

Total Cost of Ownership (TCO) Calculator

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



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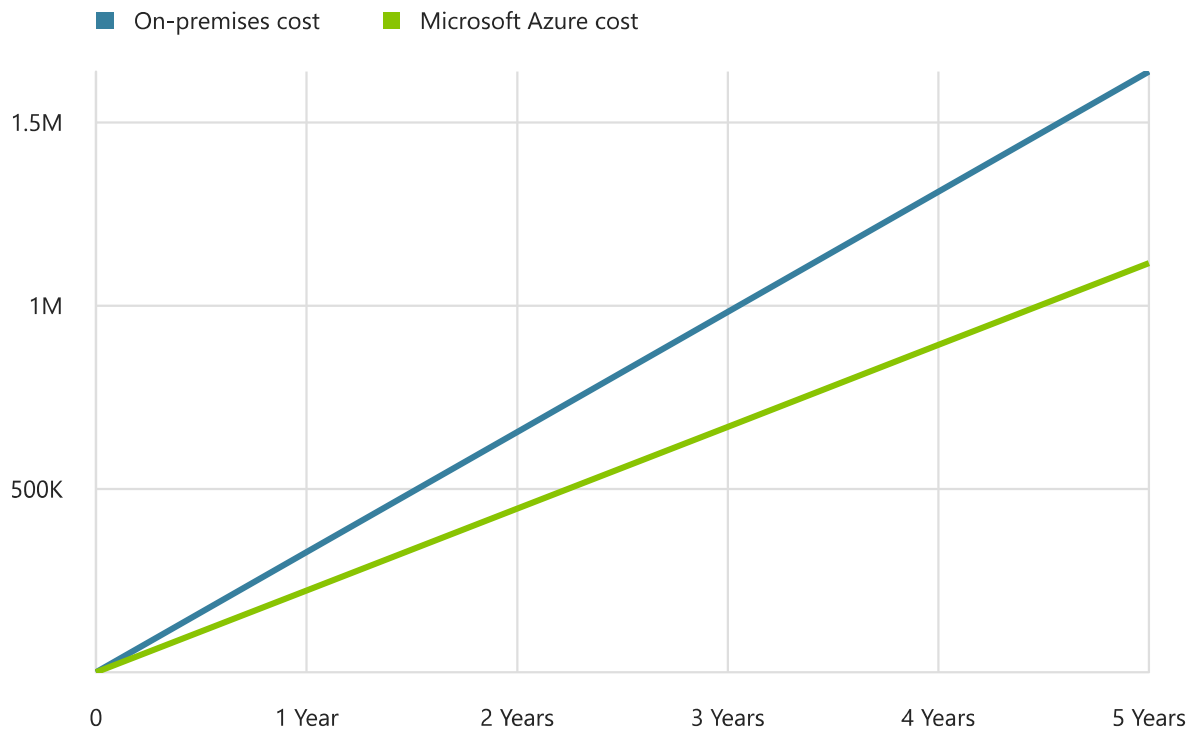
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Over 5 year(s) with Microsoft Azure, your estimated cost savings
could be as much as **\$522,472**

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)

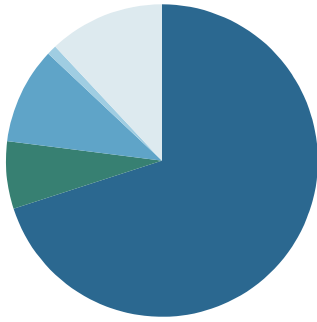
TCO of on-premises environments tends to be driven by compute and data center costs.

