

Total Cost of Ownership (TCO) Calculator

Estimate the cost savings you can realise 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 **US\$3,809,798**

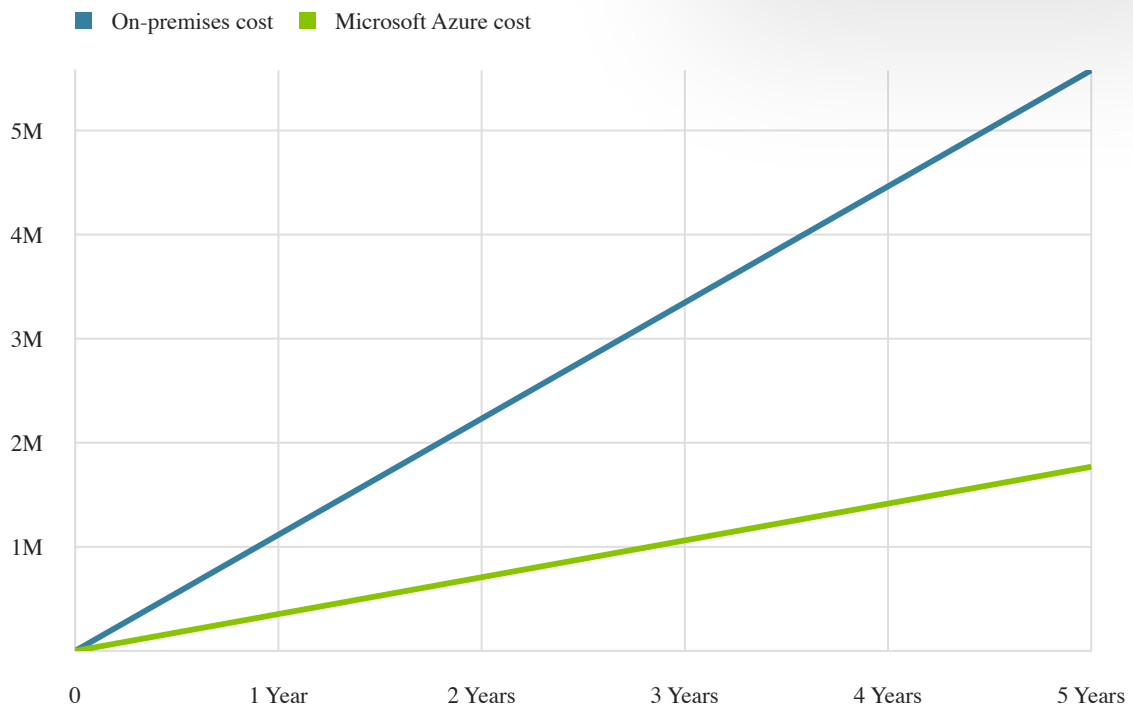
Total on-premises vs Azure cost over time

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 centre costs.

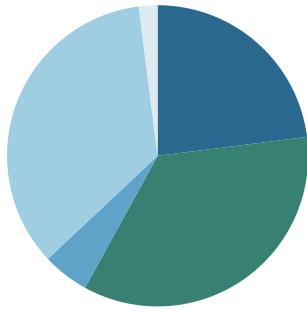
US\$5,579,117
Total cost

Total Azure cost over 5 year(s)

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

US\$1,769,319
Total cost

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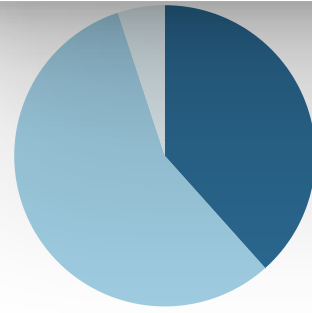
23%
Compute

