



Romanian Government Cloud

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FUNDAMENTAL PRINCIPLES



GOVERNMENT CLOUD

CYBER SECURITY 03

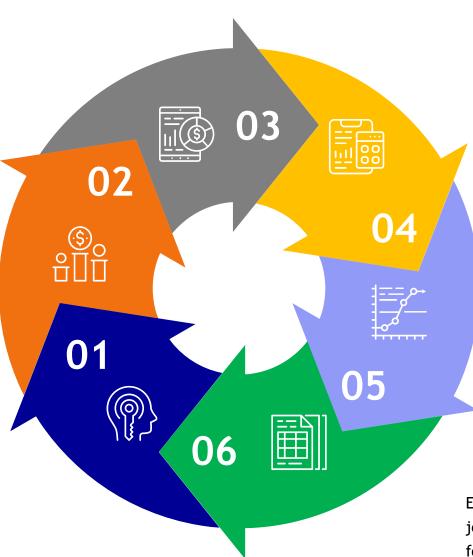
Ensuring the cyber security of cloud services by knowing, preventing and countering cyber attacks, threats, risks and vulnerabilities, including complex ones, such as APTs, directed against services provided through the Government Cloud

RESILIENCY 02

Ensuring the hosted systems' capabilities to quickly recover after interruptions thus ensuring availability.

CLOUD FIRST 01

Promotion of cloud computing services as a priority technology for the administration and for the provision of public services at the center and local level



GOVERNANCE 04

Establishing standards, rules and obligations necessary for operational, procedural and technical activities for the organization and operation of IT infrastructures and cloud services

GDPR 05

Application of Regulation (UE) nr. 2016/679 on the protection of natural persons with regard to the processing of personal data in the process of providing cloud services,

JOURNALISATION, NOTIFICATION, AUDITING 06

Ensuring transparency of data processing through journaling mechanisms of processing operations for subsequent auditioning

LEGAL FRAMEWORK







Government's Ordinance 89/2022

01

28 June 2022 Publication in the Official Journal of GO 89/2002 regarding the establishment, administration and development of infrastructures and cloud IT services used by public authorities and institutions

Transparency 02

28 September 2022
 Submission to open public consultation of the draft Government Decision regarding the rules of the Governmental Cloud Platform

Interoperability Law 03

30 June 2022 publication to the Official Journal of the Interoperability Law

Government Decision 112/2023 04

10 February 2023

Publication to the Official
Journal Government
Decision on the approval of
the Government cloud
Platform Governance Guide

DOCUMENTATIONS 05

Orafting of the Feasibility
Study and the Technical
Project of the government
cloud ADR/MCID/SRI/STS

PROVISION OF "ONE STOP SHOP"-type services FOR PUBLIC AUTHORITIES







GOVERNMENT CLOUD

MARKET PLACE

- The chosen model is an extension of the *Enterprise Architecture Model*, applicable to any specific scenario for entities using the *Solution Building Block*;
- Capacity visibility varies depending on the roles of participants;



SERVICE DESK

- Technical solutions that ensure data processing and non-repudiation of actions produced in systems and applications

cloud by the human factor or by applications, services or connection interfaces:

- The solution will provide storage in the form of logs and logs

system, transparently and directly accessible to the user





SINGLE DIGITAL GATEWAY

- OUG 89/2022, middleware interconnections through API-based technologies under the principles "digital-by-default" and "once only" for the provision of e-Government services to citizens and companies;
- E-government services delivery through **One- Stop Shop portals**





JOURNALISATION AND NOTIFICATION

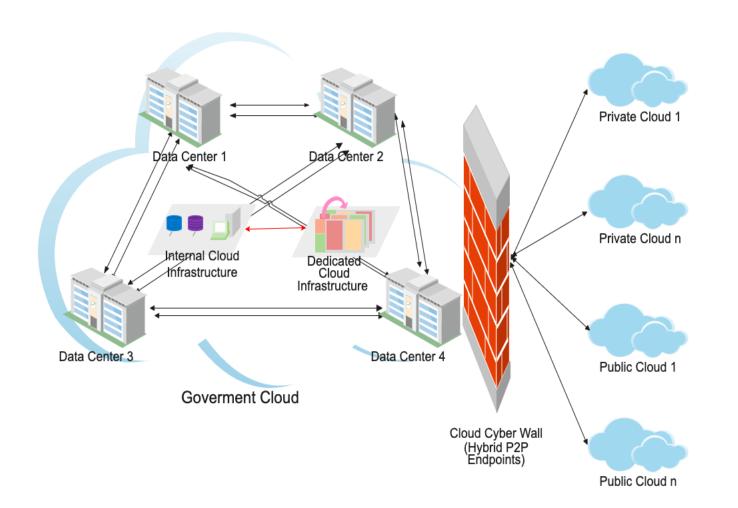
The large number of users and components requires the installation of a single technical support solution, through which all incidents registered at the level of the government cloud platform are managed and all SLAs are monitored;
The system will allow the retrieval, recording and tracking of incidents regarding the abnormal operation of the IT system

HYBRID-type CLOUD



GOVERNMENT CLOUD

The conceptual architecture of the hybrid model





What it means?

