

CONCESSIONE

per la realizzazione e
gestione di una nuova infrastruttura informatica al servizio della
Pubblica Amministrazione
denominata Polo Strategico Nazionale (“PSN”), di cui al comma 1
dell’articolo 33-septies del
d.l. n. 179 del 2012.

ALLEGATO C

**OFFERTA ECONOMICA DEL
FORNITORE – CATALOGO DEI
SERVIZI**

Oggetto dell'Allegato

Il presente allegato è costituito dai seguenti annessi:

- Annesso 1: Offerta economica del Fornitore – Catalogo dei Servizi;
- Annesso 2: Offerta economica del Fornitore - dettagli del Listino 1.

Industry Standard

Listino 1

Tipologia	Elemento	CORE [Q]	RAM [GB]	VCPU [Q]	vRAM [GB]	Storage [GB]	Caratteristiche tecniche minime
IaaS Private (HA)	Blade Medium	24	256			500	Server features 2 socket Intel® Xeon® Scalable processor family, with up to 32 DIMMs (up to 6TB), PCIe express* (PCIe 4.0 enabled), IO slots, and 2 High bandwidth Ethernet and Fiber Channel mezzanine card. All Ethernet interfaces are 10/25Gbps, fully redundant, with jumbo frame enabled end to end in the overall infrastructure. All FC interfaces are 32Gbps. Processore Intel 6354, 18 core, 3.0GHz, cache 39MB, 205W. Sistema operativo escluso.
IaaS Private (HA)	Blade Large	36	768			1000	Server features 2 socket Intel® Xeon® Scalable processor family, with up to 32 DIMMs (up to 6TB), PCIe express* (PCIe 4.0 enabled), IO slots, and 2 High bandwidth Ethernet and Fiber Channel mezzanine card. All Ethernet interfaces are 10/25Gbps, fully redundant, with jumbo frame enabled end to end in the overall infrastructure. All FC interfaces are 32Gbps. Processore Intel 6354, 18 core, 3.0GHz, cache 39MB, 205W. Sistema operativo escluso.
IaaS Storage (HA)	Storage High Performance					500	SAAN NVMe based, replicato intra-region, 170K IOPS per Storage Array.
IaaS Storage (HA)	Storage Standard Performance					500	SAAN All Flash based, replicato intra-region, 130K IOPS per Storage Array.
IaaS Storage (HA)	NAS					500	NVMe based, replicato intra-region, 130K IOPS per Storage Array.
IaaS Storage (HA)	Object storage					500	Replicato inter-region.
IaaS Storage (HA)	Storage HPE Encrypted					500	SAAN NVMe based, replicato intra-region, crittografato a livello di singolo volume, 170K IOPS per Storage Array.
IaaS Storage (HA)	Storage SP Encrypted					500	SAAN All Flash based, replicato intra-region, crittografato a livello di singolo volume, 130K IOPS per Storage Array.
IaaS Shared (FA)	VM Tiny	1	2	1	2	100	VM Tiny
IaaS Shared (FA)	VM Small	2	4	2	4	100	VM Small
IaaS Shared (FA)	VM Medium	4	8	4	8	100	VM Medium
IaaS Shared (FA)	VM Large	8	16	8	16	100	VM Large
IaaS Shared (FA)	VM X-Large	16	32	16	32	100	VM X-Large
IaaS Shared (FA)	Pool Small	16	32	16	32	100	Pool Small
IaaS Shared (FA)	Pool Medium	16	32	16	32	100	Pool Medium
IaaS Shared (FA)	Pool Large	16	32	16	32	100	Pool Large
IaaS Shared (FA)	Pool X-Large	16	32	16	32	100	Pool X-Large
IaaS Private	Single Medium	36	256			1000	Single Medium
IaaS Private	Single Large	36	256			1000	Single Large
IaaS Shared (HA)	Pool - 1vCPU agiuntiva			1			Borsa agiuntiva per Pool IaaS shared
IaaS Shared (HA)	Pool - 1vCPU agiuntiva			1			Borsa agiuntiva per Pool IaaS shared
IaaS Shared (HA)	Pool - 1vCPU agiuntiva			1			Borsa agiuntiva per Pool IaaS shared
IaaS Shared (HA)	Pool - 1vCPU agiuntiva			1			Borsa agiuntiva per Pool IaaS shared
IaaS Shared (HA)	Pool - 1vCPU agiuntiva			1			Borsa agiuntiva per Pool IaaS shared
Connettività	Connezione dedicata 1 Gbps						Tecnologia Gbe MPI, profilo Silver 1000, TIR 12/13 e outsourcing.

