	Backup Performance	Restore Performance		Restore time over	Restore time over	Difference (In	Hours
Comparison of FastConnect vs public Internet	Benefit Up to	Benefit Up to	Total	FastConnect (In minutes)	Internet (In minutes)	minutes)	saved
Overall - Equinix's Cloud adjacent Colo + Fabric [sub 2ms, 0%, 9000]* vs public Internet [100ms, 0.1%, 1500]*	28	28	NA	16	443	427	7
Overall - Equinix's Cloud adjacent Colo + Fabric [sub 2ms, 0%, 9000]* vs public Internet [100ms, 1%, 1500]*	141	141	NA	16	2253	2237	37
Just Cloud Proximity - local FastConnect [<2ms, 0%, 1500]* vs remote Internet [100ms, 0%, 1500]* - same MTU / 0% loss	3	3	NA	17	48	31	1
Just packet delivery - FastConnect [100ms, 0%, 1500]* vs. Internet [100ms, 0.1%, 1500]* - same MTU / same latency at 100ms	14	14	NA	31	443	412	. 7
Just packet delivery - FastConnect [100ms, 0%, 1500]* vs. Internet [100ms, 1%, 1500]* - same MTU / same latency at 100ms	71	72	NA	31	2253	2222	37
Just Jumbo Frames - FastConnect [100ms, 0%, 9000]* vs. Internet [100ms, 0%, 1500]* - same latency / 0% loss	2	2	NA	28	48	20	0
Just Fabric (Packet Delivery + Jumbo Frames) - FastConnect [100ms, 0%, 9000]* vs. Internet [100ms, 0.1%, 1500]* - same latency at 100ms	15	16	NA	28	443	415	7
Just Fabric (Packet Delivery + Jumbo Frames) - FastConnect [100ms, 0%, 9000]* vs. Internet [100ms, 1%, 1500]* - same latency at 100ms	76	79	NA	28	2253	2225	37
Total number of tests	192	192	384				
Total minutes of backup tests	42718	44386	87104				
Total months of tests	1	1	2				

^{* [} Delay, Packet Loss %, Maximum Transmission Unit (MTU)]

	DB Backup size (TB)	1.06								Ва	ckup - 35 chanr	nels						
Cloud Connectivity	FC Peering Type	Total delay including to	tc pkt loss %	Run 1 (mins)	Run 2 (mins)	Run 3 (mins)	FastConne	ct via Fabric	Internet Avg run (mins)		(99.9% pkt very)		um - (99.5% delivery)		99% packet very)	ISP with same pkt delivery rate as Fabric		
		imposed delay (ms)					Avg. Backup Time (mins)	Avg. Throughput (Gbps)		Avg. Throughput (Gbps)	Throughput Performance Multiple	Avg. Throughput (Gbps)	Throughput Performance Multiple	Avg. Throughput (Gbps)	Throughput Performance Multiple	Avg. Throughput (Gbps)	Faster vs. ISP (Multiple)	