Provided by OUG 89/2022, it is the possibility for public institutions to use services from multiple cloud solutions. The hybrid way of working is ensured by the interconnection, at the level of services, of the private component of the CPG presented architecturally in the technical project with the full stack component, both having the possibility to be interconnected with other public cloud or private cloud services.

Full stack - complete on-premise cloud infrastructure



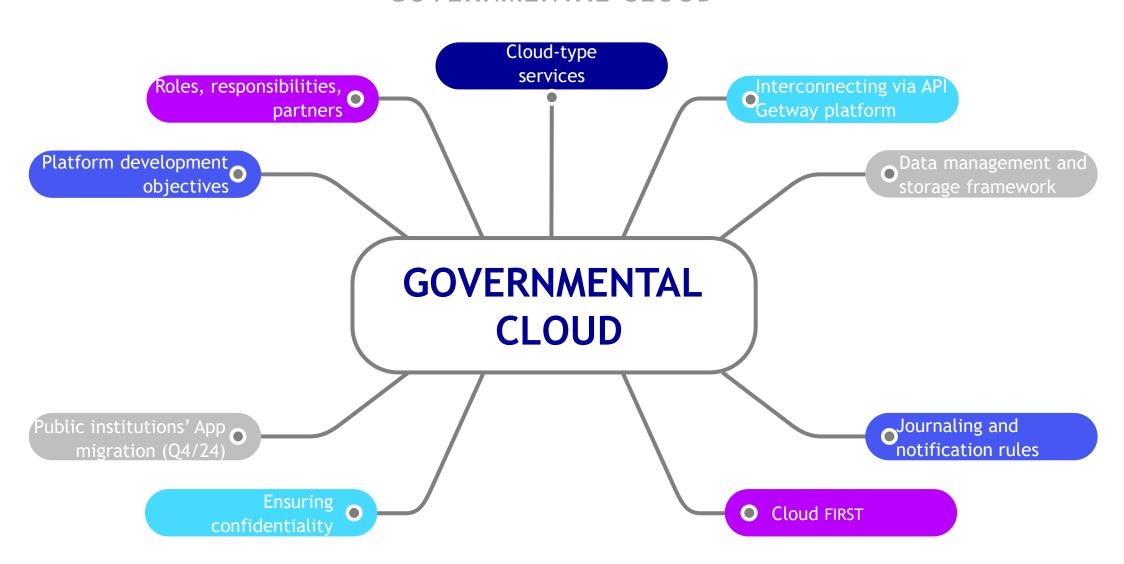
Implementing models

- Full stack at public cloud provider level (in CPG)
- Full stack with a public provider to ensure interconnection with other private providers (other public institutions in Romania that own private clouds)
- By connecting to the infrastructure of the public cloud provide

IMPLEMENTING MILESTONES



GOVERNMENTAL CLOUD



GENERAL FUNCTIONALITIES



GOVERNMENT CLOUD

Cloud Computing – based on building blocks IaaS AND PaaS



Virtual resources can be monitored and metered both by the technical administrator of the government cloud, how much and by the beneficiary who consume them:

ELASTICITY

The virtual resources allocated for an IT system will be able to be expanded or reduced automatically according to needs, through mechanisms specific to cloud environments



SELF-SERVICE MODEL

The CPG solution will allow the creation of virtual resources for processing (virtual machines and containers), storage (volumes) and network by accessing an interface by the beneficiaries;





LOGICAL DIVISION OF RESOURCES

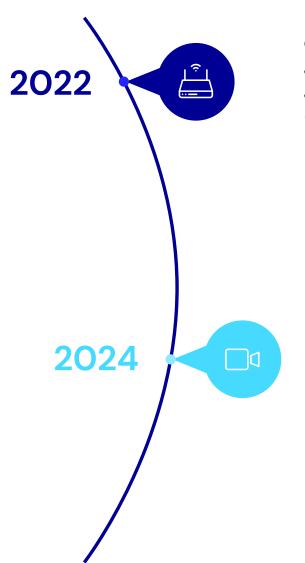
Each beneficiary will have its own virtual resources and will control access to them;

RESILIENCE AND AVAILABILITY

The government cloud solution will include mechanisms that will support the construction of systems with a high degree of availability and resilience;







Completion of the technical specifications and completing the procedures for the acquisition and implementation of the government cloud platform investment I1 according to the terms approved in the financing contract provided for in Component 7 - Digital Transformation of the National Recovery and Resilience Plan.

Preparation and start of the Migration stage of the Public Administration systems according to I2.

