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.

Listino 1

Industry Standard

Tipologia	Elemento	CORE [Q]	RAM [GB]	vCPU [Q]	vRAM [GB]	Storage [GB]	Caratteristiche tecniche minime	Quantità	Canone Annuale	P X Q	Sconto %	Sconto €	Canone Annuale Scontato	Pscontato X Q	Sconto totale
IaaS Private (HA)	Blade Medium	24	256				Server features 2 socket Intel® Xeon® Scalable processor family, with up to 32 DIMMs (up to 6TB), PCIExpress® (PCIe)	45.321	11.083 €	502.291.287 €	55,00%	6.095,65 €	4.987 €	226.031.079,06 €	276.260.207,74 €
IaaS Private (HA)	Blade Large	36	768				Server features 2 socket Intel® Xeon® Scalable processor family, with up to 32 DIMMs (up to 6TB), PCIExpress® (PCIe) 4.0 enabled I/O 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	7.558	15.922 €	120.342.381 €	49,50%	7.881,15 €	8.040 €	60.772.902,26 €	59.569.478,45 €
IaaS - Storage (HA)	Storage High Performance					500	SAN NVMe based, replicato intra-region, 170K IOPS per Storage Array	18.145	721 €	13.080.474 €	49,50%	356,84 €	364 €	6.605.639,28 €	6.474.834,55 €
IaaS - Storage (HA)	Storage Standard Performance					500	SAN All Flash based, replicato intra-region, 130K IOPS per Storage Array	27.217	395 €	10.751.074 €	49,50%	195,53 €	199 €	5.429.292,56 €	5.321.781,82 €
IaaS - Storage (HA)	NAS					500	NVMe based, replicato intra-region, 130K IOPS per Storage Array	9.072	395 €	3.583.691 €	5,00%	19,75 €	375 €	3.404.506,89 €	179.184,57 €
IaaS - Storage (HA)	Object storage					500	Replicato inter-region	18.145	395 €	7.167.383 €	49,50%	195,53 €	199 €	3.619.528,37 €	3.547.854,55 €
IaaS - Storage (HA)	Storage HP Encrypted					500	SAN NVMe based, replicato intra-region, crittografato a livello di singolo volume, 170K IOPS per Storage Array	9.072	988 €	8.959.229 €	49,50%	488,83 €	499 €	4.524.410,47 €	4.434.818,18 €
IaaS - Storage (HA)	Storage SP Encrypted					500	SAN All Flash based, replicato intra-region, crittografato a livello di singolo volume, 130K IOPS per Storage Array	9.072	652 €	5.913.091 €	49,50%	322,63 €	329 €	2.986.110,91 €	2.926.980,00 €
IaaS Shared (HA)	VM Tiny			1	2	100		127.055	544 €	69.088.499 €	49,50%	269,17 €	275 €	34.889.691,89 €	34.198.806,90 €
IaaS Shared (HA)	VM Small			2	4	100		95.296	1.077 €	102.636.907 €	60,00%	646,22 €	431 €	41.054.762,66 €	61.582.143,99 €
IaaS Shared (HA)	VM Medium			4	8	100	Replica intra-region sincrona con duplicazione delle risorse sul secondario (0<RPO<1min, 0<RTO (IaaS)<30min); include i costi del backbone con latenza <5ms;	63.527	2.082 €	132.234.893 €	60,00%	1.248,92 €	833 €	52.893.957,30 €	79.340.935,96 €
IaaS Shared (HA)	VM Large			8	16	100		23.826	3.844 €	91.580.381 €	60,00%	2.306,20 €	1.537 €	36.632.152,38 €	54.948.228,57 €
IaaS Shared (HA)	VM X-Large			16	32	100		7.942	7.352 €	58.393.299 €	35,00%	2.573,33 €	4.779 €	37.955.644,44 €	20.437.654,70 €
IaaS Shared (HA)	Pool Small			8	32		Sistema operativo escluso	7.942	2.973 €	23.608.717 €	49,50%	1.471,44 €	1.501 €	11.922.402,07 €	11.686.314,90 €
IaaS Shared (HA)	Pool Medium			16	64		Infrastruttura basata su server Intel 6342, 24 core, cache 36MB, 230W	7.942	5.435 €	43.161.478 €	49,50%	2.690,08 €	2.744 €	21.796.546,37 €	21.364.931,59 €
IaaS Shared (HA)	Pool Large			32	128			3.966	10.529 €	41.762.164 €	55,00%	5.790,98 €	4.738 €	18.792.973,58 €	22.969.189,93 €
IaaS Shared (HA)	Pool X-Large			64	256			992	19.310 €	19.147.937 €	45,00%	8.689,62 €	10.621 €	10.531.365,29 €	8.616.571,60 €
CaaS	Licensed - Medium	24	256				HW IaaS Private, Tanzu Basic, Opzione Plus	2.000	8.888 €	17.779.519 €	49,50%	4.399,44 €	4.488 €	8.978.656,87 €	8.800.861,68 €
CaaS	Licensed - Large	36	768				HW IaaS Private, Tanzu Basic, Opzione Plus	1.005	21.107 €	21.220.071 €	49,50%	10.447,98 €	10.659 €	10.716.135,85 €	10.503.935,14 €
CaaS	Open Source (vCPU/anno)						Gestione ambienti kubernetes based	2.000	889 €	1.777.952 €	49,50%	439,94 €	449 €	897.865,69 €	880.086,17 €
PaaS - DB	Mysql			2			Licenza inclusa (ultima/penultima versione certificata). Servizio gestito.	18.886	1.900 €	35.878.403 €	20,00%	379,94 €	1.520 €	28.702.722,57 €	7.175.680,64 €
PaaS - DB	PostgreSQL			2			Licenza inclusa (ultima/penultima versione certificata). Servizio gestito.	19.327	1.857 €	35.888.786 €	20,00%	371,38 €	1.486 €	28.711.029,16 €	7.177.757,29 €
PaaS - DB	SQL server			2			Licenza inclusa (ultima/penultima versione certificata). Servizio gestito.	4.534	5.394 €	24.456.162 €	20,00%	1.078,70 €	4.315 €	19.564.929,27 €	4.891.232,32 €
PaaS - DB	Oracle dbms - Enterprise			4	12		Servizio gestito (ultima/penultima versione certificata). Licenza Oracle Enterprise Edition inclusa.	308	26.471 €	8.146.849 €	49,50%	13.103,29 €	13.368 €	4.114.158,71 €	4.032.690,22 €