35%
Data
centre

5%
Networking

35%
Storage

2%
IT labour



38%
Compute

0%
Data
centre

0%
Networking

56%
Storage

5%
IT labour

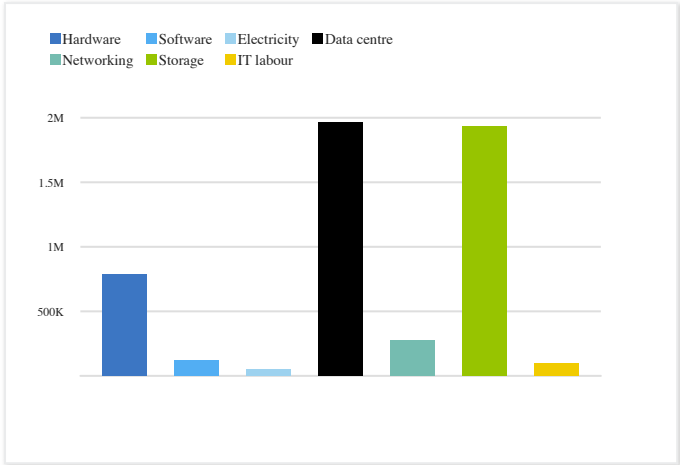
Total on-premises cost breakdown

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

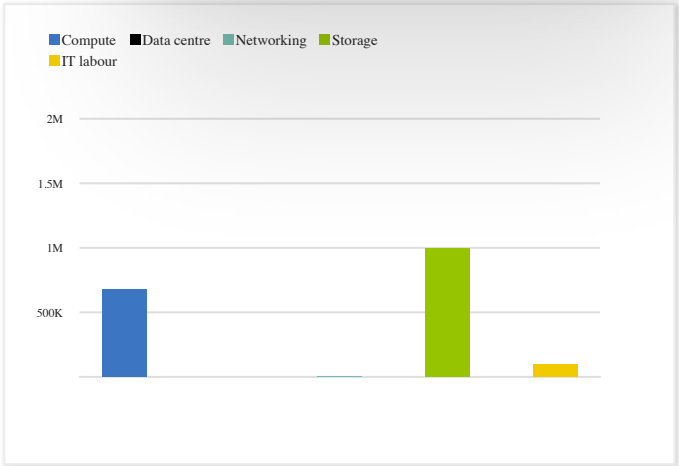
Total Azure cost breakdown

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

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US\$5,579,117
Cost over 5 year(s)



US\$1,769,319
Cost over 5 year(s)

On-premises cost breakdown
summary

Azure cost breakdown summary

Category	Cost
Compute	US\$1,306,020.00

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Category	Cost
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Hardware	US\$790,280.00	Compute	US\$676,416.00
Software	US\$123,100.00		
Electricity	US\$52,680.00	Data centre	US\$0.00
Virtualisation	US\$339,960.00	Networking	US\$30.00
Data centre	US\$1,965,731.15	Storage	US\$995,973.12
Networking	US\$274,194.00	IT labour	US\$96,900.00
Storage	US\$1,936,272.00		
IT labour	US\$96,900.00		

Total	US\$5,579,117.00	Total	US\$1,769,319.00
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Estimated on-premises cost (5 year(s))

Estimated Azure cost (5 year(s))

Compute cost
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Azure compute cost

Hardware cost

Virtual machine density - Number of virtual cores that can be created per physical core	2	
Cost per 4 proc 32 core, 2000 GB RAM virtualisation server for Windows		US\$98,785.00
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2	
Cost per 4 proc 32 core, 2000 GB RAM virtualisation server for Linux		US\$98,785.00
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2	
Total cost for virtualisation server(s)		US\$395,140.00
Cost of maintaining virtualisation server(s) — 20% of cost of virtualisation server(s)		US\$79,028.00
Total cost of maintaining server(s) over five year(s)		US\$395,140.00
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Total hardware cost over five year(s)		US\$790,280.00

Software cost

Cost of Windows datacenter licence per 4 proc, 32 core, 2000 GB RAM virtualisation server		US\$49,240.00
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2	
Total software licence cost		US\$98,480.00
Total Software Assurance cost		US\$24,620.00

Virtual Machines cost

Number of hours per month	730	
F8sv2 Standard (8 core, 16 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA- 57371	
Number of virtual machines	50	
Total virtual machine cost per month		US\$5,636.800
F8sv2 Standard (8 core, 16 GB RAM) Linux	SKU# AAA- 57366	
Number of virtual machines	50	
Total virtual machine cost per month		US\$5,636.800

Total Azure Virtual Machines cost	US\$676,416.00
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NOTE: For Azure compute costs, 3 year
Reserved VM and two 1 year Reserved VM
in use.

