

Total Cost of Ownership (TCO) Calculator

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



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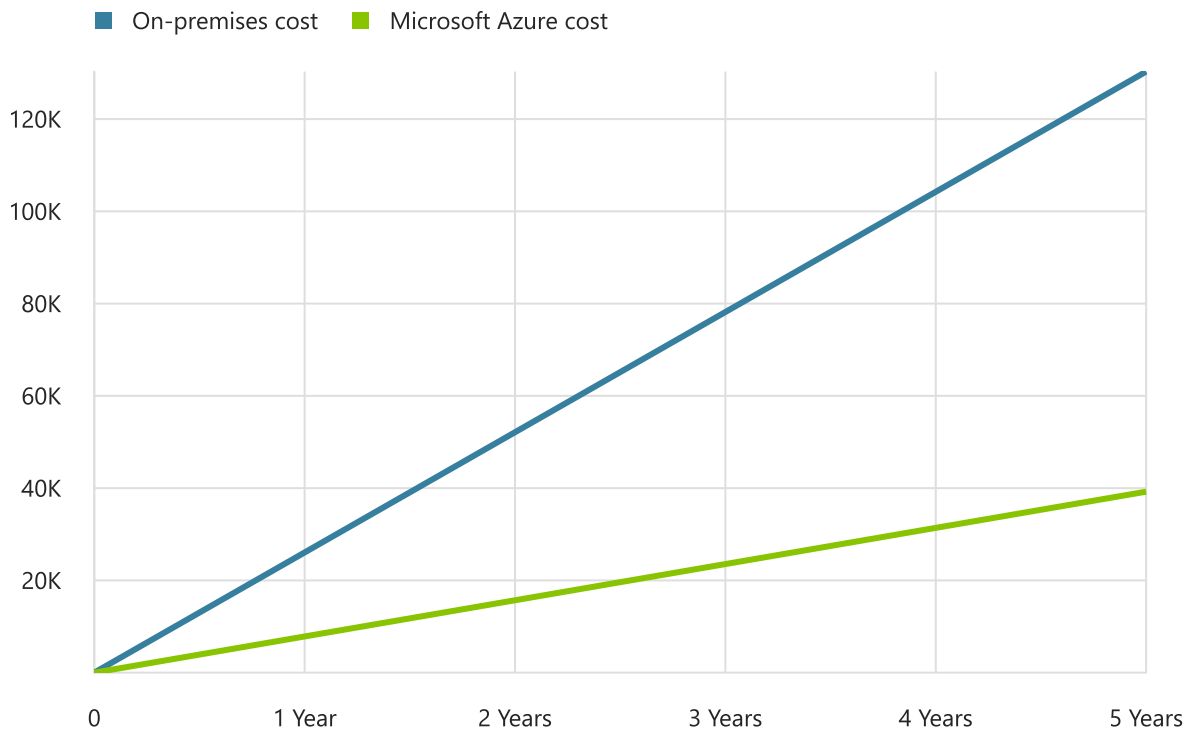
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Over 5 year(s) with Microsoft Azure, your estimated cost savings
could be as much as **\$91,060**

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.

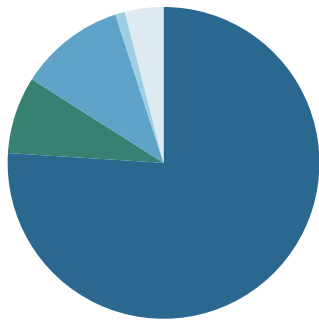
Total Azure cost over 5 year(s)

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

\$130,292
Total cost

\$39,232
Total cost⁺

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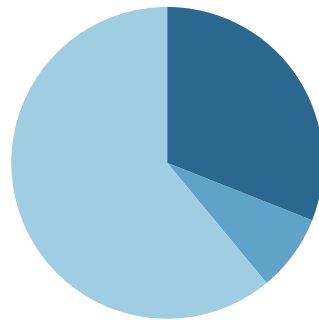
76%
Compute