PaaS - DB	Oracle dbms - Standard			2	12		Servizio gestito (ultima/penultima versione certificata). Licenza Oracle Standard Edition inclusa.	1.375	11.873 €	16.321.653 €	49,50%	5.877,21 €	5.996 €	8.242.434,63 €	8.079.218,10 €
PaaS - DB	MongoDB			2			Licenza inclusa (ultima/penultima versione certificata). Servizio gestito.	1.559	6.261 €	9.762.830 €	49,50%	3.099,16 €	3.162 €	4.930.229,09 €	4.832.600,79 €
PaaS - DB	MariaDB			2			Licenza inclusa (ultima/penultima versione certificata). Servizio gestito.	17.265	1.891 €	32.655.483 €	49,50%	936,23 €	955 €	16.491.018,80 €	16.164.463,97 €
PaaS - Big Data	Data Lake - 1TB					1024	HDFS - ridondanza 3 copie - 20K IOPS	5.468	593 €	3.240.000 €	49,50%	293,30 €	299 €	1.636.200,00 €	1.603.800,00 €
PaaS - Big Data	Batch/Real time Processing - 1 Worker			4	128		Apache Spark su processore fisico 26 core 2,70 Ghz con virtualization ratio 1:2	1.094	13.924 €	15.228.000 €	49,50%	6.892,45 €	7.032 €	7.690.140,00 €	7.537.860,00 €
PaaS - Big Data	Event Message - 1 Worker			4	32		Apache Kafka su processore fisico 26 core 2,70 Ghz virtualization ratio 1:2	273	6.666 €	1.822.500 €	49,50%	3.299,58 €	3.366 €	920.362,50 €	902.137,50 €
PaaS - Big Data	Data Governance						Portale self-service con catalogo e governance dei dati	182	5.925 €	1.080.000 €	10,00%	592,52 €	5.333 €	972.000,00 €	108.000,00 €
Sistemi operativi	Windows Server STD CORE (2 core)						Licenza Microsoft Server. Ultima release disponibile	262.815	129 €	34.032.715 €	10,00%	12,95 €	117 €	30.629.443,40 €	3.403.271,49 €
Sistemi operativi	Red Hat per VM						Licenza Red Hat per singola VM. Ultima release disponibile.	100.899	604 €	60.973.344 €	10,00%	60,43 €	544 €	54.875.829,95 €	6.097.314,44 €
Sistemi operativi	Red Hat per Bare Metal						Licenza per due socket. Ultima release disponibile.	33.446	1.079 €	36.092.276 €	10,00%	107,91 €	971 €	32.483.048,27 €	3.609.227,59 €
Data Protection	Opzione DR						Replica su altra region	125.696.242	1 €	105.557.636 €	22,50%	0,19 €	1 €	81.807.167,83 €	23.750.468,08 €
Data Protection	Backup					1.000	Gestione delle policy in modalità self-managed; cifratura dei dati; ripristino granulare dei dati in modalità "a caldo e out-of-plane"; seconda copia intra-region; GDPR compliant		642 €		49,50%	317,74 €	324 €	- €	- €
Data Protection	Golden copy						Protezione antivirus, antimalware e anti-ransomware proattivo; WORM copy; archiviazione in ambiente protetto privo di ogni accesso fisico e logico		770 €		49,50%	381,28 €	389 €	- €	- €
Multicloud	CMP per server					1.000	Portale self-service con catalogo dei servizi unificato, Governance; Dashboard personalizzabili; Capacity Planning; Compliance; Report di Cost Control e Capacity planning and Resource Usage; Performance Monitoring; Gestione finanziaria dell'IT		148 €		49,50%	73,32 €	75 €	- €	- €
							Prezzo per istanza								
Security	Antivirus								829 €		49,50%	410,52 €	419 €	- €	- €
IaaS Shared	VM Tiny			1	2	100			348 €		49,50%	172,38 €	176 €	- €	- €
IaaS Shared	VM Small			2	4	100			722 €		60,00%	432,91 €	289 €	- €	- €
IaaS Shared	VM Medium			4	8	100			1.415 €		60,00%	848,97 €	566 €	- €	- €
IaaS Shared	VM Large			8	16	100	Gestione hypervisor, over-commit 1:2.		2.629 €		60,00%	1.577,40 €	1.052 €	- €	- €
IaaS Shared	VM X-Large			16	32	100			5.046 €		35,00%	1.766,18 €	3.280 €	- €	- €
IaaS Shared	Pool Small			8	16		Sistema operativo escluso		1.951 €		49,50%	965,85 €	985 €	- €	- €
IaaS Shared	Pool Medium			16	32				3.545 €		49,50%	1.754,75 €	1.790 €	- €	- €
IaaS Shared	Pool Large			32	128				7.033 €		55,00%	3.868,36 €	3.165 €	- €	- €
IaaS Shared	Pool X-Large			64	256				12.843 €		45,00%	5.779,47 €	7.064 €	- €	- €
IaaS Private	Blade Medium	24	256						7.778 €		49,50%	3.849,87 €	3.928 €	- €	- €
IaaS Private	Blade Large	36	768						11.172 €		49,50%	5.529,97 €	5.642 €	- €	- €
IaaS Shared (HA)	Pool - 1GB ram aggiuntivo			1			Risorsa aggiuntiva per Pool IaaS Shared		64 €		49,50%	31,68 €	32 €	- €	- €
IaaS Shared (HA)	Pool - 1vCPU aggiuntiva						Risorsa aggiuntiva per Pool IaaS Shared		126 €		49,50%	62,37 €	64 €	- €	- €
IaaS Shared	Pool - 1GB ram aggiuntiva			1			Risorsa aggiuntiva per Pool IaaS Shared		45 €		49,50%	22,28 €	23 €	- €	- €
IaaS Shared	Pool - 1vCPU aggiuntiva			1			Risorsa aggiuntiva per Pool IaaS Shared		88 €		49,50%	43,56 €	44 €	- €	- €
Connettività	Connessione dedicata 1 Gbps						Tecnologia Gbe MPLS, profilo Silver 1000, TIR L2/L3 e outsourcing		86.942 €		90,00%	78.248,16 €	8.694 €	- €	- €
Tot Industry standard										1.715.616.862 €	46,25%		922.206.338 €		793.410.523 €

