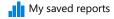
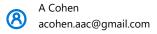
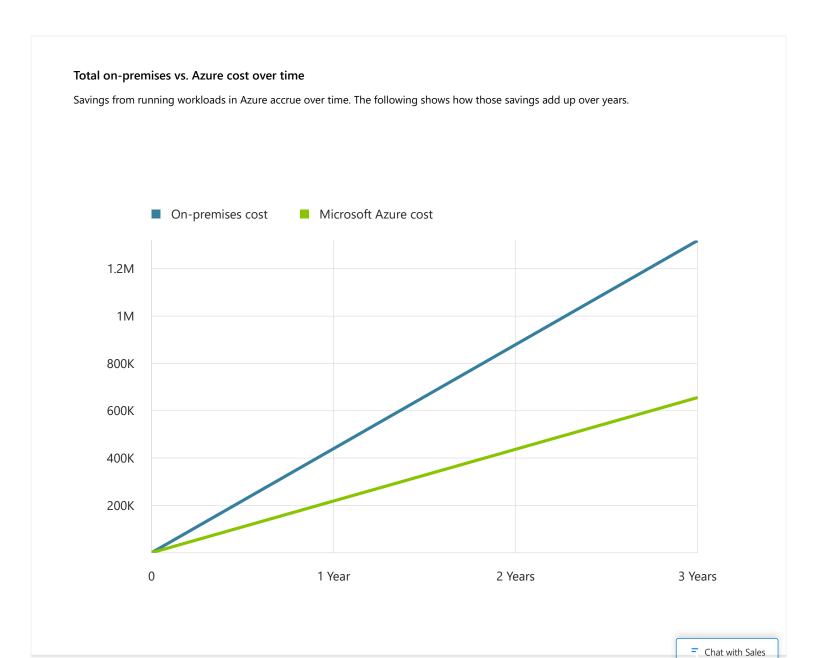
Total Cost of Ownership (TCO) Calculator

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





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

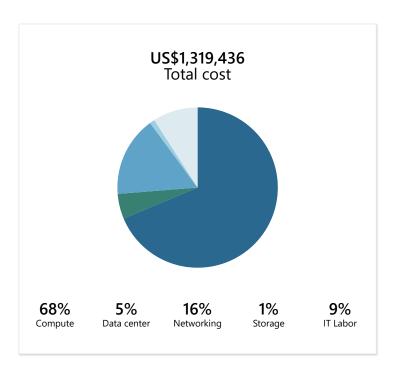


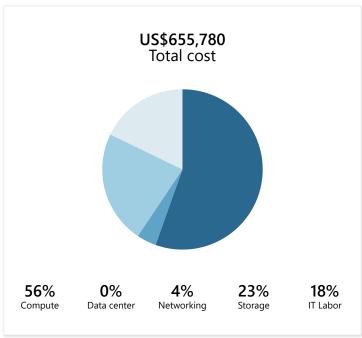
Total on-premises over 3 year(s)

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.



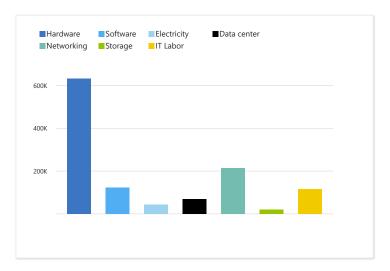


Total on-premises cost breakdown

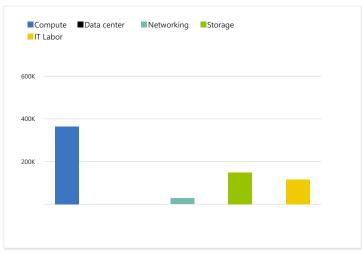
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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.



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



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

On-premises cost breakdown summary

Azure cost breakdown summary

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

Category	Cost
Compute	US\$364,284.00
Data Center	US\$0.00
Networking	US\$27,639.00
Storage	US\$148,856.83

Total	US\$1,319,436.00
lotai	US\$1,519,450.UU

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

Estimated Azure cost (3 year(s))

Compute cost

Hardware cost

Software cost

Azure compute cost

Total hardware cost over three year(s)	US\$632.224.00
Total cost of maintaining server(s) over three year(s)	US\$237,084.00
Cost of maintaining virtualization server(s) - 20% of cost of virtualization server(s)	US\$79,028.00
Total cost for virtualization server(s)	US\$395,140.00
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	US\$98,785.00 2
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	US\$98,785.00 2
Virtual machine density - Number of virtual cores that can be created per physical core	3