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Total software cost over five year(s)	US\$123,100.00
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Electricity cost

Price of electricity per kWh	US\$0.10
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Power rating of 32 core, 2000 GB RAM server	3,006.9 Watts
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Total electricity cost for 2 server(s) - 32 core, 2000 GB RAM server per month	US\$439.00
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Power rating of 32 core, 2000 GB RAM server	3,006.9 Watts
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Total electricity cost for 2 server(s) - 32 core, 2000 GB RAM server per month	US\$439.00
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Total electricity cost over five year(s)	US\$52,680.00
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Virtualisation cost

Virtualisation software licence cost	US\$27,960.00
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Per virtual machine, per month, cost to load balance, back up and patch virtual machines	US\$52.00
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Number of virtual machines	100
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Virtual machine management cost per month	US\$5,200.00
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Virtual machine management cost per year	US\$62,400.00
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Total virtualisation cost over five year(s)	US\$339,960.00
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Total cost over five year(s)	US\$1,306,020.00
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Total Azure compute cost over five year(s)	US\$676,416.00
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Data centre cost

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Azure data centre cost

Compute cost

Number of rack units per rack	42
Rack units required per 32 core, 2000 GB RAM server	4
Number of 32 core, 2000 GB RAM server	2
Total number of rack units required	US\$8.00
Rack units required per 32 core, 2000 GB RAM server	4
Number of 32 core, 2000 GB RAM server	2
Total number of rack units required	US\$8.00
Total number of rack units required for all server(s)	US\$16.00
Data centre construction cost per rack unit amortised over 20 years	US\$637.19
Data centre compute cost	US\$10,195.04

Total data centre compute cost over five year(s)	US\$50,975.20
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Storage cost

Total number of rack units required for all storage	601
Number of rack units for DAS or SAN	601
Rack mounting/installation cost	US\$382,951.19

Total data centre storage cost over five year(s)	US\$1,914,755.95
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Total data centre cost over five year(s)	US\$1,965,731.15
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Total Azure data centre cost over five year(s)	US\$0.00
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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\$913,380.00
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Network hardware and software cost assumed to be 25% of hardware and software cost over five year(s)	US\$228,345.00
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Network maintenance cost assumed to be 20% of network hardware and software cost over five year(s)	US\$45,669.00
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Service provider cost/GB per month	US\$0.20
Amount of bandwidth needed (GB) per month	15

Total service provider cost per month	US\$3.00
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Total outgoing bandwidth needed per month	15 GB
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Total outgoing bandwidth cost per month	US\$0.50
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Total networking cost over five year(s)	US\$274,194.00
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Total Azure networking cost over five year(s)	US\$30.00
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Storage cost

Azure storage cost

Hardware

Local Disk/SAN-HDD	
Cost per GB	US\$2.00
Storage (RAID 10 configuration) volume in GB	615,424

Total storage procurement cost	US\$1,230,848.00
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Page Blob storage

Usable storage volume in GB	307,712
Storage cost per GB/month	US\$0.045

Annual storage cost per usable volume	US\$166,164.48
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Back up

Total back up and archive volume in GB	122,880
	HP LTO-7 BB873A
Back up volume per tape in TB	6
Number of Tape drives required	20
Cost per Tape Drive	US\$4,500.00

Back up and archive cost over five year(s)	US\$90,000.00
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Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over five year(s)	US\$615,424.00
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Total storage maintenance cost over five year(s)	US\$615,424.00
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Total storage cost over five year(s)	US\$1,936,272.00
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IT labour cost

Number of IT admin hour(s) needed per year	387.6
Hourly rate for IT administrator	US\$50.00

Total IT labour cost over five year(s)	US\$96,900.00
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Total Page Blob LRS storage maintenance cost over five year(s)	US\$830,822.40
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Back up

Total back up and archive volume in GB	122,880
Storage cost per GB	US\$0.0224

SKU# AAL-31949

Back up and archive maintenance cost over five year(s)	US\$165,150.72
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Total Azure storage cost over five year(s)	US\$995,973.12
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Azure IT labour cost

Number of IT admin hour(s) needed per year	387.6
Hourly rate for IT administrator	US\$50.00

Total Azure IT labour cost over five year(s)	US\$96,900.00
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Can we help you?

Total on-premises cost over five
year(s)

US\$5,579,117.00

Total Azure cost over five
year(s)

US\$1,769,319.00

A total **savings** of **US\$3,809,798.00** with **Microsoft Azure**

Can we help you?