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Total Cost of Ownership (TCO) Calculator

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



My saved reports



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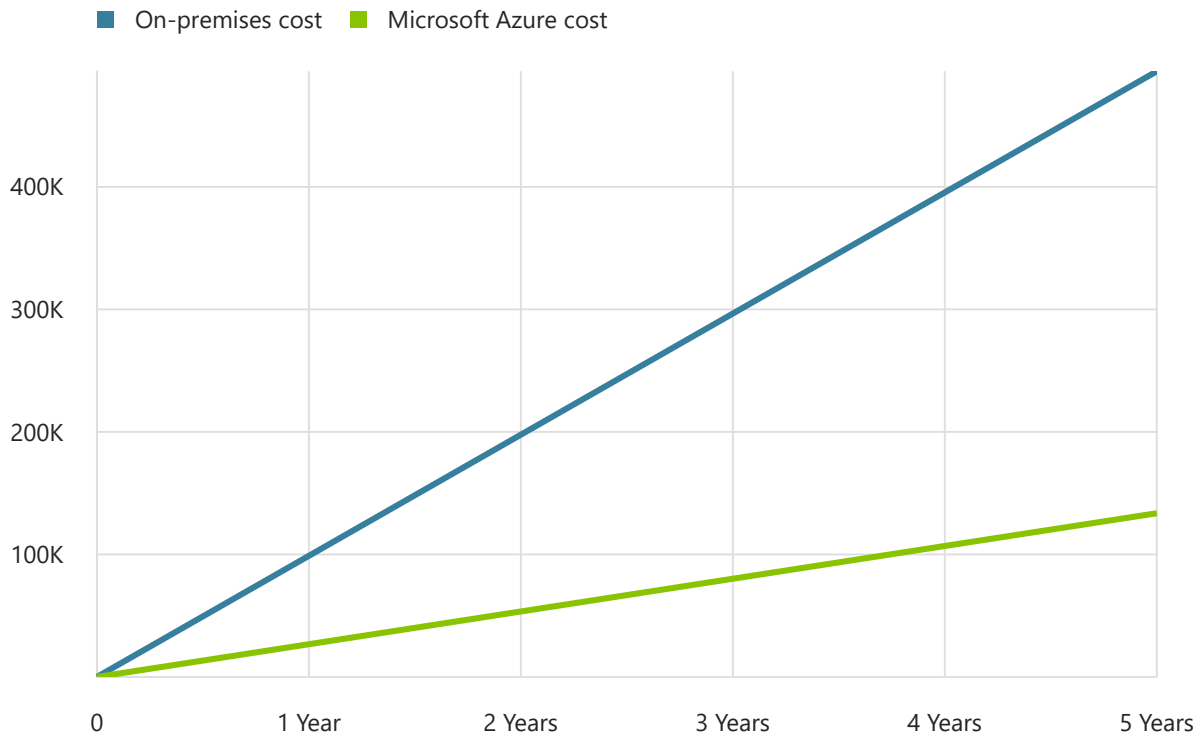
Over 5 year(s) with Microsoft Azure, your estimated cost savings could

be as much as **US\$360,720**

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



Total on-premises over 5 year(s)

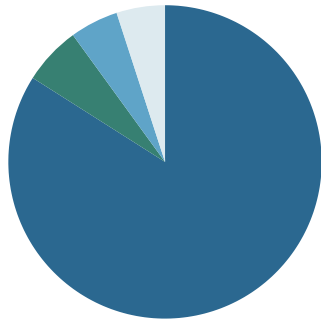
TCO of on-premises environments tends to be driven by compute and data centre costs.

Total Azure cost over 5 year(s)

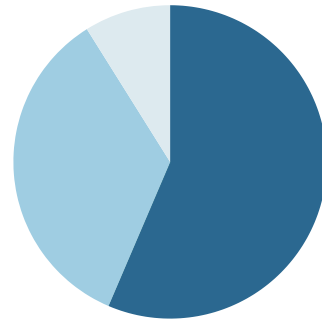
In Azure, certain cost categories decrease or go away completely.

US\$494,342
Total cost

US\$133,622
Total cost



84% Compute
6% Data centre
5% Networking
0% Storage
5% IT labour



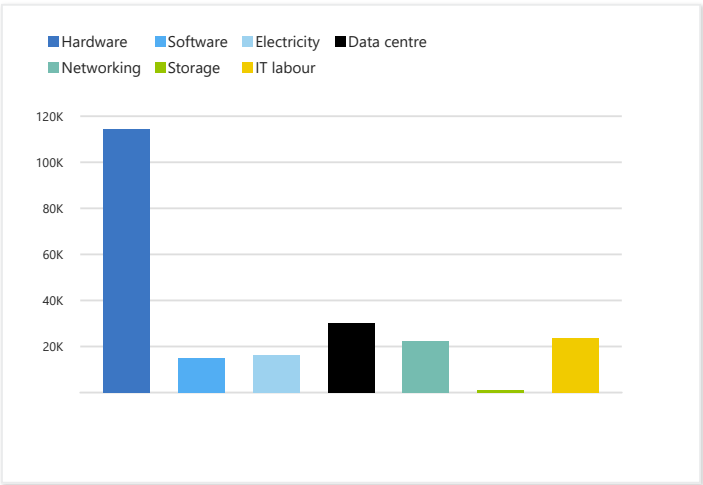
57% Compute
0% Data centre
0% Networking
35% Storage
9% IT labour

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.