Internet	No Peering	<2	0.0%	16.8	16.7	16.7	16.7	8.6	-	8.33	NA	6.97	NA	3.77	NA	8.65	NA	
	MTU - 1500		0.1%	17.4	17.4	17.3	17.4	8.3	-	8.33	NA	6.97	NA	3.77	NA	8.33	NA	
			0.5%	20.8	20.7	20.8	20.8	7.0	-	8.33	NA	6.97	NA	3.77	NA	6.97	NA	
		_	1.0%	38.1	38.5	38.6	38.4	3.8	-	8.33	NA	6.97	NA	3.77	NA	3.77	NA	
		5	0.0%	16.9 22.6	16.9 22.8	16.9 22.7	16.9 22.7	8.6 6.4	-	6.38	NA NA	1.65	NA NA	1.15	NA NA	8.56 6.38	NA NA	
			0.5%	86.8	87.9	88.7	87.8	1.6	-	6.38	NA NA	1.65	NA NA	1.15	NA NA	1.65	NA NA	
			1.0%	124.7	125.6	128.2	126.2	1.1	-	6.38	NA	1.65	NA	1.15	NA	1.15	NA	
		10	0.0%	16.9	16.7	16.9	16.8	8.6	-	3.24	NA	0.84	NA	0.58	NA	8.60	NA	
			0.1%	44.9	43.6	45.7	44.7	3.2	-	3.24	NA	0.84	NA	0.58	NA	3.24	NA	
			0.5%	170.1	174.2	172.9	172.4	0.8	-	3.24	NA	0.84	NA	0.58	NA	0.84	NA	
			1.0%	248.9	252.9	240.8	247.5	0.6	-	3.24	NA	0.84	NA	0.58	NA	0.58	NA	
		20	0.0%	17.8	17.6	17.9	17.8	8.1	-	1.60	NA	0.46	NA	0.29	NA	8.15	NA	
			0.1%	89.9 322.0	88.7 318.4	93.6 312.3	90.7 317.6	0.5	-	1.60	NA NA	0.46	NA NA	0.29	NA NA	1.60 0.46	NA NA	
			1.0%	494.1	502.6	498.3	498.3	0.3	-	1.60	NA NA	0.46	NA NA	0.29	NA NA	0.40	NA NA	
		35	0.0%	19.5	19.4	19.8	19.6	7.4	-	0.83	NA NA	0.29	NA NA	0.18	NA NA	7.40	NA NA	
			0.1%	174.8	172.9	178.2	175.3	0.8	-	0.83	NA	0.29	NA	0.18	NA	0.83	NA	
			0.5%	504.1	502.4	500.8	502.4	0.3	-	0.83	NA	0.29	NA	0.18	NA	0.29	NA	
			1.0%	803.7	811.5	799.2	804.8	0.2	-	0.83	NA	0.29	NA	0.18	NA	0.18	NA	
		50	0.0%	23.1	23.4	23.6	23.4	6.2	-	0.51	NA	0.19	NA	0.13	NA	6.19	NA	
			0.1%	285.1	294.7	274.8	284.9	0.5	-	0.51	NA	0.19	NA	0.13	NA	0.51	NA	
			0.5%	779.3	742.4	739.0	753.6	0.2	-	0.51	NA	0.19	NA	0.13	NA	0.19	NA	
		75	1.0%	1094.1 32.8	1106.8 32.2	1092.6 33.5	1097.8 32.8	0.1 4.4	-	0.51	NA NA	0.19	NA NA	0.13	NA NA	0.13 4.41	NA NA	
		,,	0.1%	382.6	360.0	355.1	365.9	0.4	-	0.40	NA NA	0.14	NA NA	0.09	NA NA	0.40	NA NA	
			0.5%	1041.9	1037.1	1039.6	1039.5	0.1	-	0.40	NA	0.14	NA	0.09	NA	0.14	NA	
			1.0%	1616.2	1590.7	1603.8	1603.6	0.1	-	0.40	NA	0.14	NA	0.09	NA	0.09	NA	
		100	0.0%	45.8	40.7	44.2	43.6	3.3	-	0.34	NA	0.11	NA	0.07	NA	3.32	NA	
			0.1%	433.8	427.7	429.8	430.4	0.3	-	0.34	NA	0.11	NA	0.07	NA	0.34	NA	
			0.5%	1388.3	1380.8	1364.8	1378.0	0.1	-	0.34	NA	0.11	NA	0.07	NA	0.11	NA	
