Total Cost of Ownership (TCO) Calculator

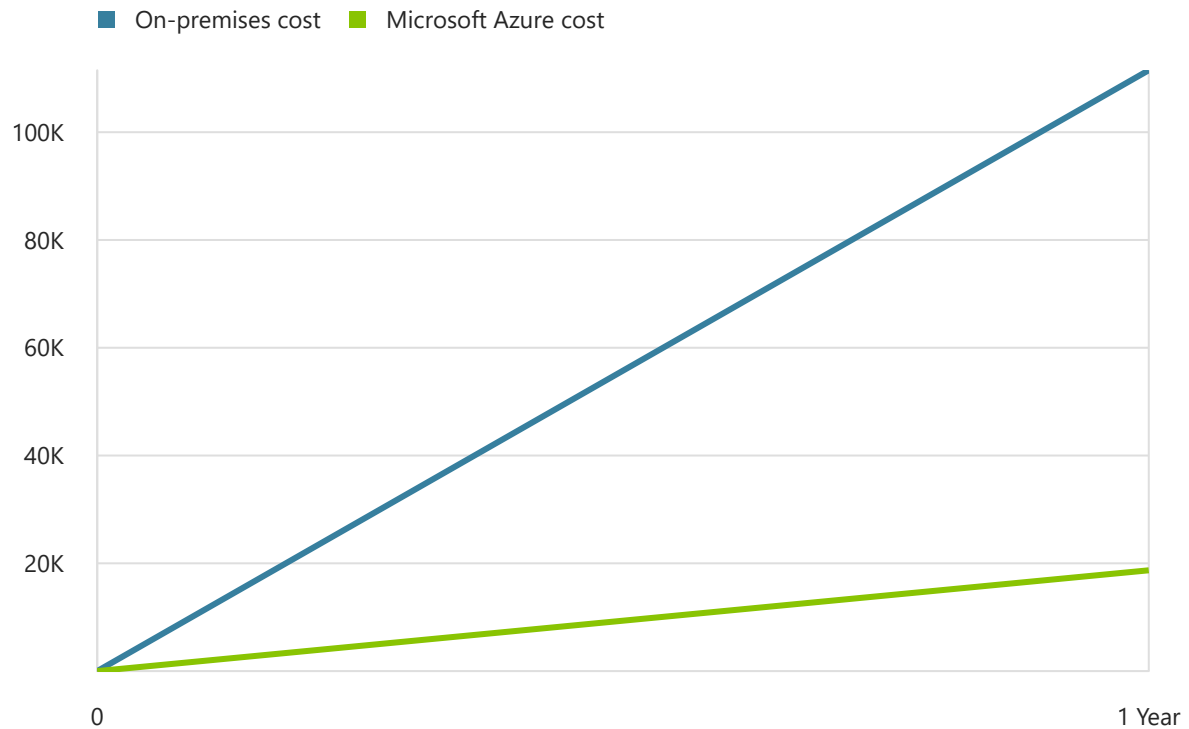**Estimate the cost savings you can realize by migrating your workloads to Azure**

Over 1 year(s) with Microsoft Azure, your estimated cost savings could be as much as $92,799

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.

Chat with Sales

Legend: On-premises cost, Microsoft Azure cost
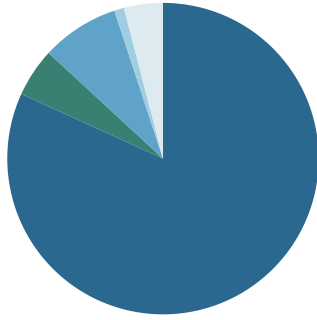
Total on-premises over 1 year(s)

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.
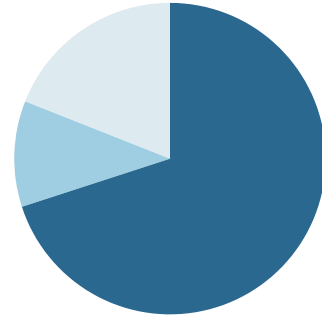
$111,502
Total cost

