CS553 Project Report on:

Understanding the Cost of Computing in the Cloud

Project Members:
Abhilesh Patil (A20379723)
Raj Kotak (A20375501)
Venkatesh Tahiliani (A20375149)

Note: - I have considered Double Precision value while calculating GFlops/TFlops for configurations 1 & 2.

Configuration 1

Public Cloud: Computing cost/hr for different combinations of instance & storage utilizations.

| Config. No | Instance. Count | Util. | Inst. | Stor. Util(PB) | Stor. | Stor. | Inst. | Total Cost / hour | Cost/hr/Gflop In $(USD) |
		Gflops	Util		Util(%)	Cost/hr in $(USD)	Cost/hr In $(USD)	In $(USD)	(Stor+Inst)
1	1050	13.824	1%	10	10%	291.67	57.96	349.63	25.29152199
2	1050	69.12	5%	15	15%	437.5	289.8	727.3	10.52228009
3	1050	345.6	25%	25	25%	729.17	1449	2178.17	6.302575231
4	1050	691.2	50%	25	25%	729.17	2898	3627.17	5.247641782
5	1050	1036.8	75%	25	25%	729.17	4347	5076.17	4.895997299
6	1050	1382.4	100%	25	25%	729.17	5796	6525.17	4.720175058
7	1050	345.6	25%	50	50%	1458.34	1449	2907.34	8.41244213
8	1050	691.2	50%	50	50%	1458.34	2898	4356.34	6.302575231
9	1050	1036.8	75%	50	50%	1458.34	4347	5805.34	5.599286265
10	1050	1382.4	100%	50	50%	1458.34	5796	7254.34	5.247641782
11	1050	345.6	25%	75	75%	2187.51	1449	3636.51	10.52230903

12	1050	691.2	50%	75	75%	2187.51	2898	5085.51	7.35750868 1
13	1050	1036.8	75%	75	75%	2187.51	4347	6534.51	6.30257523 1
14	1050	1382.4	100%	75	75%	2187.51	5796	7983.51	5.77510850 7
15	1050	345.6	25%	100	100%	2916.68	1449	4365.68	12.6321759 3
16	1050	691.2	50%	100	100%	2916.68	2898	5814.68	8.41244213
17	1050	1036.8	75%	100	100%	2916.68	4347	7263.68	7.00586419 8
18	1050	1382.4	100%	100	100%	2916.68	5796	8712.68	6.30257523 1

Total cost of 5 years 24/7 utilization: $381615384

Private Cloud

Hardware and other factors:

	Description	Price Per Item ($)	Quantity	Total ($)
CPU	Intel Xeon e5-2676 v3 @ 2.40ghz	5400	1051	5675400
Memory	DELL 64GB DDR4 PC4-19200 2400MHz ECC REGISTERED RDIMM for Dell PowerEdge T630 Server	798	4200	3351600
Disk	Seagate Enterprise Capacity 3.5" HDD 8TB 7200 RPM 512e SAS 12Gb/s Internal Hard Drive	289	6300	1820700
Motherboard	ASUS Z10PE-D16 SSI EEB Server Motherboard Dual LGA 2011 R3	490	1051	514500

Network Switches	Mellanox Switch IB-2™ InfiniBand EDR 100Gb/s Switches	11480.4	32	367372.8
Network Adaptor	Mellanox ConnectX-4 VPI MCX455A-ECAT - Network adapter - PCIe 3.0 x16 - InfiniBand, 100 Gigabit Ethernet	640.99	32	20511.68
Network Cables	Belkin A3L791-14-BLU 14 ft. Cat 5E Blue Network Cable	8	1086	8688
Racks	iStarUSA WD-1045 10U 450mm Depth Simple Server Rack	228	105	23940
Storage Servers	HGST 4U 60 Bay JBOD with 60 * 12TB Helium SAS SSD	44250	139	6150750
Administration	one admin/1000 instances	110000	2	1100000
Electric Power	5year cost 24hr processing. power consumed/cpu: 120 watts/hr Chicago Avg rate: 7.14 cents/kWh			1182127
Cooling	Power Required for 5 years and 24 hrs a day. Illinois charges 7.14 Cents/ 1 kilo-watt			1181099
Total	N/A	N/A	N/A	**21396688.48**

Private Cloud: Computing cost/hr for different combinations of utilizations.