			1.0%	2154.9	2120.1	2129.6	2134.9	0.1	-	0.34	NA	0.11	NA	0.07	NA	0.07	NA	
FastConnect	Private FastConnect over	<2	0.0%	15.1	15.2 15.4	15.1	15.1 15.4	9.6	16.73 17.37	8.33 8.33	1.1	6.97 6.97	1.4	3.77	2.5	8.65 8.33	1.1	
	EF -MTU 9000	5	0.1%	15.4 15.5	15.4	15.5 15.5	15.4	9.4	16.90	6.38	1.1	1.65	5.7	1.15	8.1	8.33 8.56	1.1	
	-10110 3000	3	0.1%	15.7	15.7	15.7	15.7	9.2	22.70	6.38	1.4	1.65	5.6	1.15	8.0	6.38	1.4	
		10	0.0%	15.7	15.7	15.7	15.7	9.2	16.83	3.24	2.8	0.84	11.0	0.58	15.8	8.60	1.1	
			0.1%	16.9	16.8	16.9	16.9	8.6	44.73	3.24	2.7	0.84	10.2	0.58	14.7	3.24	2.7	
		20	0.0%	15.9	16.0	16.0	16.0	9.1	17.77	1.60	5.7	0.46	19.9	0.29	31.2	8.15	1.1	
			0.1%	23.7	24.0	23.9	23.9	6.1	90.72	1.60	3.8	0.46	13.3	0.29	20.9	1.60	3.8	
		35	0.0%	17.2	16.9	17.1	17.1	8.5	19.57	0.83	10.3	0.29	29.4	0.18	47.2	7.40	1.1	
			0.1%	39.7	39.8	38.7	39.4	3.7	175.30	0.83	4.4	0.29	12.8	0.18	20.4	0.83	4.4	
		50	0.0%	19.6 49.3	20.1 49.8	19.8 50.1	19.8 49.7	7.3	23.37 284.87	0.51	14.4 5.7	0.19	38.0 15.2	0.13	55.4 22.1	6.19 0.51	1.2 5.7	
		75	0.0%	24.0	24.1	23.7	23.9	6.0	32.83	0.40	15.3	0.14	43.4	0.09	67.0	4.41	1.4	
			0.1%	65.2	64.6	64.4	64.7	2.2	365.90	0.40	5.7	0.14	16.1	0.09	24.8	0.40	5.7	
		100	0.0%	27.9	28.0	27.9	27.9	5.2	43.57	0.34	15.4	0.11	49.3	0.07	76.4	3.32	1.6	
			0.1%	79.5	78.6	79.4	79.2	1.8	430.43	0.34	5.4	0.11	17.4	0.07	27.0	0.34	5.4	
	Private FastConnect over	<2	0.0%	16.4	16.4	16.3	16.4	8.8	16.73	8.33	1.1	6.97	1.3	3.77	2.3	8.65	1.0	
	EF		0.1%	16.6	16.5	16.6	16.6	8.7	17.37	8.33	1.0	6.97	1.3	3.77	2.3	8.33	1.0	
	-MTU 1500 (manually setup via	5	0.0%	16.6	16.7	16.6	16.6	8.7	16.90	6.38	1.4	1.65	5.3	1.15	7.6	8.56	1.0	
	OS setting)	10	0.1%	21.6 16.7	22.0 16.8	21.9 16.7	21.8 16.7	6.6 8.6	22.70 16.83	6.38 3.24	2.7	1.65 0.84	4.0	1.15 0.58	5.8 14.8	6.38 8.60	1.0	
		10	0.0%	44.5	45.2	44.3	44.7	3.2	44.73	3.24	1.0	0.84	3.9	0.58	5.5	3.24	1.0	
		20	0.0%	17.5	17.7	17.6	17.6	8.2	17.77	1.60	5.2	0.46	18.0	0.29	28.3	8.15	1.0	
			0.1%	83.4	84.2	84.9	84.2	1.7	90.72	1.60	1.1	0.46	3.8	0.29	5.9	1.60	1.1	
		35	0.0%	19.1	19.4	19.3	19.3	7.5	19.57	0.83	9.1	0.29	26.1	0.18	41.8	7.40	1.0	
			0.1%	157.9	155.9	156.2	156.7	0.9	175.30	0.83	1.1	0.29	3.2	0.18	5.1	0.83	1.1	
		50	0.0%	22.2	22.7	22.9	22.6	6.4	23.37	0.51	12.6	0.19	33.3	0.13	48.6	6.19	1.0	