$18,703
Total cost

81%
Compute

5%
Data
center

8%
Networking

1%
Storage

4%
IT Labor

70%
Compute

0%
Data
center

0%
Networking

11%
Storage

19%
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.
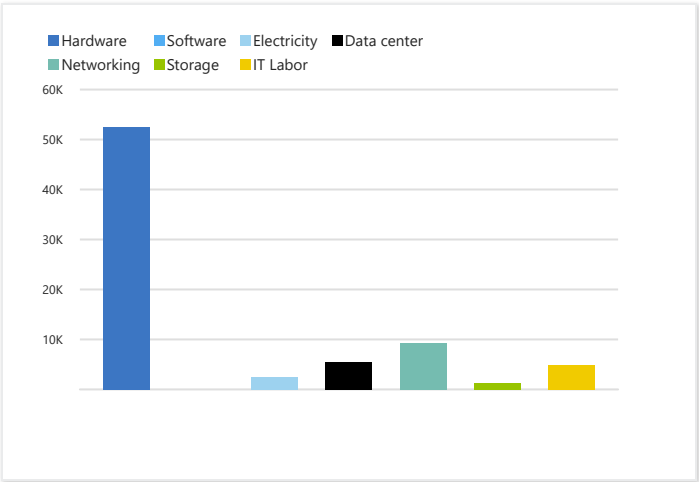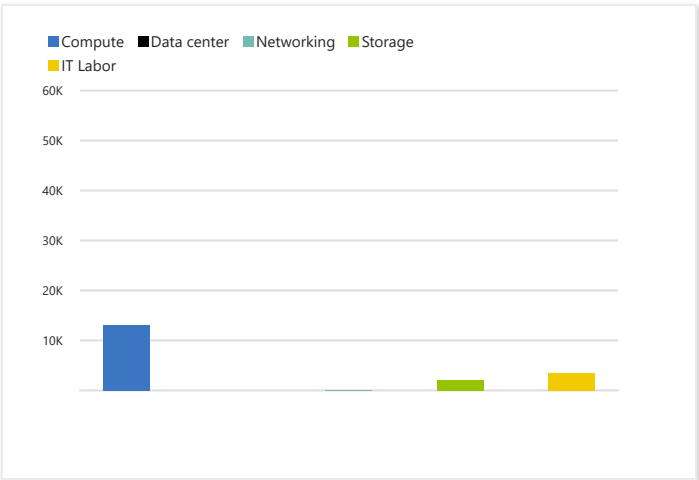
Total Azure cost breakdown

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

$111,502
Cost over 1 year(s)

$18,703
Cost over 1 year(s)

**On-premises cost breakdown
summary**

Azure cost breakdown summary

Category	Cost
Compute	$90,551.64
Hardware	$52,482.00
Software	$0.00
Electricity	$2,465.64
Database	$35,604.00
Data Center	$5,440.86
Networking	$9,323.14
Storage	$1,286.40
IT Labor	$4,900.00
Total	**$111,502.00**

Category	Cost
Compute	$13,046.04
Data Center	$0.00
Networking	$34.80
Storage	$2,121.90
IT Labor	$3,500.00
Total	**$18,703.00**

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

Estimated Azure cost (1 year(s))

Compute cost

Azure compute cost

Hardware cost

Cost per 2 proc 4 core, 14 GB RAM physical server for Linux	$6,964.00
Number of servers required	2
Cost per 2 proc 4 core, 14 GB RAM physical server for Linux	$6,964.00
Number of servers required	1
Cost per 2 proc 4 core, 14 GB RAM physical server for Linux	$6,964.00
Number of servers required	1
Cost per 2 proc 4 core, 14 GB RAM physical server for Linux	$6,964.00
Number of servers required	1
Cost per 2 proc 4 core, 14 GB RAM physical server for Linux	$6,964.00
Number of servers required	1
Cost per 1 proc 4 core, 7 GB RAM physical server for Linux	$1,951.00
Number of servers required	1
Total cost for physical server(s)	$43,735.00
Cost of maintaining physical server(s) - 20% of cost of physical server(s)	$8,747.00
Total cost of maintaining server(s) over one year(s)	$8,747.00

Virtual Machines cost

Number of hours per month	730
B8MS Standard (8 core, 32 GB RAM) Linux	SKU# AAA-87999
Number of virtual machines	2
Total virtual machine cost per month	$313.28
B8MS Standard (8 core, 32 GB RAM) Linux	SKU# AAA-87999
Number of virtual machines	1
Total virtual machine cost per month	$156.64
B8MS Standard (8 core, 32 GB RAM) Linux	SKU# AAA-87999
Number of virtual machines	1
Total virtual machine cost per month	$156.64
B8MS Standard (8 core, 32 GB RAM) Linux	SKU# AAA-87999
Number of virtual machines	1
Total virtual machine cost per month	$156.64
B8MS Standard (8 core, 32 GB RAM) Linux	SKU# AAA-87999
Number of virtual machines	1

Total hardware cost over one year(s)	**$52,482.00**

Software cost

Total software license cost	$0.00

Total software cost over one year(s)	**$0.00**

Electricity cost

Price of electricity per kWh	$0.1334
Power rating of 4 core, 14 GB RAM server	324 Watts
Total electricity cost consumed by 2 server(s) - 4 core, 14 GB RAM server per month	$63.10
Power rating of 4 core, 14 GB RAM server	324 Watts
Total electricity cost consumed by 1 server(s) - 4 core, 14 GB RAM server per month	$31.55
Power rating of 4 core, 14 GB RAM server	324 Watts
Total electricity cost consumed by 1 server(s) - 4 core, 14 GB RAM server per month	$31.55
Power rating of 4 core, 14 GB RAM server	324 Watts
Total electricity cost consumed by 1 server(s) - 4 core, 14 GB RAM server per month	$31.55
Power rating of 4 core, 14 GB RAM server	324 Watts
Total electricity cost consumed by 1 server(s) - 4 core, 14 GB RAM server per month	$31.55
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 virtual machine cost per month	$156.64

Total Azure Virtual Machines cost	**$11,278.08**

NOTE: For Azure compute costs, one 1 year Reserved VM in use.

