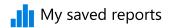
Total Cost of Ownership (TCO) Calculator

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

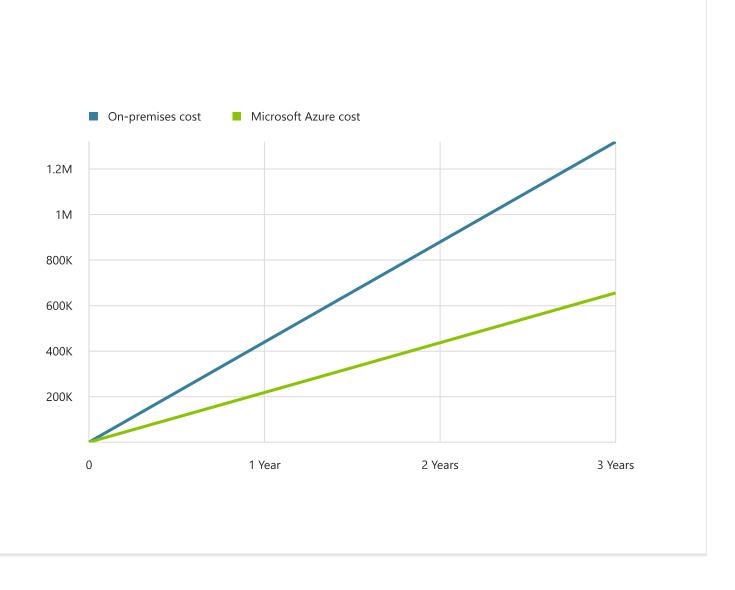




Over 3 year(s) with Microsoft Azure, your estimated cost savings could be as much as US\$663,656

Total on-premises 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 3 year(s)

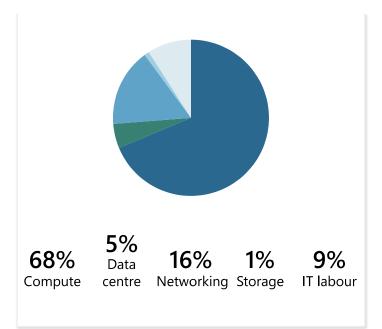
TCO of on-premises environments tends to be driven by compute and data centre costs.

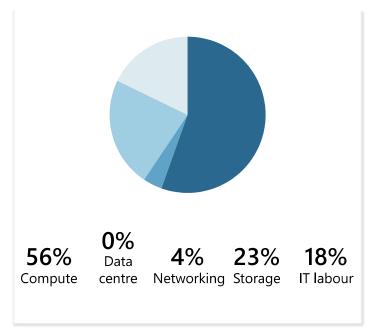
Total Azure cost over 3 year(s)

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

US\$1,319,436 Total cost

US\$655,780 Total cost



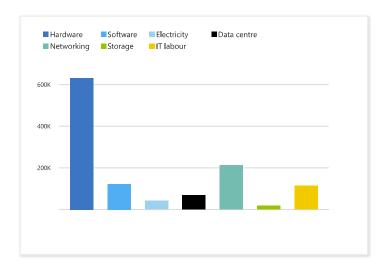


Total on-premises cost breakdown

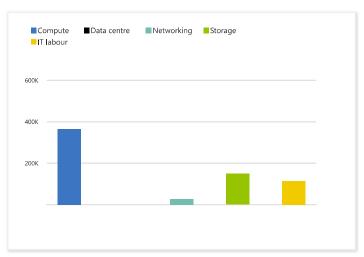
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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.



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 Virtualisation	US\$903,106.08 US\$632,224.00 US\$123,100.00 US\$42,166.08 US\$105,616.00
Data centre	US\$68,917.56
Networking	US\$213,237.39
Storage	US\$19,174.40
IT labour	US\$115,000.23

Category	
Compute	US\$364,284.00
Data centre	US\$0.00
Networking	US\$27,639.00
Storage	US\$148,856.83
IT labour	US\$115,000.23

Total	US\$1,319,436.00	
	 Total	US\$655,780.00

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 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 Linux Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	US\$98,785.00 2
Total cost for virtualisation server(s)	US\$395,140.00
Cost of maintaining virtualisation server(s) – 20% of cost of virtualisation server(s)	f US\$79,028.00