Hybrid Cloud on PSN site

Tipologia	Elemento	CORE	RAM	vCPU	vRAM	Storage	Quantità	Canone Annuale	P X Q	Sconto %	Sconto €	Canone Annuale Scontato	Pscontato 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 €	12.515.366 €
	Azure Stack HCI + Azure ARC basato su Cluster SDDC basato su nodi processore fisico 26 core 2,70 Ghz, o equivalente Storage Hyperconverged Ibrido (6 x 1.6 TB SAS SSD Write-Intensive 12 x 4 TB 7.2K SAS) Infrastruttura di rete ethernet 10/25 Gbps incluse Licenze di virtualizzazione (Compute, Network & Storage) Gestione sistemistica e monitoraggio di sicurezza fino all'hypervisor e integrazione													
Policy	Server — Policy per server						33.393	86 €	2.857.930 €	7,00%	6 €	80 €	2.657.875 €	200.055 €
Kubernetes	vCPU			1			53.428	29 €	1.545.568 €	7,00%	2 €	27 €	1.437.379 €	108.190 €
SQL Data services	vCPU — Postgres o Sql server			1			10.018	2.213 €	22.168.389 €	7,00%	155 €	2.058 €	20.616.602 €	1.551.787 €
Monitoring	GB — GB di log analizzati al giorno						14.609	1.322 €	19.319.902 €	7,00%	93 €	1.230 €	17.967.509 €	1.352.393 €
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	Pscontato X Q	Sconto totale
Progetto Cloud 1		694	550.531 €	382.290.699 €	7,00%	38.537 €	511.994 €	355.530.350 €	26.760.349 €
Progetto Cloud 2		477	342.591 €	163.553.812 €	7,00%	23.981 €	318.610 €	152.105.046 €	11.448.767 €
Tot Secure Public Cloud				545.844.511 €	7,00%			507.635.395 €	38.209.116 €

Public Cloud PSN managed (2)

Tipologia	Elemento	Quantità	Canone Annuale	P X Q	Sconto %	Sconto €	Canone Annuale Scontato	Pscontato 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%			227.085.390 €	97.322.310 €
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 originario al fine di correggere il calcolo

Listino 2

Industry Standard

Tipologia	Elemento	CORE [Q]	RAM [GB]	vCPU [Q]	vRAM [GB]	Storage [GB]	Caratteristiche tecniche minime	Quantità	Canone Annuale	P X Q	Sconto %	Sconto €	Canone Annuale Scontato	Pscontato X Q	Sconto totale
Housing	Rack						1,75 mq, 3,5kw di energia inclusa, prossimità, cablaggi (16 fibra + 2 rame), suite	4.774	16.699 €	79.692.584 €	7,91%	1.320 €	15.374 €	73.392.752 €	6.299.833 €
Housing	Server (1RU)	16	64			2.700	Server dedicato ospitato all'interno di un rack condiviso. Sistema operativo escluso. Processore: Intel Gold 6334, 8 core, 3,6GHz, cache 18MB, 165W	47.253	10.674 €	504.374.026 €	54,99%	5.870 €	4.804 €	227.017.828 €	277.356.198 €
Hosting	Server su rack dedicato (1RU)	16	64			2.700	Server e rack dedicato. Sistema operativo escluso. Processore Intel Gold 6334, 8 core, 3.6GHz, cache 18MB, 165W	11.816	13.801 €	163.069.400 €	53,22%	7.344 €	6.456 €	76.287.267 €	86.782.132 €
Hosting - Storage	Storage High Performance					500	SAN NVMe based, 170K IOPS per Storage Array	6.968	360 €	2.511.475 €	61,67%	222 €	138 €	962.651 €	1.548.824 €
Hosting - Storage	Storage Standard Performance					500	SAN All Flash based, 130K IOPS per Storage Array	10.451	198 €	2.064.226 €	30,05%	59 €	138 €	1.443.977 €	620.250 €
Hosting - Storage	NAS					500	NVMe based, 130K IOPS per Storage Array	3.484	198 €	688.075 €	30,05%	59 €	138 €	481.326 €	206.750 €
Hosting - Storage	Object storage					500		6.968	198 €	1.376.151 €	18,16%	36 €	162 €	1.126.182 €	249.969 €
Hosting - Storage	Storage HP Encrypted					500	SAN NVMe based, crittografato a livello di singolo volume, 170K IOPS per Storage Array	3.484	494 €	1.720.189 €	72,02%	356 €	138 €	481.326 €	1.238.863 €
Hosting - Storage	Storage SP Encrypted					500	SAN All Flash based, crittografato a livello di singolo volume, 130K IOPS per Storage Array	3.484	326 €	1.135.325 €	57,60%	188 €	138 €	481.326 €	653.999 €
Housing	Potenza elettrica aggiuntiva (pacchetto da 1kW di targa)							-	1.384 €	- €	0,00%	- €	1.384 €	- €	- €
Housing	Rilancio connettività (fibra monomodale)						Rilancio in fibra intra-Data Center	-	183 €	- €	40,50%	74 €	109 €	- €	- €
Housing	IP Pubblico singolo							-	40 €	- €	40,50%	16 €	24 €	- €	- €
Housing	IP Pubblico /29 (8 indirizzi)							-	110 €	- €	40,50%	45 €	65 €	- €	- €
Housing	Cage						Serratura sul rack del cliente	-	570 €	- €	40,50%	231 €	339 €	- €	- €
Housing	Housing in sala TLC						Housing di un router cliente per connettività esterna dedicata	-	3.534 €	- €	40,50%	1.431 €	2.103 €	- €	- €
Housing	Moving server						Moving di un server da sede cliente al Data Center del PSN	-	4.000 €	- €	40,50%	1.620 €	2.380 €	- €	- €
PaaS - AI	AI Platform - 1 Worker - 1 GPU			8	64		Spark/Tensorflow/Keras/scikit processore fisico 26 core 2,70 GHz virtualization ratio 1:2 - Nvidia A100 dedicata	729	24.886 €	18.144.000 €	40,50%	10.079 €	14.807 €	10.795.680 €	7.348.320 €
PaaS - AI	Semantic Knowledge Search - 1 Worker			8	32		ElasticSearch su processore fisico 26 core 2,70 Ghz virtualization ratio 1:2	1.094	4.740 €	5.184.000 €	40,50%	1.920 €	2.820 €	3.084.480 €	2.099.520 €
PaaS - AI	Text Analytics / NLP - 1 Worker			8	32	2046	Analisi linguistica con entity recognition, sentiment analysis, NER su processore fisico 26 core 2,70 Ghz virtualization ratio 1:2	365	7.643 €	2.786.400 €	40,50%	3.096 €	4.548 €	1.657.908 €	1.128.492 €
PaaS - AI	Audio Analytics - 1 flusso audio H24 X 365G						Analisi audio per speech to text, text to speech, speaker verification, speaker identification, anomaly detection	911	4.266 €	3.888.000 €	40,50%	1.728 €	2.538 €	2.313.360 €	1.574.640 €
PaaS - AI	Video Analytics - 1 flusso video H24 X 365G						Analisi video per object recognition, object tracking, face recognaction, crowd counting	1.823	12.591 €	22.950.000 €	40,50%	5.099 €	7.492 €	13.655.250 €	9.294.750 €
PaaS - Spid Enabling & Profiling	Spid Enabling & Profiling 100 Utenti							1.823	9.777 €	17.820.000 €	40,50%	3.959 €	5.817 €	10.602.900 €	7.217.100 €
Tot Industry Standard										827.403.852 €	48,78%			423.784.212 €	403.619.640 €