SQL Database cost

General Purpose Single Gen5 2 vCores (Azure Hybrid Benefit)	$0.20182 /hr
	SKU#
Instance Count	1
Cost Per Month	$147.33

Total SQL Database cost over one year(s)	**$1,767.96**

Total electricity cost over one year(s)	**$2,465.64**

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 Database 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)	**$90,551.64**

Total Azure compute cost over one year(s)	**$13,046.04**

Data center cost

Azure data center cost

Compute cost

Number of rack units per rack	42
Rack units required per 4 core, 14 GB RAM server	2
Number of 4 core, 14 GB RAM server	2
Total number of rack units required	$4.00

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

Rack units required per 4 core, 14 GB RAM server	2
Number of 4 core, 14 GB RAM server	1
Total number of rack units required	$2.00
Rack units required per 4 core, 14 GB RAM server	2
Number of 4 core, 14 GB RAM server	1
Total number of rack units required	$2.00
Rack units required per 4 core, 14 GB RAM server	2
Number of 4 core, 14 GB RAM server	1
Total number of rack units required	$2.00
Rack units required per 4 core, 14 GB RAM server	2
Number of 4 core, 14 GB RAM server	1
Total number of rack units required	$2.00
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)	$13.00
Data center construction cost per rack unit amortized over 20 years	$302.27
Data center compute cost	$3,929.51
Total Data center compute cost over one year(s)	**$3,929.51**

Storage cost

Total number of rack units required for all storage	5
Number of rack units for DAS or SAN	5
Rack mounting/installation cost	$1,511.35

Total Data center storage cost over one year(s)	$1,511.35		

Total Data center cost over one year(s)	$5,440.86		
		Total Azure data center cost over one year(s)	$0.00

Networking cost

Azure networking cost

Total hardware + software cost over one year(s)	$52,482.00		
Network hardware and software cost assumed to be 15% of hardware and software cost over one year(s)	$7,872.30	Total outgoing bandwidth needed per month	150 GB
Network maintenance cost assumed to be 15% of network hardware and software cost over one year(s)	$1,180.84	Total outgoing bandwidth cost per month	$2.90
Service provider cost/GB per month	$0.15		
Amount of bandwidth needed (GB) per month	150		
Total service provider cost per month	$22.50		

Total networking cost over one year(s)	$9,323.14		
		Total Azure networking cost over one year(s)	$34.80

Storage cost

Azure storage cost

Hardware

Local Disk/SAN-HDD

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	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

Backup and Archive cost over one year(s)	**$160.00**

Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over one year(s)	$102.40

Total storage maintenance cost over one year(s)	**$102.40**

Page Blob storage

Usable storage volume in GB	2,560
Storage cost per GB/month	$0.045
Annual storage cost per usable volume	$1,382.40

Total Page Blob LRS storage maintenance cost over one year(s)	**$1,382.40**

Backup

Total backup and archive volume in GB	2,048
Storage cost per GB	$0.0224
	SKU# AAL-31836

Backup and Archive maintenance cost over one year(s)	**$550.50**

SQL Database Server storage

Usable storage volume in GB	125
Price per GB/Month	$0.001
Active DB Storage Cost/Month	$0.126
Annual storage cost per usable volume	$189.00

Total SQL Database Server Storage cost over one year(s)	**$189.00**

SQL Database Backup storage

Billable backup storage volume in GB	0
Price per GB/Month	$0.00
Backup Storage Cost/Month	$0.220

Annual storage cost per usable volume	$0.00
Total SQL Database Backup Storage Cost over one year(s)	$0.00

Total storage cost over one year(s)	$1,286.40

Total Azure storage cost over one year(s)	$2,121.90

IT labor cost

Azure IT labor cost

Number of IT admin hour(s) needed per year	140
Hourly rate for IT administrator	$35.00

Number of IT admin hour(s) needed per year	100
Hourly rate for IT administrator	$35.00

Total IT labor cost over one year(s)	$4,900.00

Total Azure IT labor cost over one year(s)	$3,500.00

Total on-premises cost over one year(s)	$111,502.00

Total Azure cost over one year(s)	$18,703.00

A total **savings** of **$92,799.00** with **Microsoft Azure**