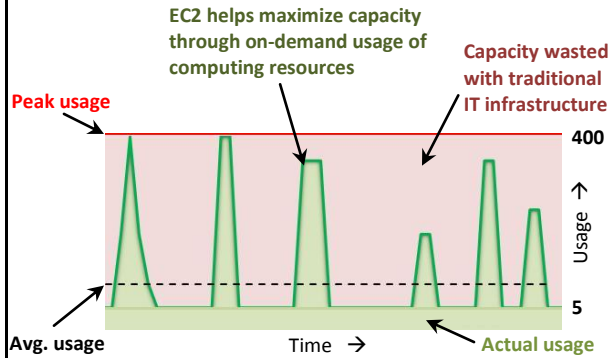


High-Performance Computing

Use Case: Very low steady state usage, with occasional demand for large amounts of computing resources. Traditional IT infrastructure models necessitate having sufficient capacity on reserve to handle peak usage levels.



Assumptions

- » 5 servers running constantly at 100% full capacity
- » 400 servers utilized as needed for compute intensive projects, with average annual utilization of only 10%
- » 5 GB average monthly data transfer “in” and 15 GB average monthly data transfer “out” per instance
- » Region: US East (Northern Virginia)
- » Operating System: Linux/Unix

Note: These assumptions are used for demonstration purposes only. You may input your own assumptions in the Amazon EC2 Cost Comparison Calculator for an accurate cost comparison based on your own use case and computing needs.

Co-Located Data Center		Amazon EC2*	
	<u>Annual Cost</u>		<u>Annual Cost</u>
Server Hardware	\$49,005	Instance Hours	\$33,415
Network Hardware	\$9,801	Data Transfer	\$1,215
Hardware Maintenance	\$17,642		
Co-Location Expense	\$504,187		
Remote Hands Support	\$6,075		
Data Transfer	\$2,686		
Total	\$589,395	Total	\$35,061

*Amazon EC2 costs are calculated based on the On-Demand pricing structure. Further savings may be possible by using Reserved Instances.