Tipologia Priorità 2	Figura	Descrizione	Quantità	Canone	P X Q	Sconto %	Sconto unitario €	Canone Annuale Scontato	Pscontato X Q	Sconto totale
Figura professionale	Project Manager (tariffa giorno/persona)	Rearch&Replat, Profess Serv	103.167	465 €	47.972.558 €	20,04%	93 €	372 €	38.357.418 €	9.615.140 €
Figura professionale	Cloud Application Architect (tariffa giorno/persona)	Rearch&Replat, Profess Serv	55.297	651 €	35.998.126 €	40,50%	264 €	387 €	21.418.885 €	14.579.241 €
Figura professionale	UX Designer (tariffa giorno/persona)	Rearch&Replat	46.015	372 €	17.117.580 €	20,04%	75 €	297 €	13.686.703 €	3.430.877 €
Figura professionale	Business Analyst (tariffa giorno/persona)	Rearch&Replat	46.015	372 €	17.117.580 €	20,04%	75 €	297 €	13.686.703 €	3.430.877 €
Figura professionale	DevOps Expert (tariffa giorno/persona)	Rearch&Replat	92.029	391 €	35.983.339 €	20,04%	78 €	313 €	28.771.198 €	7.212.141 €
Figura professionale	Database Specialist and Administrator (tariffa giorno/persona)	Rearch&Replat, IT Infrastructur-service operation	78.854	419 €	33.039.972 €	40,50%	170 €	249 €	19.658.783 €	13.381.189 €
Business & Culture Eneblement	Developer (Cloud/Mobile/Front-End Developer) (tariffa giorno/persona)	Rearch&Replat, Business&Culture Enablement	206.005	233 €	47.999.254 €	20,04%	47 €	186 €	38.378.763 €	9.620.490 €
Figura professionale	System Integrator & Testing Specialist (tariffa giorno/persona)			353 €	- €	20,04%	71 €	282 €	- €	- €
Figura professionale	System and Network Administrator (tariffa giorno/persona)	Rearch&Replat, IT Infrastructur-service operation	136.154	372 €	50.649.266 €	20,04%	75 €	297 €	40.497.634 €	10.151.632 €
Figura professionale	Cloud Application Specialist (tariffa giorno/persona)	Rearch&Replat, Profess Serv	125.286	530 €	66.401.610 €	40,50%	215 €	315 €	39.508.958 €	26.892.652 €
Figura professionale	Cloud Security Specialist (tariffa giorno/persona)	Rearch&Replat, IT Infrastructur-service operation	77.110	419 €	32.309.056 €	40,50%	170 €	249 €	19.223.889 €	13.085.168 €
Figura professionale	Enterprise Architect (tariffa giorno/persona)	Rearch&Replat	46.015	698 €	32.118.470 €	40,50%	283 €	415 €	19.110.490 €	13.007.980 €
Figura professionale	Security Principal (tariffa giorno/persona)	Profess Serv	9.282	651 €	6.042.361 €	20,04%	130 €	521 €	4.831.291 €	1.211.070 €
Figura professionale	Senior Information Security Consultant (tariffa giorno/persona)	Profess Serv	9.282	530 €	4.919.280 €	20,04%	106 €	424 €	3.933.309 €	985.971 €
Figura professionale	Junior Information Security Consultant (tariffa giorno/persona)	Profess Serv	14.851	372 €	5.524.593 €	20,04%	75 €	297 €	4.417.299 €	1.107.294 €
Figura professionale	Security Solution Architect (tariffa giorno/persona)	Profess Serv	18.563	530 €	9.838.560 €	20,04%	106 €	424 €	7.866.617 €	1.971.943 €
Figura professionale	Senior Security Auditor/Analyst (tariffa giorno/persona)	Profess Serv	40.839	558 €	22.788.109 €	20,04%	112 €	446 €	18.220.688 €	4.567.421 €
Figura professionale	Junior Security Analyst (tariffa giorno/persona)	Profess Serv	18.563	353 €	6.552.852 €	20,04%	71 €	282 €	5.239.464 €	1.313.388 €
Figura professionale	Senior Penetration Tester (tariffa giorno/persona)	Profess Serv	7.426	465 €	3.452.871 €	20,04%	93 €	372 €	2.760.812 €	692.059 €
Figura professionale	Junior Penetration Tester (tariffa giorno/persona)	Profess Serv	11.138	326 €	3.630.920 €	20,04%	65 €	261 €	2.903.175 €	727.745 €
Figura professionale	Forensic Expert (tariffa giorno/persona)	Profess Serv	7.426	465 €	3.452.871 €	20,04%	93 €	372 €	2.760.812 €	692.059 €
Figura professionale	Data Protection Specialist (tariffa giorno/persona)	Profess Serv	12.994	465 €	6.042.175 €	20,04%	93 €	372 €	4.831.141 €	1.211.033 €
Figura professionale	Systems Architect (tariffa giorno/persona)	Profess Serv	8.283	605 €	5.011.440 €	20,04%	121 €	484 €	4.006.997 €	1.004.443 €
Business & Culture Eneblement	Product/Network/Technical Specialist (tariffa giorno/persona)	Business & Culture Eneblement Figura professionale	84.530	419 €	35.418.040 €	20,04%	84 €	335 €	28.319.203 €	7.098.838 €
Business & Culture Eneblement	Educational Designer/Tutoring (tariffa giorno/persona)	Business & Culture Eneblement Figura professionale	14.632	372 €	5.442.950 €	20,04%	75 €	297 €	4.352.020 €	1.090.931 €
Business & Culture Enablement	Costo adesione al servizio per Amministrazione	Business & Culture Eneblement Figura professionale	70	38.588 €	2.701.160 €	40,50%	15.628 €	22.960 €	1.607.190 €	1.093.970 €
Business & Culture Enablement	Canone settimanale per fascia utenti da 0 a 1.000	Business & Culture Eneblement Figura professionale	2.593	226 €	587.081 €	0,00%	- €	226 €	587.081 €	- €
Business & Culture Enablement	Canone settimanale per fascia utenti da 1.001 a 5.000	Business & Culture Eneblement Figura professionale	239	453 €	108.384 €	0,00%	- €	453 €	108.384 €	- €
Business & Culture Enablement	Canone settimanale per fascia utenti da 5.001 a 10.000	Business & Culture Eneblement Figura professionale	239	679 €	162.576 €	0,00%	- €	679 €	162.576 €	- €
Business & Culture Enablement	Canone settimanale per fascia utenti da 10.001 a 20.000	Business & Culture Eneblement Figura professionale	12	1.019 €	12.193 €	0,00%	- €	1.019 €	12.193 €	- €
Business & Culture Enablement	Canone settimanale per fascia utenti da 20.001 a 50.000	Business & Culture Eneblement Figura professionale	12	1.585 €	18.967 €	0,00%	- €	1.585 €	18.967 €	- €
Business & Culture Enablement	Canone settimanale per fascia utenti da 50.001 a 100.000	Business & Culture Eneblement Figura professionale	12	2.377 €	28.451 €	0,00%	- €	2.377 €	28.451 €	- €
Business & Culture Enablement	Canone settimanale per fascia utenti da 100.001 a 150.000	Business & Culture Eneblement Figura professionale	12	3.170 €	37.934 €	0,00%	- €	3.170 €	37.934 €	- €
Business & Culture Enablement	Corso bassa interattività	Business & Culture Eneblement Figura professionale	159	3.483 €	554.304 €	45,00%	1.567 €	1.915 €	304.867 €	249.437 €
Business & Culture Enablement	Corso media interattività	Business & Culture Eneblement Figura professionale	159	4.937 €	785.761 €	45,00%	2.222 €	2.715 €	432.168 €	353.592 €
Business & Culture Enablement	Corso alta interattività	Business & Culture Eneblement Figura professionale	159	6.503 €	1.035.075 €	45,00%	2.926 €	3.577 €	569.291 €	465.784 €
Business & Culture Enablement	A catalogo	Business & Culture Eneblement Figura professionale	159	5.500 €	875.402 €	0,00%	- €	5.500 €	- €	- €
Tot Figure Professionali					541.731.124 €	27,73%			391.486.759,15 €	150.244.364,36 €
TOTALE LISTINO 2					1.369.134.975 €	40,45%			815.270.970 €	553.864.004,16 €