Tot Industry standard

Quantità	Canone Annuale	P X Q	Sconto %	Sconto €	Canone Annuale Scontato	Picciolato X Q	Sconto Totale
45,321	11.083 €	502.250,287 €	55,00%	6.095,65 €	4.987 €	226.031,07906 €	276.260,2774 €
7,558	15,922 €	120.342,381 €	49,50%	7.881,15 €	8,040 €	60.772,902,26 €	59.569,478,46 €
18,145	721 €	13.080,474 €	49,50%	356,84 €	364 €	6.605,639,28 €	6.474,834,35 €
27,17	395 €	10.751,074 €	49,50%	195,53 €	199 €	5.429,292,56 €	5.324,781,93 €
9,072	395 €	3.583,691 €	5,00%	19,25 €	375 €	3.404,506,89 €	179,184,57 €
18,145	395 €	7.167,383 €	49,50%	195,53 €	199 €	3.619,528,37 €	3.547,854,55 €
9,072	988 €	8.959,229 €	49,50%	488,83 €	498 €	4.574,410,47 €	4.434,818,18 €
9,072	652 €	5.913,091 €	49,50%	322,65 €	329 €	2.896,110,91 €	2.926,980,00 €
127,855	544 €	69.086,499 €	49,50%	269,17 €	275 €	36.889,693,99 €	34.198,806,86 €
95,296	1.077 €	102.636,907 €	60,00%	466,22 €	451 €	41.054,762,68 €	61.382.143,99 €
63,527	2.082 €	132.234,893 €	60,00%	1.248,92 €	831 €	52.893,957,20 €	79.340,935,96 €
23,626	3.844 €	91.380,381 €	60,00%	2.306,20 €	1.578 €	36.652,152,88 €	54.948,228,57 €
7,942	2.973 €	23.686,777 €	60,00%	1.793,31 €	1.779 €	37.955,646,44 €	20.437,654,70 €
7,942	4.535 €	43.161,478 €	49,50%	1.471,44 €	1.501 €	11.922,402,07 €	11.686,043,90 €
3,895	10.979 €	41.796,474 €	49,50%	5.299,98 €	4.784 €	21.796,466,37 €	21.386,933,99 €
3,895	10.979 €	41.796,474 €	49,50%	5.299,98 €	4.784 €	21.796,466,37 €	21.386,933,99 €
2,000	8.838 €	17.676,516 €	49,50%	4.399,24 €	4.384 €	8.976,656,97 €	8.809,851,88 €
1,005	21,107 €	21,220,074 €	49,50%	10,447,98 €	10,559 €	10,716,135,85 €	10,500,935,14 €
2,000	889 €	1.777,952 €	49,50%	439,94 €	449 €	897,865,69 €	880,086,17 €
18,886	1.900 €	35.878,403 €	20,00%	379,94 €	1.520 €	28.702,722,57 €	7.175,680,84 €
19,327	1.857 €	35.888,786 €	20,00%	371,38 €	1.486 €	28.711,029,16 €	7.177,757,91 €
4,334	5,394 €	24.456,182 €	4,00%	1,078,70 €	4,315 €	19.564,929,27 €	4.891,252,92 €
308	26,471 €	8.146,849 €	49,50%	13,103,29 €	13,368 €	4.114,158,71 €	4.032,690,22 €
1,375	11,873 €	16.321,653 €	49,50%	5,877,21 €	5,996 €	8.242,434,63 €	8.079,218,10 €
1,559	9,762,830 €	15.269,830 €	49,50%	3,099,16 €	3,162 €	4.930,229,09 €	4.832,600,19 €
17,265	1,891 €	32.456,483 €	49,50%	936,23 €	955 €	16.491,018,80 €	16.164,463,97 €
5,468	1,094 €	3.240,000 €	49,50%	299,20 €	299 €	1.636,200,00 €	1.603,800,00 €
1,094	13,944 €	15.228,000 €	49,50%	6,892,45 €	7,032 €	7.690,140,00 €	7.537,860,00 €
273	6,666 €	1.822,500 €	49,50%	329,58 €	336 €	920,382,50 €	902,137,90 €
182	5,925 €	1.080,000 €	10,00%	592,52 €	533 €	972,000,00 €	108,000,00 €
262,815	139 €	34.032,715 €	10,00%	172,95 €	117 €	30.679,463,40 €	3.403,271,99 €
100,859	604 €	60.975,144 €	10,00%	60,43 €	544 €	54.876,829,95 €	6.097,314,49 €
33,446	1,079 €	105.555,636 €	22,50%	0,19 €	1 €	81.807,167,83 €	23.750,468,88 €
125,686,242	642 €	- €	49,50%	317,74 €	324 €	- €	- €
-	770 €	- €	49,50%	381,28 €	389 €	- €	- €
-	148 €	- €	49,50%	73,32 €	75 €	- €	- €
-	829 €	- €	49,50%	410,52 €	419 €	- €	- €
-	348 €	- €	49,50%	172,38 €	176 €	- €	- €
-	722 €	- €	60,00%	432,91 €	289 €	- €	- €
-	1,415 €	- €	60,00%	848,97 €	566 €	- €	- €
-	2,699 €	- €	60,00%	1,577,40 €	1,052 €	- €	- €
-	5,046 €	- €	60,00%	1,766,18 €	3,280 €	- €	- €
-	1,931 €	- €	49,50%	965,85 €	985 €	- €	- €
-	3,595 €	- €	49,50%	1,754,75 €	1,790 €	- €	- €
-	1,033 €	- €	50,00%	3,868,36 €	3,165 €	- €	- €
-	12,863 €	- €	49,50%	5,779,47 €	3,084 €	- €	- €
-	11,778 €	- €	49,50%	3,859,87 €	3,928 €	- €	- €
-	144 €	- €	49,50%	31,68 €	32 €	- €	- €
-	136 €	- €	49,50%	62,37 €	64 €	- €	- €
-	415 €	- €	49,50%	22,28 €	23 €	- €	- €
-	88 €	- €	49,50%	43,56 €	44 €	- €	- €
-	86,942 €	- €	30,00%	78,248,16 €	8,694 €	- €	- €
-	-	1.715,616,862 €	46,25%	-	-	922.206,338 €	799.410,524 €

Listino 1

Hybrid Cloud on PSN site

Tipologia	Elemento	CORE	RAM	vCPU	vRAM	Storage	Quantità	Canone Annuale	P X Q	Sconto %	Sconto €	Canone Annuale Scontato	Picciolato X Q	Sconto totale
Compute	Server 2-processore 26 core 768 GB RAM 24 TB Disco (o equivalente)	52	768			48000 + 9600	3.089	57.883 €	178.790.938 €	7,00%	4.052 €	53.832 €	166.275.572 €	12.515.386 €
Policy	Server						33.333	86 €	2.857.930 €	7,00%	6 €	80 €	2.657.875 €	200.055 €
Kubernetes	Kubernetes			1			53.428	29 €	1.545.568 €	7,00%	2 €	27 €	1.437.379 €	108.190 €
SQL Data services	SQL Data services			1			10.018	2.213 €	22.168.389 €	7,00%	155 €	2.038 €	20.616.602 €	1.551.787 €
Monitorine	GB di log analizzati al giorno						14.609	1.322 €	19.319.902 €	7,00%	95 €	1.230 €	17.967.599 €	1.351.303 €
TOT Hybrid Cloud on PSN site									224.682.728 €	7,00%			208.954.937 €	15.727.791 €

Secure Public Cloud (1)