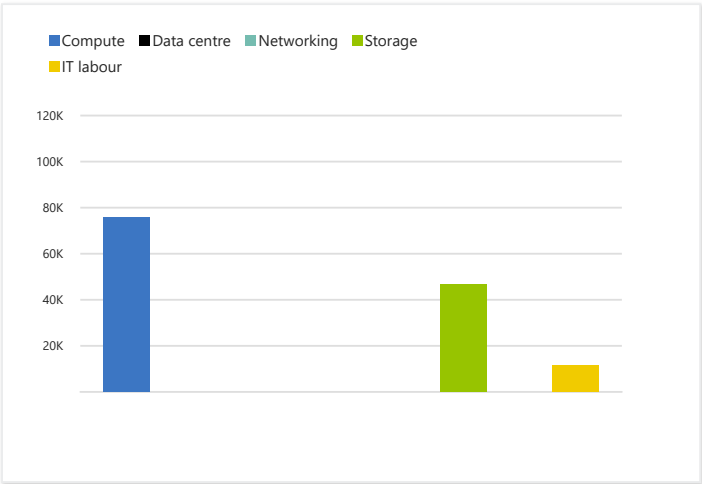
Total Azure cost breakdown

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



US\$494,342

Cost over 5 year(s)



US\$133,622

Cost over 5 year(s)

On-premises cost breakdown summary

Azure cost breakdown summary

Category

Cost

Compute	US\$416,902.35
Hardware	US\$114,608.00
Software	US\$14,983.75
Electricity	US\$16,255.80
Virtualisation	US\$6,364.80
Database	US\$264,690.00
Data centre	US\$30,227.00
Networking	US\$22,363.57
Storage	US\$1,081.60
IT labour	US\$23,767.05

Total	US\$494,342.00
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Category	Cost
Compute	US\$75,557.76
Data centre	US\$0.00
Networking	US\$0.00
Storage	US\$46,563.77
IT labour	US\$11,500.00

Total	US\$133,622.00
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Estimated on-premises cost (5 year(s))

Estimated Azure cost (5 year(s))

Compute cost

Hardware cost

Cost per 2 proc 4 core, 14 GB RAM physical server for Windows	US\$6,964.00
Number of servers required	6
Cost per 1 proc 1 core, 2 GB RAM physical server for Windows	US\$1,415.00
Number of servers required	1
Total cost for physical server(s)	US\$43,199.00
Cost of maintaining physical server(s) - 20% of cost of physical server(s)	US\$8,639.80
Virtual machine density - Number of virtual cores that can be created per physical core	3
Cost per 2 proc 8 core, 64 GB RAM virtualisation server for Linux	US\$14,105.00
Number of servers needed for 4 virtual machine(s) - 48 core, 14 GB RAM	1
Total cost for virtualisation server(s)	US\$14,105.00
Cost of maintaining virtualisation server(s) — 20% of cost of virtualisation server(s)	US\$2,821.00
Total cost of maintaining server(s) over five year(s)	US\$57,304.00
Total hardware cost over five year(s)	US\$114,608.00

Software cost

Cost of Windows standard licence per 2 proc, 4 core, 14 GB RAM physical machine	US\$972.00
Number of licences needed	6
Cost of Windows datacenter licence per 1 proc, 1 core, 2 GB RAM physical machine	US\$6,155.00
Number of licences needed	1

Azure compute cost

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	6
Total virtual machine cost per month	US\$670.296

Total Azure Virtual Machines cost US\$40,217.76

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

SQL Database cost

General Purpose Single Gen5 2 vCores (Azure Hybrid Benefit)	US\$0.13698 /hr
Instance Count	SKU# 1
Cost Per Month	US\$117.80
General Purpose Single Gen5 2 vCores (Azure Hybrid Benefit)	US\$0.13698 /hr
Instance Count	SKU# 4
Cost Per Month	US\$117.80

Total SQL Database cost over five year(s) US\$35,340.00

Total software licence cost	US\$11,987.00
Total Software Assurance cost	US\$2,996.75
Total software cost over five year(s)	US\$14,983.75

Electricity cost

Price of electricity per kWh	US\$0.1334
Power rating of 4 core, 14 GB RAM server	324 Watts
Total electricity cost consumed by 6 server(s) - 4 core, 14 GB RAM server per month	US\$189.30
Power rating of 1 core, 2 GB RAM server	156 Watts
Total electricity cost consumed by 1 server(s) - 1 core, 2 GB RAM server per month	US\$15.19
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	US\$66.44
Total electricity cost over five year(s)	US\$16,255.80