Listino 3

Tipologia MIGRAZIONE	Figura	Attività	Quantità	Canone	P X Q	Sconto %	Sconto unitario €	Canone Annuale Scontato	Pscontato X Q	Sconto totale
Figura professionale	Cloud Application Architect (tariffa giorno/persona)	Migrazione	50.407	651 €	32.815.083 €	40,50%	264 €	387 €	19.524.974 €	13.290.108 €
Figura professionale	Database Specialist and Administrator (tariffa giorno/persona)	Migrazione	75.611	419 €	31.680.921 €	40,50%	170 €	249 €	18.850.148 €	12.830.773 €
Figura professionale	System Integrator & Testing Specialist (tariffa giorno/persona)	Migrazione	151.222	353 €	53.381.217 €	40,50%	143 €	210 €	31.761.824 €	21.619.393 €
Figura professionale	Cloud Application Specialist (tariffa giorno/persona)	Migrazione	100.814	530 €	53.431.625 €	40,50%	215 €	315 €	31.791.817 €	21.639.808 €
Figura professionale	Cloud Security Specialist (tariffa giorno/persona)	Migrazione	75.611	419 €	31.680.921 €	40,50%	170 €	249 €	18.850.148 €	12.830.773 €
Figura professionale	Enterprise Architect (tariffa giorno/persona)	Migrazione	50.407	698 €	35.184.221 €	40,50%	283 €	415 €	20.934.611 €	14.249.609 €
Totale LISTINO 3					**238.173.987 €**	**40,50%**			**141.713.522 €**	**96.460.465 €**

Macrotipologia	Tipo	Tipologia	Tipo	Quantità	Listino PSN	Indicazione Servizio Public Cloud di riferimento
Compute & Network	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
		VM Confidential	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
		CaaS convenzionale	c4r16	8	853,45 €	D4sv3
		CaaS Confidential	c4r16	8	2.605,23 €	DC4s v2
		MS SQL server convenzionale	serverless 4-core 500 GB con	1	18.516,39 €	SQL MI BC LRS - 512GB con Licenza - 3Y RI
		PostgreSQL convenzionale	4-core 500 GB con licenza	1	4.113,37 €	Azure Database for PostgreSQL - 500GB
		Machine Learning	c4r16	4	861,65 €	Azure machine learning D4sv3
		Artificial Intelligence - Speech-to-Text	300 Hrs/month	1	3.310,88 €	Azure Cognitive Services - AAA-92197
		Web App -aaS	c4r8	3	9.796,52 €	App Service Windows - Isolated v2 (I3) RI 3Y
	Compute a consumo(Altri ambienti)	VM "convenzionali"	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
			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
		VM "confidential"	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
	Storage	Managed Disks	dischi SSD Standard (128 GB)	138	101,43 €	E10 (AAD-36603)
	Storage	Managed Disks	dischi SSD Premium (128 GB)	138	228,91 €	P10 (AAD-18125)
		Connection Gateway	ore di servizio	8760	0,56 €	ExpressRoute Gateway - ErGw2AZ - Gateway