Tipologia	Elemento	Quantità	Canone Annuale	P X Q	Sconto %	Sconto €	Canone Annuale Scontato	Picciolato X Q	Sconto totale
Progetto Cloud 1		694	550.531 €	382.290.699 €	7,00%	26.537 €	351.994 €	355.530.350 €	26.760.349 €
Progetto Cloud 2		477	342.991 €	163.558.812 €	7,00%	23.981 €	318.610 €	325.105.046 €	11.448.787 €
Tot Secure Public Cloud				545.849.511 €	7,00%			507.635.395 €	38.205.116 €

Public Cloud PSN managed (2)

Tipologia	Elemento	Quantità	Canone Annuale	P X Q	Sconto %	Sconto €	Canone Annuale Scontato	Picciolato X Q	Sconto totale
CLUSTER 1		67	590.778 €	39.774.566 €	30,00%	177.233 €	413.545 €	27.842.196 €	11.932.370 €
CLUSTER 2		96	490.747 €	46.880.960 €	30,00%	147.224 €	343.523 €	32.816.672 €	14.064.288 €
CLUSTER 3		96	500.359 €	47.799.157 €	30,00%	150.108 €	350.251 €	33.459.410 €	14.339.747 €
CLUSTER 4		96	1.113.436 €	106.366.305 €	30,00%	334.031 €	779.405 €	74.456.413 €	31.909.891 €
CLUSTER 5*		91	918.730 €	83.586.713 €	30,00%	275.619 €	643.111 €	58.510.699 €	25.076.014 €
Tot Public Cloud PSN managed				324.407.700 €	30,00%			227.086.390 €	97.321.310 €
TOTALE LISTINO 1				2.810.551.800 €	33,61%			1.865.882.060 €	944.669.740 €

(1) per i dettagli dei progetti fare riferimento al documento "listino", allegato n

(2) per i dettagli dei cluster fare riferimento al documento "listino", allegato n

*Il valore totale del Cluster 5 è stato corretto rispetto al listino originale al fine di correggere il calcolo

Tipologia	Elemento	Core (Q)	RAM (GB)	vCPU (Q)	vRAM (GB)	Storage (GB)	Caratteristiche tecniche minime
Hosting	Rack						1,75 mq, 3.5kw di energia inclusa, prossimità, cabling (16 fibra + 2 zanje), suite
Hosting	Server (IRU)	16	64			2.700	Servizio dedicato agli utenti di un rack end-user. Sistema operativo/colonna. Processore intel Gold 6334, 8 core, 3.6GHz, cache operativa/colonna. Processore intel Gold 6334, 8 core, 3.6GHz, cache operativa/colonna. Processore intel Gold 6334, 8 core, 3.6GHz, cache operativa/colonna. Processore intel Gold 6334, 8 core, 3.6GHz, cache operativa/colonna.
Hosting	Server su rack dedicato (RU)	16	64			2.700	Server su rack dedicato. Sistema operativo/esclusivo. Processore Intel Gold 6334, 8 core, 3.6GHz, cache. 8MB, 165W
Hosting - Storage	Storage High Performance					500	SAN NVMe based, 170K IOPS per Storage Array
Hosting - Storage	Storage Standard Performance					500	SAN All Flash based, 130K IOPS per Storage Array
Hosting - Storage	Storage Standard Performance					500	NAS
Hosting - Storage	Object Storage					500	NVMe based, 130K IOPS per Storage Array
Hosting - Storage	Storage HP Encrypted					500	SAN NVMe based, crittografia a livello di singolo volume, 170K IOPS per Storage Array
Hosting - Storage	Storage SP Encrypted					500	SAN All Flash based, crittografia a livello di singolo volume, 130K IOPS per Storage Array
Hosting	Retina elettrica aggiuntiva (prezzata da 1KW di target)						
Hosting	IP Pubblici (10 indirizzi)						Ribanci in fibra Data Center
Hosting	IP Pubblici (29 (8 indirizzi)						
Hosting	Cage						
Hosting	Housing router in sala T1C						Struttura sul rack del cliente
Hosting	Moving server						Moving di un server da sede cliente al Data Center del ISP
Hosting	AI Platform - 1 Worker - 1 GPU	8	64			64	Spark/Tensorflow/Keras/PyTorch/processors fisico 26 core 2,70 GHz virtualization rate 12. Nvidia A100 dedicata
Paas - AI	Semantic Knowledge Search - 1 Worker	8	32	2046			Elasticsearch su processore fisico 26 core 2,70 GHz virtualization rate 12 - Disco SSD
Paas - AI	Text Analytics (NLP - 1 Worker)	8	32				Analisi linguistica con entity recognition, sentiment analysis, NER su processore fisico 26 core 2,70 GHz virtualization rate 12
Paas - AI	Audio Analytics - 1 flusso audio h24 x 365G						Analisi audio per speech text, text to speech, speaker verification, speaker identification, anomaly detection
Paas - AI	Video Analytics - 1 flusso video h24 x 365G						Analisi video per object recognition, object tracking, face recognition/crowd counting

Tot Industry Standard

Quantità	Canone Annuale	P X Q
4.774	16.693 €	79.692.584 €
47.253	10.674 €	504.374.026 €
11.816	13.801 €	163.069.400 €
6.968	3.600 €	25.111.475 €
10.451	198 €	2.069.276 €
3.484	3.484 €	12.048.816 €
6.968	198 €	1.379.656 €
3.484	494 €	1.720.189 €
3.484	494 €	1.720.189 €
1.386	1.386 €	1.916.325 €
382	382 €	141.792 €
140	140 €	19.600 €
110	110 €	12.100 €
570	570 €	325.500 €
3.534	3.534 €	12.582.124 €
4.000	4.000 €	16.000.000 €
24.886	24.886 €	618.403.400 €
729	729 €	533.252 €
1.094	7.400 €	8.012.560 €
365	7.643 €	2.791.695 €
911	4.266 €	3.886.000 €
1.823	12.991 €	23.698.000 €
1.823	9.777 €	17.820.000 €
		822.403.852 €

