

Total Cost of Ownership (TCO) Calculator

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

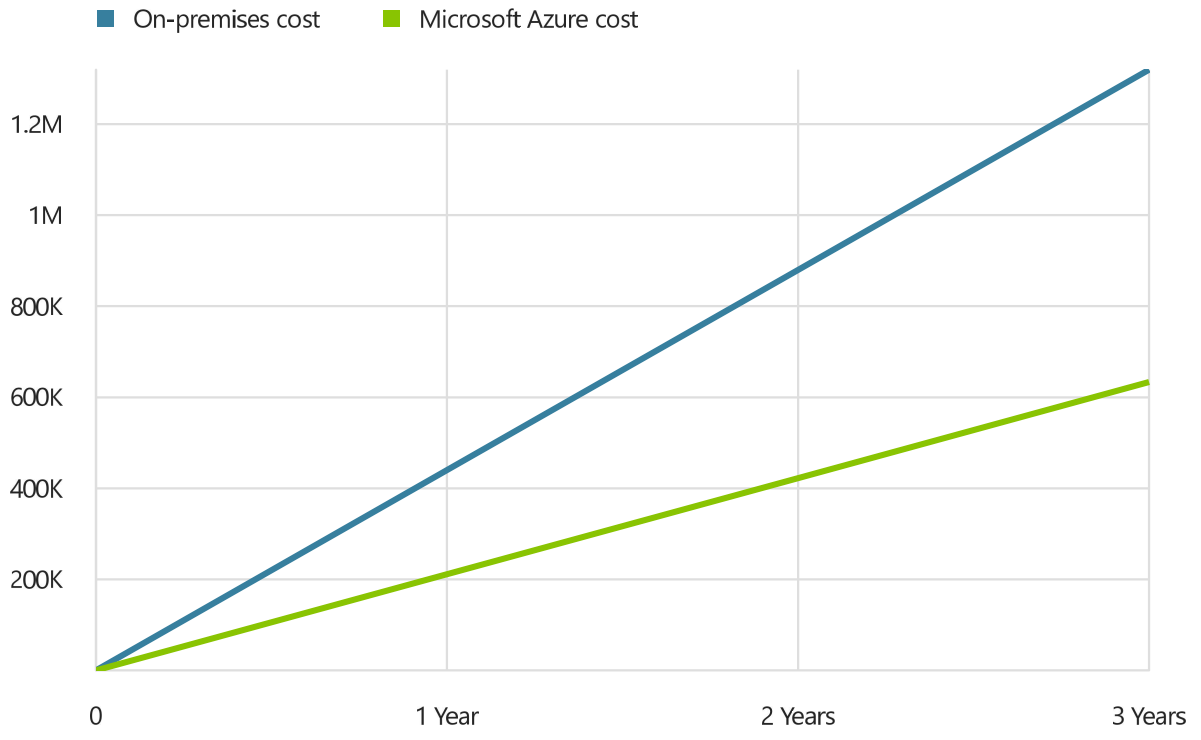
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Over 3 year(s) with Microsoft Azure, your estimated cost savings
could be as much as **\$685,765**

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 3 year(s)

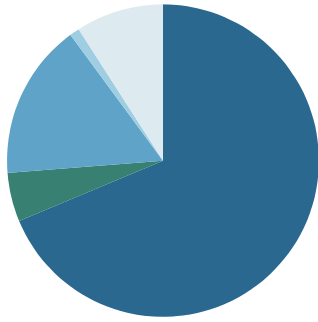
TCO of on-premises environments tends to be driven by compute and data center costs.

Total Azure cost over 3 year(s)

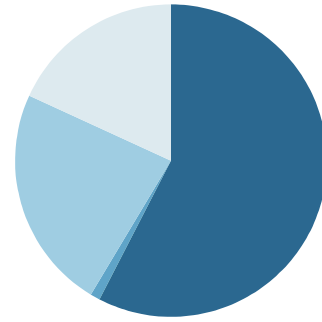
In Azure, certain cost categories decrease or go away completely.

\$1,319,436
Total cost

\$633,671
Total cost = [Chat with Sales](#)



68% Compute
5% Data center
16% Networking
1% Storage
9% IT Labor



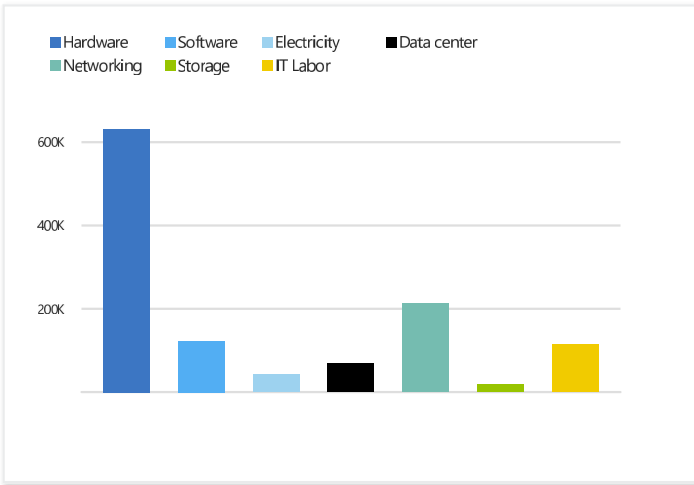
57% Compute
0% Data center
1% Networking
23% Storage
18% IT Labor

