Total Cost of Ownership (TCO) Calculator

Estimate the cost savings you can realize by migrating your workloads to Azure
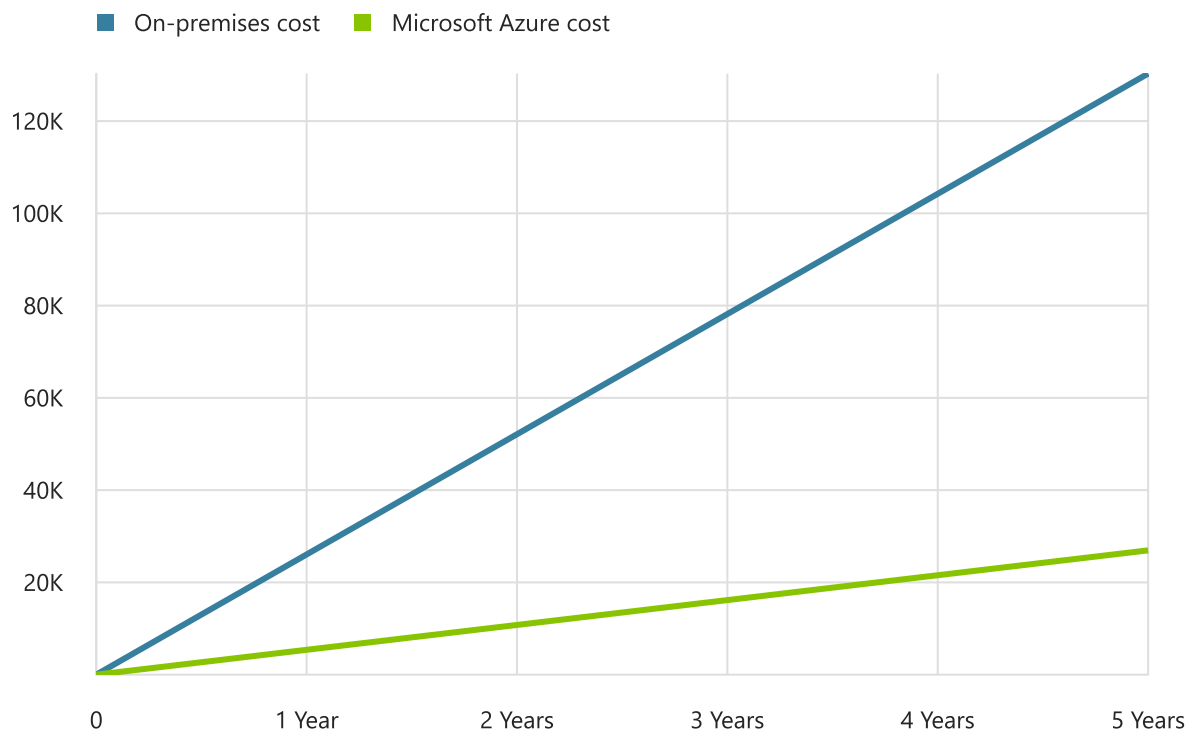
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Over 5 year(s) with Microsoft Azure, your estimated cost savings could be as much as $103,348

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.
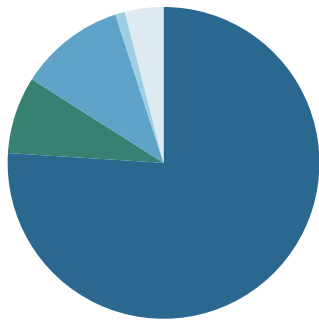
Total Azure cost over 5 year(s)