Sconto %	Sconto €	Canone Annuale Scontato	Promozio X Q	Sconto totale
7,91%	1.120 €	15.374 €	73.382.952 €	6.299.833 €
54,99%	5.670 €	4.804 €	227.017.628 €	277.956.198 €
53,22%	7.144 €	6.456 €	76.287.267 €	86.782.139 €
61,67%	222 €	138 €	962.651 €	1.548.824 €
30,03%	59 €	138 €	1.483.777 €	620.250 €
30,03%	481.326 €	138 €	481.326 €	206.750 €
18,16%	36 €	169 €	1.126.182 €	249.969 €
72,02%	356 €	138 €	481.326 €	1.238.863 €
57,60%	188 €	138 €	481.326 €	653.999 €
0,00%	- €	- €	- €	- €
40,50%	74 €	382 €	- €	- €
40,50%	16 €	24 €	- €	- €
40,50%	66 €	110 €	- €	- €
40,50%	231 €	339 €	- €	- €
40,50%	1.031 €	2.103 €	- €	- €
40,50%	1.620 €	2.380 €	- €	- €
40,50%	10.079 €	14.807 €	10.795.680 €	7.948.320 €
40,50%	1.920 €	2.820 €	3.094.480 €	2.099.520 €
40,50%	3.096 €	4.548 €	1.657.908 €	1.128.493 €
40,50%	1.728 €	2.538 €	2.313.360 €	1.574.640 €
40,50%	5.099 €	7.492 €	13.655.250 €	9.294.750 €
40,50%	3.959 €	5.817 €	10.602.000 €	7.217.100 €
			423.784.212 €	403.619.640 €

48,78%

Quantità	Canone	P X Q
103.167	465 €	47.972.558 €
55.297	651 €	35.998.126 €
46.015	372 €	17.117.980 €
46.015	372 €	17.117.980 €
92.029	391 €	35.983.339 €
78.854	419 €	33.039.972 €
206.005	233 €	47.999.254 €
335	335 €	112.222 €
136.154	372 €	50.649.266 €
125.286	530 €	66.401.610 €
77.110	419 €	32.309.056 €
46.015	698 €	32.118.070 €
9.282	651 €	6.042.361 €
9.282	651 €	6.042.361 €
14.851	372 €	5.549.280 €
14.851	372 €	5.549.280 €
18.563	372 €	6.904.536 €
40.839	598 €	24.418.102 €
18.563	372 €	6.904.536 €
7.426	465 €	3.452.871 €
11.138	266 €	2.963.320 €
7.426	465 €	3.452.871 €
12.994	465 €	6.042.175 €
8.283	605 €	5.011.440 €
84.530	419 €	35.418.040 €
14.632	372 €	5.442.350 €
70	38.988 €	2.729.160 €
25.933	453 €	11.738.940 €
239	679 €	162.576 €
12	1.019 €	12.193 €
12	1.965 €	23.580 €
12	2.377 €	28.514 €
12	3.170 €	37.934 €
159	3.483 €	554.304 €
159	4.937 €	785.561 €
159	6.108 €	1.055.075 €
159	5.500 €	875.025 €
		541.711.124 €
		1.369.134.975 €

Sconto %	Sconto unitario €	Canone Annuale Scontato	Promozio X Q	Sconto totale
20,04%	93 €	372 €	38.357.418 €	9.615.140 €
40,50%	264 €	387 €	21.423.895 €	34.579.241 €
20,04%	75 €	297 €	13.866.703 €	3.430.877 €
20,04%	75 €	297 €	13.866.703 €	3.430.877 €
20,04%	78 €	313 €	28.771.198 €	7.212.141 €
40,50%	170 €	249 €	19.658.783 €	13.381.189 €
20,04%	47 €	186 €	38.378.763 €	9.620.490 €
20,04%	71 €	282 €	- €	- €
20,04%	75 €	297 €	40.497.634 €	10.151.632 €
40,50%	215 €	315 €	39.588.658 €	26.892.652 €
40,50%	170 €	249 €	19.223.889 €	13.085.168 €
40,50%	283 €	415 €	19.110.490 €	13.007.980 €
20,04%	130 €	521 €	4.831.931 €	1.211.070 €
20,04%	106 €	424 €	3.933.309 €	985.971 €
20,04%	75 €	297 €	4.417.299 €	1.107.294 €
20,04%	106 €	424 €	7.866.617 €	1.971.943 €
20,04%	112 €	446 €	18.220.888 €	4.567.421 €
20,04%	71 €	282 €	5.230.464 €	1.313.388 €
20,04%	93 €	372 €	2.760.812 €	692.059 €
20,04%	65 €	261 €	2.903.175 €	727.745 €
20,04%	93 €	372 €	2.760.812 €	692.059 €
20,04%	93 €	372 €	4.831.441 €	1.211.039 €
20,04%	121 €	484 €	4.006.397 €	1.004.449 €
20,04%	84 €	335 €	28.319.033 €	7.098.838 €
40,50%	75 €	297 €	4.352.020 €	1.090.931 €
40,50%	15.628 €	22.960 €	1.607.390 €	1.093.970 €
0,00%	- €	- €	567.081 €	- €
0,00%	- €	- €	108.384 €	- €
0,00%	- €	- €	162.576 €	- €
0,00%	- €	- €	1.019 €	- €
0,00%	- €	- €	1.965 €	- €
0,00%	- €	- €	2.377 €	- €
0,00%	- €	- €	3.170 €	- €
45,00%	1.867 €	1.915 €	304.867 €	249.437 €
45,00%	2.222 €	2.715 €	432.688 €	353.593 €
45,00%	2.916 €	3.577 €	569.911 €	465.784 €
0,00%	- €	- €	875.025 €	- €
			391.486.259,15 €	150.246.364,35 €
			815.270.971 €	553.864.004,16 €

27,73%

40,45%

Listino 3

Tipologia MIGRAZIONE	Figura	Attività
Figura professionale	Cloud Application Architect (tariffa giorno/persona)	Migrazione
Figura professionale	Database Specialist and Administrator (tariffa giorno/persona)	Migrazione
Figura professionale	System Integrator & Testing Specialist (tariffa giorno/persona)	Migrazione
Figura professionale	Cloud Application Specialist (tariffa giorno/persona)	Migrazione
Figura professionale	Cloud Security Specialist (tariffa giorno/persona)	Migrazione
Figura professionale	Enterprise Architect (tariffa giorno/persona)	Migrazione