Total Azure cost over 5 year(s)

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

\$1,638,650
Total cost

\$1,116,178
Total cost



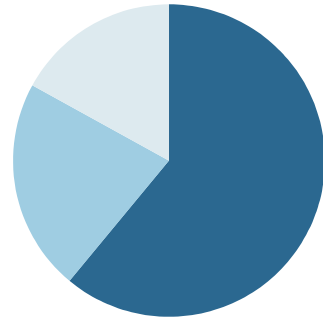
70%
Compute

7%
Data center

10%
Networking

1%
Storage

12%
IT Labor



61%
Compute

0%
Data center

0%
Networking

22%
Storage

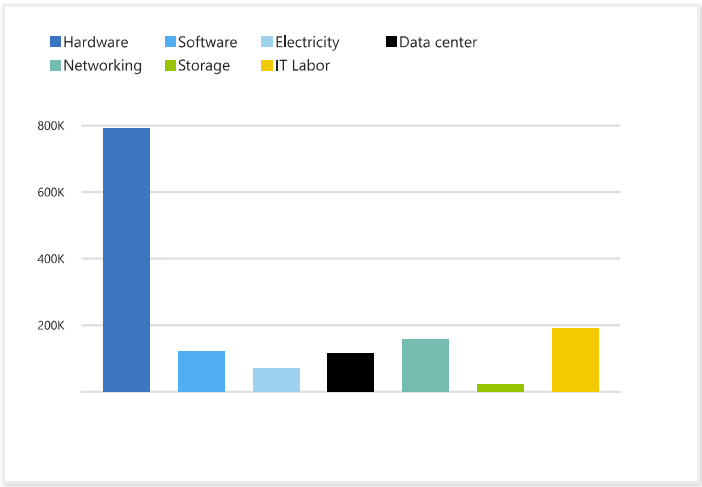
17%
IT Labor

Total on-premises cost breakdown

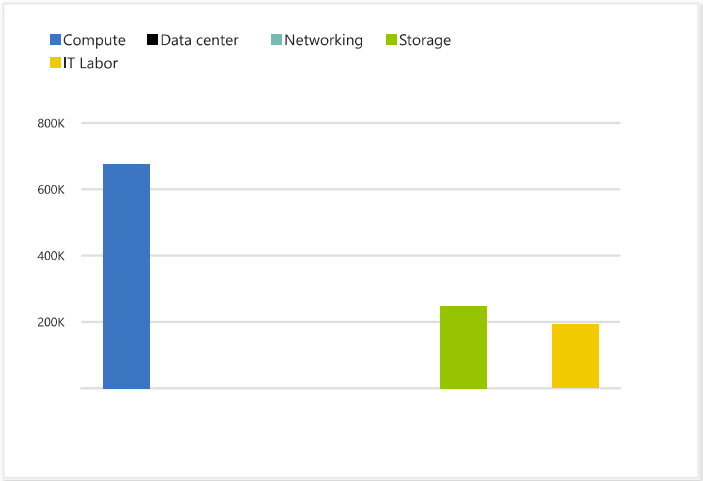
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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.



\$1,638,650
Cost over 5 year(s)



\$1,116,178
Cost over 5 year(s)

On-premises cost breakdown
summary

Azure cost breakdown summary

Category

Cost

Compute	\$1,152,920.80
Hardware	\$790,280.00
Software	\$123,100.00
Electricity	\$70,276.80
Virtualization	\$169,264.00
Data Center	\$114,862.60
Networking	\$157,567.05
Storage	\$21,632.00
IT Labor	\$191,667.05

Total	\$1,638,650.00
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Category

Cost

Compute	\$676,416.00
Data Center	\$0.00
Networking	\$0.00
Storage	\$248,094.72
IT Labor	\$191,667.05

Total	\$1,116,178.00
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Estimated on-premises cost (5 year(s))

Estimated Azure cost (5 year(s))

Compute cost

Azure compute cost

Hardware cost

Virtual machine density -
Number of virtual cores that
can be created per physical
core 3

Cost per 4 proc 32 core, 2000
GB RAM virtualization server
for Windows \$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 virtualization server
for Linux \$98,785.00

Number of servers needed
for 50 virtual machine(s) - 8
core, 16 GB RAM 2

Total cost for virtualization
server(s) \$395,140.00

Cost of maintaining
virtualization server(s) - 20% of
cost of virtualization server(s) \$79,028.00

Total cost of maintaining
server(s) over five year(s) \$395,140.00

**Total hardware cost over five
year(s) \$790,280.00**

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 \$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 \$5,636.800

