


Total Cost of Ownership (TCO) Calculator

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

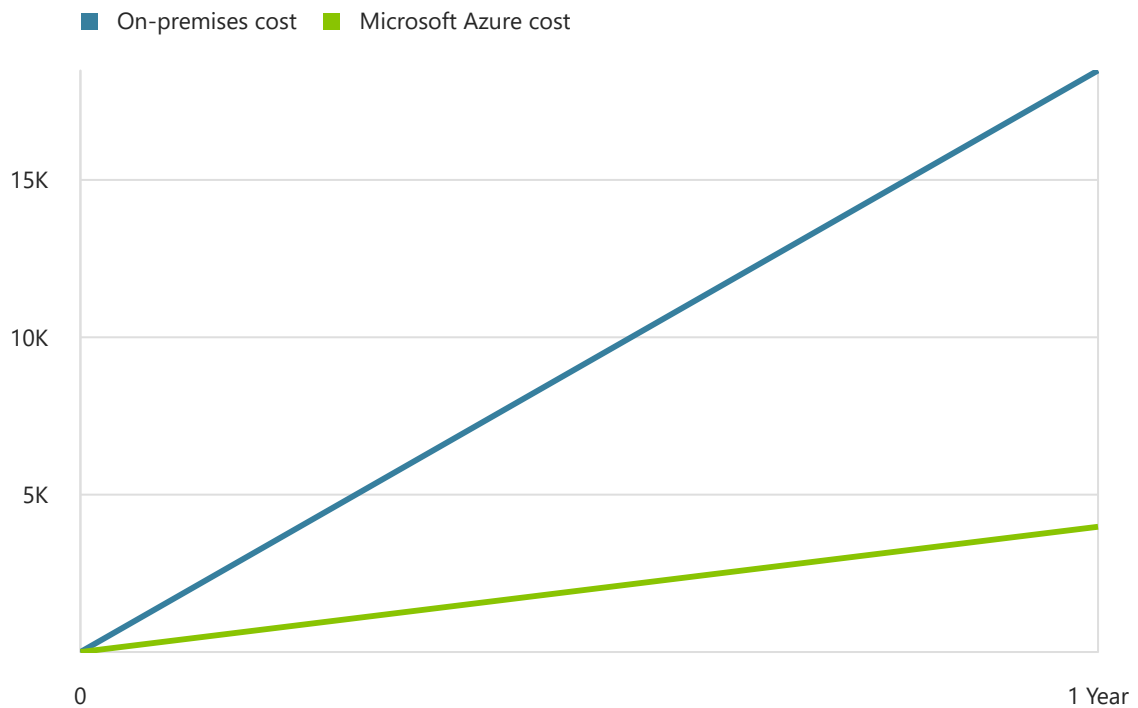
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Over 1 year(s) with Microsoft Azure, your estimated cost savings
could be as much as **\$14,498**

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.



Total on-premises over 1 year(s)

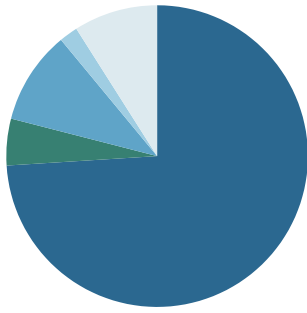
TCO of on-premises environments tends to be driven by compute and data center costs.

\$18,478
Total cost

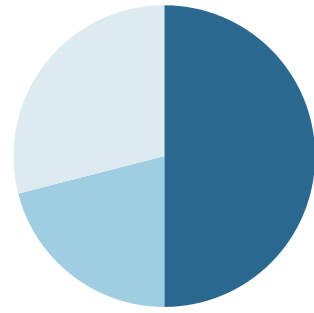
Total Azure cost over 1 year(s)