Confi g. No	Instanc e. Count	Util. (32 IPC) Gflop s	Inst. Util(%)	Stor. Util(P B)	Stor. Util(%)	Stor. Cost/h r In $(USD)	Inst. Cost/hr In $(USD)	Total Cost/hr In $(USD)	Cost/hr/Gfl op (Stor+Inst) In $(USD)
1	1051	345.6	25%	100	100%	140.43	122.12721 74	262.5572 17	0.7597141 71
2	1051	691.2	50%	100	100%	140.43	244.25443 47	384.6844 35	0.5565457 68
3	1051	1036. 8	75%	100	100%	140.43	366.38165 21	506.8116 52	0.4888229 67
4	1051	1382. 4	100%	100	100%	140.43	488.50886 94	628.9388 69	0.4549615 66

Public Vs Private Break-Even Graph:
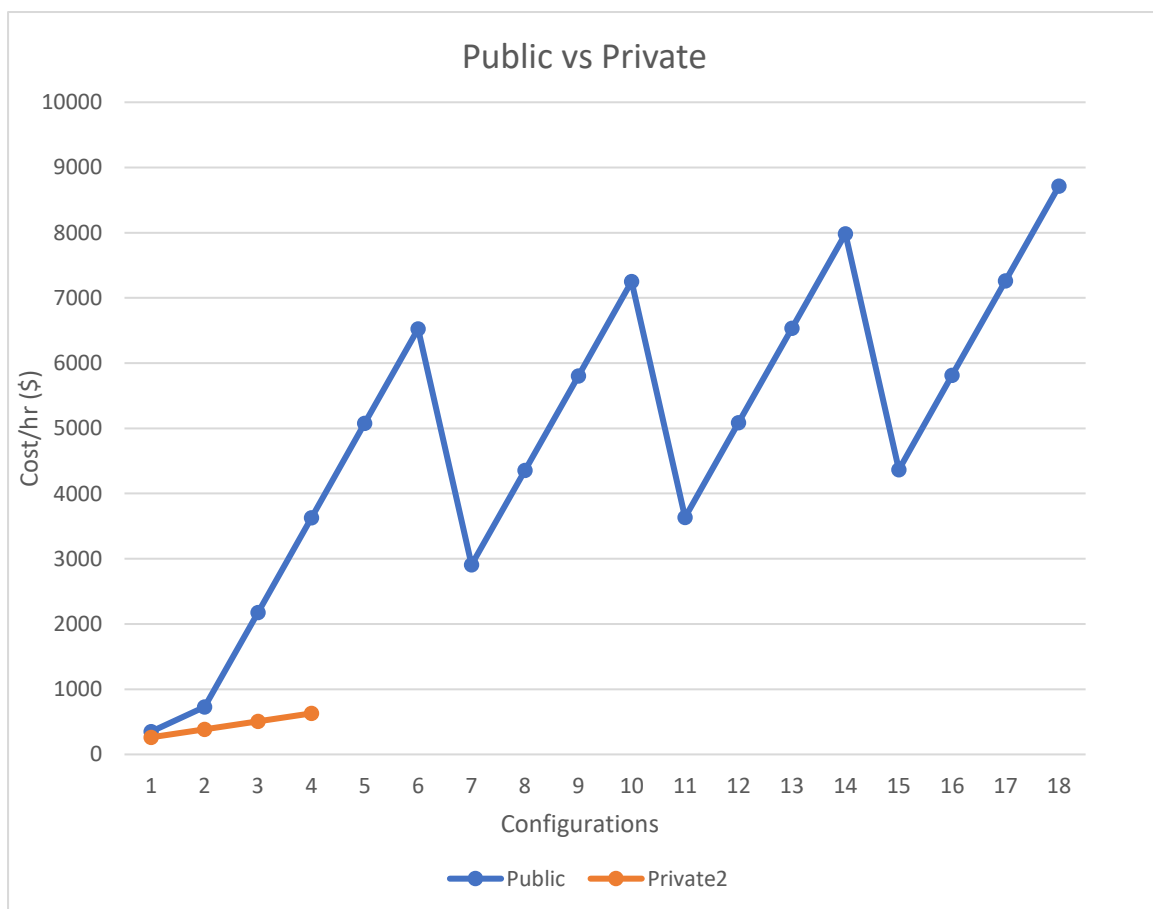
Above graph represents the break-even between the public and the private clouds in term of different configurations and their respective cost/hr. For public cloud, there are 16 configurations which comprises of combinations of different instance (1%, 5%, 25%, 50%, 75%, 100%) and storage (10%, 15%, 25%, 50%, 75%, 100%) utilizations, while for private cloud there are 4 configurations which comprises of different utilizations (25%, 50%, 75, 100%).