Virtual Machines cost

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

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

Cost of Windows datacenter license per 4 proc,	US\$49,240.00	
32 core, 2000 GB RAM virtualization server Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2	
Total software license cost	US\$98,480.00	
Total Software Assurance cost	US\$24,620.00	
Total software cost over three year(s)	US\$123,100.00	
Electricity cost		
Price of electricity per kWh	US\$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	US\$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	US\$585.64	
Total electricity cost over three year(s)	US\$42,166.08	
Virtualization cost		
Virtualization software license cost	US\$10,144.00	
Per virtual machine, per month, cost to load balance, backup and patch virtual machines	US\$26.52	
Number of virtual machines	100	
Virtual machine management cost per month	US\$2,652.00	
Virtual machine management cost per year US\$31,8		
Total virtualization cost over three year(s)	US\$105,616.00	

Total Azure compute cost over three year(s)	
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Total Azure data center cost over three year(s)

US\$364,284.00

US\$0.00

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

Data center compute cost	US\$4,836.32		
Total Data center compute cost over three year(s)	US\$14,508.96		
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	US\$18,136.20		
Total Data center storage cost over three year(s)	US\$54,408.60		
Total Data center cost over three year(s)	US\$68,917.56	_	
		Total Azure data center cost over three year(s)	US\$0.00
Networking cost			
		Azure networking cost	
Total hardware + software cost over three year(s) Network hardware and software cost assumed to be 15% of hardware and software cost over three year(s)	US\$755,324.00 US\$113,298.60		
Network maintenance cost assumed to be 15% of network hardware and software cost over three year(s)	US\$16,994.79	Total outgoing bandwidth needed per month Total outgoing bandwidth cost per month	15 TB US\$767.75
Service provider cost/GB per month Amount of bandwidth needed (GB) per month	US\$0.15 15,360		
Total service provider cost per month	US\$2,304.00		
Total networking cost over three year(s)	US\$213,237.39	-	
		Total Azure networking cost over three year(s)	US\$27,639.00
Storage cost			
		Azure storage cost	
Hardware			
Local Disk/SAN-HDD Cost per GB Storage (RAID 10 configuration) volume in GB	US\$0.20 61,440	Page Blob storage	
Total storage procurement cost	US\$12,288.00	Usable storage volume in GB Storage cost per GB/month	30,720 US\$0.045

Backup		Annual storage cost per usable volume	
Total backup and archive volume in GB	122,880 HP LTO-7 BB873A	Total Page Blob LRS storage maintenance cost over three year(s)	US\$49,766.40
Backup volume per tape in TB Number of Tape drives required Cost per Tape Drive	6 20 US\$160.00	Backup	
Backup and Archive cost over three year(s)	US\$3,200.00	Total backup and archive volume in GB	122,880
sackup and Archive cost over three year(s)		Storage cost per GB	US\$0.0224 SKU# AAL-31836
Storage Maintenance			
Storage maintenance cost (10% of storage procurement cost) over three year(s)	US\$3,686.40	Backup and Archive maintenance cost over three year(s)	US\$99,090.43
otal storage maintenance cost over three rear(s)	US\$3,686.40		
Total storage cost over three year(s)	US\$19,174.40		
		Total Azure storage cost over three year(s)	US\$148,856.83
IT labor cost		Azure IT Jahor cost	
IT labor cost		Azure IT labor cost	
	1,666.67 US\$23.00	Azure IT labor cost	
Number of IT admin hour(s) needed per year		Azure IT labor cost Number of IT admin hour(s) needed per year Hourly rate for IT administrator	
Number of IT admin hour(s) needed per year Hourly rate for IT administrator		Number of IT admin hour(s) needed per year	1,666.67 US\$23.00
Number of IT admin hour(s) needed per year Hourly rate for IT administrator	US\$23.00	Number of IT admin hour(s) needed per year	US\$23.00
Number of IT admin hour(s) needed per year	US\$23.00	Number of IT admin hour(s) needed per year Hourly rate for IT administrator	
Number of IT admin hour(s) needed per year Hourly rate for IT administrator	US\$23.00	Number of IT admin hour(s) needed per year Hourly rate for IT administrator	US\$23.00