

Total Cost of Ownership (TCO) Calculator

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

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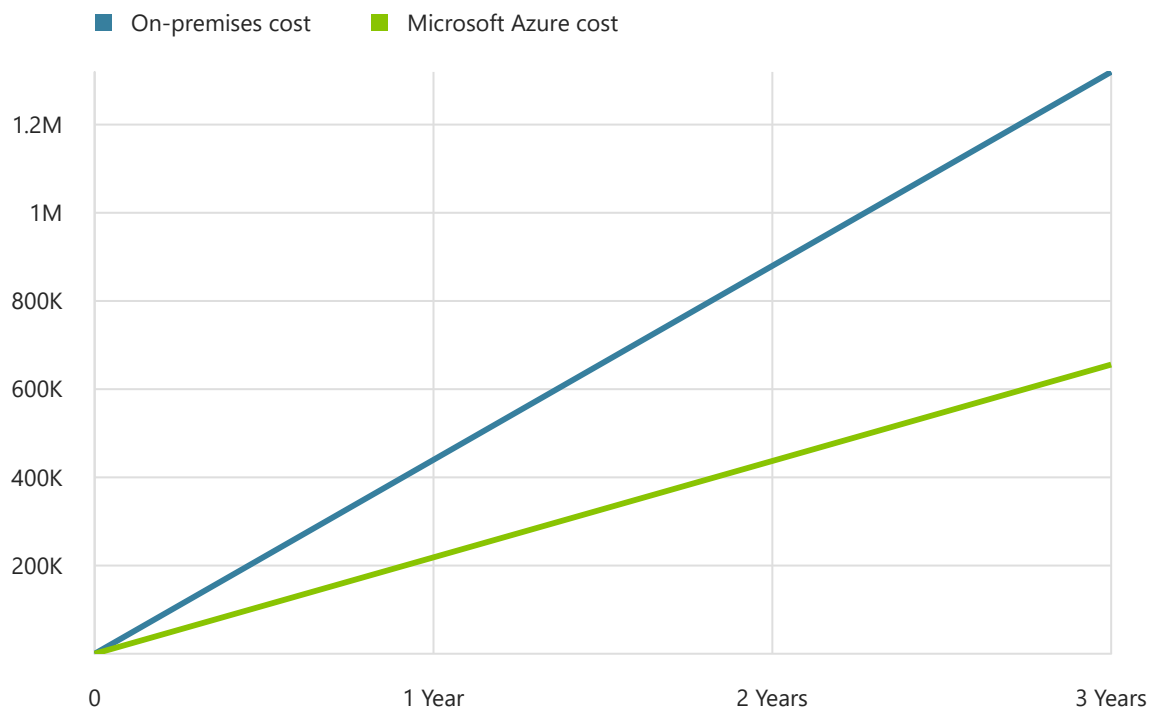
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Over 3 year(s) with Microsoft Azure, your estimated cost savings
could be as much as **\$663,656**

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 3 year(s)

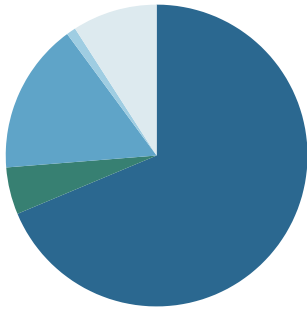
TCO of on-premises environments tends to be driven by compute and data center costs.

\$1,319,436
Total cost

Total Azure cost over 3 year(s)

