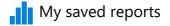
Total Cost of Ownership (TCO) Calculator

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

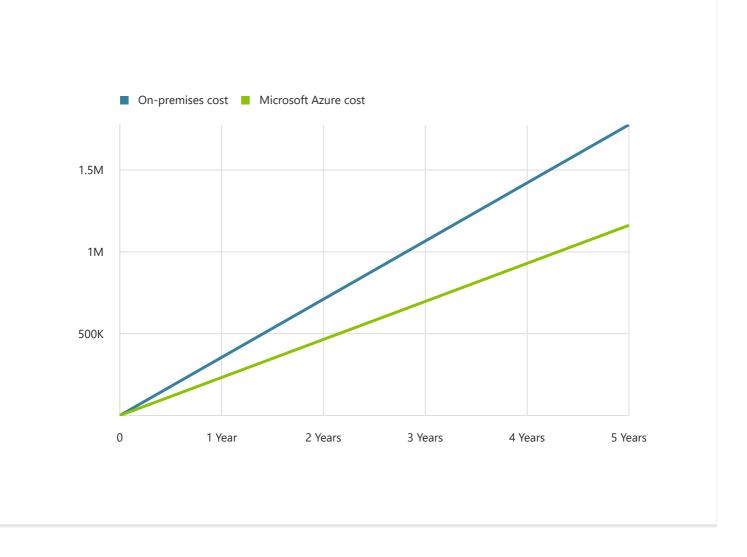




Over 5 year(s) with Microsoft Azure, your estimated cost savings could be as much as \$614,638

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 5 year(s)

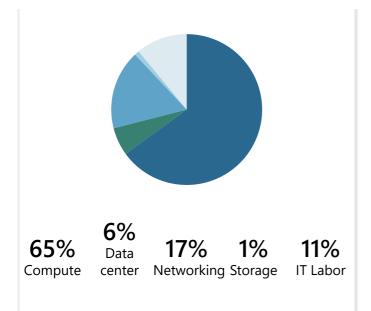
TCO of on-premises environments tends to be driven by compute and data center costs.

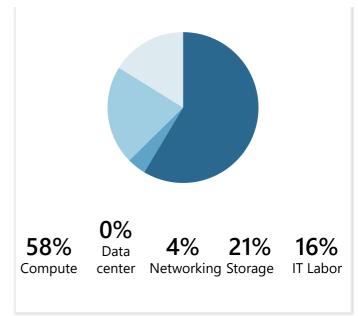
Total Azure cost over 5 year(s)

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

\$1,776,881 Total cost

\$1,162,243 Total cost



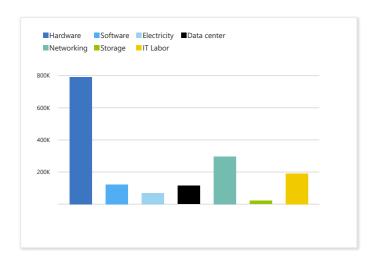


Total on-premises cost breakdown

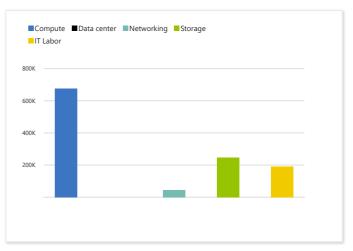
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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.



\$1,776,881 Cost over 5 year(s)



\$1,162,243 Cost over 5 year(s)

On-premises cost breakdown summary

Azure cost breakdown summary

Category	Cost
Compute	\$1,152,920.80

Category	Cost
----------	------

\$790,280.00	Compute	\$676,416.00
\$123,100.00 \$70,276.80	Data Center	\$0.00
\$169,264.00	Networking	\$46,065.00
\$114,862.60	Storage	\$248,094.72
\$295,798.05	IT Labor	\$191,667.05
\$21,632.00		
\$191,667.05		
	\$123,100.00 \$70,276.80 \$169,264.00 \$114,862.60 \$295,798.05 \$21,632.00	\$123,100.00 \$70,276.80 \$169,264.00 Data Center Networking \$114,862.60 Storage \$295,798.05 IT Labor \$21,632.00

Total	\$1,776,881.00	
		Total

Estimated on-premises cost (5 year(s))

Estimated Azure cost (5 year(s))