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

$130,292
Total cost

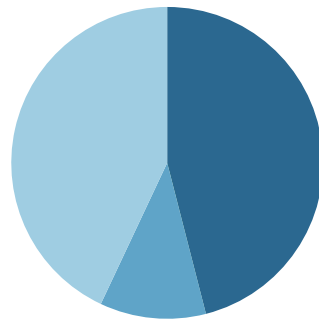**$26,944**
Total cost

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76%
Compute

8%
Data
center

11%
Networking

1%
Storage

4%
IT Labor

46%
Compute

0%
Data
center

11%
Networking
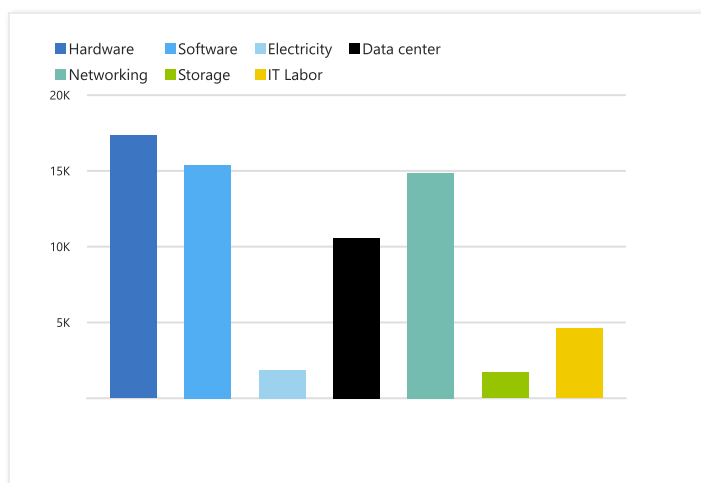
43%
Storage

0%
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.
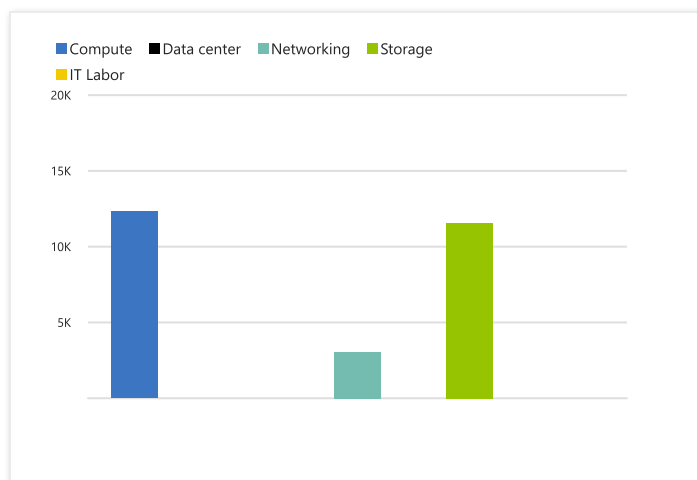
Total Azure cost breakdown

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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$130,292
Cost over 5 year(s)

$26,944
Cost over 5 year(s)

On-premises cost breakdown summary

Azure cost breakdown summary

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Category	Cost
Compute	$98,557.10
Hardware	$17,328.00
Software	$15,387.50
Electricity	$1,869.60
Database	$63,972.00
Data Center	$10,579.45
Networking	$14,859.42
Storage	$1,696.00
IT Labor	$4,600.00
Total	**$130,292.00**

Category	Cost
Compute	$12,324.00
Data Center	$0.00
Networking	$3,057.00
Storage	$11,562.94
IT Labor	$0.00
Total	**$26,944.00**

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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 2 proc 1 core, 4 GB RAM physical server for Windows	$4,332.00
Number of servers required	1
Cost per 2 proc 1 core, 4 GB RAM physical server for Windows	$4,332.00
Number of servers required	1
Total cost for physical server(s)	$8,664.00
Cost of maintaining physical server(s) - 20% of cost of physical server(s)	$1,732.80
Total cost of maintaining server(s) over five year(s)	$8,664.00

Total hardware cost over five year(s)	**$17,328.00**

Software cost

App Service cost

B2 Basic App Service (2 core, 3.5 GB RAM)	$0.150 /hr
	SKU# T2X-00018
Full time App Service instances	1
Average utilization	80 %
Auto scaling	No
Total App Service cost per month	$87.60

Total App Service cost over five year(s)	**$5,256.00**

SQL Database cost

General Purpose Single Gen5 2 vCores (Azure Hybrid Benefit)	$0.13698 /hr
	SKU#
Instance Count	1
Cost Per Month	$117.80