The public cloud has a cost/hr of $727.3 for 5% instance utilisation and 15% storage utilisation, while the private cloud has a cost.hr of $628.94 for 100% utilisation. So, if we are using a public cloud for 5 years with more than 5% instance utilisation and 15% storage utilisation that it will cost more than private cloud providing 100% utilisation. Hence, this is the break-even point.

Configuration 2

Public Cloud: Computing cost/hr for different combinations of instance & storage utilizations.

Config. No	Instance. Count	Util. Gflops	Inst. Util	Stor. Util(PB)	Stor. Util	Stor. Cost/hr In $(USD)	Inst. Cost/hr In $(USD)	Total cost/hr In $(USD)	Cost/hr/Gflop (Stor+Inst) In $(USD)
1	10,00,000	5	5%	2.5	25%	72.917	8300	8372.917	1674.5834
2	10,00,000	10	25%	2.5	25%	72.917	41500	41572.917	16607.2917
3	10,00,000	20	50%	2.5	25%	72.917	83000	83072.917	8303.64585
4	10,00,000	30	75%	2.5	25%	72.917	124500	124572.917	5535.7639
5	10,00,000	40	100%	2.5	25%	72.917	166000	166072.917	4151.8229
6	10,00,000	10	25%	5	50%	145.834	41500	41645.834	16614.5834
7	10,00,000	20	50%	5	50%	145.834	83000	83145.834	8307.29
8	10,00,000	30	75%	5	50%	145.834	124500	124645.834	5538.19447
9	10,00,000	40	100%	5	50%	145.834	166000	166145.834	4153.6459
10	10,00,000	10	25%	7.5	75%	218.751	41500	41718.751	16621.8751
11	10,00,000	20	50%	7.5	75%	218.751	83000	83218.751	8310.9376

12	10,00,000	30	75%	7.5	75%	218.751	124500	124718.751	5533.34
13	10,00,000	40	100%	7.5	75%	218.751	166000	166218.751	4155.4688
14	10,00,000	10	25%	10	100%	291.668	41500	41791.668	16629.1668
15	10,00,000	20	50%	10	100%	291.668	83000	83291.668	8314.5834
16	10,00,000	30	75%	10	100%	291.668	124500	124791.668	5543.0556
17	10,00,000	40	100%	10	100%	291.668	166000	166291.668	4157.2917

Total cost of 5 years 24/7 utilization: $ 7283575058.4

Private Cloud

Hardware and other factors:

	Description	Price Per Item In $(USD)	Quantity	Total In $(USD)
Compute Servers	Intel Xeon E5502 Nehalem 1.86 GHz LGA 1366 80W BX80602E5502 Server Processor	75.99	1000000	75990000
Instance Memory	Samsung DDR4 2133MHz CL15 16GB RegECC 2Rx4 M393A2G40EB1-CPB 1.2V single pack	189.99	1000000	18990000
Chasis	iStarUSA D-118V2-ITX Black Metal / Aluminum 1U Rackmount Compact Server Chassis Extended Holiday Return Policy	38.68	1000000	38680000
Network Switches	Dell PowerConnect 5548 48 Port	399.99	21741	8696182.59

