


Total Cost of Ownership (TCO) Calculator

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

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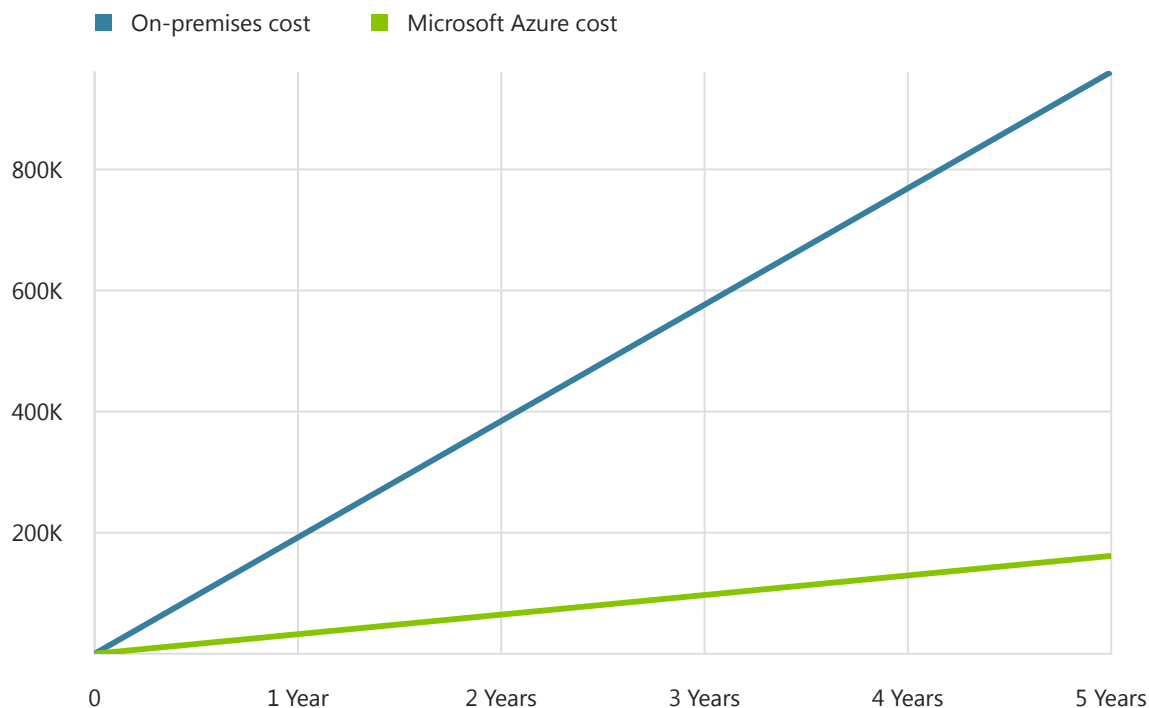
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Over 5 year(s) with Microsoft Azure, your estimated cost savings
could be as much as **\$799,395**

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.

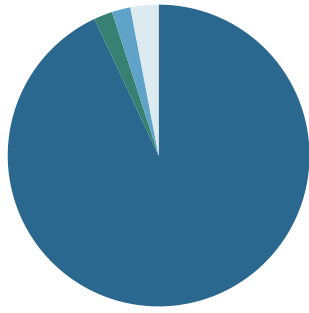
\$961,072
Total cost

Total Azure cost over 5 year(s)

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

\$161,677
Total cost

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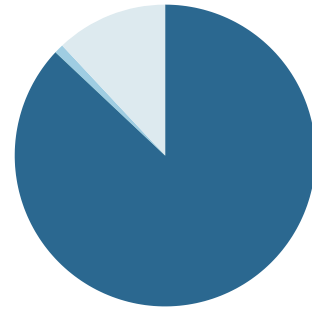
93%
Compute