8%
Data center

11%
Networking

1%
Storage

4%
IT Labor



31%
Compute

0%
Data center

8%
Networking

61%
Storage

0%
IT Labor

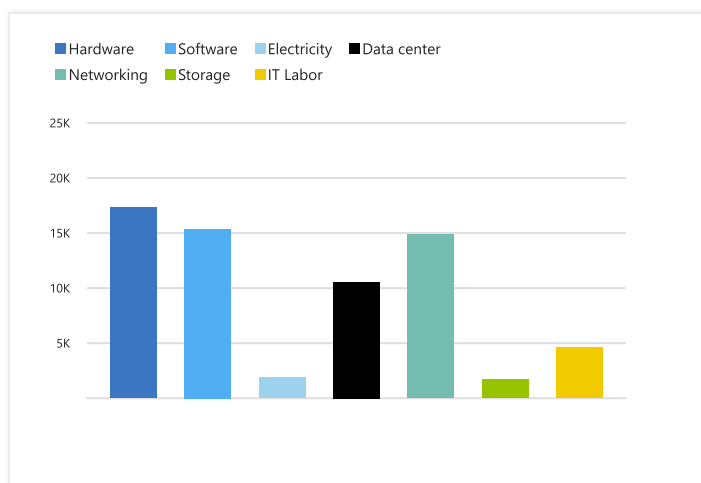
Total on-premises cost breakdown

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

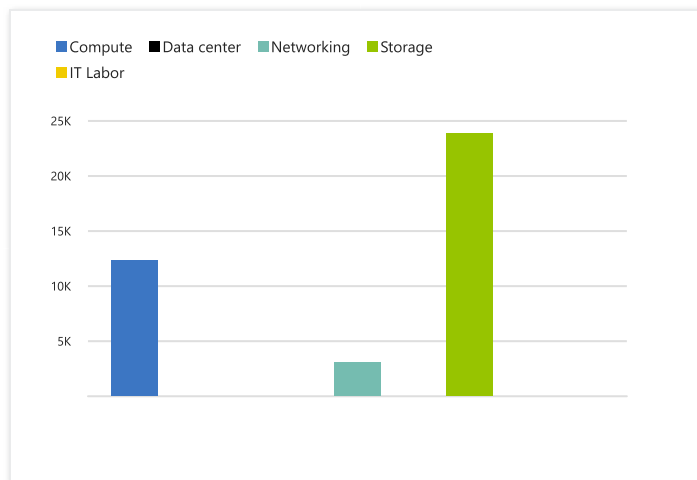
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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\$130,292

Cost over 5 year(s)



\$39,232

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	\$23,850.94
IT Labor	\$0.00
Total	\$39,232.00

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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#	1
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
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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
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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
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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 five year(s)	\$98,557.10
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Total Azure compute cost over five year(s)	\$12,324.00
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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
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Number of 1 core, 4 GB RAM server	1
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Total number of rack units required	\$1.00
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Rack units required per 1 core, 4 GB RAM server	1
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Number of 1 core, 4 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

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

Storage maintenance cost (10% of storage procurement cost) over five year(s)	\$512.00
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Total storage maintenance cost over five year(s)	\$512.00
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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
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Total Blob storage - Hot Tier - LRS maintenance cost over five year(s)	\$3,195.00
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Backup

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

Backup and Archive maintenance cost over five year(s)	\$8,257.54
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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
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SQL Database Backup storage

Billable backup storage volume in GB	1,024
Price per GB/Month	\$0.00
Backup Storage Cost/Month	\$0.200
Annual storage cost per usable volume	\$2,457.60

Total SQL Database Backup Storage Cost over five year(s)	\$12,288.00
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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)	\$23,850.94
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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	0
Hourly rate for IT administrator	\$23.00

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

\$39,232.00

A total **savings** of **\$91,060.00** with **Microsoft Azure**

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