	Gigabit Ethernet Switch GDTPK			
Network Cables	Belkin A3L791-14-BLU 14 ft. Cat 5E Blue Network Cable	5.99	1000024	5990143.76
Racks	iStarUSA WD-1045 10U 450mm Depth Simple Server Rack	228.99	2 in each rack hdd and 10 cpu in each rack 100000 + 9	22901060.91
Storage Servers	HGST 4U 60 Bay JBOD with 60 x 10TB Helium SAS HDD (Kepler)	38,942.98	17	662030.66
Administration	One admin/1000 Instances	110000	1000	550000000
Electric Power	7.14 cents/kWh	7.14 cents/kWh	850watts/hr	250185600
Cooling	Thermaltake CLP0587 140mm CPU Cooler	71.32	1000000	249967939
Total	N/A	N/A	N/A	**1222062956**

Private Cloud: Computing cost/hr for different combinations of utilizations.

| Config. No | Instance. Count | Util. | | Storage Util % | Storage Util (PB) | Storage | Inst. | Total cost/hr | Cost/hr/Gflop |
		Gflops	Util			Cost/hr In $(USD)	Cost/hr In $(USD)	In $(USD)	(Instr) In $(USD)
1	10,00,000	10	25%	100%	10	15.1148	6975.2451	6990.36	699.035
2	10,00,000	20	50%	100%	10	15.1148	13950.49	13965.60	698.280
3	10,00,000	30	75%	100%	10	15.1148	20925.735	20940.850	698.028
4	10,00,000	40	100%	100%	10	15.1148	27900.98	27916.095	697.902

Public Vs Private Break-Even Graph:
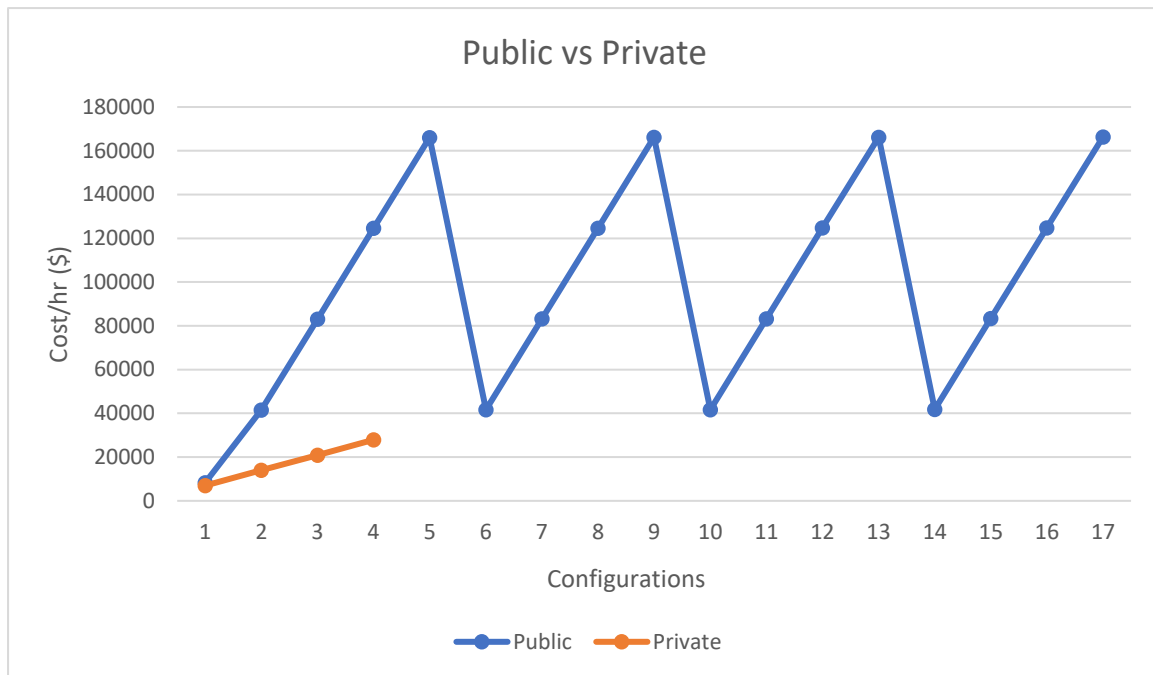
Above graph represents the break-even between the public and the private clouds in term of different configurations and their respective cost/hr. For public cloud, there are 16 configurations which comprises of combinations of different instance (5%, 25%, 50%, 75%, 100%) and storage (25%, 50%, 75%, 100%) utilizations, while for private cloud there are 4 configurations which comprises of different utilizations (25%, 50%, 75%, 100%).