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Cost of Windows datacenter license per 2 proc, 1 core, 4 GB RAM physical machine	$6,155.00
Number of licenses needed	1
Cost of Windows datacenter license per 2 proc, 1 core, 4 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
Total software cost over five year(s)	**$15,387.50**

Electricity cost

Price of electricity per kWh	$0.1334
Power rating of 1 core, 4 GB RAM server	160 Watts
Total electricity cost consumed by 1 server(s) - 1 core, 4 GB RAM server per month	$15.58
Power rating of 1 core, 4 GB RAM server	160 Watts
Total electricity cost consumed by 1 server(s) - 1 core, 4 GB RAM server per month	$15.58
Total electricity cost over five year(s)	**$1,869.60**

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	$35,460.00

Total SQL Database cost over five year(s)	**$7,068.00**

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Total SQL Database cost over five year(s)	**$63,972.00**

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

Total cost over five year(s)	**$98,557.10**

Total Azure compute cost over five year(s)	**$12,324.00**

Data center cost

Azure data center cost

Compute cost

Number of rack units per rack	42
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 1 core, 4 GB RAM server	1
Number of 1 core, 4 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

Total Data center compute cost over five year(s)	**$3,022.70**

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

Storage cost

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Total number of rack units required for all storage	5
Number of rack units for Blob	5
Rack mounting/installation cost	$1,511.35
Total Data center storage cost over five year(s)	**$7,556.75**

Total Data center cost over five year(s)	**$10,579.45**

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

Networking cost

Azure networking cost

Total hardware + software cost over five year(s)	$32,715.50
Network hardware and software cost assumed to be 15% of hardware and software cost over five year(s)	$4,907.32
Network maintenance cost assumed to be 15% of network hardware and software cost over five year(s)	$736.10
Service provider cost/GB per month	$0.15
Amount of bandwidth needed (GB) per month	1,024
Total service provider cost per month	$153.60

Total outgoing bandwidth needed per month	1 TB
Total outgoing bandwidth cost per month	$50.95

Total networking cost over five year(s)	**$14,859.42**

Total Azure networking cost over five year(s)	**$3,057.00**

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Storage cost

Hardware

Blob
Cost per GB	$0.20
Storage (RAID 10 configuration) volume in GB	5,120

Total storage procurement cost	**$1,024.00**

Backup

Total backup and archive volume in GB	6,144
	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 five year(s)	**$160.00**

Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over five year(s)	$512.00

Total storage maintenance cost over five year(s)	**$512.00**

Azure storage cost

Block Blob storage Hot tier

Usable storage volume in GB	2,560
Average storage cost per GB/ month	$0.02
% of data being accessed frequently	100
	SKU# N9H-01059
Annual storage cost per usable volume	$639.00

Total Blob storage - Hot Tier - LRS maintenance cost over five year(s)	**$3,195.00**

Backup

Total backup and archive volume in GB	6,144
Storage cost per GB	$0.0224
	SKU# AAL-31949

Backup and Archive maintenance cost over five year(s)	**$8,257.54**

SQL Database Server storage

Usable storage volume in GB	16
Price per GB/Month	$0.007
Active DB Storage Cost/Month	$0.115
Annual storage cost per usable volume	$22.08

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Total SQL Database Server Storage cost over five year(s)	**$110.40**

SQL Database Backup storage

Billable backup storage volume in GB	0
Price per GB/Month	$0.00
Backup Storage Cost/Month	$0.200
Annual storage cost per usable volume	$0.00

Total SQL Database Backup Storage Cost over five year(s)	**$0.00**

Total storage cost over five year(s)	**$1,696.00**

Total Azure storage cost over five year(s)	**$11,562.94**

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	0
Hourly rate for IT administrator	$23.00

Total IT labor cost over five year(s)	**$4,600.00**

Total Azure IT labor cost over five year(s)	**$0.00**

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Total on-premises cost over five year(s) $130,292.00 **Total Azure cost over five year(s)** $26,944.00

A total **savings** of **$103,348.00** with **Microsoft Azure**

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