Virtualisation cost

Virtualisation software licence cost	US\$0.00
Per virtual machine, per month, cost to load balance, back up and patch virtual machines	US\$26.52
Number of virtual machines	5
Virtual machine management cost per month	US\$106.08
Virtual machine management cost per year	US\$1,272.96
Total virtualisation cost over five year(s)	US\$6,364.80

SQL Database cost

Total CPU cores	52
SQL Server Enterprise Licence cost per 2 cores	US\$14,256.00

Enterprise cores	4
SQL Server Standard Licence cost per 2 cores	US\$3,717.00
Standard cores	48
Total licence cost	US\$117,720.00
Enterprise Software Assurance cost per 2 cores	US\$3,546.00
Enterprise cores	4
Standard Software Assurance cost per 2 cores	US\$929.25
Standard cores	48
Total Software Assurance cost	US\$146,970.00

Total SQL Database cost over five year(s) **US\$264,690.00**

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

Total cost over five year(s) **US\$416,902.35**

Total Azure compute cost over five year(s) **US\$75,557.76**

Data centre cost

Azure data centre 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	6
Total number of rack units required	US\$12.00
Rack units required per 1 core, 2 GB RAM server	1
Number of 1 core, 2 GB RAM server	1
Total number of rack units required	US\$1.00
Rack units required per 8 core, 64 GB RAM server	4

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

Number of 8 core, 64 GB RAM server	1
Total number of rack units required	US\$4.00
Total number of rack units required for all server(s)	US\$17.00
Data centre construction cost per rack unit amortised over 20 years	US\$302.27
Data centre compute cost	US\$5,138.59
Total data centre compute cost over five year(s)	US\$25,692.95

Storage cost

Total number of rack units required for all storage	3
Number of rack units for NAS	3
Rack mounting/installation cost	US\$906.81
Total data centre storage cost over five year(s)	US\$4,534.05

Total data centre cost over five year(s)	US\$30,227.00
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Total Azure data centre cost over five year(s)	US\$0.00
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Networking cost

Azure networking cost

Total hardware + software cost over five year(s)	US\$129,591.75
Network hardware and software cost assumed to be 15% of hardware and software cost over five year(s)	US\$19,438.76
Network maintenance cost assumed to be 15% of network hardware and software cost over five year(s)	US\$2,915.81
Service provider cost/GB per month	US\$0.15

Total outgoing bandwidth needed per month	1 GB
Total outgoing bandwidth cost per month	US\$0.00

Amount of bandwidth needed (GB) per month	1
Total service provider cost per month	US\$0.15

Total networking cost over five year(s)	US\$22,363.57
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Total Azure networking cost over five year(s)	US\$0.00
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Storage cost

Azure storage cost

Hardware

NAS/File Share Cost per GB Storage (RAID 10 configuration) volume in GB	US\$0.20 3,072
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Total storage procurement cost	US\$614.40
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Back up

Total back up and archive volume in GB	3,072
	HP LTO-7 BB873A
Back up volume per tape in TB	6
Number of Tape drives required	1
Cost per Tape Drive	US\$160.00

Back up and archive cost over five year(s)	US\$160.00
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Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over five year(s)	US\$307.20
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File storage

Usable storage volume in GB	1,536
Storage cost per GB	US\$0.060

Annual storage cost per usable volume	US\$1,105.92
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Total File storage LRS maintenance cost over five year(s)	US\$5,529.60
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Back up

Total back up and archive volume in GB	3,072
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Storage cost per GB	US\$0.0224
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SKU# AAL-31949

Back up and archive maintenance cost over five year(s)	US\$4,128.77
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SQL Database Server storage

Usable storage volume in GB	6
Price per GB/Month	US\$0.038
Active DB Storage Cost/Month	US\$0.230

Total storage maintenance cost over five year(s)		US\$307.20	Annual storage cost per usable volume		US\$8.28
			Total SQL Database Server Storage cost over five year(s)		US\$41.40
			SQL Database Backup storage		
			Billable back up storage volume in GB		3,072
			Price per GB/Month		US\$0.00
			Back up storage cost/month		US\$0.400
			Annual storage cost per usable volume		US\$7,372.80
			Total SQL database back up storage cost over five year(s)		US\$36,864.00
Total storage cost over five year(s)		US\$1,081.60	Total Azure storage cost over five year(s)		US\$46,563.77
IT labour cost			Azure IT labour cost		
Number of IT admin hour(s) needed per year		206.67	Number of IT admin hour(s) needed per year		100
Hourly rate for IT administrator		US\$23.00	Hourly rate for IT administrator		US\$23.00
Total IT labour cost over five year(s)		US\$23,767.05	Total Azure IT labour cost over five year(s)		US\$11,500.00

Total on-premises cost over five year(s)	US\$494,342.00	Total Azure cost over five year(s)	US\$133,622.00
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A total **savings** of **US\$360,720.00** with **Microsoft Azure**