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

\$655,780
Total cost



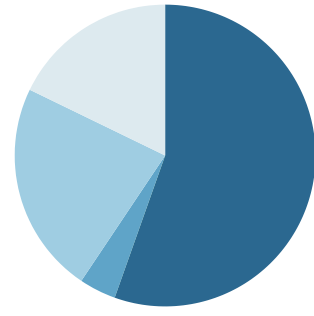
68%
Compute

5%
Data center

16%
Networking

1%
Storage

9%
IT Labor



56%
Compute

0%
Data center

4%
Networking

23%
Storage

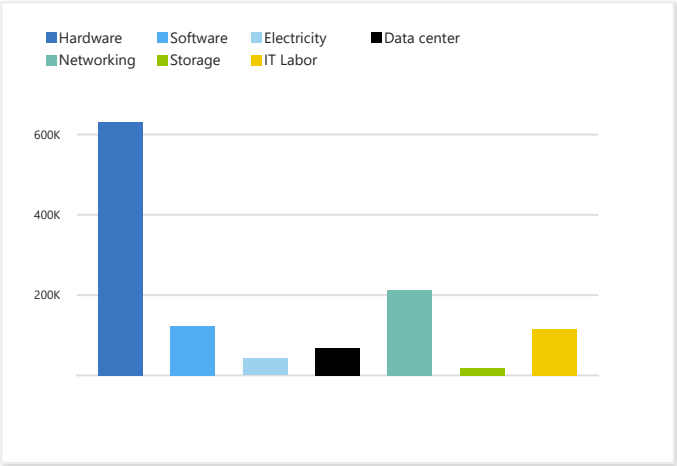
18%
IT Labor

Total on-premises cost breakdown

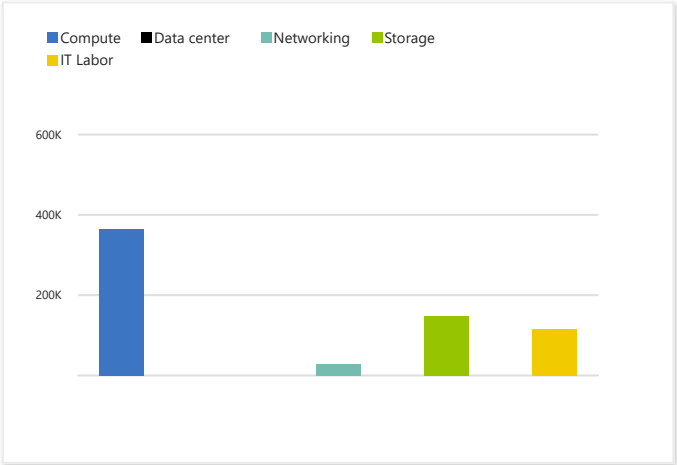
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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)



\$655,780
Cost over 3 year(s)

On-premises cost breakdown
summary

Azure cost breakdown summary

Category	Cost
Compute	\$903,106.08

Category	Cost
Compute	\$903,106.08

Hardware	\$632,224.00	Compute	\$364,284.00
Software	\$123,100.00		
Electricity	\$42,166.08	Data Center	\$0.00
Virtualization	\$105,616.00	Networking	\$27,639.00
Data Center	\$68,917.56	Storage	\$148,856.83
Networking	\$213,237.39	IT Labor	\$115,000.23
Storage	\$19,174.40		
IT Labor	\$115,000.23		

Total	\$1,319,436.00	Total	\$655,780.00
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Estimated on-premises cost (3 year(s))

Estimated Azure cost (3 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 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

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
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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
Power rating of 32 core, 2000 GB RAM server	3,006.9 Watts
Total electricity cost for 2 server(s) - 32 core, 2000 GB RAM server per month	\$585.64
Power rating of 32 core, 2000 GB RAM server	3,006.9 Watts
Total electricity cost for 2 server(s) - 32 core, 2000 GB RAM server per month	\$585.64

Total electricity cost over three year(s)	\$42,166.08
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Virtualization cost

Virtualization software license cost	\$10,144.00
Per virtual machine, per month, cost to load balance, backup and patch virtual machines	\$26.52
Number of virtual machines	100
Virtual machine management cost per month	\$2,652.00
Virtual machine management cost per year	\$31,824.00

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 Data center cost over three year(s)	\$68,917.56
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Total Azure data center cost over three year(s)	\$0.00
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Total Azure data center cost over three year(s)	\$0.00
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Networking cost

Azure networking cost

Total hardware + software cost over three year(s)	\$755,324.00
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Network hardware and software cost assumed to be 15% of hardware and software cost over three year(s)	\$113,298.60
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Network maintenance cost assumed to be 15% of network hardware and software cost over three year(s)	\$16,994.79
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Service provider cost/GB per month	\$0.15
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Amount of bandwidth needed (GB) per month	15,360
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Total service provider cost per month	\$2,304.00
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Total outgoing bandwidth needed per month	15 TB
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Total outgoing bandwidth cost per month	\$767.75
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Total networking cost over three year(s)	\$213,237.39
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Total Azure networking cost over three year(s)	\$27,639.00
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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	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 IT labor cost over three	\$115,000.00
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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# AAL-31836

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

year(s)	\$115,000.23	Total Azure IT labor cost over three year(s)	\$115,000.23
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Total on-premises cost over three year(s)	\$1,319,436.00	Total Azure cost over three year(s)	\$655,780.00
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A total **savings** of **\$663,656.00** with **Microsoft Azure**