Totale LISTINO 3

Quantità	Canone
50.407	651 €
75.611	419 €
151.222	353 €
100.814	530 €
75.611	419 €
50.407	698 €

P X Q
32.815.083 €
31.680.921 €
53.381.217 €
53.431.625 €
31.680.921 €
238.173.987 €

Sconto %	Sconto unitario €	Canone Annuale Scontato	Pscontato X Q	Sconto totale
40,50%	264 €	387 €	19.524.974 €	13.290.108 €
40,50%	170 €	249 €	18.850.148 €	12.830.773 €
40,50%	143 €	210 €	31.761.824 €	21.619.393 €
40,50%	215 €	315 €	31.791.817 €	21.639.808 €
40,50%	170 €	249 €	18.850.148 €	12.830.773 €
40,50%	283 €	415 €	20.934.611 €	14.249.609 €
40,50%			141.713.522 €	96.460.465 €

Macrotipologia	Tipo	Tipologia	Tipo	Quantità	Listino PSN	Indicazione Servizio Public Cloud di riferimento
Compute (Production) Riservate 3 anni	VM "convenzionali"	c1r2	3	228,55 €	F1s	
		c1r4	5	286,47 €	F2s v2	
		c2r4	6	286,47 €	F2s v2	
		c2r8	8	426,57 €	D2sv3	
		c2r16	10	468,21 €	E2s v4	
		c4r8	10	567,53 €	F4s v2	
		c4r16	11	853,45 €	D4sv3	
		c4r32	10	936,42 €	E4s v4	
		c8r16	9	1.134,75 €	F8s v2	
		c8r32	7	1.706,91 €	D8sv3	
		c8r64	6	1.872,85 €	E8s v4	
		c16r32	5	2.269,50 €	F16s v2	
		c16r64	4	3.413,51 €	D16s v3	
		c1r4	3	651,21 €	DC1s v2	
		c2r8	6	1.302,81 €	DC2s v2	
		c4r16	11	2.605,23 €	DC4s v2	
		c8r32	7	5.210,98 €	Dc8s v2	
		c4r16	8	853,45 €	D4sv3	
		c4r16	8	2.605,23 €	DC4s v2	
		Compute & Network	VM Confidential	serverless 4-core 500 GB con	1	18.516,39 €
4-core 500 GB con licenza	1			4.113,37 €	Azure Database for PostgreSQL - 500GB	
c4r16	4			861,65 €	Azure machine learning D4sv3	
300 Hrs/month	1			3.310,88 €	Azure Cognitive Services - AAA-92197	
c4r8	3			9.796,52 €	App Service Windows - Isolated v2 (I3) RI 3Y	
c1r2	1			437,88 €	F1s	
c1r4	1			759,63 €	F2s v2	
c2r4	1			759,63 €	F2s v2	
c2r8	1			923,30 €	D2sv3	
c2r16	1			1.171,95 €	E2s v4	
Compute a consumo(Altri ambienti)	VM "convenzionali"	c4r8	1	1.499,22 €	F4s v2	
		c4r16	1	1.846,60 €	D4sv3	
		c4r32	1	2.343,90 €	E4s v4	
		c8r16	1	2.989,29 €	F8s v2	
		c8r32	1	3.702,33 €	D8sv3	
		c8r64	1	4.686,88 €	E8s v4	
		c16r32	1	5.987,72 €	F16s v2	
		c16r64	1	7.404,67 €	D16s v3	
		c1r4	1	1.039,38 €	DC1s v2	
		c2r8	1	2.066,24 €	DC2s v2	
		c4r16	1	4.156,28 €	DC4s v2	
		c8r32	1	8.310,06 €	Dc8s v2	
		dischi SSD Standard (128 GB)	138	101,43 €	E10 (AAD-36603)	
		dischi SSD Premium (128 GB)	138	228,91 €	P10 (AAD-18125)	
		ore di servizio	8760	0,56 €	ExpressRoute Gateway - ErGw2AZ - Gateway	
		Storage				
Storage						
Storage						

SECURE PUBLIC CLOUD

Microsoft Azure West Europe

Macrotipologia	Tipo	Tipologia	Tipo	Quantità	Listino PSN	Indicazione Servizio Public Cloud di riferimento		
Public Cloud Security & Backup	Network	Bandwidth (GB/anno)	GB per anno	24000	0,02 €	ExpressRoute - Metered Data Data Transfer Out - Zone 1		
		Speed (Gbs)	Giorni di accensione	365	24,75 €	ExpressRoute - Standard - Metered Data - 2 Gbps Circuit - Zone 1		
		Bandwidth Internet (TB/anno)	TB annui	12	77,00 €	Bandwidth - Routing Preference: Microsoft Global network - Data Transfer Out - Zone 1		
	Defense in Depth	XDR per Servers	XDR per Servers	istanze	138	154,15 €	Azure Defender for servers - Standard - Nodes	
		XDR per SQL	XDR per SQL	istanze	6	158,41 €	Azure Defender for SQL - Standard Node - Istanze/mese	
		XDR per Storage	XDR per Storage	1M Transazioni Standard per vCore	140,5	21,16 €	Azure Defender for Storage - Standard Transactions	
		XDR per Kubernetes	XDR per Kubernetes	100 immagini standard	64	20,75 €	Azure Defender for Kubernetes - Standard Cores	
		XDR per container registry	XDR per container registry	100 immagini standard	1	25,53 €	Azure Defender for container registries - Standard Images	
	SIEM	Monitor	XDR per Key Vault	1M Transazioni Standard	2	17,59 €	Azure Defender for Key Vault - Standard Transactions	
			SIEM service	GB per giorno	31,74	823,74 €	Sentinel - Analysis - EU West (stima per 40 GB al giorno)	
		Firewall	SIEM Data Ingestion	SIEM Data Ingestion	GB per giorno	31,74	789,43 €	Log Analytics - Data Ingestion - EU West
			SIEM Data retention (6 mesi)	SIEM Data retention (6 mesi)	GB per giorno	31,74	125,23 €	3 mesi gratuiti di retention per Sentinel
			Monitor VM Data ingestion	Monitor VM Data ingestion	GB per giorno	31,74	789,43 €	Log Analytics - Data Ingestion - EU West
Cloud Backup		Monitor Data retention (1 mesi)	Monitor Data retention (1 mesi)	GB per giorno	1	- €	1 mese gratuito di retention per LogAnalytics	
		Deployment	Deployment	Istanze	1	13.490,95 €	Azure FW Premium (AAF-69092)	
PSN Security & Backup	Professional Services	Data managed	TB mese	6	173,06 €	Azure FW Premium - Data Processed (6TB mese) (AAF-69161)		
		Istanze Protette	Numero VM	138	106,19 €			
	Key Vault	Storage occupato	Storage occupato	GB	35328	0,25 €		
		Backup on premise	10 giorni/mese (Security Posture, Policy Verification)					
Additional Security	Managed HSM and AKV operations (HSM on premise)	Managed HSM and AKV operations (HSM on premise)						
	Storage	Storage						
TOTALE Progetto Cloud 1					511.994			