The public cloud has a cost/hr of $41572.917, $41645.834, $41718.751, $41791.668 for 25% instance utilisation and 25% storage utilisation, while the private cloud has a cost.hr of $27916.095 for 100% utilisation. So, if we are using a public cloud for 5 years with more than 5% instance utilisation and 25% storage utilisation that it will cost more than private cloud providing 100% utilisation. Hence, this is the break-even point.

Configuration 3

Public Cloud: Computing cost/hr for different combinations of instance & storage utilizations.

Config. No	Instance. Count	Util. Tflops	Inst. Util	Stor. Util(TB)	Stor. Util	Stor. Cost/hr In$(USD)	Inst. Cost/hr In$(USD)	Total cost/hr In $(USD)	Cost/hr/Tflop (Stor+Inst) In $(USD)
1	1000	250	25%	250	25%	7.29	6120	6127.29	100.83668
2	1000	500	50%	250	25%	7.29	12240	12247.29	50.41834
3	1000	750	75%	250	25%	7.29	18360	18367.29	33.6122
4	1000	1000	100%	250	25%	7.29	24480	24487.29	25.2092
5	1000	250	25%	500	50%	14.59	6120	6134.59	103.7534
6	1000	500	50%	500	50%	14.59	12240	12254.59	51.8767
7	1000	750	75%	500	50%	14.59	18360	18374.59	34.5845
8	1000	1000	100%	500	50%	14.59	24480	24494.59	25.9383
9	1000	250	25%	750	75%	21.88	6120	6141.88	106.67
10	1000	500	50%	750	75%	21.88	12240	12261.88	53.335
11	1000	750	75%	750	75%	21.88	18360	18381.88	35.5567
12	1000	1000	100%	750	75%	21.88	24480	24501.88	26.6675
13	1000	250	25%	1000	100%	29.17	6120	6149.17	109.5867
14	1000	500	50%	1000	100%	29.17	12240	12269.17	54.7934
15	1000	750	75%	1000	100%	29.17	18360	18389.17	36.5289
16	1000	1000	100%	1000	100%	29.17	24480	24509.17	27.3967

Total cost of 5 years 24/7 utilization: $1073501646

Private Cloud

Hardware and other factors:

	Description	Price Per Item ($)	Quantity	Total ($)
DGX Box	NVIDIA DGX-1 Tesla V100	149000	1042	155258000
Network Switches	Mellanox Switch IB-2™ InfiniBand EDR 100Gb/s Switches	11480.4	31	355892
Network Adaptor	Mellanox ConnectX-4 VPI MCX455A-ECAT - Network adapter - PCIe 3.0 x16 - InfiniBand, 100 Gigabit Ethernet	640.99	31	19870.69
Network Cables	Belkin A3L791-14-BLU 14 ft. Cat 5E Blue Network Cable	8	1078	8624
Racks	iStarUSA WD-1045 10U 450mm Depth Simple Server Rack	228	205	46740
Storage Servers	HGST 4U 60 Bay JBOD with 60 * 6TB SAS HDD	26,099.56	3	78298.68
Administration	one admin/1000 instances	110000	2	1100000
Electric Power	5year cost 24hr processing. power consumed/box: 3200 watts/hr Chicago Avg rate: 7.14 cents/kWh			10427735.81

Cooling	Power Required for 5 years and 24 hrs a day. Illinois charges 7.14 Cents/ 1 killo-watt						145919659		
Total	N/A			N/A		N/A	**313214820.2**		

Private Cloud: Computing cost/hr for different combinations of utilizations.