**Total Azure Virtual Machines
cost \$676,416.00**

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

Software cost

Cost of Windows datacenter license per 4 proc, 32 core, 2000 GB RAM virtualization server	\$49,240.00
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Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2
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Total software license cost	\$98,480.00
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Total Software Assurance cost	\$24,620.00
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Total software cost over five year(s)	\$123,100.00
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Electricity cost

Price of electricity per kWh	\$0.1334
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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	\$585.64
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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	\$585.64
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Total electricity cost over five year(s)	\$70,276.80
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Virtualization cost

Virtualization software license cost	\$10,144.00
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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	100
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Virtual machine management cost per month	\$2,652.00
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Virtual machine management cost per year	\$31,824.00
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Total virtualization cost over five year(s)	\$169,264.00
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Total cost over five year(s)	\$1,152,920.80
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Total Azure compute cost over five year(s)	\$676,416.00
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Data center cost

Azure data center cost

Compute cost

Number of rack units per rack	42
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Rack units required per 32 core, 2000 GB RAM server	4
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Number of 32 core, 2000 GB RAM server	2
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Total number of rack units required	\$8.00
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Rack units required per 32 core, 2000 GB RAM server	4
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Number of 32 core, 2000 GB RAM server	2
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Total number of rack units required	\$8.00
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Total number of rack units required for all server(s)	\$16.00
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Data center construction cost per rack unit amortized over 20 years	\$302.27
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Data center compute cost	\$4,836.32
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Total Data center compute cost over five year(s)	\$24,181.60
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Storage cost

Total number of rack units required for all storage	60
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Total Azure data center cost over five year(s)	\$0.00
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Number of rack units for DAS or SAN	60
Rack mounting/installation cost	\$18,136.20
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Total Data center storage cost over five year(s)	\$90,681.00
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Total Data center cost over five year(s)	\$114,862.60
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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)	\$913,380.00
Network hardware and software cost assumed to be 15% of hardware and software cost over five year(s)	\$137,007.00
Network maintenance cost assumed to be 15% of network hardware and software cost over five year(s)	\$20,551.05
Service provider cost/GB per month	\$0.15
Amount of bandwidth needed (GB) per month	1
Total service provider cost per month	\$0.15

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

Total networking cost over five year(s)	\$157,567.05
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Total Azure networking cost over five year(s)	\$0.00
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Storage cost

Hardware

Local Disk/SAN-HDD	
Cost per GB	\$0.20
Storage (RAID 10 configuration) volume in GB	61,440

Total storage procurement cost	\$12,288.00
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Backup

Total backup and archive volume in GB	122,880
	HP LTO-7 BB873A
Backup volume per tape in TB	6
Number of Tape drives required	20
Cost per Tape Drive	\$160.00

Backup and Archive cost over five year(s)	\$3,200.00
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Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over five year(s)	\$6,144.00
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Total storage maintenance cost over five year(s)	\$6,144.00
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Total storage cost over five year(s)	\$21,632.00
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Azure storage cost

Page Blob storage

Usable storage volume in GB	30,720
Storage cost per GB/month	\$0.045

Annual storage cost per usable volume	\$16,588.80
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Total Page Blob LRS storage maintenance cost over five year(s)	\$82,944.00
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Backup

Total backup and archive volume in GB	122,880
Storage cost per GB	\$0.0224
	SKU# AAL-31949

Backup and Archive maintenance cost over five year(s)	\$165,150.72
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Total Azure storage cost over five year(s)	\$248,094.72
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IT labor cost

Number of IT admin hour(s) needed per year	1,666.67
Hourly rate for IT administrator	\$23.00

Total IT labor cost over five year(s)	\$191,667.05
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Azure IT labor cost

Number of IT admin hour(s) needed per year	1,666.67
Hourly rate for IT administrator	\$23.00

Total Azure IT labor cost over five year(s)	\$191,667.05
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Total on-premises cost over five year(s)	\$1,638,650.00
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Total Azure cost over five year(s)	\$1,116,178.00
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A total **savings** of **\$522,472.00** with **Microsoft Azure**