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

\$3,980
Total cost



74%	5%	10%	2%	9%
Compute	Data center	Networking	Storage	IT Labor



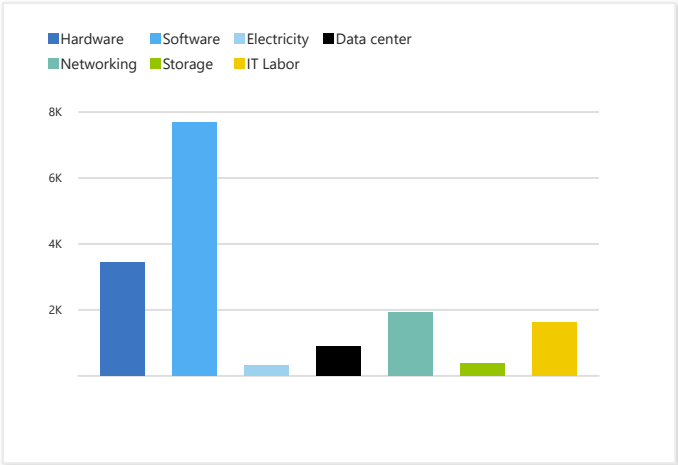
50%	0%	0%	21%	29%
Compute	Data center	Networking	Storage	IT Labor

Total on-premises cost breakdown

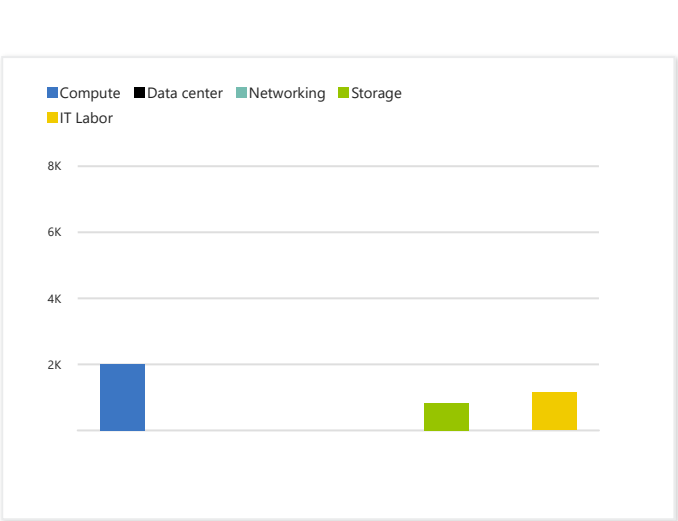
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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.



\$18,478
Cost over 1 year(s)



\$3,980
Cost over 1 year(s)

On-premises cost breakdown
summary

Azure cost breakdown summary

Category	Cost
Compute	\$13,649.91

Category	Cost
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Hardware	\$3,428.40
Software	\$7,693.75
Electricity	\$305.04
Virtualization	\$2,222.72
Data Center	\$906.81
Networking	\$1,925.77
Storage	\$385.28
IT Labor	\$1,610.00

Compute	\$2,003.40
Data Center	\$0.00
Networking	\$0.00
Storage	\$826.98
IT Labor	\$1,150.00

Total	\$18,478.00	Total	\$3,980.00
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Estimated on-premises cost (1 year(s))

Estimated Azure cost (1 year(s))

Compute cost

Azure compute cost

Hardware cost

Cost per 1 proc 1 core, 0.75 GB RAM physical server for Linux	\$1,173.00
Number of servers required	1
Total cost for physical server(s)	\$1,173.00
Cost of maintaining physical server(s) - 20% of cost of physical server(s)	\$234.60
Virtual machine density - Number of virtual cores that can be created per physical core	3
Cost per 1 proc 2 core, 3.5 GB RAM virtualization server for Windows	\$1,684.00
Number of servers needed for 3 virtual machine(s) - 2 core, 8 GB RAM	1
Total cost for virtualization server(s)	\$1,684.00
Cost of maintaining virtualization server(s) - 20% of cost of virtualization server(s)	\$336.80
Total cost of maintaining server(s) over one year(s)	\$571.40
Total hardware cost over one year(s)	\$3,428.40

Software cost

Cost of Windows datacenter license per 1 proc, 2 core, 3.5 GB RAM virtualization server	\$6,155.00
Number of servers needed for 3 virtual machine(s) - 2 core, 8 GB RAM	1
Total software license cost	\$6,155.00
Total Software Assurance cost	\$1,538.75

Virtual Machines cost

Number of hours per month	730
B2MS Standard (2 core, 8 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAN-77486
Number of virtual machines	3
Total virtual machine cost per month	\$123.15