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	istanze	138	154,15 €	Azure Defender for servers - Standard - Nodes
		XDR per SQL	istanze	6	158,41 €	Azure Defender for SQL - Standard Node - Istanze/mese
		XDR per Storage	1M Transazioni Standard per	140,5	21,16 €	Azure Defender for Storage - Standard Transactions
		XDR per Kubernetes	vCore	64	20,75 €	Azure Defender for Kubernetes - Standard Cores
		XDR per container registry	100 immagini standard	1	25,53 €	Azure Defender for container registries - Standard Images
		XDR per Key Vault	1M Transazioni Standard	2	17,59 €	Azure Defender for Key Vault - Standard Transactions
	SIEM	SIEM service	GB per giorno	31,74	823,74 €	Sentinel - Analysis - EU West (stima per 40 GB al giorno)
		SIEM Data Ingestion	GB per giorno	31,74	789,43 €	Log Analytics - Data Ingestion - EU West
		SIEM Data retention (6 mesi)	GB per giorno	31,74	125,23 €	3 mesi gratuiti di retention per Sentinel
	Monitor	Monitor VM Data ingestion	GB per giorno	31,74	789,43 €	Log Analytics - Data Ingestion - EU West
		Monitor Data retention (1 mesi)	GB per giorno	1	- €	1 mese gratuito di retention per LogAnalytics
	Firewall	Deployment	Istanze	1	13.490,95 €	Azure FW Premium (AAF-69092)
		Data managed	TB mese	6	173,06 €	Azure FW Premium - Data Processed (6TB mese) (AAF-69161)
	Cloud Backup	Istanze Protette	Numero VM	138	106,19 €	
		Storage occupato	GB	35328	0,25 €	
PSN Security & Backup	Professional Services	10 giorni/mese (Security Posture, Policy Verification)				
	Key Vault	Managed HSM and AKV operations (HSM on premise)				
	Backup on premise	Storage				
	Addictional Security					
				TOTALE Progetto Cloud 1	**511.994**	

Macrotipologia	Tipo	Tipologia	Tipo	Quantità	Listino PSN	Indicazione Servizio Public Cloud di riferimento
Compute & Network	Compute (Production) riservate a 3 anni	VM "convenzionali",	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
		VM Confidential	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
		CaaS convenzionale	c4r16	6	1.293,87 €	n2-standard-4
		CaaS Confidential	c4r16	6	1.549,15 €	n2-standard-4
		PostgreSQL convenzionale	4-core 500 GB con licenza	1	1.862,48 €	db-standard-4
	Compute a consumo(Altri ambienti)	VM "convenzionali"	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
		VM "confidential"	c2r8	1	2.251,33 €	n2d-standard-8
			c4r16	1	3.010,20 €	e2-highmem-8
	Storage	Managed Disks	dischi SSD Standard (128 GB)	280	55,57 €	
	Network	Networking Cloud Load Balancing HTTPS External Regional Forwarding Rule Europe	rule (per day per project)	5	89,21 €	5 LB
		Cloud Interconnect for MPS - 10Gbps Pa	circuiti	1	18.287,53 €	1
		Cloud Interconnect for MPS - 10Gbps Partner circuit	vlan attachment	2	446,04 €	2 vlan attachment
		Egress to EMEA	gigabyte	12000	0,18 €	1TB mese
	Web Protection	Policy	number policy	25	52,86 €	Cloud Armon Policies
		Rules	number rules	25	10,57 €	Cloud Armor rules
		Incoming Request	milion request	5	7,93 €	Cloud Armor incoming request
		Chapcha	1000 requests	4000	0,01 €	recapcha
		Container Analysis	scanned image	150	2,75 €	
	SIEM	User Monitoring	user	1000	37,68 €	Chronicle
		Daily Data Volume	20 gigabyte	5	5.689,95 €	Security Command Center Premium Tier
Public Cloud Security & Backup	Data Loss Prevention	Storage Bytes Inspected (fino a 51,200 G	gigabyte	50	9,85 €	
		Storage Bytes Inspected (51,200 GiB - 51	gigabyte	450	7,39 €	
		Storage Bytes Inspected (>512,000 gibib	gigabyte	4550	5,91 €	
		Storage Bytes Transformed (fino a 51,20	gigabyte	50	9,85 €	

SECURE PUBLIC CLOUD

GPC

Macrotipologia	Tipo	Tipologia	Tipo	Quantità	Listino PSN	Indicazione Servizio Public Cloud di riferimento
		Storage Bytes Transformed (>512,000 gi	gigabyte	950	5,91 €	
		Logging ingestion	gigabyte	1224	5,69 €	
	Monitor	Logging storage	gigabyte	979,2	0,10 €	
		Cloud Monitoring	(5K metric size, 60 metric x ho	510	0,48 €	
	IAM	Active directory	quantity	2	3.086,92 €	
	Backup	Storage occupato	GB	26112	0,48 €	Actilio
	Professional Services	10 giorni/mese (Security Posture, Policy Verification)				
PSN Security & Backup	Key Vault	Managed HSM and AKV operations (HSMSecrect manager (100 secret, 100K ops, 1200 mese)				
	Backup on premise	Storage				
	Additional Security	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