Macrotipologia	Tipo	Tipologia	Tipo	Quantità	Listino PSN	Indicazione Servizio Public Cloud di riferimento
Compute (Production) riservate a 3 anni			c1r4	4	177,93 €	n1-standard-1
			c2r4	5	125,50 €	e2-medium
			c2r8	6	251,00 €	e2-standard-2
			c2r16	7	338,62 €	e2-highmem-2
			c4r16	9	695,21 €	c2-standard-4
			c4r32	8	677,24 €	e2-highmem-4
			c8r32	7	1.390,54 €	c2-standard-8
			c8r64	6	1.354,61 €	e2-highmem-8
			c16r64	4	2.780,95 €	c2-standard-16
			c1r4	3	241,74 €	n1-standard-1
			c2r8	6	378,64 €	e2-standard-2
			c4r16	9	982,87 €	n2-standard-4
			c8r32	6	1.776,44 €	n2d-standard-8
			c4r16	6	1.293,87 €	n2-standard-4
			c4r16	6	1.549,15 €	n2-standard-4
			Compute & Network			4-core 500 GB con licenza
c1r4	1	276,79 €				db-standard-4
c2r4	1	278,99 €				c2-standard-4
c2r8	1	557,85 €				Speech-to-Text
c4r16	1	752,52 €				n1-standard-1
c4r32	1	1.505,04 €				e2-medium
c8r32	1	2.263,55 €				e2-highmem-2
c16r64	1	4.462,69 €				e2-highmem-4
c2r8	1	2.251,33 €				n2d-standard-8
c4r16	1	3.010,20 €				e2-highmem-8
dischi SSD Standard (128 GB)	280	55,57 €				
Managed Disks						
Networking Cloud Load Balancing						
HTTPS External Regional Forwarding						
Rule Europe						
Network						rule (per day per project)
			Cloud Interconnect for MPS - 10Gbps Pa	1	18.287,53 €	
			Cloud Interconnect for MPS - 10Gbps	2	446,04 €	2 vlan attachment
			Partner circuit	12000	0,18 €	1TB mese
			Egress to EMEA	25	52,86 €	Cloud Armon Policies
			Policy	25	10,57 €	Cloud Armon rules
			Rules	5	7,93 €	Cloud Armon incoming request
			Incoming Request	4000	0,01 €	recapcha
			Chapcha	150	2,75 €	
			Container Analysis	1000	37,68 €	Chronicle
			User Monitoring	5	5.689,95 €	Security Command Center Premium Tier
			Daily Data Volume	50	9,85 €	
			Storage Bytes Inspected (fino a 51,200 G)	450	7,39 €	
			Storage Bytes Inspected (51,200 GiB - 51	4550	5,91 €	
			Storage Bytes Inspected (>512,000 gibib	50	9,85 €	
			Storage Bytes Transformed (fino a 51,20			
Public Cloud Security & Backup						

SECURE PUBLIC CLOUD

GPC

Macrotipologia	Tipo	Tipologia	Tipo	Quantità	Listino PSN	Indicazione Servizio Public Cloud di riferimento
PSN Security & Backup	Monitor IAM Backup Professional Services Key Vault Backup on premise Additional Security	Storage Bytes Transformed (>512,000 gigabyte)	gigabyte	950	5,91 €	
		Logging ingestion	gigabyte	1224	5,69 €	
		Logging storage	gigabyte	979,2	0,10 €	
		Cloud Monitoring	(5K metric size, 60 metric x hd quantity)	510	0,48 €	
		Active directory		2	3,086,92 €	
		Storage occupato	GB	26112	0,48 €	Attilio
		10 giorni/mese (Security Posture, Policy Verification)				
		Managed HSM and AKV operations (HSM Secret manager (100 secret, 100K ops, 1200 mese)				
		GPC Access Transparency, GPC Access Approval, Assurant Personnel Controls, Key Access Justifications		10	4.760,38 €	
				TOTALE Progetto Cloud 2		318.610

Per l'elenco completo delle voci di listino si faccia riferimento alla documentazione di gara "Proposta PSN-Listino servizi 2.0", Guida Secure Public Cloud