			0.1%	227.2	235.7	242.0	235.0	0.6	284.87	0.51	1.2	0.19	3.2	0.13	4.7	0.51	1.2	
		75	0.0%	26.2	26.6	26.3	26.4	5.5	32.83	0.40	13.9	0.14	39.4	0.09	60.8	4.41	1.2	
		100	0.1%	30.3	274.8 30.3	285.9 30.1	283.2 30.2	0.5 4.8	365.90 43.57	0.40	1.3	0.14	3.7 45.6	0.09	5.7 70.6	0.40 3.32	1.3	
		250	0.1%	291.2	348.1	358.0	332.4	0.4	430.43	0.34	1.3	0.11	43.0	0.07	6.4	0.34	1.3	
								-				I		L		I		

	DB Backup size (TB)	1.06									Res	store - 35 cha	nnels							
Cloud	FC Peering Type	Total delay	tc pkt loss %	Run 1	Run 2		3 FastConnect via Fabric Internet Internet - High					- Medium	ISP with		Time	Time	Time			
Connectivity		including to imposed		(mins)	(mins)	(mins))		Avg run (mins)		T=					delivery ra		Saved vs. ISP -	Saved vs ISP -	Saved vs ISP
		delay (ms)					Avg Restore Time (mins)	Avg. Throughpu	(1111115)	Avg. Throughput	Throughput Performanc	Avg. Throughout	Throughput Performance	Avg. Throughput	Throughput Performance	Avg. Throughout	Faster vs. t ISP	High	Medium	Low
							,	t (Gbps)		(Gbps)	e Multiple	(Gbps)	Multiple	(Gbps)	Multiple	(Gbps)	(Multiple)	(hours)	(hours)	(hour:
Internet	No Peering	<2	0.0%	16.9	16.9	16.8	16.9	8.6	-	8.15	NA	6.74	NA	3.66	NA	8.58	NA	NA	NA	NA.
	MTU - 1500		0.1%	17.8	17.8	17.6	17.8	8.2	-	8.15	NA	6.74	NA	3.66	NA	8.15	NA	NA	NA	NA
			0.5%	21.5	21.3	21.6	21.5	6.7	-	8.15	NA	6.74	NA	3.66	NA	6.74	NA	NA	NA	NA
		5	1.0%	39.8 17.3	39.0 17.3	39.8 17.3	39.5 17.3	3.7 8.4	-	8.15 6.34	NA NA	6.74 1.62	NA NA	3.66 1.01	NA NA	3.66 8.36	NA NA	NA NA	NA NA	NA NA
ì		5	0.0%	23.0	22.9	22.7	22.8	6.3	•	6.34	NA NA	1.62	NA NA	1.01	NA NA	6.34	NA NA	NA NA	NA NA	NA NA
			0.5%	88.7	89.9	88.8	89.1	1.6	-	6.34	NA NA	1.62	NA NA	1.01	NA NA	1.62	NA NA	NA NA	NA	NA
			1.0%	143.2	141.4	144.5	143.0	1.0	-	6.34	NA	1.62	NA	1.01	NA	1.01	NA	NA	NA	NA
		10	0.0%	18.0	18.1	18.0	18.0	8.0	-	2.69	NA	0.79	NA	0.54	NA	8.04	NA	NA	NA	NA
			0.1%	53.8	53.4	54.0	53.7	2.7	-	2.69	NA	0.79	NA	0.54	NA	2.69	NA	NA	NA	NA
			0.5%	183.0	182.2	182.8	182.7	0.8	-	2.69	NA	0.79	NA	0.54	NA	0.79	NA	NA	NA	NA
			1.0%	268.9	263.4	269.0	267.1	0.5	-	2.69	NA	0.79	NA	0.54	NA	0.54		NA	NA	NA
		20	0.0%	19.8	19.8	19.9	19.8	7.3	-	1.27	NA NA	0.44	NA NA	0.29	NA NA	7.29	NA	NA	NA	NA