2%
Data center

2%
Networking

0%
Storage

3%
IT Labor



87%
Compute

0%
Data center

0%
Networking

1%
Storage

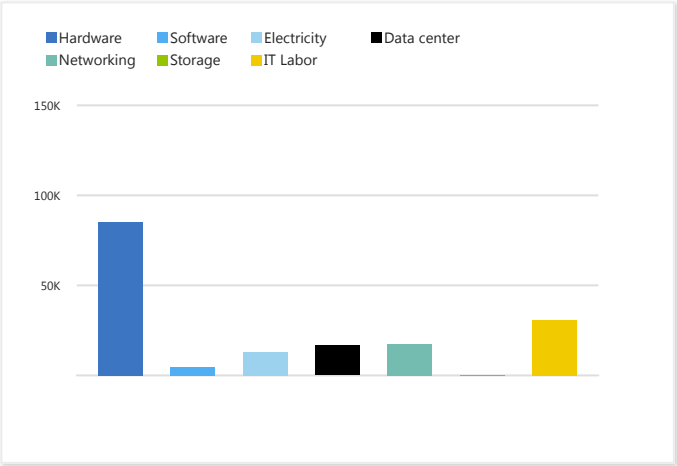
12%
IT Labor

Total on-premises cost breakdown

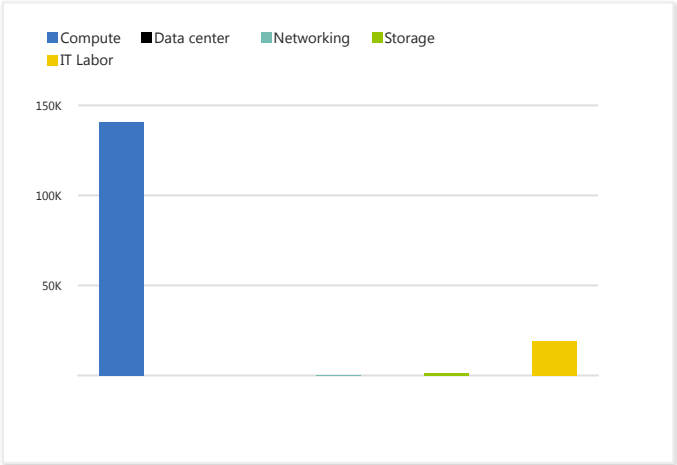
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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.



\$961,072
Cost over 5 year(s)



\$161,677
Cost over 5 year(s)

On-premises cost breakdown summary

Azure cost breakdown summary

Category	Cost
Compute	\$896,128.20

Category	Cost
Compute	\$161,677

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Hardware	\$85,254.00
Software	\$4,860.00
Electricity	\$12,891.00
Virtualization	\$25,459.20
Database	\$767,664.00
Data Center	\$16,624.85
Networking	\$17,344.66
Storage	\$307.20
IT Labor	\$30,667.05

Compute	\$140,962.80
Data Center	\$0.00
Networking	\$120.00
Storage	\$1,427.40
IT Labor	\$19,167.05

Total	\$961,072.00	Total	\$161,677.00
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Estimated on-premises cost (5 year(s))

Estimated Azure cost (5 year(s))

Compute cost

Azure compute cost

Hardware cost

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Virtual machine density - Number of virtual cores that can be created per physical core	3	
Cost per 4 proc 8 core, 112 GB RAM virtualization server for Windows	\$21,558.00	
Number of servers needed for 10 virtual machine(s) - 8 core, 256 GB RAM	1	
Cost per 2 proc 4 core, 14 GB RAM virtualization server for Windows	\$6,964.00	
Number of servers needed for 3 virtual machine(s) - 8 core, 64 GB RAM	1	
Cost per 2 proc 8 core, 64 GB RAM virtualization server for Windows	\$14,105.00	
Number of servers needed for 3 virtual machine(s) - 48 core, 64 GB RAM	1	
Total cost for virtualization server(s)	\$42,627.00	
Cost of maintaining virtualization server(s) - 20% of cost of virtualization server(s)	\$8,525.40	
Total cost of maintaining server(s) over five year(s)	\$42,627.00	
Total hardware cost over five year(s)	\$85,254.00	

Software cost

Cost of Windows standard license per 4 proc, 8 core, 112 GB RAM virtualization server	\$1,944.00	
Number of servers needed for 10 virtual machine(s) - 8 core, 256 GB RAM	1	
Cost of Windows standard license per 2 proc, 4 core, 14 GB RAM virtualization server	\$972.00	
Number of servers needed for 3 virtual machine(s) - 8 core, 64 GB RAM	1	
Cost of Windows standard license per 2 proc, 8 core, 64 GB RAM virtualization server	\$972.00	
Number of servers needed for 3 virtual machine(s) - 48 core, 64 GB RAM	1	

Virtual Machines cost

Number of hours per month	730	
B8MS Standard (8 core, 32 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA- 68668	
Number of virtual machines	10	
Total virtual machine cost per month	\$1,117.160	
Total Azure Virtual Machines cost	\$67,029.60	

NOTE: For Azure compute costs, 3 year
Reserved VM and two 1 year Reserved VM
in use.