Total on-premises cost breakdown

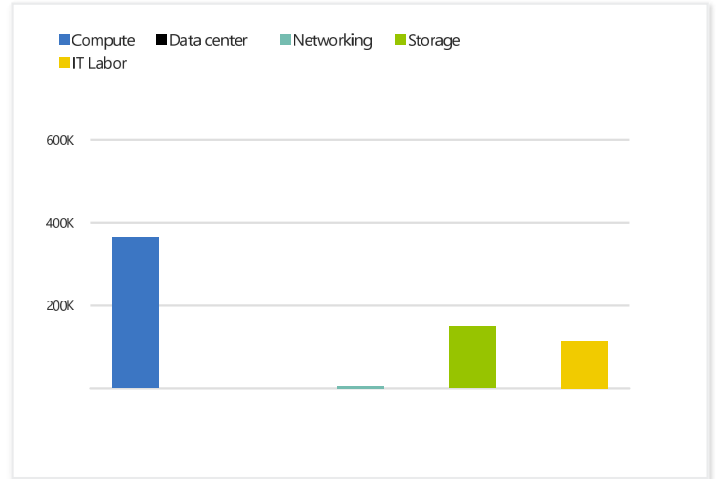
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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.



\$1,319,436
Cost over 3 year(s)



\$633,671
Cost over 3 year(s)

**On-premises cost breakdown
summary**

Azure cost breakdown summary

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Category	Cost
Compute	\$903,106.08
Hardware	\$632,224.00
Software	\$123,100.00
Electricity	\$42,166.08
Virtualization	\$105,616.00
Data Center	\$68,917.56
Networking	\$213,237.39
Storage	\$19,174.40
IT Labor	\$115,000.23

Total	\$1,319,436.00
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Category	Cost
Compute	\$364,284.00
Data Center	\$0.00
Networking	\$5,529.60
Storage	\$148,856.83
IT Labor	\$115,000.23

Total	\$633,671.00
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Estimated on-premises cost (3 year(s))

Estimated Azure cost (3 year(s))

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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 three year(s)	\$237,084.00
Total hardware cost over three year(s)	\$632,224.00

Software cost

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

Azure compute cost

Virtual Machines cost

Number of hours per month	730
F8sv2 Standard (8 core, 16 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAD- 10155
Number of virtual machines	50
Total virtual machine cost per month	\$5,059.50
F8sv2 Standard (8 core, 16 GB RAM) Linux	SKU# AAD- 10188
Number of virtual machines	50
Total virtual machine cost per month	\$5,059.50
Total Azure Virtual Machines cost	\$364,284.00

NOTE: For Azure compute costs, one 3 year
Reserved VM in use.

Total software cost over three 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 three year(s)	\$42,166.08
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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 three year(s)	\$105,616.00
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Total cost over three year(s)	\$903,106.08
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Total Azure compute cost over three year(s)	\$364,284.00
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Data center cost

Azure data center 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	8
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	8
Total number of rack units required for all server(s)	16
Data center construction cost per rack unit amortized over 20 years	\$302.27
Data center compute cost	\$4,836.32
Total Data center compute cost over three year(s)	\$14,508.96

Storage cost

Total number of rack units required for all storage	60
Number of rack units for DAS or SAN	60
Rack mounting/installation cost	\$18,136.20
Total Data center storage cost over three year(s)	\$54,408.60

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

Total Data center cost over three

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Total Data center cost over three year(s) \$68,917.56

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

Networking cost

Azure networking cost

Total hardware + software cost over three year(s) \$755,324.00

Network hardware and software cost assumed to be 15% of hardware and software cost over three year(s) \$113,298.60

Network maintenance cost assumed to be 15% of network hardware and software cost over three year(s) \$16,994.79

Service provider cost/GB per month \$0.15

Amount of bandwidth needed (GB) per month 15,360

Total service provider cost per month \$2,304.00

Total outgoing bandwidth needed per month 15 TB

Total outgoing bandwidth cost per month \$153.60

Total networking cost over three year(s) \$213,237.39

Total Azure networking cost over three year(s) \$5,529.60

Storage cost

Azure storage cost

Hardware

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

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**

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 three year(s)	\$3,200.00
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Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over three year(s)	\$3,686.40
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Total storage maintenance cost over three year(s)	\$3,686.40
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Total storage cost over three year(s)	\$19,174.40
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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 Page Blob LRS storage maintenance cost over three year(s)	\$49,766.40
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Backup

Total backup and archive volume in GB	122,880
Storage cost per GB	\$0.0224
	SKU# AAA-70203

Backup and Archive maintenance cost over three year(s)	\$99,090.43
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Total Azure storage cost over three year(s)	\$148,856.83
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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

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Total IT labor cost over three
year(s) \$115,000.23

Total Azure IT labor cost over
three year(s) \$115,000.23

Total on-premises cost over three
year(s) \$1,319,436.00

Total Azure cost over three
year(s) \$633,671.00

A total **savings** of **\$685,765.00** with **Microsoft Azure**

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