Total Azure Virtual Machines cost **\$1,477.80**

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

App Service cost

B1 Basic App Service (1 core, 1.75 GB RAM)	\$0.018 /hr
	SKU# AAN-80044
Full time App Service instances	1
Average utilization	80 %
Auto scaling	No
Total App Service cost per month	\$43.80

Total App Service cost over one year(s) **\$525.60**

Total software cost over one year(s)	\$7,693.75
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Electricity cost

Price of electricity per kWh	\$0.1334
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Power rating of 2 core, 3.5 GB RAM server	156 Watts
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Total electricity cost for 1 server(s) - 2 core, 3.5 GB RAM server per month	\$15.19
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Power rating of 1 core, 0.75 GB RAM server	105 Watts
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Total electricity cost consumed by 1 server(s) - 1 core, 0.75 GB RAM server per month	\$10.23
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Total electricity cost over one year(s)	\$305.04
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Virtualization cost

Virtualization software license cost	\$1,268.00
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Per virtual machine, per month, cost to load balance, backup and patch virtual machines	\$26.52
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Number of virtual machines	3
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Virtual machine management cost per month	\$79.56
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Virtual machine management cost per year	\$954.72
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Total virtualization cost over one year(s)	\$2,222.72
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Total cost over one year(s)	\$13,649.91
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Total Azure compute cost over one year(s)	\$2,003.40
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Data center cost

Azure data center cost

Compute cost

Number of rack units per rack	42
Rack units required per 2 core, 3.5 GB RAM server	1
Number of 2 core, 3.5 GB RAM server	1
Total number of rack units required	\$1.00
Rack units required per 1 core, 0.75 GB RAM server	1
Number of 1 core, 0.75 GB RAM server	1
Total number of rack units required	\$1.00
Total number of rack units required for all server(s)	\$2.00
Data center construction cost per rack unit amortized over 20 years	\$302.27
Data center compute cost	\$604.54
Total Data center compute cost over one year(s)	\$604.54

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 one year(s)	\$302.27

Total Azure data center cost over one year(s)	\$0.00
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Total Data center cost over one year(s)	\$906.81
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Total Azure data center cost over one year(s)	\$0.00
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Networking cost

Azure networking cost

Total hardware + software cost over one year(s)	\$11,122.15
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Network hardware and software cost assumed to be 15% of hardware and software cost over one year(s)	\$1,668.32
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Network maintenance cost assumed to be 15% of network hardware and software cost over one year(s)	\$250.25
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Service provider cost/GB per month	\$0.15
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Amount of bandwidth needed (GB) per month	4
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Total service provider cost per month	\$0.60
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Total outgoing bandwidth needed per month	4 GB
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Total outgoing bandwidth cost per month	\$0.00
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Total networking cost over one year(s)	\$1,925.77
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Total Azure networking cost over one year(s)	\$0.00
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Storage cost

Azure storage cost

Hardware

Local Disk/SAN-HDD	
Cost per GB	\$0.20
Storage (RAID 10 configuration) volume in GB	1,024

Total storage procurement cost	\$204.80
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Page Blob storage

Usable storage volume in GB	512
Storage cost per GB/month	\$0.045

Annual storage cost per usable volume	\$276.48
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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
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Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over one year(s)	\$20.48
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Total storage maintenance cost over one year(s)	\$20.48
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Total storage cost over one year(s)	\$385.28
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IT labor cost

Number of IT admin hour(s) needed per year	70
Hourly rate for IT administrator	\$23.00

Total IT labor cost over one year(s)	\$1,610.00
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Total Page Blob LRS storage maintenance cost over one year(s)	\$276.48
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Backup

Total backup and archive volume in GB	2,048
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Storage cost per GB	\$0.0224
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SKU# AAN-80274

Backup and Archive maintenance cost over one year(s)	\$550.50
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Total Azure storage cost over one year(s)	\$826.98
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Azure IT labor cost

Number of IT admin hour(s) needed per year	50
Hourly rate for IT administrator	\$23.00

Total Azure IT labor cost over one year(s)	\$1,150.00
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Total on-premises cost over one year(s)	\$18,478.00	Total Azure cost over one year(s)	\$3,980.00
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A total **savings** of **\$14,498.00** with **Microsoft Azure**