App Service cost

B3 Basic App Service (4 core, 7 GB RAM)	\$0.30 /hr	
	SKU# T2X- 00020	
Full time App Service instances	3	
Average utilization	80 %	
Auto scaling	No	
Total App Service cost per month	\$525.60	
Total App Service cost over five year(s)	\$31,536.00	

SQL Database cost

Business Critical Single Gen5 2 vCores (Azure Hybrid Benefit)	\$0.27398 /hr	
	SKU# AAD- 17851	
Instance Count	3	
Cost Per Month	\$235.54	
Total SQL Database cost over five year(s)	\$42,397.20	

Total software license cost	\$3,888.00
Total Software Assurance cost	\$972.00
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Total software cost over five year(s)	\$4,860.00
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Electricity cost

Price of electricity per kWh	\$0.1334
Power rating of 8 core, 112 GB RAM server	1,200 Watts
Total electricity cost for 1 server(s) - 8 core, 112 GB RAM server per month	\$116.86
Power rating of 4 core, 14 GB RAM server	324 Watts
Total electricity cost for 1 server(s) - 4 core, 14 GB RAM server per month	\$31.55
Power rating of 8 core, 64 GB RAM server	682.3 Watts
Total electricity cost for 1 server(s) - 8 core, 64 GB RAM server per month	\$66.44
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Total electricity cost over five year(s)	\$12,891.00
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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	16
Virtual machine management cost per month	\$424.32
Virtual machine management cost per year	\$5,091.84
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Total virtualization cost over five year(s)	\$25,459.20
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SQL Database cost

Total CPU cores	48
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SQL Server Enterprise License cost per 2 cores	\$14,256.00
Enterprise cores	48
Total license cost	\$342,144.00
Enterprise Software Assurance cost per 2 cores	\$3,546.00
Enterprise cores	48
Total Software Assurance cost	\$425,520.00

Total SQL Database cost over five year(s) **\$767,664.00**

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

Total cost over five year(s) **\$896,128.20**

Total Azure compute cost over five year(s) **\$140,962.80**

Data center cost

Azure data center cost

Compute cost

Number of rack units per rack	42
Rack units required per 8 core, 112 GB RAM server	4
Number of 8 core, 112 GB RAM server	1
Total number of rack units required	4
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
Rack units required per 8 core, 64 GB RAM server	4
Number of 8 core, 64 GB RAM server	1
Total number of rack units required	4
Total number of rack units required for all server(s)	10

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

Data center construction cost per rack unit amortized over 20 years	\$302.27
Data center compute cost	\$3,022.70
Total Data center compute cost over five year(s)	\$15,113.50

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

Total Data center cost over five year(s)	\$16,624.85
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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)	\$90,114.00
Network hardware and software cost assumed to be 15% of hardware and software cost over five year(s)	\$13,517.10
Network maintenance cost assumed to be 15% of network hardware and software cost over five year(s)	\$2,027.56
Service provider cost/GB per month	\$0.15
Amount of bandwidth needed (GB) per month	200
Total service provider cost per month	\$30.00

Total outgoing bandwidth needed per month	200 GB
Total outgoing bandwidth cost per month	\$2.00

Total networking cost over five year(s) \$17,344.66		Total Azure networking cost over five year(s) \$120.00	
Storage cost		Azure storage cost	
Hardware		Page Blob storage	
Local Disk/SAN-HDD		Usable storage volume in GB	512
Cost per GB	\$0.20	Storage cost per GB/month	\$0.045
Storage (RAID 10 configuration) volume in GB	1,024	Annual storage cost per usable volume	\$276.48
Total storage procurement cost	\$204.80	Total Page Blob LRS storage maintenance cost over five year(s)	\$1,382.40
Storage Maintenance		SQL Database Server storage	
Storage maintenance cost (10% of storage procurement cost) over five year(s)	\$102.40	Usable storage volume in GB	3
Total storage maintenance cost over five year(s)	\$102.40	Price per GB/Month	\$0.083
		Active DB Storage Cost/Month	\$0.25
		Annual storage cost per usable volume	\$9.00
		Total SQL Database Server Storage cost over five year(s)	\$45.00
		SQL Database Backup storage	
		Billable backup storage volume in GB	0
		Price per GB/Month	\$0.00
		Backup Storage Cost/Month	\$0.20
		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)	\$307.20	Total Azure storage cost over five year(s)	\$1,427.40
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IT labor cost

Azure IT labor cost

Number of IT admin hour(s) needed per year	266.67	Number of IT admin hour(s) needed per year	166.67
Hourly rate for IT administrator	\$23.00	Hourly rate for IT administrator	\$23.00

Total IT labor cost over five year(s)	\$30,667.05	Total Azure IT labor cost over five year(s)	\$19,167.05
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Total on-premises cost over five year(s)	\$961,072.00	Total Azure cost over five year(s)	\$161,677.00
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A total **savings** of **\$799,395.00** with **Microsoft Azure**