			0.1%	114.5 324.9	111.2 335.1	115.9 334.2	113.9 331.4	0.4		1.27	NA NA	0.44	NA NA	0.29	NA NA	1.27 0.44	NA NA	NA NA	NA NA	NA NA
			1.0%	504.0	511.9	504.9	506.9	0.4	-	1.27	NA NA	0.44	NA NA	0.29	NA NA	0.44	NA NA	NA NA	NA NA	NA NA
		35	0.0%	21.1	21.3	21.2	21.2	6.8	-	0.75	NA NA	0.27	NA NA	0.17	NA NA	6.82	NA NA	NA NA	NA	NA
			0.1%	196.6	187.5	198.2	194.1	0.7	-	0.75	NA	0.27	NA	0.17	NA	0.75	NA	NA	NA	NA
			0.5%	528.8	530.1	523.7	527.5	0.3	-	0.75	NA	0.27	NA	0.17	NA	0.27	NA	NA	NA	NA
			1.0%	834.7	829.1	824.5	829.4	0.2	-	0.75	NA	0.27	NA	0.17	NA	0.17	NA	NA	NA	NA
		50	0.0%	24.6	25.5	25.6	25.2	5.7	•	0.49	NA	0.19	NA	0.13	NA	5.74	NA	NA	NA	NA
			0.1%	292.8	291.9	294.1	292.9	0.5	-	0.49	NA NA	0.19	NA	0.13	NA	0.49	NA	NA	NA	NA
			0.5%	759.0	769.9	765.8	764.9	0.2	-	0.49	NA NA	0.19	NA NA	0.13	NA NA	0.19	NA	NA	NA	NA
		75	1.0%	1132.6 34.5	1113.9 34.2	1109.4 34.9	1118.6 34.5	0.1 4.2		0.49	NA NA	0.19	NA NA	0.13	NA NA	0.13 4.19	NA NA	NA NA	NA NA	NA NA
		,,	0.1%	370.9	375.3	369.2	371.8	0.4	-	0.39	NA NA	0.14	NA NA	0.09	NA NA	0.39	NA NA	NA NA	NA	NA
			0.5%	1058.6	1057.2	1058.5	1058.1	0.1		0.39	NA	0.14	NA	0.09	NA	0.14	NA	NA	NA	NA
			1.0%	1603.8	1617.6	1607.6	1609.7	0.1	-	0.39	NA	0.14	NA	0.09	NA	0.09	NA	NA	NA	NA
		100	0.0%	48.2	48.0	47.7	48.0	3.0	-	0.33	NA	0.10	NA	0.06	NA	3.02	NA	NA	NA	NA
			0.1%	443	439.6	447.8	443.4	0.3	-	0.33	NA	0.10	NA	0.06	NA	0.33	NA	NA	NA	NA
			0.5%	1398.8	1384.1	1394.0	1392.3	0.1	-	0.33	NA	0.10	NA	0.06	NA	0.10	NA	NA	NA	NA
		_	1.0%	2253.8	2258.5	2246.9	2253.0	0.1	-	0.33	NA	0.10	NA	0.06	NA	0.06	NA	NA	NA	NA
FastConnect	Private FastConnect over EF	<2	0.0%	16.0	16.0	16.0	16.0 16.0	9.1	16.88 17.76	8.15 8.15	1.1	6.74 6.74	1.3	3.66 3.66	2.5	8.58 8.15	1.1	0.0	0.1	0.4
	-MTU 9000	5	0.1%	16.4	16.3	16.3	16.3	8.9	17.70	6.34	1.4	1.62	5.5	1.01	8.8	8.36	1.1	0.0	1.2	2.1
		3	0.1%	16.3	16.2	16.3	16.3	8.9	22.84	6.34	1.4	1.62	5.5	1.01	8.8	6.34	1.4	0.1	1.2	2.1
		10	0.0%	16.8	16.7	16.5	16.6	8.7	18.00	2.69	3.2	0.79	11.0	0.54	16.0	8.04	1.1	0.6	2.8	4.2
			0.1%	17.2	17.2	17.1	17.2	8.4	53.74	2.69	3.1	0.79	10.6	0.54	15.6	2.69	3.1	0.6	2.8	4.2
		20	0.0%	17.6	17.5	17.6	17.6	8.2	19.85	1.27	6.5	0.44	18.9	0.29	28.9	7.29	1.1	1.6	5.2	8.2
			0.1%	25.6	25.6	25.5	25.6	5.7	113.86	1.27	4.5	0.44	13.0	0.29	19.8	1.27	6.5	1.5	5.1	8.0