\$1,162,243.00

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 Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	\$98,785.00 2
Cost per 4 proc 32 core, 2000 GB RAM virtualization server for Linux Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	\$98,785.00 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

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

Total Azure Virtual Machines \$676,416.00

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

Total software cost over five year(s)	\$123,100.00
Electricity cost	
Price of electricity per kWh	\$0.1334
Power rating of 32 core, 2000 GB RAM server Total electricity cost for 2	3,006.9 Watts
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
	\$70,276.80
year(s)	\$70,276.80
Virtualization cost Virtualization software license	
Total electricity cost over five year(s) Virtualization cost Virtualization software license cost Per virtual machine, per month, cost to load balance, backup and patch virtual machines	\$70,276.80 \$10,144.00 \$26.52
Virtualization cost Virtualization software license cost Per virtual machine, per month, cost to load balance, backup and patch virtual	\$10,144.00
Virtualization cost Virtualization software license cost Per virtual machine, per month, cost to load balance, backup and patch virtual machines Number of virtual machines Virtual machine management	\$10,144.00 \$26.52
Virtualization cost Virtualization software license cost Per virtual machine, per month, cost to load balance, backup and patch virtual machines	\$10,144.00 \$26.52

Total cost over five year(s) \$1,152,920.80 -

Total Azure compute cost over five year(s)

\$676,416.00

Azure data center cost

Compute cost		
Number of rack units per rack	42	Total
Rack units required per 32 core, 2000 GB RAM server Number of 32 core, 2000 GB RAM server Total number of rack units required	4 2 \$8.00	Over
Rack units required per 32 core, 2000 GB RAM server Number of 32 core, 2000 GB RAM server Total number of rack units required	4 2 \$8.00	
Total number of rack units required for all server(s)	\$16.00	
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 five year(s)	\$24,181.60	
Storage cost		
Total number of rack units required for all storage Number of rack units for DAS or SAN	60 60	
Rack mounting/installation cost	\$18,136.20	
Total Data center storage cost over five year(s)	\$90,681.00	

otal Azure data center cost \$0.00 sver five year(s)

Total Data center cost over five \$114,862.60 year(s)

Networking cost

Azure networking cost

year(s)	\$295,798.05	Total Azure networking cost over five year(s)	\$46,065.00
Total networking cost over fiv	/e #205 700 05		
Total service provider cost per month	\$2,304.00		
month Amount of bandwidth needed (GB) per month	15,360		
Service provider cost/GB per	\$0.15		
Network maintenance cost assumed to be 15% of network hardware and software cost over five year(s)	\$20,551.05	per month	φι οι .13
software cost assumed to be 15% of hardware and software cost over five year(s)	\$137,007.00	Total outgoing bandwidth needed per month Total outgoing bandwidth cost	15 TB \$767.75
Network hardware and		_ ,	
Total hardware + software cost over five year(s)	\$913,380.00		

Storage cost

Azure storage cost

	-		
на	rn	wa	re

Local Disk/SAN-HDD Cost per GB Storage (RAID 10 configuration) volume in GB	\$0.20 61,440
Total storage procurement cost	\$12,288.00

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 Page Blob LRS storage	¢02.044.00
Total backup and archive volume in GB	122,880	maintenance cost over five year(s)	\$82,944.00
	HP LTO-7 BB873A	D. d.	
Backup volume per tape in	6	Backup	
TB Number of Tape drives required	20	Total backup and archive volume in GB	122,880
Cost per Tape Drive	\$160.00	Storage cost per GB	\$0.0224
Backup and Archive cost over five year(s)	\$3,200.00		SKU# AAL- 31949
Storage Maintenance		Backup and Archive maintenance cost over five year(s)	\$165,150.72
Storage maintenance cost (10% of storage procurement cost) over five year(s)	\$6,144.00	•	
Total storage maintenance cost over five year(s)	\$6,144.00		
Total storage cost over five year(s)	\$21,632.00	Total Azure storage cost over five year(s)	\$248,094.72
	\$21,632.00		\$248,094.72
year(s)	\$21,632.00 1,666.67 \$23.00	five year(s)	\$248,094.72 1,666.65 \$23.00

Total on-premises cost over five year(s)

\$1,776,881.00

Total Azure cost over five year(s) \$1,162,243.00

A total savings of \$614,638.00 with Microsoft Azure