Tipologia	Tipologia	Tipologia	Unit	Time	Applicazione tradizionale medio piccola	Applicazione tradizionale con molta memoria + NAS	Simulazione applicazione cloud native microservizi	Applicazione cloud native microservizi in PaaS	Applicazione cloud analisi fatture basata su Document AI	Applicazione di prenotazioni appuntamenti (i.e. CUP) basata su Conversazionale AI	Serverless Analytics a Consumo con Dashboard di visualizzazione	Applicazione Flat con Dashboard di visualizzazione	Applicazione per gestire appuntamenti via web	Soluzione DevOps CI/CD	Applicazione con molta memoria ed Escalata	Prezzo servizio esposto dal PSN annuo	
Licensed Cloud Hyperscaler Technology	vCPUs (vCPU/hour), Memory optimized Commitment 3 anni	General Purpose N2	vCPU	hour	8	24	24									118,98 €	
		Compute optimized	vCPU	hour													113,69 €
		Memory optimized	vCPU	hour													87,36 €
		Shared Core (burstable e2-Micro Instance)	vCPU	hour													31,55 €
		Accelerated Core A2	vCPU	hour													92,54 €
		Sole Tenancy Compute Optimized Core	vCPU	hour													284,22 €
		Sole Tenancy Compute Optimized RAM	vCPU	hour													35,48 €
		Sole Tenancy Memory Optimized Core	vCPU	hour													82,09 €
		Sole Tenancy Memory Optimized RAM	gigabyte	hour													271,30 €
		Accelerated Instances RAM	gigabyte	hour													86,18 €
Licensed Cloud Persistent Storage Hyperscaler Technology	Memory (GB/hour), Commitment 3 anni	General Purpose RAM	gigabyte	hour	16	192	64									12,92 €	
		Memory Instances RAM	gigabyte	hour													11,97 €
		Compute Optimized RAM	gigabyte	hour													26,70 €
		Shared RAM (burstable e2-Micro Instance)	gigabyte	hour	24	48											74,40 €
		Extended Memory (Custom Extended Instance Ram)	gigabyte	hour													41,66 €
		Confidential Computing Instance Core	vCPU	hour													5,20 €
		Confidential Computing Instance RAM	gigabyte	hour													0,78 €
		Persistent Disk Standard	gigabyte	hour	200												1,65 €
		Persistent Disk SSD	gigabyte	hour			1000	400									0,97 €
		Balanced PD	gigabyte	hour													1,21 €
Cloud Storage	Storage	Extreme PD IOPS	gigabyte	hour												184,11 €	
		PD Snapshot	gigabyte	hour												202,52 €	
		Opzione Protezione Multi-Region	gigabyte	hour												6,40 €	
		Filestore Backup Storage	gigabyte	hour													0,87 €
		Filestore storage	gigabyte	hour			1000										0,94 €
		Archive Storage Multi-region	gigabyte	hour													0,04 €
		Class A Operations	1000 count	hour													217,46 €
		Class B Operations	10000 count	hour													3,801,70 €
		Data Retrieval Operations	gigabyte	hour													3,540,66 €
		Colline Storage Multi-region	gigabyte	hour													0,07 €
Licensed Cloud Storage Hyperscaler Technology	Cloud Storage	Class A Operations	1000 count	hour												76,03 €	
		Class B Operations	10000 count	hour												0,25 €	
		Data Retrieval Operations	gigabyte	hour													380,17 €
		Durable Reduced Availability Storage	gigabyte	hour													0,19 €
		Class A Operations	1000 count	hour													76,03 €
		Class B Operations	10000 count	hour													0,25 €
		Standard Storage Multi-region	gigabyte	hour													380,17 €
		Class A Operations	10000 count	hour													30,41 €
		Class B Operations	100000 count	hour													0,10 €
		Neatline Storage Multi-region	gigabyte	hour													760,34 €
VPN	VPN	Class A Operations	10000 count	hour												70,81 €	
		Class B Operations	100000 count	hour												0,19 €	
		Data Retrieval Operations	gigabyte	hour													380,17 €
		Standard Storage Regional	gigabyte	hour													304,14 €
		Class A Operations	10000 count	hour													380,17 €
		Class B Operations	100000 count	hour													1,16 €
		VPN TUNNEL	tunnel	hour													1,07 €
		VPN Traffic Egress EMEA 0 to 1,024 gibibyte	gigabyte	hour													0,78 €
		VPN Traffic Egress EMEA 1,024 to 10,240	gigabyte	hour													17,944,02 €
		Networking	Static IP	VPN Traffic Egress EMEA 10,240 to 100,000	gigabyte	hour											
Static IP charge (VM external or VPN Gateway)	per ip			hour	1											17,944,02 €	
Cloud Interconnect for MPS - 10Gbps Partner circuit	circuit			hour													475,21 €
Cloud Interconnect for MPS - 100Gbps Partner circuit	circuit			hour													137,241,31 €
Cloud Interconnect for MPS - 100Mbps Partner circuit	circuit			hour													2,112,72 €
Cloud Interconnect - 100Mbps VLAN attachment via Google partner	vlan attachment			hour													17,944,02 €
Cloud Interconnect - 1Gbps VLAN attachment via Google partner	vlan attachment			hour													141,62 €
Cloud Interconnect - 10Gbps VLAN attachment via Google partner	vlan attachment			hour													318,66 €
America/Europe)	gigabyte			hour													10,64 €
NAT Gateway	instance			hour													83,64 €
Partner Interconnect	Partner Interconnect	NAT Gateway: Data processing charge in Belgium	gigabyte	hour												57,36 €	
		NAT Gateway: Uptime charge in Belgium	hour													190,08 €	
		Networking Cloud Load Balancing HTTPS External Regional Forwarding Rule (project)	hour	1	10	10	10										76,03 €
		Networking Cloud Load Balancing HTTPS External Regional Inbound Data Pro	gigabyte	hour													56,85 €
		Forwarding Rule Minimum Service Charge in EMEA	rule	hour													2,08 €
		Forwarding Rule Additional Service Charge in EMEA	rule	hour													2,08 €
		Data Processing Charge in EMEA	gigabyte	hour													2,08 €
		DNS Query (port 53) 0 to 1,000,000,000 count	per 1,000,000 count	hour													2,08 €
		DNS Query (port 53) 1,000,000,000 count and above	per 1,000,000 count	hour													2,08 €
		ManageZone for 0 to 25	per zone	hour													2,08 €
ManageZone 25 to 10,000	per zone	hour													2,08 €		
ManageZone 10,000 month and above	per zone	hour													0,24 €		
Cache Egress to Europe	gigabyte	hour													0,24 €		