Confi g. No	Instance . Count	Util. (32 IPC)	Inst.	Stor. Util(T B)	Stor.	Stor.	Inst.	Total cost/hr	Cost/hr/Gf lop
		Tflo ps	Util(%)		Util(%)	Cost/hr In $(USD)	Cost/hr In $(USD)	In $(USD)	(Stor+Inst) In $(USD)
1	1042	250	25%	1000	100%	140.43	1787.7558 23	1928.185 82	7.7127432 92
2	1042	500	50%	1000	100%	140.43	3575.5116 46	3715.941 65	7.4318832 92
3	1042	750	75%	1000	100%	140.43	5363.2674 69	5503.697 47	7.3382632 92
4	1042	100 0	100%	1000	100%	140.43	7151.0232 92	7291.453 29	7.2914532 92

Public Vs Private Break-Even Graph:
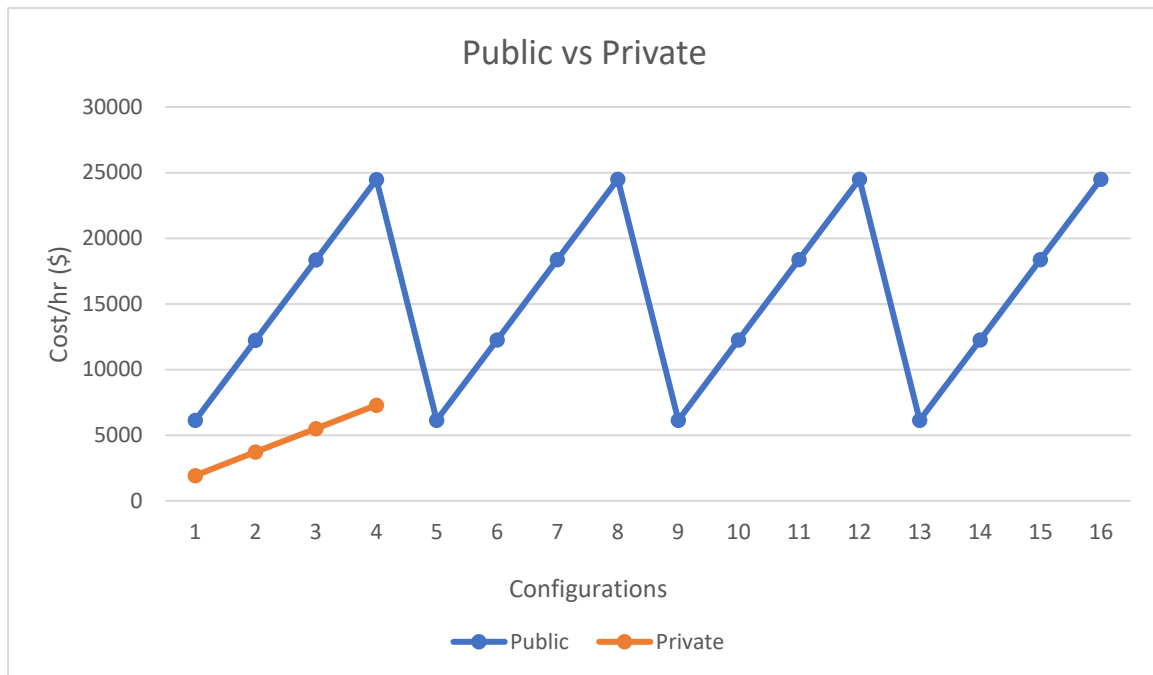
Above graph represents the break-even between the public and the private clouds in term of different configurations and their respective cost/hr. For public cloud, there are 16 configurations which comprises of combinations of different instance (25%, 50%, 75%, 100%) and storage (25%, 50%, 75%, 100%) utilizations, while for private cloud there are 4 configurations which comprises of different utilizations (25%, 50%, 75%, 100%).

The public cloud has a cost/hr of $6127.29, $6134.59, $6141.88, $6149.17 for 25% instance utilisation, while the private cloud has a cost.hr of $7291.45for 100% utilisation. So, if we are using a public cloud for 5 years with more than 25% instance utilisation then it will cost more than private cloud providing 100% utilisation. Hence, this is the break-even point.

