

Regional Strategic Hub (PSR): the regional cloud infrastructure serving the territory and local authorities

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Bruxelles
September 24, 2024



POLO
STRATEGICO
REGIONALE

REGIONE DEL VENETO





Regional Cloud Strategy

In line with national guidelines, with Regional Act No. 826 of July 4, 2023, a migration strategy to the Cloud was defined, aiming to:

- Meet the infrastructural and security needs for digital health projects under the PNRR;
- Leverage PNRR funding opportunities for cloud migration of Veneto Region local authorities by 2026;
- Promote the establishment of a Regional Strategic Hub (PSR) to support the Veneto public administration.



Regional Cloud Strategy

To implement this strategy, Veneto Region has undertaken a project to qualify the Data Center of the Veneto Region as a “National Qualified Public Administration Infrastructure”, a requirement necessary to host critical and ordinary services.

DATA AND SERVICES CLASSIFICATION

- **ORDINARY:** Compromise does not interrupt state services or otherwise harm the country's economic and social well-being.
- **CRITICAL:** Compromise may affect the maintenance of relevant functions for society, health, security, and the country's economic and social well-being.
- **STRATEGIC:** Compromise may impact national security.



The Regional Strategic Hub (PSR)

- 1. Qualifications obtained from National Cybersecurity Agency:**
 - "Public Administration digital infrastructure" AI1 and AI2 (Ordinary and critical)
 - "Cloud IaaS and PaaS services" of AC1 type (Ordinary)
 - "SaaS services" of AC1 type (Ordinary)
- 2. A structured and continuously expanding service catalog for "Cloud IaaS and PaaS services" of AC1 type for public administration authorities in the Veneto region.**
- 3. High-performance and reliable architecture extended over 2 availability zones.**
- 4. Flexible scalability to meet the growing needs of the Veneto public administrations through hybrid extension with CSP and PSN (National Strategic Hub).**
- 5. Security services.**



Qualificazioni del PSR (1/2)

Sistema di Gestione Integrato RVE

ISO/IEC 9001

2015 Quality Management System
(**June 2023**)

ISO/IEC 27001

Information Security Management System (**January 2024**) for the
**management of the data center, on-premises services, and
IaaS-PaaS and SaaS cloud services**

ANSI/TIA 942-B-2017

Data Center certification
(**January 2022**) for Availability
Zone 2

ISO/IEC 14001

In corso

2015 Environmental Management
System certification, expected in
October 2024 for Zone 1,
achieved for Zone 2 in **2017**.

ISO/IEC 22301

2019 Business Continuity Management
System certification (**April 2024**)

CERTIFICAZIONE TIER 3

In valutazione

Tier 3 certification for Availability
Zone 2, under evaluation for
Availability Zone 1



Qualificazioni del PSR (2/2)

Servizi Cloud

QC1 IaaS per gestione Dati e Servizi ordinari

- Denominazione: **IaaS Regione del Veneto**
- Categoria: IaaS
- Classificazione dati e servizi digitali trattati: ORDINARI

QC1 PaaS Oracle EE Regione del Veneto

- Denominazione: **PaaS Oracle EE Regione del Veneto**
- Categoria: PaaS
- Classificazione dati e servizi digitali trattati: ORDINARI

QC1 PaaS Backup Regione del Veneto

- Denominazione: **PaaS Backup Regione del Veneto**
- Categoria: PaaS
- Classificazione dati e servizi digitali trattati: ORDINARI

QC1 SaaS MyID Regione del Veneto

- Denominazione: **MyID**
- Categoria: SaaS
- Classificazione dati e servizi digitali trattati: ORDINARI
- Infrastruttura/servizio sottostante: AWS EMEA SARL

QC1 SaaS My Pay 4 Regione del Veneto

- Denominazione: **MyPay**
- Categoria: SaaS
- Classificazione dati e servizi digitali trattati: ORDINARI
- Infrastruttura/servizio sottostante: AWS EMEA SARL

QC1 SaaS My Portal 3 Regione del Veneto

- Denominazione: **MyPortal**
- Categoria: SaaS
- Classificazione dati e servizi digitali trattati: ORDINARI
- Infrastruttura/servizio sottostante: AWS EMEA SARL

QC1 SaaS Lizard Regione del Veneto

- Denominazione: **Lizard**
- Categoria: SaaS
- Classificazione dati e servizi digitali trattati: ORDINARI
- Infrastruttura sottostante: Infra. PA di Regione del Veneto AZ-A

Servizi di infrastruttura

QI2 per Dati e Servizi critici

- Denominazione: **Infrastruttura PA di Regione del Veneto AZ-A e AZ-B**
- Classificazione dati e servizi digitali trattati: CRITICI
- Localizzazione:
 - Via Antonio Pacinotti, 4 - 30175 Marghera (VE)
 - Corso Stati Uniti, 14, 35127 Padova (PD)



PSR Service Catalog

Panoramica soluzioni

 **Colocation***



Rack Data Center

 **IaaS**
Infrastruttura Computazionale



CMP di VMware

 **BaaS**
Infrastruttura di Backup



Rubrik

 **PaaS**
Infrastruttura Data Base



Oracle Exadata

Catalogo servizi

The PSR catalog consists of more than 100 items. The services are classified based on the delivery methods, specifically:

- **Managed services:** The counterpart must request the service from the Veneto Region through a trouble ticket submitted via the ITSM portal.
- **Self-managed services:** The counterpart, while utilizing the Veneto Region's infrastructure, manages the service independently.