PUBLIC CLOUD PSN MANAGED

Tipo	Tipologia	Tipo	Unit	Time	Applicazione tradizionale medio piccola	Applicazione tradizionale con molta memoria + NAS	Simulazione applicazione cloud native microservizi	Applicazione cloud native microservizi in PaaS	Applicazione 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 Serverless Analytics Flat con Dashboard di visualizzazione	Applicazione PaaS per gestire appuntamenti via web	Soluzione DevOps CI/CD	Applicazione con molta memoria ed Exadata	Prezzo servizio esposto dal PSN annuo
Licensed Cloud Hyperscaler Technology	vCPUs (vCPU/hour). Commitment 3 anni	General Purpose N2	vCPU	Hour		24	24	24						2	96	118,98 €
		Compute optimized	vCPU	hour	8											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 €
	VMs Single Tenant	Sole Tenancy Compute Optimized Core	vCPU	hour												284,22 €
		Sole Tenancy Compute Optimized RAM	gigabyte	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 €
	Memory (GB/hour). Commitment 3 anni	General Purpose RAM	gigabyte	hour	16	192	64							2	384	12,92 €
		Memory Instances RAM	gigabyte	hour												11,97 €
		Compute Optimized RAM	gigabyte	hour												35,48 €
		Shared RAM (Burstable e2-Micro Instance)	gigabyte	hour		24										26,70 €
		Extended Memory (Custom Extended Instance Ram)	gigabyte	hour			48									74,40 €
	Confidential Computing	Confidential Computing Instance Core	vCPU	hour												41,66 €
		Confidential Computing Instance RAM	gigabyte	hour												5,20 €
Licensed Cloud Persistent Storage Hyperscaler Technology	Storage	Persistent Disk Standard	gigabyte	hour	200											0,78 €
		Persistent Disk SSD	gigabyte	hour		1000	400								1200	1,65 €
		Balanced PD	gigabyte	hour										2		0,97 €
		Extreme PD IOPS	gigabyte	hour												1,21 €
		PD Snapshot	gigabyte	hour												184,11 €
		Opzione Protezione Multi-Region	gigabyte	hour												202,52 €
		NFS storage	gigabyte	hour		1000										6,40 €
		Filestore Backup Storage	gigabyte	hour												0,87 €
Licensed Cloud Storage Hyperscaler Technology	Cloud Storage	Archive Storage Multi-region	gigabyte	hour												0,04 €
		Class A Operations	1000	count												0,19 €
		Class B Operations	10000	count												217,46 €
		Data Retrivial Operations	gigabyte	hour												3.801,70 €
		Coldline Storage Multi-region	gigabyte	hour												354,06 €
		Class A Operations	1000	count												0,07 €
		Class B Operations	10000	count												76,03 €
		Data Retrivial Operations	gigabyte	hour												380,17 €
		Durable Reduced Availability Storage	gigabyte	hour												141,62 €
		Class A Operations	1000	count												0,19 €
		Class B Operations	10000	count												76,03 €
		Standard Storage Multi-region	gigabyte	hour												76,03 €
		Class A Operations	1000	count												0,25 €
		Class B Operations	10000	count												38,02 €
		Nearline Storage Multi-region	gigabyte	hour												30,41 €
		Class A Operations	1000	count												0,10 €
		Class B Operations	10000	count												760,34 €
		Data Retrivial Operations	gigabyte	hour												760,34 €
		Standard Storage Regional	gigabyte	hour												70,81 €
		Class A Operations	1000	count												0,19 €
		Class B Operations	10000	count												380,17 €
		America/Europe)	gigabyte													304,14 €
Networking	VPN	VPN TUNNEL	tunnel	hour												380,17 €
		VPN Traffic Egress EMEA 0 to 1,024 gibibyte	gigabyte	hour												1,16 €
		VPN Traffic Egress EMEA 1,024 to 10,240	gigabyte	hour												1,07 €
		VPN Traffic-Egress EMEA 10,240 gibibyte and above,	gigabyte	hour												0,78 €
	Static IP	Static IP charge (VM external or VPN Gateway)	per ip	hour	1											76,03 €
	Partner Interconnect	Cloud Interconnect for MPS - 10Gbps Partner circuit	circuit	hour												17.944,02 €
		Cloud Interconnect for MPS - 100Gbps Partner circuit	circuit	hour												137.241,31 €
		Cloud Interconnect - 100Mbps VLAN attachment via Google partner	vlan attachment	hour												475,21 €
		Cloud Interconnect - 1Gbps VLAN attachment via Google partner	vlan attachment	hour												2.112,22 €
		Cloud Interconnect - 10Gbps VLAN attachment via Google partner	vlan attachment	hour												17.944,02 €
	NAT Gateway	NAT Gateway- Data processing charge in Belgium	gigabyte	hour												141,62 €
		NAT Gateway- Uptime charge in Belgium	instance	hour												318,66 €
	External Cloud Load	Networking Cloud Load Balancing HTTPS External Regional Forwarding Rule f	project)	hour	1		10	10						10	10	10,64 €
		Networking Cloud Load Balancing HTTPS External Regional Inbound Data Pro	gigabyte	hour												83,64 €
	Balancer	Forwarding Rule Minimum Service Charge in EMEA	rule	hour												57,36 €
	Internal Network Load	Forwarding Rule Additional Service Charge in EMEA	rule	hour												190,08 €
	Balancer or HTTPS Load balancer	Data Processing Charge in EMEA	gigabyte	hour												76,03 €
		Data Processing Charge in EMEA	gigabyte	hour												56,65 €
	Cloud DNS	DNS Query (port 53) 0 to 1,000,000,000 count	per 1,000,000,000 count	hour												4,17 €
		DNS Query (port 53) 1,000,000,000 count and above	per 1,000,000,000 count	hour												2,08 €
		ManagedZone for 0 to 25	per zone	hour												2,08 €
		ManagedZone 25 to 10,000	per zone	hour												2,08 €
		ManagedZone 10,000 month and above	per zone	hour												2,26 €
	CDN	Cache Egress to Europe	gigabyte	hour												0,24 €

