$302.27**

Storage cost

Total number of rack units required for all storage	3
Number of rack units for DAS or SAN	3
Rack mounting/installation cost	$906.81
Total Data center storage cost over one year(s)	**$906.81**

Total Data center cost over one year(s)	**$1,209.08**

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

Networking cost

Azure networking cost

Total hardware + software cost over one year(s)	$10,034.95
Network hardware and software cost assumed to be 15% of hardware and software cost over one year(s)	$1,505.24
Network maintenance cost assumed to be 15% of network hardware and software cost over one year(s)	$225.79
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 outgoing bandwidth needed per month	1 GB
Total outgoing bandwidth cost per month	$0.00

year(s) $1,732.83

<div style="float: right">

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

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Storage cost

Azure storage cost

Hardware

Page Blob storage

Local Disk/SAN-SSD	
Cost per GB	$0.40
Storage (RAID 10 configuration) volume in GB	32
Local Disk/SAN-HDD	
Cost per GB	$0.20
Storage (RAID 10 configuration) volume in GB	3,072

Usable storage volume in GB	1,536
Storage cost per GB/month	$0.045
Annual storage cost per usable volume	$829.44

Total storage procurement cost	$627.20

Total Page Blob LRS storage maintenance cost over one year(s)	$829.44

Backup

Backup

Total backup and archive volume in GB	1,056
	HP LTO-7 BB873A
Backup volume per tape in TB	6
Number of Tape drives required	2
Cost per Tape Drive	$160.00

Total backup and archive volume in GB	1,024
Storage cost per GB	$0.0224
	SKU# AAL-31949

Backup and Archive cost over one year(s)	$320.00

Backup and Archive maintenance cost over one year(s)	$275.25

Storage Maintenance

SQL Server VM storage cost

Storage maintenance cost (10% of storage procurement cost) over one year(s)	$62.72

Usable storage volume in GB	32
Azure disk match	P4
Total IOPS	120
Number of disks	1
Disk price per month	$5.28

Total storage maintenance cost over one year(s)	$62.72

Usable storage volume in GB	1,024
Azure disk match	P30
Total IOPS	5,000
Number of disks	1
Disk price per month	$135.17

	Total Sql Server VM Storage cost over one year(s)	$1,685.40

Total storage cost over one year(s)	$1,009.92

Total Azure storage cost over one year(s)	$2,790.09

IT labor cost

Azure IT labor cost

Number of IT admin hour(s) needed per year	20
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

Total IT labor cost over one year(s)	$460.00

Total Azure IT labor cost over one year(s)	$383.41

Total on-premises cost over one year(s)	$50,245.00

Total Azure cost over one year(s)	$4,050.00

A total **savings** of **$46,195.00** with **Microsoft Azure**