Servizi Infrastrutturali (65) - Virtual Machine - Interfaccia di Rete - Storage - Gestione CMP - Database - Backup - Restore - DR & BC	Servizi Rete (11) - Network Servizi di Sicurezza (20) - Firewall - VPN - Consulenza Gestione Accessi (11) - Utenze Servizi di Data Center (2) - Colocation - Ge-Host
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Service Catalog Expansion

The technical committee is currently evaluating the possibility of expanding the range of services offered.



WEB APPLICATION FIREWALL (WAF)



BILANCIATORE



STORAGE AS A SERVICE



SISTEMA DI PROTEZIONE CONTRO ATTACCHI DDoS





Contracting and Membership

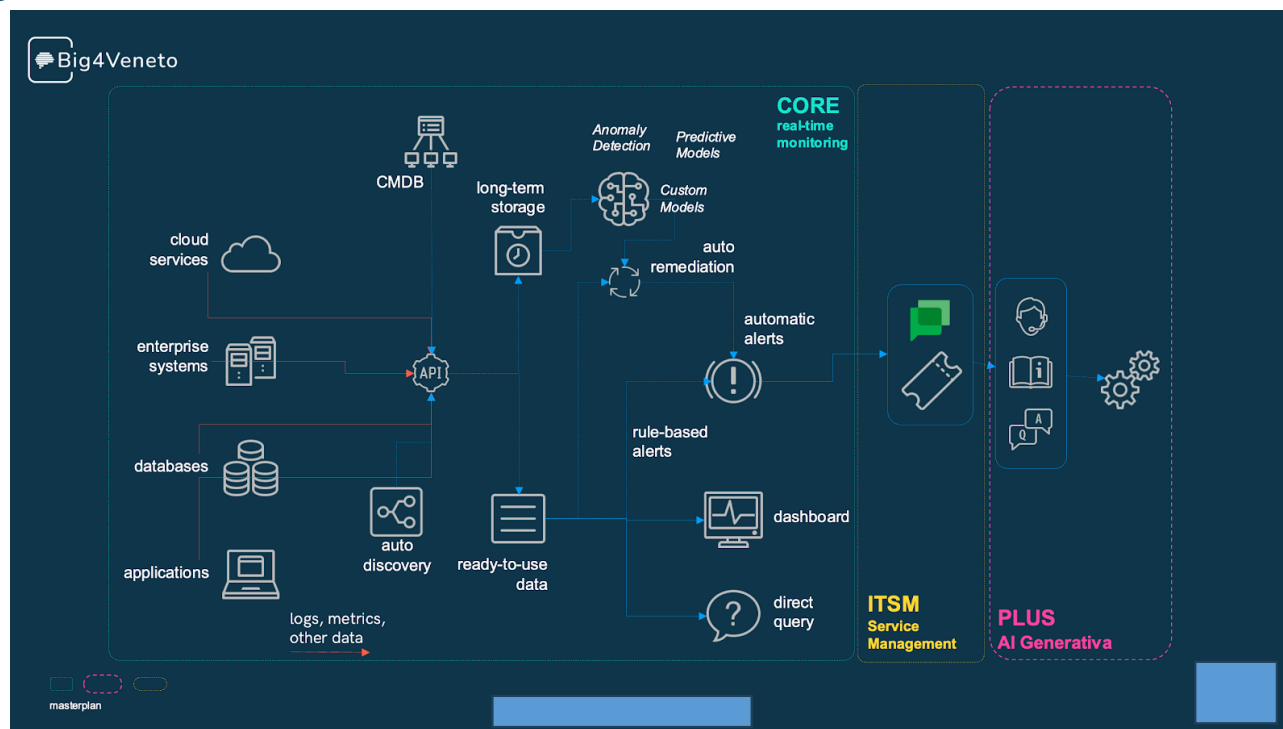
With Regional Act No. 1331 of November 7, 2023, the contracting (agreement) method was approved, which includes:

- The agreement;
- Technical annexes:
 - Annex A1 – Service catalog: More detailed data management information has been provided.
 - Annex A2 – Technical sheet: The structure of the section dedicated to sizing and cost estimation has been revised.
 - Annex A3 – Privacy: Communication regarding sub-responsibilities.



Monitoring of services with AI

The project represents an innovative solution that, through the monitoring of events, systems, and processes, enables proactive intervention in response to potential anomalies by adopting artificial intelligence technologies applied to behavior





Domo Data never sleeps





Conclusions

- Requirement to adopt stringent criteria also in terms of sustainability (e.g., PUE 1.5);
- Reduction of data centers in the Veneto public administration;
- Improvement in terms of security;
- Standardization of the services offered.



THANK YOU FOR YOUR ATTENTION

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