PUBLIC CLOUD PSN MANAGED

Tipo	Tipologia	Tipo (descrizione)		Unit	Time	Applicazione tradizionale medio piccola	Applicazione tradizionale con molta memoria + NAS	Simulazione applicazione cloud native microservizi	Applicazione cloud native microservizi in PaaS	Applicazione 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 Serverless Analytics Flat con Dashboard di visualizzazione	Applicazione PaaS per gestire appuntamenti via web	Soluzione DevOps CI/CD	Applicazione con molta memoria ed Exadata	Prezzo servizio esposto al PSN annuo
		Cache Lookup Requests		10000	count												57,03 €
	Egress to Internet	Egress to EMEA		gigabyte	hour	0.1											1,84 €
		Kubernetes Engine Autopilot		cluster	hour												41,82 €
		Autopilot Pod mCPU		vCPU	hour												372,57 €
		Autopilot Pod Ephemeral Storage		gigabyte	hour				12								0,43 €
		Autopilot Pod Memory		gigabyte	hour				48								38,38 €
	Kubernetes	Regional Kubernetes Clusters		cluster	hour				24								760,34 €
		Zonal Kubernetes Clusters		cluster	hour												760,34 €
		Multi-cluster Ingress backend Pod-hours (standalone)		pod	hour												31,25 €
		Cloud Build		Build time	Build time										3		1.368,61 €
Licensed Kubernetes Hyperscaler Technology		Cloud Source Repository		Active users	Active users										10		10,42 €
		Cloud Run (tier 1)															- €
			CPU	vCPU	hour									1			656,93 €
			Memory	gigabyte	hour									128			63,73 €
			Requests	1M requests	hour									10			4,17 €
		PostgresSQL no HA, MySQL no HA															- €
			vCPU	vCPU	hour												150,70 €
			RAM	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 €
		PostgresSQL Regional (HA), MySQL Regional (HA)															- €
			vCPU	vCPU	hour			8	8								301,47 €
			RAM	gigabyte	hour		52	64	64								47,59 €
			Storage Capacity (SSD)	gigabyte	hour		1024	256	256								3,30 €
			Storage Capacity (HDD)	gigabyte	hour												1,75 €
			Storage (Backup) - used	gigabyte	hour		2048										0,78 €
		SQLServer no HA															- €
			vCPU	vCPU	hour	8											150,70 €
			RAM	gigabyte	hour	16											23,79 €
			Storage Capacity (SSD)	gigabyte	hour	512											1,65 €
			Storage (Backup) - used	gigabyte	hour	1024											0,78 €
																	- €
		SQLServer Regional (HA)															- €
			vCPU	vCPU	hour												301,47 €
			RAM	gigabyte	hour												47,59 €
			Storage Capacity (SSD)	gigabyte	hour												3,30 €
			Storage (Backup) - used	gigabyte	hour												0,78 €
																	- €
Licensed SQL e Oracle Hyperscaler Technology		BigQuery															- €
			Queries (on-demand)	gigabyte	hour							5000000					0,00 €
			Flat Annual (min 100 slot)	slot	hour								1000				17,71 €
	SQL instances		Storage Active	gigabyte	hour							10240	10240				0,19 €
			Storage Long-Term	gigabyte	hour												0,10 €
		Data Studio											100	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										8		2.438,83 €
		Gen 2 Exadata Cloud at Customer - Database OCPU		OCPU	hour												10.161,40 €
		Gen 2 Exadata Cloud at Customer - Database OCPU - BYOL		OCPU	hour												2.438,83 €
		Exadata Cloud at Customer - Autonomous Transaction Processing - Database		OCPU	hour												10.161,40 €
		Exadata Cloud at Customer - Autonomous Data Warehouse - Database OCPU		OCPU	hour												10.161,40 €
		Exadata Cloud at Customer - Autonomous Transaction Processing - Database		OCPU	hour												2.438,83 €
		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												2.438,92 €
		NoSQL Document DB ops		100,000 count	hour									10			0,05 €
		NoSQL Document DB storage		gigabyte	hour									50			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 Edition 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													302,42 €
		MySQL Database - Backup Storage		Storage Capacity Per Month													1,75 €
		MySQL Database - Bare Metal Standard - E2'		Node	hour												302,42 €
		MySQL Database - Standard - E3'		OCPU	hour												3.793,64 €
		MySQL Database - Standard - E3 - Memory		Gbyte	hour												287,27 €
		Anomaly detection															16,66 €
		Digital Assistant (CCAI)															- €
		Standard CCAI insights natural language analysis		conversation	hour					50000							0,52 €

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Licensed AI/ML, Hyperscaler Technology	AI ML Platform	Data Science Platform — Topic Model labeling	conversation	hour							50000					1,04 €
		AI HR														- €
		AI Finance														- €
		'general' type pages processed with Form Parser (for 0 to 1M pages)	page	hour												0,68 €
		'general' type pages processed with Form Parser (above 1M pages)	page	hour												0,52 €
		pages processed for DAI Core Custom Model Prediction	page	hour												0,26 €
		pages processed for OCR processor (FREE for 0 to 1000 pages)	page	hour												- €
		pages processed for OCR processor (for 1000 to 5M pages)	page	hour												0,02 €
		pages processed for OCR processor (above 5M pages)	page	hour												0,01 €
		AI Document														- €
		'general' type pages processed with Form Parser (for 0 to 1M pages)	page	hour					100000							0,68 €
		'general' type pages processed with Form Parser (above 1M pages)	page	hour												0,52 €
		pages processed for DAI Core Custom Model Prediction	page	hour					100000							0,26 €
		pages processed for OCR processor (FREE for 0 to 1000 pages)	page	hour												- €
		pages processed for OCR processor (for 1000 to 5M pages)	page	hour					50000							0,02 €
		pages processed for OCR processor (above 5M pages)	page	hour												0,01 €
	Cloud Security	Security Command Center (brute-force attacks, and SQL Injections)														- €
		Event Threat Detection Log Ingest Bytes														1.900,85 €
		Ingress Egress Network Traffic														2.281,02 €
		SCC Premium ("Available as either a one year or multi-year fixed price subscription. The annual cost of the subscription is 5% of the larger of: (i) Your committed annual Google Cloud spend; or (ii) Your current Google Cloud spend, annualized The minimum annual cost is 25,000.00 USD.")														
		Access Transparency (Free ingestion but requires certain Google Cloud Support levels)														- €
		Access Approval (Free but requires certain Google Cloud Support levels)														- €
		Assurant Personnel Controls (Free but requires certain Google Cloud Support levels)														- €
		Key Access Justifications														- €
Licensed Security Cloud Solution		Cloud Armor														- €
		Policies	policy	count			1	1						1		5.765,04 €
		Rules	rule	count												52,08 €
		Incoming Request	million requests	count												10,42 €
		reCaptcha														5.702,55 €
		CreateAssessment Requests (free for 0 to 1,000,000 requests)	requests	hour												- €
		CreateAssessment Requests (for 1,000,000 requests and above)	requests	hour			10000	10000						10000		0,01 €
		reCAPTCHA Enterprise FMF		hour			1	1						1		10,42 €
		Managed Active Directory	Region	hour												3.041,36 €
Cloud Operations		Cloud Logging														- €
		Logging ingestion (free from 0 to 50GB)	gigabyte	hour												5,65 €
		Logging storage (logs retained more than 30 days)	gigabyte	hour												0,10 €
		Cloud Monitoring (5K metric size, 60 metric x hours)	metric	hour												0,47 €
Professional Services		10 giorni/mese (Security Posture, Policy Verification)														- €
Key Vault		Managed HSM and AKV operations (HSM on premise)														- €
		TOTALE			6.442	27.704	17.417	18.487	94.522	78.117	25.669	19.693	8.944	4.476	44.645	

Cluster	App trad medio piccola	App trad molta mem + NAS	Simulazione	App cloud native PaaS	App analisi fatture DocAI	App prenotazioni CUP	Serverless Analytics Consumo	Serverless Analytics Flat	App PaaS appuntamenti	Soluzione DevOps	App molta memoria Exadata	Prezzo
CLUSTER 1 Tradizionale	9	8									3	413.544 €
CLUSTER 2 Tradizionale + Microservizi	7	7	6									343.523 €
CLUSTER 3 Tradizionale + Microservizi e PaaS	5	5	5	5								350.251 €
CLUSTER 4 Tradizionale + Microservizi + PaaS e Documentale AI	3	3	3	3	3	3	2					779.405 €
CLUSTER 5 Mix tra tradizionale, Microservizi, PaaS, AI e CI/CD	2	2	2	2	2	2	2	2	2	1	1	643.111 €

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