Tipologia	Tipologia	Unit	Time	Applicazione tradizionale medio-piccola	Applicazione tradizionale con molta memoria + IAS	Simulazione applicazione cloud native microservizi	Applicazione cloud native microservizi in PaaS	Applicazione di prenotazioni appuntamenti (i.e. CUP) basata su Conversazionale AI	Serverless Analytics a Consumo con Dashboard di visualizzazione	Applicazione Serverless Analytics Flat con Dashboard di visualizzazione	Applicazione Paas per gestire appuntamenti via web	Soluzione DevOps CI/CD	Applicazione con molta memoria ed scadenza	Prezzo servizio esposto dal PSN annuo	
Licensed Kubernetes Hyperscaler Technology	Cache Lookup Requests	10000	Count											57,08 €	
	Egress to Internet	gigabyte	hour	0.1										1.84 €	
	Kubernetes Engine Autopilot	cluster	hour											41,82 €	
	Autopilot Pod mCPU	vCPU	hour				12							372,57 €	
	Autopilot Pod Ephemeral Storage	gigabyte	hour				48							0.43 €	
	Autopilot Pod Memory	gigabyte	hour				24							38.38 €	
	Regional Kubernetes Clusters	cluster	hour											760.34 €	
	Zonal Kubernetes Clusters	cluster	hour											31.25 €	
	Multi-cluster Ingress backend Pod/Hours (standalone)	pod	hour											1.368.61 €	
	Cloud Build	hour	hour											10.42 €	
	Cloud Source Repository	Active users	hour											10.42 €	
	Cloud Run (tier 1)	hour	hour											3	
		CPUs	vCPU	hour											656.93 €
		Memory	gigabyte	hour								1			- €
		Requests	1M requests	hour								128			63.73 €
			hour	hour								10			4.17 €
		PostgreSQL no HA - MySQL no HA	vCPU	hour											- €
			RAM	hour											150.70 €
			gigabyte	hour											23.79 €
		Storage Capacity (SSD)	gigabyte	hour											1.65 €
		Storage Capacity (HDD)	gigabyte	hour											0.87 €
		Storage (Backup) - used	gigabyte	hour											0.78 €
		PostgreSQL Regional (HA), MySQL Regional (HA)	vCPU	hour											- €
			RAM	hour				8							301.47 €
			gigabyte	hour				52							47.59 €
	Storage Capacity (SSD)	gigabyte	hour				64							3.30 €	
	Storage Capacity (HDD)	gigabyte	hour				1024							1.75 €	
	Storage (Backup) - used	gigabyte	hour				2048							0.78 €	
	SQSEngine no HA	vCPU	hour											- €	
		RAM	hour											150.70 €	
		gigabyte	hour											23.79 €	
	Storage Capacity (SSD)	gigabyte	hour											1.65 €	
	Storage Capacity (HDD)	gigabyte	hour											0.78 €	
	Storage (Backup) - used	gigabyte	hour											- €	
	SQSEngine Regional (HA)	vCPU	hour											301.47 €	
		RAM	hour											47.59 €	
		gigabyte	hour											3.30 €	
	Storage Capacity (SSD)	gigabyte	hour											1.65 €	
	Storage Capacity (HDD)	gigabyte	hour											0.78 €	
	Storage (Backup) - used	gigabyte	hour											- €	
	SQLServer no HA	vCPU	hour											- €	
		RAM	hour											150.70 €	
		gigabyte	hour											23.79 €	
	Storage Capacity (SSD)	gigabyte	hour											1.65 €	
	Storage Capacity (HDD)	gigabyte	hour											0.78 €	
	Storage (Backup) - used	gigabyte	hour											- €	
	SQLServer Regional (HA)	vCPU	hour											301.47 €	
		RAM	hour											47.59 €	
		gigabyte	hour											3.30 €	
	Storage Capacity (SSD)	gigabyte	hour											1.65 €	
	Storage Capacity (HDD)	gigabyte	hour											0.78 €	
	Storage (Backup) - used	gigabyte	hour											- €	
	BigQuery	Queries (on-demand)	gigabyte						5000000					0.00 €	
		Flat Annual (min 100 slot)	hour						1000					17.71 €	
		Storage Active	hour						10240					0.19 €	
		Storage Long-Term	hour											0.10 €	
	Data Studio	gigabyte	hour						100					- €	
	Oracle Database Exadata Cloud at Customer - Database OCPU	OCPU	hour											10.161,40 €	
	Oracle Database Exadata Cloud at Customer - Database OCPU - BYOL	OCPU	hour											2.438.83 €	
	Gen 2 Exadata Cloud at Customer - Database OCPU	OCPU	hour											8	
	Gen 2 Exadata Cloud at Customer - Database OCPU - BYOL	OCPU	hour											10.161,40 €	
	Exadata Cloud at Customer - Autonomous Transaction Processing - Database OCPU	OCPU	hour											2.438.83 €	
	Exadata Cloud at Customer - Autonomous Transaction Processing - Database OCPU	OCPU	hour											10.161,40 €	
	Exadata Cloud at Customer - Autonomous Data Warehouse - Database OCPU	OCPU	hour											2.438.83 €	
	Exadata Cloud at Customer - Autonomous Data Warehouse - Database OCPU	OCPU	hour											10.161,40 €	
	MySQL Document DB ops	100,000 count	hour											0.05 €	
	MySQL Document DB storage	gigabyte	hour											1.75 €	
	Oracle Autonomous Data Warehouse - Exadata Storage	Terabyte	month											895.101,54 €	
	Oracle Autonomous Transaction Processing - Exadata Storage	Terabyte	month											895.101,54 €	
	Oracle Database Cloud Service - Standard Edition	OCPU	hour											1.625,41 €	
	Oracle Database Cloud Service - Enterprise Edition	OCPU	hour											3.251,54 €	
	Oracle Database Cloud Service - Enterprise High Performance	OCPU	hour											6.706,42 €	
	Oracle Database Cloud Service - Enterprise Edition Extreme Performance	OCPU	hour											10.161,40 €	
	Oracle Database Cloud Service - All Editions - BYOL	OCPU	hour											1.462,82 €	
	MySQL Database - Standard - E2	OCPU	hour											353,01 €	
	MySQL Database - Storage	Gbyte	hour											302,42 €	
	MySQL Database - Backup Storage	Storage Capacity Per Month	hour											302,42 €	
	MySQL Database - Bare Metal Standard - E2	Node	hour											3.793,64 €	
	MySQL Database - Standard - E3	OCPU	hour											287,27 €	
	MySQL Database - Standard - E3 - Memory	Gbyte	hour											16,66 €	
	Anomaly detection	conversation	hour											- €	
	Digital Assistant (CCA)	conversation	hour											- €	
	Standard CCA Insights natural language analysis	conversation	hour						50000					0,52 €	