Summary Table:

	Configuration 1	Configuration 2	Configuration 3
Public Cloud (including EC2 and S3) Cost over 5 years, 24/7 operation, with 100% usage	$381,615,384	$7,283,575,058	$1,073,501,646
Private Cloud cost over 5 years, 24/7 operation, with 100% usage	**$21396688.48**	$**6036498917**	**$313214820.2**
What utilization must be achieved with the private cloud to make the private cloud option more attractive than the public cloud?	The public cloud has a cost/hr of $727.3 for 5% instance utilisation and 15% storage utilisation, while the private cloud achieves 100% instance utilisation at $628.94 cost/hr which makes the private cloud option more attractive than public cloud.	The public cloud has a cost/hr of $41572.917, $41645.834, $41718.751, $41791.668 for 25% instance utilisation and 25% storage utilisation, while the private cloud achieves 100% instance utilisation at $137834.725 cost/hr which makes the private cloud option more attractive than public cloud.	The public cloud has a cost/hr of $6127.29, $6134.59, $6141.88, $6149.17 for 25% instance utilisation and 25% storage utilisation, while the private cloud achieves 100% instance utilisation at $7291.45 cost/hr which makes the private cloud option more attractive than public cloud.

Conclusion:

Through this project experiment, we came across various challenges while designing the cloud infrastructure, starting from choosing the CPU to the various cost of different components.

Through the analysis of designing private cloud as compared to AWS public cloud, we conclude that when the utilization of cloud service is low, it is cheaper to rent a public cloud, but when the cloud service utilization increases, the cost of owning a cloud will get amortized such that its better to own a cloud than to rent a public one.

Also, we know that cost is considered as one of the driving factor to decide between public and private cloud, as we know that for startup companies, cost is a major criterion. As we compared the cost for public and private cloud for different configurations, we analysed that 5-year amortization cost for private cloud was quite low as compared to the public cloud. Therefore, considering for a 5-year amortization cost, it is better for a startup company to opt for a private cloud.

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Sold by: Mediabridge

List $8.99   Save $1.00
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Qty   1

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Part Number: MSB7890-ES2R, Item #: 2464620

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Pogo Linux System Configurator

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━━━━ STORAGE OPTIONS ━━━━

pogo [linux]

Storage Options

1x   HGST 4U 60 Bay JBOD with 60 x 6TB SAS HDD (Kepler) $0.00   ▼

━━━━ SPARE PARTS AND ACCESSORIES ━━━━

1 Meter SAS Cable

0 ▼   Patch Cable SFF-8644 to SFF-8644 External JBOD 1M $63.53

3 Meter SAS Cable

2 ▼   Patch Cable SFF-8644 to SFF-8644 External JBOD 3M $75.29

━━━━ SUPPORT OPTIONS ━━━━

Warranty and Support

1x   Return to Depot Warranty (5 Year Hardware Warranty with Standard Advance Parts Re ▼

SUBTOTAL AS CONFIGURED:

$26,099.56

System Name:

System Notes:

Request a Quote

Obtain a formal quote for this configuration by clicking the "REQUEST A QUOTE" button. Then, enter your email address and provide any pertinent configuration notes. You will then receive an email with a link to a pdf of the quote. The Pogo Linux sales engineering team will review your configuration and respond via email with any comments or suggestions.

Submit for Review

Do you have questions about this configuration? Click "SUBMIT FOR REVIEW" then enter your email address and questions and/or comments. A Pogo Linux sales engineer will personally review your configuration and respond to you directly.

Add to Cart

Adding a system to the webcart makes it possible to purchase a system or save it for later review (if you have set up a web account on pogolinux.com). To save a configuration for an extended period, or to access it from a different computer, it is

Save to Wishlist

By saving a system to your wishlist you can access the configuration later from any computer. It will be saved even if your browser session changes. If you do not currently have a web account, you will be prompted to create one.

✉ **Leave a Message**

Type here to search   10:46 PM 11/25/2017

THE NVIDIA DGX-1 IS AVAILABLE
FOR PURCHASE IN SELECT COUNTRIES

The NVIDIA DGX is available for purchase in select countries and is priced at:

- DGX with P100 at $129,000*

- DGX with V100 at $149,000*

When ordering DGX with V100, you can choose between getting DGX-1 with P100 now and receiving an upgrade to V100 as soon it's available, or getting a DGX with V100 when it starts shipping. DGX support plan is required and must be purchased separately.