		35	0.0%	19.3	19.2	19.2	19.2	7.5	21.22	0.75	10.1	0.27	27.5	0.17	43.2	6.82	1.1	2.9	8.5	13.5
		E0	0.1%	41.5	41.1	41.2	41.2	3.5	194.12	0.75	4.7	0.27	12.8	0.17	20.1	0.75	4.7	2.5	8.1	13.1
		50	0.0%	21.5 53.4	21.6 53.1	21.6 52.9	21.6 53.1	6.7 2.7	25.23 292.93	0.49	13.6	0.19	35.4 14.4	0.13	51.8 21.1	5.74 0.49	1.2 5.5	4.5	12.4	18.3
		75	0.1%	24.4	24.2	24.5	24.4	5.9	34.54	0.49	15.3	0.14	43.4	0.13	66.1	4.19	1.4	5.8	17.2	26.4
		-	0.1%	66.8	66.5	67.8	67.0	2.2	371.80	0.39	5.5	0.14	15.8	0.09	24.0	0.39	5.5	5.1	16.5	25.7
		100	0.0%	28.5	28.4	28.5	28.4	5.1	47.95	0.33	15.6	0.10	49.0	0.06	79.2	3.02	1.7	6.9	22.7	37.1
			0.1%	81.7	81.4	80.9	81.3	1.8	443.40	0.33	5.5	0.10	17.1	0.06	27.7	0.33	5.5	6.0	21.8	36.2
	Private FastConnect	<2	0.0%	16.7	16.7	16.7	16.7	8.7	16.88	8.15	1.1	6.74	1.3	3.66	2.4	8.58		0.0	0.1	0.4
	over EF -MTU 1500		0.1%	17.1	16.8	17.0	17.0	8.5	17.76	8.15	1.0	6.74	1.3	3.66	2.3	8.15		0.0	0.1	0.4
	(manually setup via	5	0.0%	17.2	17.1	17.2	17.2	8.4	17.30	6.34	1.3	1.62	5.2	1.01	8.3	8.36	1.0	0.1	1.2	2.1
	OS setting)	10	0.1%	22.9 17.8	22.2 17.8	22.5 17.7	22.5 17.7	6.4 8.2	22.84 18.00	6.34 2.69	3.0	1.62 0.79	4.0	1.01 0.54	6.3 15.1	6.34 8.04	1.0	0.0	2.7	2.0 4.2
		10	0.0%	52.7	51.8	52.2	52.2	2.8	53.74	2.69	1.0	0.79	3.5	0.54	5.1	2.69		0.0	2.7	3.6
		20	0.0%	19.5	19.4	19.3	19.4	7.5	19.85	1.27	5.9	0.44	17.1	0.29	26.2	7.29		1.6	5.2	8.1
		-	0.1%	104.5	102.7	101.9	103.0	1.4	113.86	1.27	1.1	0.44	3.2	0.29	4.9	1.27	1.1	0.2	3.8	6.7
		35	0.0%	21.1	21.0	21.0	21.1	6.9	21.22	0.75	9.2	0.27	25.1	0.17	39.4	6.82	1.0	2.9	8.4	13.5
			0.1%	183.1	182.1	184.6	183.3	0.8	194.12	0.75	1.1	0.27	2.9	0.17	4.5	0.75	1.1	0.2	5.7	10.8
		50	0.0%	22.9	23.1	23.0	23.0	6.3	25.23	0.49	12.7	0.19	33.2	0.13	48.6	5.74		4.5	12.4	18.3
			0.1%	242.0	247.1	239.9	243.0	0.6	292.93	0.49	1.2	0.19	3.1	0.13	4.6	0.49		0.8	8.7	14.6
		75	0.0%	26.7	26.3	26.3	26.4	5.5	34.54	0.39	14.1	0.14	40.1	0.09	61.0	4.19		5.8	17.2	26.4
		100	0.1%	316.5 31.0	330.3 31.4	310.2 31.0	319.0 31.1	0.5 4.6	371.80 47.95	0.39	1.2	0.14	3.3 44.7	0.09	5.0 72.4	0.39 3.02		0.9 6.9	12.3	21.5 37.0
		100	0.0%	358.0	368.8	349.8	358.9	0.4	443.40	0.33	1.2	0.10	3.9	0.06	6.3	0.33	1.5	1.4	17.2	31.6
			U.170	550.0	500.0	3.3.0	550.5	v. -		0.55	216	0.10	3.3	0.00	0.0	0.33	1.2	2.7	11.2	51.0