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

Total Azure Virtual Machines uS\$364,284.00

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

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

US\$237,084.00

Total cost of maintaining

server(s) over three year(s)

Software cost

Cost of Windows datacenter licence per 4 proc, 32 core, 2000 GB RAM virtualisation server	US\$49,240.00
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2
Total software licence cost	US\$98,480.00
Total Software Assurance cost	US\$24,620.00
Total software cost over three year(s)	US\$123,100.0
Electricity cost	
Price of electricity per kWh	US\$0.1334
Power rating of 32 core, 2000 GB RAM server Total electricity cost for 2 server(s) - 32 core, 2000 GB RAM server per month	3,006.9 Watts US\$585.64
Power rating of 32 core, 2000 GB RAM server Total electricity cost for 2 server(s) - 32 core, 2000 GB RAM server per month	3,006.9 Watts US\$585.64
Total electricity cost over three year(s)	US\$42,166.08
Virtualisation cost	
Virtualisation software licence 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\$31,824.00

Total cost over three year(s)

US\$903,106.08₋

Total Azure compute cost over US\$364,284.00 three year(s)

Data centre cost

Azure data centre cost

Compute cost

Number of rack units per rack 42 Rack units required per 32 core, 2000 GB RAM server Number of 32 core, 2000 GB 2 RAM server Total number of rack units US\$8.00 required Rack units required per 32 4 core, 2000 GB RAM server Number of 32 core, 2000 GB 2 RAM server Total number of rack units US\$8.00 required Total number of rack units US\$16.00 required for all server(s) Data centre construction cost per rack unit amortised over 20 US\$302.27 years US\$4,836.32 Data centre compute cost Total data centre compute US\$14,508.96 cost over three year(s)

Storage cost

Total number of rack units required for all storage

60

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

Number of rack units for DAS 60 or SAN		
Rack mounting/installation US\$18,136.20		
Total data centre storage cost US\$54,408.60 over three year(s)		
Total data centre cost over three US\$68,917.56 — ——————————————————————————————————	Total Azure data centre 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\$113,298.60	Total outgoing bandwidth needed per month Total outgoing bandwidth cost	15 TB
Network maintenance cost assumed to be 15% of network us\$16,994.79 hardware and software cost over three year(s)	per month	US\$767.75
Service provider cost/GB per month Amount of bandwidth needed (GB) per month US\$0.15		
Total service provider cost per month US\$2,304.00		
Total networking cost over three US\$213,237.39-year(s)	Total Azure networking cost over three year(s)	US\$27,639.00

Azure storage cost

Hardware			
Local Disk/SAN-HDD Cost per GB	US\$0.20	Page Blob storage	
Storage (RAID 10 configuration) volume in GB	61,440	Usable storage volume in GB Storage cost per GB/month	30,720 US\$0.045
Total storage procurement cost	US\$12,288.00	Annual storage cost per usable volume	US\$16,588.80
Back up		Total Page Blob LRS storage maintenance cost over three year(s)	US\$49,766.40
Total backup and archive volume in GB	122,880		
volume in Gb	HP LTO-7 BB873A	Back up	
Backup volume per tape in TB	6	Total backup and archive	122,880
Number of Tape drives required	20	volume in ĠB	,
Cost per Tape Drive	US\$160.00	Storage cost per GB	US\$0.0224
			SKU# AAL- 31836
Backup and Archive cost over three year(s)	US\$3,200.00		
Storage Maintenance		Backup and Archive maintenance cost over three year(s)	US\$99,090.43

US\$3,686.40

US\$3,686.40

Total storage cost over three	US\$19,174.40
year(s)	03\$13,174.40

Storage maintenance cost (10% of storage procurement cost) over three year(s)

Total storage maintenance cost over three year(s)

Total Azure storage cost over three year(s) US\$148,856.83

IT labour cost

Azure IT labour cost

Number of IT admin hour(s) needed per year Hourly rate for IT administrator

1,666.67

US\$23.00

Number of IT admin hour(s) needed per year Hourly rate for IT administrator

1,666.67

US\$23.00

Total IT labour cost over three year(s)

US\$115,000.23-

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

Total on-premises cost over three

year(s)

US\$1,319,436.00

Total Azure cost over three year(s)

US\$655,780.00

A total savings of US\$663,656.00 with Microsoft Azure